

**Supplementary Table S1.** All different genes and multiple of gene differences between AMD patients and normal people.

gene	conMean	treatMean	logFC	pValue
A1BG	5.355134536	5.429360958	0.019859581	0.314511324
A1CF	1.911365272	1.890019085	-0.016202709	0.682986665
A2BP1	6.44563198	6.47386362	0.006305155	0.82313759
A2LD1	4.807640861	4.949592345	0.04198058	0.121450792
A2M	12.29607562	12.0890447	-0.024497697	0.198714716
A2ML1	4.586122377	4.616980923	0.009674918	0.574430938
A3GALT2	1.872586238	1.918523415	0.034964212	0.367617859
A4GALT	4.758604291	4.748761627	-0.002987151	0.8430554
A4GNT	1.922209642	1.927717901	0.004128256	0.834429109
AAAS	5.473837788	5.386178423	-0.023290661	0.111500867
AACS	6.463772596	6.545829556	0.018199594	0.542433453
AADAC	1.960145073	1.994650746	0.025175726	0.731707325
AADACL1	7.249744536	7.418400007	0.033177902	0.35563787
AADACL2	1.875660397	1.882478451	0.005234709	0.769907133
AADAT	4.603428285	4.676973514	0.022866587	0.226809879
AAK1	2.842560344	2.945873754	0.051504628	0.115592183
AAMP	8.123073629	8.226430923	0.018240925	0.066301333
AA NAT	5.167024616	5.407542345	0.065639301	0.227340903

AARS	6.923838232	6.987020176	0.013105288	0.500321928
AARS2	7.00466745	6.902258711	-0.02124801	0.047795778
AARSD1	6.020890126	6.016919549	-0.000951723	0.771489408
AASDH	4.231233278	4.288572077	0.019419141	0.413658646
AASDHPPT	7.478757291	7.525654232	0.009018442	0.590995711
AASS	4.399953503	4.297301155	-0.034057393	0.689073494
AATF	7.836955609	7.893782542	0.010423451	0.121616076
AATK	6.339614775	6.489807683	0.033780548	0.092063041
ABAT	6.48383304	6.651634944	0.036862051	0.233778845
ABCA1	4.196108834	4.217759739	0.007424818	0.683493082
ABCA10	2.305307702	2.185282085	-0.077139808	0.059848122
ABCA11P	3.610820159	3.574054338	-0.014764998	0.132614107
ABCA12	1.929052417	1.996412549	0.049517532	0.124973776
CYP4Z1	3.141435371	2.617251366	-0.263371409	6.90E-05
ABCA17P	4.381339967	4.439461894	0.019012655	0.599600145
ABCA2	3.466891583	3.546594472	0.032791657	0.181471062
ABCA3	7.657453523	7.821747704	0.030626296	0.163053115
ABCA4	10.68625141	10.76503446	0.010597074	0.746807794
ABCA5	7.439042609	7.453682585	0.002836422	0.92580049
ABCA6	4.80585002	4.656663254	-0.045495068	0.462528363

ABCA7	8.378246934	8.602399676	0.038090756	0.279392483
ABCA8	5.055712762	4.874526437	-0.052652433	0.204325573
ABCA9	2.292394146	2.212129014	-0.051419589	0.271196853
FGG	3.062042543	2.577527331	-0.248506602	0.009683357
ABCB10	3.813587854	3.871165535	0.021619064	0.255303082
ABCB11	1.90539957	1.898862085	-0.004958443	0.856029706
ABCB4	1.971156854	1.973536655	0.001740732	0.97633539
ABCB5	2.564426907	2.479865063	-0.04837483	0.752563232
ABCB6	7.132150391	7.129765845	-0.000482428	0.907735915
ABCB7	6.455214364	6.4632375	0.001792001	0.870672237
ABCB8	2.716966344	2.678237669	-0.020712702	0.781005048
PENK	3.973277066	3.367477394	-0.238661139	0.000603733
ABCC1	3.009518715	3.076271007	0.031649816	0.310874243
ABCC10	3.996031781	3.941673444	-0.019759799	0.211548485
ABCC11	3.879307106	3.713090718	-0.063178428	0.217150389
ABCC12	1.939149318	1.89783557	-0.031068896	0.675911248
ABCC13	2.022868391	1.932586852	-0.065869209	0.019862522
ABCC2	2.687503728	2.653260282	-0.018500547	0.868500139
ABCC3	4.55212145	4.674334458	0.038221916	0.526999957
ABCC4	2.110045662	2.125870627	0.010779582	0.860905191

ABCC5	9.583150795	9.645232275	0.009315911	0.527449628
ABCC6	3.804419993	3.876060697	0.02691464	0.273910305
ABCC8	4.928782781	5.138470204	0.060107512	0.232427306
ABCC9	3.012924119	2.948882887	-0.030995811	0.336225213
ABCD1	3.323121205	3.320069099	-0.001325646	0.703865858
ABCD2	2.179688384	2.270042768	0.058597581	0.226545114
ABCD3	4.177265126	4.128252507	-0.017027496	0.445890578
ABCD4	6.225021868	6.155718246	-0.016151706	0.267309916
ABCE1	4.446344967	4.425490725	-0.006782444	0.453334723
ABCF1	8.202908305	8.221961683	0.003347147	0.955439078
ABCF2	5.525904609	5.577390324	0.013379581	0.359241688
ABCF3	7.767215517	7.785688324	0.003427095	0.717223604
ABCG1	5.398987026	5.536995937	0.036414713	0.2292056
ABCG2	6.453976397	6.19802581	-0.058379539	0.206795924
ABCG4	8.666576543	8.75984069	0.015442418	0.770961877
ABCG5	2.064263762	2.011349796	-0.037463319	0.478649994
ABCG8	1.826813583	1.867513676	0.031789386	0.308902067
ABHD1	3.912527914	4.001369852	0.03239294	0.18832741
ABHD10	6.294146325	6.353339739	0.01350445	0.622328485
ABHD11	5.898192477	6.008442169	0.026718084	0.086098617

ABHD12	6.264823887	6.455212972	0.04319074	0.042193498
RPS4Y1	6.371870391	5.426221937	-0.231768865	0.006142343
ABHD13	3.061078159	3.053113479	-0.003758669	0.988441571
ABHD14A	7.921920232	8.065463232	0.025907221	0.076014458
ABHD14B	5.020489238	4.990449556	-0.008658175	0.495073559
ABHD2	4.001699417	4.076944345	0.026875458	0.087368009
ABHD3	4.147344437	4.056139592	-0.032080565	0.262579172
ABHD4	6.547992126	6.590634	0.009364668	0.380220857
ABHD5	6.061813901	5.883369183	-0.043106993	0.032417541
ABHD6	7.601044079	7.672599866	0.013517918	0.199208296
ABHD7	3.194733556	3.397499387	0.088777677	0.020643256
ABHD8	6.175109768	6.296101986	0.027994128	0.157710962
ABHD9	6.509057709	6.465780718	-0.009624125	0.774129598
ABI1	6.679558629	6.602337155	-0.016775963	0.61212692
ABI2	5.991582199	6.027014775	0.008506575	0.122115794
ABI3	5.028416053	4.914988514	-0.032915979	0.445890578
ABI3BP	5.26965594	5.201621331	-0.018747393	0.745764342
ABL1	5.078684338	5.068772451	-0.002818408	0.486391571
ABL2	4.948699377	4.910156866	-0.011280289	0.407381864
ABLIM1	11.15586698	11.16931381	0.001737919	0.945000608

<b>ABLIM2</b>	7.761449881	7.874177437	0.020803042	0.426382564
<b>ABLIM3</b>	5.888069325	5.910186092	0.005408899	0.759381397
<b>ABO</b>	1.916903808	1.895614444	-0.016112384	0.825285536
<b>ABP1</b>	1.983664894	2.053447599	0.049879804	0.198244269
<b>ABR</b>	11.54181847	11.52288298	-0.002368827	0.841435028
<b>DDX3Y</b>	4.782682841	4.101351718	-0.221720654	0.017508943
<b>ABT1</b>	3.740445609	3.799681366	0.02266829	0.33691896
<b>ABTB1</b>	6.841386099	6.743769106	-0.02073351	0.123454334
<b>ABTB2</b>	7.523751318	7.412765528	-0.021440286	0.105876626
<b>ACAA1</b>	7.885884589	7.880418542	-0.001000341	0.999449579
<b>ACAA2</b>	6.947554781	6.974756408	0.005637527	0.941158411
<b>ACACA</b>	2.556001821	2.603192838	0.026393323	0.417214464
<b>ACACB</b>	3.041063543	2.857955739	-0.089592388	0.021101275
<b>ACAD10</b>	4.394084497	4.590712866	0.063155587	0.001423387
<b>ACAD11</b>	4.133334861	4.190444641	0.019797086	0.251575621
<b>ACAD8</b>	4.80506553	4.875742232	0.02106575	0.062422132
<b>ACAD9</b>	7.861856245	7.940162676	0.014298581	0.084098051
<b>ACADL</b>	2.299283119	2.237634394	-0.039209787	0.65087893
<b>ACADM</b>	6.472226901	6.544377789	0.015993847	0.191122567
<b>ACADS</b>	3.913269397	4.008510634	0.03469187	0.382472326

ACADSB	3.681312205	3.762783303	0.0315801	0.055753959
ACADVL	10.99512866	10.92155434	-0.009686293	0.734822229
ACAN	4.587294563	4.33007519	-0.083251473	0.14897394
ACAP1	5.156444987	5.103067592	-0.015012019	0.426382895
ACAP2	5.867788854	5.783046951	-0.020987143	0.447126303
ACAP3	3.729205351	3.803032514	0.028282031	0.388895418
ACAT1	8.846337503	8.891135951	0.007287468	0.682479459
ACAT2	8.275810954	8.476623218	0.034588972	0.019356524
ACBD3	6.596508828	6.46765338	-0.028460324	0.001440461
ACBD4	5.109768596	5.202813444	0.02603402	0.111036153
ACBD5	7.216328788	7.369903317	0.030380622	0.038044195
ACBD6	8.169175026	8.223872486	0.009627502	0.17989782
ACBD7	3.049105086	3.014938746	-0.016257181	0.583869995
ACCN1	5.131071066	5.396684021	0.072813212	0.218696414
ACCN2	5.386554119	5.353257408	-0.008945623	0.894627417
ACCN3	3.021901325	3.064723796	0.020300506	0.350630648
ACCN4	4.023263464	4.245106979	0.077434695	0.136204385
ACCN5	1.975908351	1.934814451	-0.030320814	0.62037989
ACCS	4.854311841	4.775955204	-0.023477485	0.536506013
ACD	6.706550046	6.697850176	-0.001872708	0.864158657

ACE	2.069711212	2.104353141	0.023947348	0.565064953
ACE2	3.08554945	3.065575408	-0.009369523	0.661346664
ACER1	2.301496589	2.267767662	-0.021299464	0.774129598
ACER3	4.093187364	4.155351831	0.021745927	0.335878685
ACHE	4.039388967	4.006124627	-0.011929772	0.878282629
ACIN1	6.101359106	6.041095986	-0.014320336	0.336225213
ACLY	5.231244755	5.331763634	0.027458554	0.076931392
ACMSD	1.890050669	1.948259711	0.043761097	0.177891166
ACN9	7.309186821	7.374107683	0.012757575	0.353844287
AC01	8.021945225	7.998539521	-0.004215518	0.838200646
AC02	10.34033129	10.42326065	0.01152425	0.191118915
AC0T1	8.728086656	8.830244345	0.016787934	0.04881385
AC0T11	4.99918647	5.047857908	0.01397796	0.615034411
AC0T12	2.05466051	1.975594746	-0.056613001	0.096266965
AC0T2	7.604403821	7.698153479	0.017677288	0.125653827
AC0T4	3.55317194	3.650771789	0.039093985	0.102205506
AC0T7	7.935247755	8.052473077	0.021156664	0.74733146
AC0T8	6.025159675	6.025012958	-3.51E-05	0.649389043
AC0T9	6.966169344	6.926725915	-0.008191956	0.643443674
ACOX1	5.981377245	6.008699408	0.00657504	0.522952124



ACOX2	6.290435278	6.234261958	-0.012941074	0.775714687
ACOX3	4.242019298	4.200491408	-0.014193068	0.503396968
ACOXL	1.86563694	1.888343035	0.017452608	0.423180463
ACP1	6.455945444	6.48999381	0.007588715	0.634568573
ACP2	3.433401623	3.602098113	0.069198851	0.002698408
ACP5	10.90715532	11.01104824	0.013676934	0.474375208
ACP6	2.895132417	2.94153362	0.02293919	0.273607954
ACPL2	6.029675338	6.171114676	0.03345078	0.193002787
ACPP	1.994439166	1.992677423	-0.001274935	0.838200684
ACPT	2.295157848	2.231924514	-0.040305143	0.077741059
ACR	2.74899198	2.759611754	0.005562612	0.526999809
ACRBP	3.204112563	3.080157014	-0.056920936	0.013394271
NPR3	3.632383477	3.147749127	-0.206595955	0.011194145
ACRV1	2.013456325	2.008344986	-0.003667067	0.957087901
ACSBG1	2.307663404	2.324722986	0.010626007	0.941707349
ACSBG2	2.110745205	2.082653507	-0.0193296	0.598162227
ACSF2	4.536898841	4.325216225	-0.068934235	0.023147827
ACSF3	5.983031238	5.952716613	-0.007328381	0.680962281
ACSL1	7.467938238	7.444246873	-0.004584096	0.812952702
ACSL3	7.630760834	7.689412148	0.011046399	0.5020778

ACSL4	5.070787338	5.125548183	0.01549654	0.772017443
ACSL5	3.432193238	3.344325887	-0.037415344	0.486392402
ACSL6	4.330452132	4.514990563	0.060205311	0.171753256
ACSM1	2.095710623	2.068364155	-0.018949314	0.659847266
ACSM2A	2.155434921	2.125504915	-0.020173408	0.717739729
ACSM2B	2.113857093	2.154538993	0.027501362	0.380221085
ACSM3	2.082438331	2.046516908	-0.025103186	0.584343786
ACSM5	2.440831318	2.378150958	-0.0375323	0.519815449
ACSS1	6.614820834	6.676231563	0.013331914	0.55207702
ACSS2	5.716859868	5.744117528	0.006862341	0.393850807
ACSS3	4.22393043	4.244946958	0.007160454	0.954340061
ACTA1	2.910283291	2.952894599	0.020970267	0.331394632
ACTA2	8.656391225	8.235209732	-0.071960311	0.070162899
ACTB	12.08120321	12.0581547	-0.002755001	0.580077813
ACTBL2	4.338534536	4.210020754	-0.043380468	0.122115883
ACTC1	7.866330099	8.048349817	0.033002284	0.114162632
ACTG1	12.29686619	12.3828926	0.010057666	0.077960809
ACTG2	6.841582477	6.438117077	-0.087691251	0.197044091
ACTL6A	7.81787357	7.780258092	-0.00695824	0.356356574
ACTL6B	3.650019993	3.73280407	0.032355419	0.219472054

ACTL7A	2.352966921	2.276715669	-0.047526909	0.214591234
ACTL7B	2.028975517	2.021209613	-0.00553251	0.901724549
ACTL8	2.139327656	2.19015388	0.033874777	0.639986204
ACTN1	8.682959675	8.481188683	-0.033920404	0.022123874
ACTN2	3.959623887	4.014796394	0.019963425	0.846835335
ACTN3	2.387615503	2.352702599	-0.021251563	0.298844965
ACTN4	5.568726411	5.570624965	0.000491776	0.975235056
ACTR10	8.468331662	8.49911112	0.005234191	0.538780763
ACTR1A	7.61799057	7.748362768	0.024480999	0.001447341
ACTR1B	6.503037285	6.653872296	0.033080482	0.137844247
ACTR2	6.065743444	6.135626592	0.016526205	0.197043984
ACTR3	7.419633199	7.409935746	-0.001886834	0.851159369
ACTR3B	6.392531815	6.559707845	0.037244126	0.116713488
ACTR5	3.565751298	3.569301176	0.001435558	0.772017522
ACTR6	8.408159556	8.415973437	0.001340104	0.743154359
ACTR8	4.579919801	4.603937352	0.007545867	0.601519712
ACTRT1	1.908260172	1.89854081	-0.007366871	0.768852549
ACTRT2	2.110164675	2.158132606	0.032427923	0.3596037
ACVR1	5.438980583	5.282022408	-0.042245853	0.156901033
ACVR1B	3.467286325	3.558673352	0.037532538	0.035015215

ACVR1C	2.977604563	3.012488683	0.01680365	0.837122689
ACVR2A	2.963763053	2.973771	0.004863443	0.85819597
ACVR2B	7.493358311	7.474715486	-0.003593772	0.756232133
ACVRL1	7.085708503	6.677521162	-0.085599473	0.065489942
ACY1	6.809898073	6.845630514	0.007550222	0.724970627
ACY3	2.096956026	2.080708437	-0.011221789	0.818845503
ACYP1	8.389826219	8.29557162	-0.016299532	0.187632948
ACYP2	6.165759192	6.331378352	0.038241066	0.081893946
ADA	5.821685728	5.753912683	-0.016893633	0.758331253
ADAD1	1.959187192	1.991564021	0.02364661	0.465896782
ADAD2	8.972495728	8.833944718	-0.022451527	0.76411196
ADAL	5.853899636	6.029176169	0.042562874	0.084470851
ADAM10	3.551556815	3.463873852	-0.036065174	0.318176212
ADAM11	3.608166258	3.75820369	0.058777444	0.131022812
ADAM12	2.475635861	2.413222859	-0.036837972	0.523850581
ADAM15	4.488091762	4.546463014	0.018642443	0.518474159
ADAM17	6.731271106	6.643128521	-0.019016137	0.042053785
ADAM18	1.878565563	1.88715907	0.006584567	0.892990764
ADAM19	6.417279503	6.431373148	0.003164976	0.952691587
ADAM2	1.873786331	1.90657019	0.025023194	0.552538336

ADAM20	2.435352404	2.504042268	0.040128364	0.295329391
ADAM21	2.133910702	2.140793549	0.004645869	0.676920341
ADAM22	2.605971517	2.57940569	-0.014782617	0.957087896
ADAM23	3.944846285	3.915475211	-0.010781671	0.757806305
ADAM28	2.703508285	2.540518521	-0.089709796	0.017939053
ADAM29	1.875649278	1.87970157	0.003113544	0.528352663
ADAM30	1.909711656	1.897510021	-0.00924732	0.432829488
ADAM32	2.382318232	2.345693352	-0.022351717	0.717224088
ADAM33	3.567715583	3.486311634	-0.033299074	0.366884875
ADAM5P	1.827640245	1.78266981	-0.035942608	0.77201739
ADAM6	2.041571921	2.042198704	0.000442854	0.592425969
ADAM7	2.063620755	2.001728451	-0.043931586	0.280006557
ADAM8	7.820327947	7.6266965	-0.036170819	0.027470931
ADAM9	4.831834768	4.777736585	-0.016243806	0.284638725
ADAMDEC1	2.434625172	2.337454296	-0.05876152	0.912111215
ADAMTS1	5.53506643	5.687147782	0.039104662	0.38813656
ADAMTS10	2.64265749	2.539890218	-0.057223311	0.075445993
ADAMTS12	2.330365344	2.360207676	0.018357657	0.439740517
ADAMTS13	4.588159828	4.567121979	-0.006630326	0.492460576
ADAMTS14	2.855666921	2.74300807	-0.058068849	0.147811716

ADAMTS15	2.135441781	2.087747648	-0.032587227	0.162429775
ADAMTS16	1.978756874	1.990430359	0.008486033	0.768325471
ADAMTS17	1.974711788	1.991657063	0.012327151	0.729113762
ADAMTS18	2.373168536	2.502624915	0.076627521	0.150143078
ADAMTS19	2.293415457	2.224244366	-0.044182428	0.234321408
ADAMTS2	3.26511296	3.156997127	-0.048579957	0.134220748
ADAMTS20	1.979224503	1.91287588	-0.049192001	0.144746281
ADAMTS3	3.239339901	3.307379479	0.029988729	0.518921157
ADAMTS4	6.718736517	6.965800676	0.052099237	0.097515604
JARID1D	3.874336596	3.377791331	-0.197869093	0.005274846
ADAMTS6	2.068110086	2.083110627	0.010426475	0.651375972
ADAMTS7	8.726666192	8.746873077	0.003336747	0.661345868
ADAMTS8	2.720039576	2.71985807	-9.63E-05	0.630150463
ADAMTS9	4.260829199	4.296284563	0.011955333	0.737944183
ADAMTSL1	4.188323397	3.872409021	-0.113141498	0.022285166
ADAMTSL2	4.516302901	4.368537183	-0.047991978	0.024169207
FOSB	3.963755245	3.470933169	-0.191544294	0.003406991
ADAMTSL4	4.122093762	3.924163211	-0.070992274	0.126508439
ADAMTSL5	2.933767914	2.971896014	0.018628891	0.39117786
ADAP1	2.807547344	2.812642718	0.002615952	0.710020085

ADAP2	6.792622921	6.563346704	-0.049537123	0.074319509
ADAR	7.880633424	7.883894275	0.000596835	0.95433992
ADARB1	7.094771079	7.107446408	0.002575181	0.876107005
ADARB2	5.377830755	5.41452157	0.009809513	0.611643191
ADAT1	3.789457477	3.830849866	0.015673169	0.406211377
ADAT2	3.158607517	3.062606268	-0.044528777	0.134579484
ADAT3	2.874547212	2.775520577	-0.050576337	0.02600451
ADC	5.45837457	5.57730507	0.031096787	0.090739128
ADCK1	3.216791331	3.19311019	-0.010660014	0.633094413
ADCK2	5.703598914	5.664581148	-0.009903249	0.718771172
ADCK4	2.764489967	2.815503303	0.026379508	0.150338232
ADCK5	6.741585543	6.756338627	0.003153701	0.885904153
ADCY1	5.542272026	5.747857577	0.052546792	0.673895064
ADCY10	1.942339358	1.955354613	0.009634986	0.977985982
ADCY2	4.580307026	4.522558176	-0.018305247	0.671377915
ADCY3	9.534101079	9.435354493	-0.015020199	0.421981336
ADCY4	6.480433199	6.083099479	-0.091283659	0.086477999
ADCY5	2.884720967	2.878815937	-0.002956227	0.935122049
ADCY6	5.219723013	5.139727113	-0.022281488	0.281544831
ADCY7	3.709799252	3.447317042	-0.105867134	0.041499373

ADCY8	2.48684506	2.62387988	0.077385051	0.060507024
ADCY9	5.827522318	5.756815077	-0.017611754	0.32660944
ADCYAP1	2.963862033	2.840335014	-0.061417188	0.17283735
ADCYAP1R1	2.330061298	2.390849669	0.037155511	0.218180086
ADD1	10.17273672	10.19257287	0.00281042	0.917583544
ADD2	2.527849583	2.63356531	0.059106617	0.088008438
ADD3	8.257158795	8.186131218	-0.012463658	0.228937678
ADFP	5.731299768	5.519609366	-0.054296188	0.27664248
ADH1A	4.672387775	4.358230739	-0.100417433	0.091797257
ADH1C	5.60101045	5.225459556	-0.100129199	0.138577942
ADH4	2.535303987	2.444470697	-0.052636628	0.972484432
ADH5	6.366223417	6.371937451	0.001294317	0.931282571
ADH5P4	5.887606417	5.918081232	0.007448268	0.583396203
ADH6	1.922157695	1.880240373	-0.03180959	0.175240811
ADH7	1.886467815	1.878067718	-0.006438402	0.704890011
ADHFE1	5.500651099	5.419322359	-0.021489931	0.415237019
ADI1	6.503306536	6.462958465	-0.008978708	0.385109201
ADIG	1.907673636	1.890232683	-0.013250539	0.351343281
ADIPOQ	2.090944715	2.046658599	-0.03088445	0.138394142
ADIPOR1	7.520985358	7.559045225	0.007282333	0.706940427



ADIPOR2	6.911493219	6.910518331	-0.000203511	0.946649031
ADK	5.32978394	5.427417662	0.026188884	0.064487076
ADM	10.59779517	10.71590119	0.015989034	0.815629357
ADM2	1.932649748	1.955614852	0.017042064	0.804934346
ADNP	7.457122728	7.454013211	-0.000601709	0.953790498
ADNP2	4.743493967	4.634918824	-0.033406041	0.31817627
ADO	3.933681695	3.929608317	-0.001494703	0.777829603
FAM38B	4.346822801	3.826818803	-0.183815693	0.002526399
ADORA2A	4.999536364	4.918659063	-0.023529253	0.298844907
ADORA2B	6.336710384	6.488920472	0.034244405	0.30661191
ADORA3	3.012223609	2.996003085	-0.007789762	0.943354366
ADPGK	4.693721013	4.718890077	0.007715472	0.618920045
ADPRH	2.776930808	2.681519268	-0.050440611	0.082501381
ADPRHL1	3.972851675	4.035953845	0.022734744	0.327630962
ADPRHL2	5.67233355	5.730503261	0.014719474	0.256458093
ADRA1A	2.029326755	1.963341394	-0.047690125	0.284949197
ADRA1B	4.809520079	5.019413556	0.061625876	0.039806373
ADRA1D	4.20732947	4.190925092	-0.005636063	0.97908641
ADRA2A	5.464602616	5.289066859	-0.047103375	0.409729198
ADRA2B	2.527018179	2.577305732	0.028427644	0.476511296

ADRA2C	7.565838748	7.73475731	0.031855997	0.11719658
LY6K	3.498236278	3.084528014	-0.181577986	2.01E-05
ADRB2	5.556535762	5.349802268	-0.054700141	0.044044087
ADRB3	2.309688172	2.283718979	-0.016312957	0.658848311
ADRBK1	3.930341834	3.766171683	-0.061556026	0.009172352
ADRBK2	3.631161298	3.537671141	-0.037631074	0.086985589
ADRM1	6.400876238	6.418948239	0.004067513	0.744198101
ADSL	4.95301953	5.068201655	0.033165618	0.100336776
ADSS	5.323266682	5.269940859	-0.014525072	0.391940328
ADSSL1	7.51238496	7.768331021	0.048333684	0.003966505
AEBP1	9.011475285	8.765316789	-0.039957079	0.363595478
AEBP2	6.691099033	6.687120359	-0.000858113	0.62574513
AEN	3.266340351	3.24168	-0.010933443	0.645918268
AES	9.882879788	9.92508562	0.006148056	0.713103242
AFAP1	3.369486722	3.170081944	-0.088008707	0.012394644
AFAP1L1	5.234406914	5.075443986	-0.044492051	0.095304305
AFAP1L2	4.60533604	4.463365317	-0.045174537	0.110727336
AFARP1	4.695752536	4.791739944	0.029193231	0.120953513
AFF1	4.64377794	4.585317577	-0.018277328	0.097376097
AFF2	2.684031887	2.77363512	0.047376198	0.320523018

AFF3	3.03702498	2.968138866	-0.033100184	0.220769947
AFF4	4.30603404	4.362938507	0.018940416	0.202608936
AFG3L1	7.166544364	7.158604979	-0.001599161	0.995596659
AFG3L2	5.118498649	5.33494193	0.059751865	0.006918086
AFM	1.846636775	1.818942127	-0.021800481	0.336224867
AFMID	2.571986854	2.4494465	-0.070427488	0.02642311
AFP	1.935735483	1.896282134	-0.029708195	0.702330283
AFTPH	8.030762795	8.023011528	-0.001393157	0.767271205
AGA	5.023342503	5.104463028	0.023111558	0.548853258
AGAP1	7.975888272	8.12387112	0.026522152	0.79267912
AGAP10	3.456905728	3.336646204	-0.05108254	0.123118697
AGAP2	5.288136212	5.477893049	0.050861761	0.24704041
AGAP3	9.235824464	9.207400535	-0.004446846	0.803332127
AGAP7	3.896950543	3.812360831	-0.031660949	0.03247326
AGAP8	4.946535675	4.871406134	-0.022080215	0.22416973
AGBL1	2.247908861	2.292051366	0.028055832	0.433234323
AGBL2	2.344678046	2.31014981	-0.021403425	0.54243326
AGBL3	3.161390325	3.130024261	-0.014385331	0.347435407
AGBL4	2.172370901	2.170060303	-0.00153531	0.917036581
AGBL5	5.730671861	5.784259697	0.013428037	0.438108514

AGER	5.109175026	4.993132634	-0.03314513	0.036533922
AGFG1	7.913085629	7.921505359	0.001534249	0.689072861
AGFG2	3.86006643	3.912510268	0.019468862	0.138945821
AGGF1	5.722460477	5.736547542	0.003547139	0.879370594
AGK	3.061388616	3.121459049	0.028034345	0.295329391
AGL	6.598262735	6.811367521	0.045858252	0.034836855
AGMAT	2.49159396	2.497430979	0.003375827	0.876650835
AGPAT1	8.78882053	8.805106359	0.002670864	0.924156281
AGPAT2	4.260341185	4.156039092	-0.035759748	0.358519495
AGPAT3	7.979407	8.05863681	0.01425428	0.446301674
AGPAT4	4.77396057	4.745298965	-0.008687667	0.549773377
AGPAT5	5.302191437	5.551436275	0.066272316	0.000132868
AGPAT6	5.796417781	5.766634042	-0.007432112	0.750469173
AGPAT9	4.057601285	4.064079585	0.002301546	0.562269516
AGPS	4.687824417	4.682741979	-0.001564987	0.820990804
AGR2	2.080315338	1.997167577	-0.05884684	0.117519775
AGR3	1.951140311	1.882877803	-0.051378156	0.535596888
AGRN	4.538720993	4.527068901	-0.003708541	0.50076082
SNAI2	4.185928987	3.700600641	-0.177788385	0.007780726
AGT	9.70229047	9.857020993	0.022826326	0.115591011

AGTPBP1	5.183211252	5.290469155	0.02954947	0.525648922
AGTR1	2.201975748	2.229089958	0.01765626	0.483373414
AGTR2	1.84748553	1.880815979	0.025795636	0.720835465
AGTRAP	3.114634536	3.081757782	-0.015309417	0.519368004
AGXT	1.960439689	1.993530359	0.024148317	0.365421586
AGXT2	1.958956358	1.929454838	-0.021891981	0.112903876
AGXT2L1	3.105412921	3.399100303	0.130367821	0.036782029
AGXT2L2	5.64041551	5.609634585	-0.007894649	0.730669598
AHCTF1	5.890911868	5.907866148	0.004146171	0.425981296
AHCY	9.183832444	9.176960394	-0.001079939	0.988441544
AHCYL1	9.061442232	9.097988972	0.005806996	0.415235461
AHCYL2	8.010882894	8.069812789	0.010573951	0.450431294
AHDC1	5.645163285	5.693929049	0.012409205	0.471824546
AHI1	6.207722285	6.309358373	0.023429282	0.255303252
AHNAK	7.326713391	7.135410739	-0.038169702	0.383600693
AHNAK2	5.033491285	5.271913958	0.066767408	0.256747313
AHR	7.273500166	7.238306739	-0.006997541	0.428391213
AHRR	2.555267424	2.379076944	-0.103072354	0.151712765
AHSA1	8.136380735	7.961747317	-0.031302105	0.339353855
AHSA2	8.278970358	8.14539919	-0.023465949	0.187171375

AHSG	2.182439762	2.129416162	-0.035483904	0.106473419
AICDA	1.943699517	1.866190866	-0.058708658	0.073761357
AIDA	2.873053894	2.839358838	-0.017019868	0.384731721
AIF1	8.807685457	8.599481965	-0.034513194	0.170673189
AIF1L	8.840474205	8.660912648	-0.029604701	0.148779365
AIFM1	9.048792219	9.147630261	0.015672812	0.17545956
AIFM2	6.478284258	6.460184549	-0.004036394	1
AIFM3	5.684230298	5.931180331	0.061354229	0.014081589
AIG1	7.878912457	7.940921669	0.011309959	0.196087423
AIM1	3.929093821	3.878494261	-0.018699951	0.751516103
AIM1L	2.133147325	2.186760549	0.035811646	0.177891166
AIM2	3.457932086	3.442249514	-0.006557859	0.499445317
AIP	8.834850901	8.789297303	-0.00745796	0.31850927
AIPL1	8.916466066	9.079126394	0.026081458	0.62037914
AIRE	2.394973444	2.477421085	0.048829444	0.049850641
AJAP1	4.191848801	4.121486148	-0.024422034	0.435261449
AK1	7.943072603	8.058364035	0.02078979	0.016211165
AK2	8.331883	8.262723894	-0.012025121	0.063005816
AK2P2	3.952630185	3.892602106	-0.022078098	0.713104583
AK3	4.718686477	4.689148106	-0.009059471	0.939511797

AK3L1	8.103738669	8.415078408	0.054389064	0.005901732
AK5	4.238116662	4.280268732	0.014278076	0.544721985
AK7	2.358335861	2.416872845	0.03537238	0.354561102
AKAP1	9.137263159	9.20010031	0.009887485	0.643937345
AKAP10	4.816232159	4.837254162	0.006283406	0.708479677
AKAP11	7.866775318	7.94153688	0.013645851	0.539237407
AKAP12	8.436552033	8.511750394	0.012802346	0.346727186
AKAP13	7.155797947	7.04539107	-0.022432863	0.162015099
AKAP14	2.21256153	2.290929028	0.050215189	0.498569319
AKAP2	2.780330119	2.621568944	-0.084825703	0.047024826
AKAP3	2.04477345	2.032668359	-0.008566158	0.859279513
AKAP4	1.891218603	1.870842711	-0.015627861	0.876650908
AKAP5	1.884503457	1.929493507	0.034037748	0.211548921
AKAP6	3.732417477	3.870982225	0.05258932	0.100051945
AKAP7	6.05253147	6.179543585	0.02996161	0.07567294
AKAP8	6.75093155	6.719317859	-0.006771812	0.471399866
AKAP8L	7.903754066	7.876590542	-0.004966776	0.769907133
AKAP9	8.216184715	8.317531486	0.017686806	0.529255153
AKIRIN1	4.87678751	4.85108243	-0.007624419	0.555309867
AKIRIN2	7.595803152	7.532354993	-0.012101524	0.105430484

AKNA	3.337128199	3.387068887	0.021430219	0.413264956
AKR1A1	7.836480046	7.836335789	-2.66E-05	0.37351574
AKR1B1	8.250727861	8.234123366	-0.002906333	0.853864319
AKR1B10	3.954187603	3.694414697	-0.098035502	0.201877082
AKR1C1	5.631210656	5.615149042	-0.004120805	0.956538297
AKR1C3	7.30436757	7.521420718	0.042245831	0.028554329
AKR1C4	1.929092205	1.894296873	-0.026259655	0.209037457
AKR1CL2	2.513869272	2.44866057	-0.037916824	0.306611506
AKR1D1	1.850359801	1.862759176	0.009635341	0.979636651
AKR7A2	9.906597901	9.919018514	0.001807677	0.71155997
AKR7A3	7.321737073	7.361253521	0.007765492	0.476938343
AKR7L	9.090889947	9.116639282	0.00408056	0.596723908
AKT1	3.254051748	3.285658937	0.013945537	0.71207586
AKT1S1	3.266272682	3.231602599	-0.015395442	0.619406298
AKT2	8.773597007	8.830378141	0.009306778	0.587664969
AKT3	5.856665126	5.914245035	0.014114612	0.392322154
AKTIP	3.993138689	4.176534408	0.064783144	0.09421401
AL022344.6	1.883842298	1.881674401	-0.001661187	0.909923208
ALAD	4.99745155	5.077687725	0.022979093	0.029314049
ALAS1	6.045214185	6.113046373	0.016098055	0.11623157



ALAS2	5.81524453	5.46015307	-0.090898462	0.078675014
ALB	2.631956801	2.700305183	0.036986657	0.925252513
ALCAM	3.816844689	3.769852683	-0.017872336	0.540606268
ALDH16A1	6.440808192	6.422291028	-0.004153686	0.658848311
ALDH18A1	6.182775702	6.106787535	-0.017841016	0.247603954
ALDH1A1	6.221730265	5.843423761	-0.090501934	0.145698793
SLC01B3	2.870438364	2.541134585	-0.175798292	0.004281135
ALDH1A3	4.737481715	4.771087155	0.010197666	0.992294236
ALDH1B1	3.464868	3.421701577	-0.01808645	0.354560815
ALDH1L1	5.152130444	5.33314388	0.04981713	0.083481615
L1TD1	3.068934404	2.721867218	-0.173141121	0.00733048
ALDH2	9.978350172	10.07827243	0.014375156	0.018756664
ALDH3A1	2.002425755	1.924100676	-0.057564464	0.090476153
ALDH3A2	5.728911662	5.964385641	0.058112449	0.001984132
ALDH3B1	3.224290841	3.201536254	-0.010217538	0.773601382
ALDH3B2	2.007295642	2.060527479	0.037760585	0.221551352
ALDH4A1	7.453833285	7.592948775	0.026677724	0.166407869
ALDH5A1	4.267850702	4.364201296	0.032207938	0.209538144
ALDH6A1	7.263712272	7.330645944	0.013233272	0.284328253
ALDH7A1	7.198724576	7.316912634	0.023493711	0.064786404

ALDH8A1	2.277443735	2.319605366	0.026463969	0.142291572
ALDH9A1	6.863340921	7.051807042	0.03908198	0.010867649
ALDOA	11.52888956	11.67195744	0.017792967	0.015578311
ALDOAP2	8.507353815	8.736892134	0.038409723	0.01293585
ALDOB	2.113178689	2.027793718	-0.059503867	0.005926659
ALDOC	10.43238872	10.59772734	0.022685383	0.391557259
ALG1	5.626845318	5.757829718	0.033198819	0.000796364
ALG10	3.706536212	3.754849845	0.01868361	0.403099986
ALG10B	5.211972464	5.342306775	0.035633361	0.21003959
ALG11	3.644545921	3.594715627	-0.019861433	0.379098439
ALG12	3.829481252	3.79902631	-0.011519272	0.377604943
ALG13	5.186495099	5.052520761	-0.037756587	0.142479386
ALG14	5.880452987	5.986266176	0.025729135	0.14455618
ALG2	5.477491212	5.389078528	-0.023476655	0.16683083
ALG3	6.490850848	6.445875549	-0.010031271	0.228671421
ALG5	8.499927073	8.581018782	0.013698479	0.350273784
ALG6	5.157504894	5.170918592	0.003747307	0.820454357
ALG8	8.426929166	8.380581437	-0.007956658	0.62037964
ALG9	5.559523517	5.56175043	0.000577768	0.481222489
ALK	3.111687272	3.183171634	0.032767873	0.412084107

ALKBH1	3.598130536	3.623182359	0.010009893	0.95488958
ALKBH2	6.549716709	6.579861134	0.006624629	0.490722533
ALKBH3	4.570618099	4.676096099	0.0329153	0.036348802
ALKBH4	5.452595371	5.45393881	0.000355415	0.949395248
ALKBH5	5.724593742	5.801902197	0.019352663	0.380970554
ALKBH6	3.947239861	3.980043958	0.011940175	0.949395302
ALKBH7	9.700881887	9.705329042	0.00066122	0.997247893
ALKBH8	3.679973444	3.725842824	0.01787146	0.165774739
ALLC	2.383647974	2.256531401	-0.079064334	0.186710379
ALMS1	6.531655265	6.51880669	-0.002840755	0.827434853
ALMS1P	4.01984055	4.054204592	0.012280618	0.8598214
ALOX12	2.150659576	2.060843782	-0.061544033	0.028205777
ALOX12B	2.341100576	2.38270193	0.02541157	0.448364028
ALOX12P2	2.745268636	2.782697077	0.019536537	0.391940667
ALOX15	2.002963709	1.990989606	-0.008650592	0.644433229
ALOX15B	3.628875596	3.738356373	0.042881506	0.077509137
ALOX5	7.071955795	7.041964056	-0.006131393	0.866871635
ALOX5AP	6.736776185	6.656386148	-0.017319241	0.521606965
ALOXE3	2.131967232	2.229755718	0.0647004	0.078090056
ALPI	2.154554689	2.160137739	0.003733589	0.953241062

ALPK1	8.919411589	8.85131243	-0.011057152	0.253290534
ALPK2	2.796345464	2.986098373	0.09471909	0.14135616
ALPK3	2.298351457	2.235785648	-0.039817549	0.45208929
ALPL	4.099145225	3.896801521	-0.073032651	0.033321641
ALPP	3.264707338	3.26693319	0.000983283	0.853323312
ALPLL2	10.28106852	10.36658228	0.011950123	0.859820738
ALS2	3.323125325	3.372185338	0.021143128	0.458336531
ALS2CL	3.95040704	3.751099141	-0.074687919	0.069737079
ALS2CR11	2.355316636	2.320379035	-0.021560531	0.279699578
ALS2CR12	1.986022311	1.90753893	-0.05816933	0.155490968
ALS2CR4	7.241442139	7.289419486	0.009526886	0.842515607
ALS2CR8	2.771993351	2.755994359	-0.008350862	0.647404681
ALX1	2.600026113	2.463330014	-0.077916193	0.17878125
ALX3	3.073000099	2.891857866	-0.087651167	0.054442124
ALX4	2.157343424	2.129513613	-0.018731903	0.977435774
AMAC1	1.79897604	1.821912359	0.01827759	0.351343052
AMAC1L2	3.049813596	3.132038824	0.038381028	0.224432674
KCNE1	4.38188647	3.90077669	-0.167790696	0.000585572
AMBN	2.130008053	2.193875965	0.042623077	0.0258202
AMBP	2.16434402	2.170186514	0.003889207	0.620379765

AMBRA1	8.201840166	8.286199824	0.014762982	0.012178795
AMD1	8.990179119	9.173029662	0.029048445	0.005411102
AMDHD1	2.674901258	2.59533143	-0.043566851	0.355278891
AMDHD2	3.263337629	3.311288669	0.021044528	0.303683659
AMELX	1.974094464	1.893835873	-0.05987972	0.041568364
AMELY	1.893712225	1.965042796	0.053343622	0.186710747
AMFR	7.247739623	7.343020585	0.018842517	0.013550114
AMH	2.870075722	2.910219092	0.020038968	0.299808529
AMHR2	2.045155974	2.046681472	0.001075717	0.912658314
AMICA1	6.026315563	5.872593056	-0.037278551	0.688565379
AMIGO1	4.279918391	4.537083514	0.084181928	0.042685058
AMIGO2	6.239971179	6.424505239	0.042045989	0.244235217
AMIGO3	3.247444954	3.2180175	-0.0131329	0.580558119
AMMECR1	3.696829934	3.781370937	0.032620702	0.351343281
AMMECR1L	5.94301347	5.806204458	-0.033599275	0.017216435
AMN	4.334271781	4.346701063	0.004131259	0.863616297
AMN1	3.289513338	3.375356218	0.037165603	0.250720899
AMOT	2.878566755	2.811587486	-0.03396573	0.362504819
AMOTL1	3.518772695	3.414823099	-0.043261479	0.196804684
AMOTL2	9.34517753	9.196149718	-0.023192117	0.177003971

AMPD1	2.082472629	2.043858613	-0.027002135	0.235680737
AMPD2	7.030233801	7.131607866	0.020654709	0.162429725
AMPD3	5.441564007	5.564835387	0.032317644	0.142855059
AMPH	4.547144073	4.753135768	0.063918896	0.656852152
AMT	6.873092795	6.833717908	-0.008288742	0.511349749
AMY1C	6.24058247	6.246469239	0.001360259	0.756756802
AMY2B	2.361155179	2.212994796	-0.093492802	0.020985955
AMZ1	2.195395464	2.28285288	0.056357047	0.135480456
AMZ2	9.107674152	9.192915246	0.013439763	0.197042648
ANAPC1	6.338281517	6.284210141	-0.012360314	0.265825176
ANAPC10	6.045261483	6.033090239	-0.002907582	0.887538732
ANAPC11	12.4699561	12.49337425	0.002706791	0.263732594
ANAPC13	7.161818755	7.220468148	0.01176637	0.146081004
ANAPC2	3.062784589	3.048035775	-0.006964068	0.981287417
ANAPC4	8.339055748	8.270593303	-0.011893206	0.119799993
ANAPC5	9.308023596	9.302761106	-0.000815889	0.71670725
ANAPC7	2.976815629	2.956427092	-0.009915171	0.759906456
ANG	7.628526709	7.591896746	-0.006944086	0.432829543
ANGEL1	4.094231444	4.12515957	0.010857268	0.522055203
ANGEL2	6.675717742	6.734809373	0.012714154	0.301096058

ANGPT1	5.651882298	5.044467239	-0.164029511	0.02232562
ANGPT2	3.49149806	3.638206465	0.059381246	0.174582965
ANGPT4	2.160829887	2.281430451	0.078353174	0.011439153
ANGPTL1	3.769588	3.880843937	0.041963566	0.565998387
ANGPTL2	5.267174642	5.036305056	-0.064663624	0.023867375
ANGPTL3	1.781029106	1.795495789	0.011671176	0.61309531
GAL	5.247106106	4.674764514	-0.166628271	0.012961019
ANGPTL5	2.004418364	1.942914873	-0.044960969	0.386999655
ANGPTL6	2.741986192	2.763036958	0.011033553	0.937316692
ANGPTL7	3.617557881	3.537738859	-0.032188542	0.583396472
ANK1	5.174179874	5.315262514	0.038810738	0.601039712
ANK2	3.701797013	3.880793141	0.068125747	0.183735866
ANK3	8.632789377	8.66353531	0.005129072	0.897356055
ANKAR	3.864818119	3.785992204	-0.029729081	0.176562256
ANKDD1A	3.725167298	3.820068683	0.036293359	0.058090108
ANKFN1	1.92306151	1.889279458	-0.025568791	0.370928512
ANKFY1	4.757599795	4.687695028	-0.021355205	0.093537595
ANKH	5.821917576	6.10792912	0.069188906	0.003754797
ANKHD1	7.190936099	7.179557803	-0.0022846	0.374998843
ANKHD1-EIF4EBP3	6.891021391	6.879317169	-0.002452464	0.90445628

ANKIB1	5.542173709	5.466566035	-0.019817079	0.045812347
ANKK1	12.23279247	12.13638296	-0.011415261	0.300117917
ANKLE1	2.132216278	2.104250979	-0.019046995	0.876107107
ANKLE2	3.754058073	3.72897143	-0.009673224	0.712075762
ANKMY1	2.652848146	2.646730662	-0.003330705	0.688565379
ANKMY2	3.728685106	3.83790988	0.041653871	0.160982576
ANKRA2	6.639231179	6.607577408	-0.006894766	0.479506499
ANKRD1	1.979707232	1.901045831	-0.05849378	0.063496982
ANKRD10	6.419409543	6.315597218	-0.023521439	0.062519168
ANKRD11	8.544738318	8.468924021	-0.012857624	0.040542333
ANKRD12	6.905912669	6.962694007	0.011813532	0.804400435
ANKRD13A	5.672568033	5.664552444	-0.002040034	0.817773307
ANKRD13B	3.076879636	3.124230937	0.02203309	0.459591935
ANKRD13C	5.559007404	5.598472965	0.010206069	0.382471986
ANKRD13D	4.725256033	4.672520577	-0.016191485	0.112434683
ANKRD16	5.17187051	5.356325331	0.050557435	9.77E-05
ANKRD17	8.657755808	8.652867887	-0.000814734	0.912658106
ANKRD18A	4.00472255	4.232031007	0.079647903	0.113689493
ANKRD19	2.100054192	2.046062028	-0.037576675	0.323218948
ANKRD2	4.167125523	4.160994972	-0.002124013	0.36069002



<b>ANKRD20A2</b>	3.977330424	3.929644732	-0.017401533	0.585766456
<b>ANKRD22</b>	2.472391821	2.625870887	0.086888584	0.173926965
<b>ANKRD23</b>	4.57099398	4.649612155	0.024602461	0.458336478
<b>ANKRD24</b>	2.737029397	2.760023655	0.012069702	0.551155099
<b>ANKRD26</b>	3.815316007	3.842821873	0.01036355	0.819381612
<b>ANKRD26L1</b>	2.922911947	2.822322521	-0.050523507	0.316840453
<b>ANKRD27</b>	5.311257954	5.303369775	-0.002144256	0.838739786
<b>ANKRD28</b>	6.008547152	6.003647303	-0.001176969	0.870129094
<b>ANKRD29</b>	3.516236404	3.462932824	-0.022037668	0.704890347
<b>ANKRD30A</b>	1.844409781	1.826730817	-0.013895165	0.873932448
<b>ANKRD31</b>	1.935497775	1.922646408	-0.009611186	0.726523449
<b>ANKRD32</b>	4.035922424	4.013818211	-0.007923167	0.706427765
<b>ANKRD33</b>	5.854842642	6.01752038	0.039538726	0.346374571
<b>ANKRD33B</b>	3.366476735	3.396963789	0.013006345	0.732226358
<b>ANKRD34A</b>	3.015212914	3.095505859	0.037915311	0.606331064
<b>ANKRD34B</b>	1.933503132	1.87118038	-0.047268462	0.428390828
<b>ANKRD35</b>	9.289125669	9.318723599	0.004589549	0.394616202
<b>ANKRD36B</b>	6.309607318	6.318059176	0.001931229	0.805468302
<b>ANKRD37</b>	8.681675874	8.832462077	0.024842089	0.46210792
<b>ANKRD39</b>	5.660502119	5.726476176	0.016717606	0.205064473

ANKRD40	2.772736199	2.835364021	0.032223606	0.247322239
ANKRD42	4.047359974	4.053464359	0.002174289	0.830661319
ANKRD43	5.95454055	6.236642331	0.066779329	0.000191467
ANKRD44	2.69571206	2.643437923	-0.028250957	0.421186361
ANKRD45	2.462430311	2.540794986	0.045197075	0.164305052
ANKRD46	6.513762834	6.62026788	0.023398403	0.27725152
ANKRD49	5.564897258	5.538017585	-0.006985417	0.765691639
ANKRD5	2.398343126	2.448693944	0.029974389	0.34920819
ANKRD50	2.758907583	2.743816394	-0.007913185	0.610675562
ANKRD52	2.098109404	2.033655838	-0.04501436	0.957637545
ANKRD53	2.973646238	2.949567056	-0.011729818	0.472249648
ANKRD54	6.022886212	6.036155937	0.003175074	0.704377985
ANKRD55	2.27375794	2.236787507	-0.023650468	0.712075795
ANKRD57	4.709986305	4.862461437	0.045963943	0.168957812
ANKRD58	5.083441675	5.141612324	0.016415251	0.76621826
ANKRD6	4.275059232	4.335873549	0.020378274	0.270596259
ANKRD60	1.949637576	1.929106352	-0.01527328	0.347789401
ANKRD62	1.935920073	1.829609197	-0.081483867	0.050905527
ANKRD7	2.149591172	2.260455894	0.072551467	0.007375948
ANKRD9	7.404322099	7.450638289	0.008996369	0.508249196

<b>ANKS1A</b>	8.431352139	8.424458803	-0.001180006	0.59720418
<b>ANKS1B</b>	2.373358768	2.416439852	0.025952883	0.333114911
<b>ANKS3</b>	7.621963603	7.558924162	-0.011981804	0.338657177
<b>ANKS4B</b>	1.843625166	1.845611479	0.001553516	0.85819587
<b>ANKS6</b>	5.923625397	5.889461021	-0.008344799	0.626722897
<b>ANKZF1</b>	5.91316345	5.918853296	0.001387542	0.931831006
<b>ANLN</b>	2.21479906	2.140349373	-0.049329505	0.225487155
<b>AN01</b>	3.320859146	3.062144232	-0.117014294	0.020719011
<b>AN010</b>	4.052940437	4.010544331	-0.015170914	0.688565309
<b>AN02</b>	9.578205901	9.658629697	0.012063074	0.931830836
<b>ENPEP</b>	2.499944013	2.22953069	-0.165155727	0.016058833
<b>AN04</b>	2.427665325	2.499046387	0.041808134	0.340751062
<b>AN05</b>	4.579756305	4.655114232	0.023545738	0.317841941
<b>AN06</b>	6.040618728	5.806245338	-0.057090796	0.107223535
<b>AN07</b>	2.910354053	2.985786289	0.036916235	0.301741924
<b>AN08</b>	3.177999093	3.143055345	-0.015951036	0.721352192
<b>AN09</b>	2.335094967	2.261227092	-0.046375338	0.245074466
<b>ANP32A</b>	6.000735026	6.0792085	0.018744274	0.511349951
<b>ANP32B</b>	6.818204212	6.808947838	-0.001959929	0.873932403
<b>ANP32C</b>	2.294677152	2.400252782	0.064895162	0.04603781

ANP32D	3.366170477	3.542538134	0.073675141	0.095167611
ANP32E	6.735072132	6.877856141	0.030265543	0.095715965
ANPEP	3.029967841	2.837000261	-0.094936198	0.059195484
ANTXR1	5.891723132	5.725177817	-0.041369134	0.382848279
ANTXR2	6.084578927	5.85215112	-0.056190403	0.198485009
ANUBL1	3.298287517	3.253540669	-0.019706579	0.269099335
ANXA1	8.240085126	8.053767662	-0.032995388	0.150730095
ANXA10	1.91992602	1.899863183	-0.015155193	0.779946217
ANXA11	7.013603265	6.87718388	-0.028337904	0.286505741
ANXA13	2.237590278	2.247659528	0.006477624	0.915394443
ANXA2	9.918850556	9.705698352	-0.031340921	0.057181272
ANXA2P1	7.055800159	6.806583211	-0.051878928	0.037788856
ANXA2P3	2.404409636	2.321547507	-0.050595903	0.120293868
ANXA3	4.27847849	3.977801669	-0.105126492	0.051646816
ANXA4	8.261288921	8.174065359	-0.015313108	0.089560224
ANXA5	10.48976946	10.34938625	-0.019437756	0.069947837
ANXA6	7.161783113	7.228023761	0.01328242	0.540606268
ANXA7	6.590005099	6.607320775	0.003785805	0.812952767
ANXA8L2	2.215352609	2.220984718	0.003663121	0.236226252
ANXA9	2.113293669	2.124103401	0.007360736	0.528352663

AOAH	3.121884464	2.973726528	-0.070145167	0.101627689
AOC2	2.356996497	2.411423493	0.032935424	0.333114622
AOC3	5.902239563	5.699540592	-0.050416842	0.409729142
AOF1	2.401908636	2.429298908	0.01635874	0.599120534
AOF2	3.660201464	3.710361958	0.019636874	0.434855356
AOX1	4.982925377	4.545988085	-0.132399066	0.068576044
AP1B1	4.760548742	4.881256683	0.036124738	0.271497378
AP1G1	6.575863291	6.644784831	0.015042177	0.342852412
AP1G2	4.907165013	4.905792254	-0.000403645	0.943354366
AP1GBP1	3.350682033	3.349212486	-0.000632878	0.753086996
AP1M1	6.786857364	6.853248049	0.014044212	0.113060501
AP1M2	2.031463974	2.007276246	-0.017280602	0.616490072
AP1S1	3.411696305	3.459241923	0.019966683	0.363597138
AP1S2	7.682422225	7.701466768	0.003571981	0.860363238
AP1S3	2.386939411	2.391662852	0.002852084	0.686027409
AP2A1	3.716174629	3.729796324	0.005278552	0.542890718
AP2A2	8.184559742	8.136267592	-0.008537686	0.245353483
AP2B1	6.956761477	7.033040141	0.015732595	0.166196388
AP2M1	8.273771523	8.318630634	0.007800941	0.443013768
AP2S1	7.55746857	7.53885231	-0.003558165	0.311533342

AP3B1	6.774680914	6.700206831	-0.015947366	0.5198153
AP3B2	5.78431049	5.989926134	0.050393217	0.337961362
AP3D1	11.20186146	11.26824468	0.008524304	0.200412506
AP3M1	4.052439066	4.097862148	0.01608096	0.405042676
AP3M2	6.539862921	6.654234345	0.025012279	0.611643064
AP3S1	9.037129	8.911426359	-0.020208149	0.047177525
AP3S2	7.26939394	7.30958	0.007953423	0.387377756
AP4B1	5.747764689	5.641726894	-0.02686417	0.132791905
AP4E1	5.559749907	5.538256641	-0.005588079	0.280005812
AP4M1	4.794349709	4.837890683	0.013043025	0.484234824
AP4S1	3.210504258	3.225331113	0.006647363	0.580558073
APAF1	2.487446887	2.453661761	-0.019729335	0.451674684
APBA1	2.724907033	2.825628197	0.052364635	0.199691647
APBA2	4.209743086	4.313559042	0.035146513	0.285882389
APBA3	2.620413656	2.599648732	-0.011477874	0.757806193
APBB1	6.402294656	6.461305246	0.013236557	0.539693517
APBB1IP	5.118740881	4.977260739	-0.04043701	0.432424708
APBB2	5.312338219	5.193487134	-0.032643449	0.02540988
APBB3	7.581191702	7.512233218	-0.013182794	0.181922087
APC	2.894652543	3.022414606	0.062311393	0.031643752

APC2	7.543598947	7.876173986	0.062242003	0.096128849
APCDD1	6.07319198	6.023442437	-0.011866743	0.702842074
APCDD1L	2.637130053	2.621967979	-0.008318654	0.781534705
APCS	2.095684033	2.04530062	-0.035108311	0.265233181
APEH	7.965544974	8.067817528	0.018405385	0.191590506
APEX1	6.525060662	6.616582148	0.020094859	0.21205346
APEX2	5.70385349	5.64105507	-0.015971904	0.260819998
APH1A	4.855637212	4.901950014	0.013695138	0.385486795
APH1B	5.525342119	5.550854197	0.006646002	0.734303895
API5	4.122186119	4.142179007	0.006980257	0.754134923
APIP	4.206045675	4.112612451	-0.03240939	0.061076408
APITD1	4.672546033	4.819506268	0.04467648	0.101916292
APLF	2.205882735	2.193023711	-0.008434688	0.779416865
FOXF2	6.912955861	6.174981472	-0.162867906	0.001099759
APLNR	2.077889351	2.100384204	0.015534419	0.846835281
APLP1	4.493714503	4.668537268	0.05506213	0.122449517
APLP2	10.45268134	10.54972845	0.013332792	0.206545282
APOA1	2.15263402	2.119346394	-0.022483654	0.148004502
APOA1BP	8.154281139	8.223019542	0.012110559	0.12685085
APOA2	1.933466026	1.853333169	-0.06106716	0.18487551

APOA4	2.102350225	2.107470676	0.003509533	0.690598326
APOA5	2.059015252	1.963893831	-0.068237577	0.020794962
APOB	1.958290689	1.939541127	-0.013879567	0.425180248
APOB48R	3.638581477	3.534719352	-0.041780443	0.408945712
APOBEC1	1.83771151	1.871382239	0.026193961	0.380970497
APOBEC2	4.024673119	4.126635113	0.036094264	0.717739794
APOBEC3A	2.951668695	2.740364423	-0.107163038	0.15750827
APOBEC3B	2.720156967	2.665222585	-0.029433881	0.479935589
APOBEC3C	3.572861166	3.431493007	-0.05824344	0.073096247
APOBEC3D	2.420710921	2.364317986	-0.034006722	0.30045192
APOBEC3F	3.161900384	3.088673359	-0.033804609	0.161395157
APOBEC3G	3.443024377	3.34781869	-0.040454999	0.194422379
APOBEC3H	2.134168861	2.095773113	-0.026191791	0.592903088
APOC1	6.865023788	7.266988711	0.082092946	3.08E-05
APOC2	2.521879272	2.514535275	-0.00420742	0.661346815
APOC3	1.923972364	1.849939387	-0.056610074	0.241451794
APOC4	2.14247604	2.220027401	0.051298413	0.151319055
APOD	4.169731185	4.163150655	-0.002278612	0.918131573
APOE	11.70180879	11.94249708	0.029372975	0.008527674
APOF	1.959275364	1.950879324	-0.006195634	0.745764313



APOH	1.865303344	1.849250577	-0.012469541	0.953241045
APOL1	6.24655294	6.100473993	-0.03413894	0.404264828
APOL2	7.963036377	7.980776556	0.003210484	0.765165044
APOL3	6.219750073	5.997806401	-0.052421655	0.486392402
APOL4	2.613987682	2.541997113	-0.040289951	0.269099392
APOL5	2.159538907	2.114097169	-0.030681621	0.418800545
APOL6	3.851512702	3.705228923	-0.055862503	0.216636634
APOLD1	7.673472007	7.758437563	0.015886644	0.534688442
APOM	4.444466682	4.706715951	0.082710477	0.000485612
APOO	9.231320225	9.408457401	0.027421209	0.046037135
APOOL	4.527842901	4.431837507	-0.030918917	0.261698592
APP	7.19774153	7.259902458	0.012405869	0.170889131
APPBP2	6.326499232	6.412057035	0.019379853	0.353128675
APPL1	7.59341894	7.642905951	0.009371671	0.557624929
APPL2	4.416444695	4.428209528	0.003838042	0.815630004
APRT	9.365863212	9.381437162	0.002396981	0.932379256
APTIX	5.819135967	5.78475593	-0.008548865	0.462528416
AQP1	8.406632795	8.276036662	-0.022588021	0.908282662
AQP10	2.90040957	2.979766676	0.038942729	0.252146827
RSP03	5.857926245	5.244540141	-0.159573751	0.012638138

AQP12A	1.997552887	1.885769873	-0.083080071	0.017281032
AQP2	4.073883046	4.096396563	0.007950823	0.451674306
AQP3	2.788255007	2.933807092	0.073411499	0.008238781
AQP4	3.479653219	3.894880289	0.162635452	0.029674681
AQP5	4.637391325	4.932021887	0.088865729	0.016960144
AQP6	2.188658464	2.221678197	0.02160302	0.554385725
AQP7	3.359373132	3.265412704	-0.040926707	0.388515848
AQP7P2	2.79586357	2.711016599	-0.044460017	0.268502103
AQP8	2.262836815	2.288648894	0.016363606	0.663848945
AQP9	4.489164523	4.356832289	-0.043167391	0.594813235
AQR	6.010004543	6.027679648	0.004236663	0.752563232
KLF8	4.011671238	3.591895887	-0.159457847	0.001443917
ARAF	4.41403655	4.443331676	0.009543261	0.746286783
ARAP1	7.239795066	7.166243049	-0.014731886	0.36578668
ARAP2	4.78021947	4.872042077	0.027449736	0.377605
ARAP3	7.444962252	7.336307845	-0.021210356	0.228405108
ARC	3.322033258	3.305267479	-0.00729949	0.976885571
ARCN1	5.491594662	5.472943831	-0.004908093	0.591472214
ARD1A	5.939913384	5.945596669	0.001379705	0.984589178
ARD1B	4.590372934	4.526924535	-0.02008011	0.226544837

AREG	4.158608325	4.255753141	0.033313656	0.763060459
ARF1	8.458075159	8.429905852	-0.004812862	0.226013036
ARF3	7.666704099	7.720760465	0.010136455	0.165774082
ARF4	8.81663094	8.709119592	-0.017700587	0.157305083
ARF5	7.080810695	7.28802238	0.041612843	0.004432357
ARF6	4.893538623	4.80914781	-0.025096818	0.124973911
ARFGAP1	8.056585861	8.031456394	-0.004506973	0.618433205
ARFGAP2	5.125005901	5.188524493	0.017770659	0.590519961
ARFGAP3	7.905205781	7.928240155	0.004197646	0.681973685
ARFGEF1	7.481817642	7.504627775	0.004391714	0.915941696
ARFGEF2	3.712116801	3.739068606	0.010436837	0.481223013
ARFIP1	7.390969311	7.430556268	0.007706635	0.169385171
ARFIP2	6.562691894	6.642076648	0.017346668	0.185562317
ARFRP1	4.560858132	4.529144134	-0.010066843	0.745764372
ARG1	3.451714232	3.115907007	-0.147660851	0.135842164
ARG2	5.880716212	6.013656183	0.032250516	0.388515734
ARGLU1	7.952042755	7.921258866	-0.005595789	0.39923011
ARHGAP1	9.347118305	9.367182923	0.003093584	0.88045876
ARHGAP10	5.744250285	5.674855254	-0.017535016	0.732745666
ARHGAP11A	2.027901748	2.038208183	0.007313661	0.828510028

ARHGAP12	7.31075457	7.320004676	0.00182425	0.936219265
ARHGAP15	2.62334247	2.526846845	-0.054067936	0.272400778
ARHGAP17	6.711699854	6.576126993	-0.029440041	0.373515968
ARHGAP18	5.860090099	5.81069531	-0.012212039	0.868500155
ARHGAP19	3.465850656	3.500095493	0.014184794	0.394999886
PTGDR	3.637766868	3.25711881	-0.159456743	0.015817743
ARHGAP21	5.531652483	5.497364824	-0.0089703	0.666354718
ARHGAP22	5.335042166	5.390807394	0.015001692	0.307591983
ARHGAP23	8.239759543	8.291254261	0.008988126	0.416817887
ARHGAP24	3.341087146	3.265858366	-0.032855388	0.109345454
ARHGAP25	4.469417781	4.269901415	-0.065884147	0.16451472
ARHGAP26	5.84363506	5.892765359	0.012078738	0.785244723
ARHGAP27	2.986291974	2.910655345	-0.037011209	0.101196005
ARHGAP28	2.777149099	2.673822514	-0.054700931	0.120788625
ARHGAP29	3.641207424	3.633802782	-0.002936805	0.839818142
ARHGAP30	3.015789828	2.890364021	-0.061284688	0.115114212
ARHGAP4	9.290468868	9.178902915	-0.017429678	0.309229773
ARHGAP5	5.492262185	5.542995275	0.01326528	0.304982636
ARHGAP6	3.669555298	3.539083225	-0.052229549	0.222596028
ARHGAP8	2.025509192	1.900471972	-0.091926884	0.023231482

ARHGAP9	5.846559026	5.535373113	-0.078907216	0.090739166
ARHGDIA	5.780481702	5.759948423	-0.005133828	0.946099816
ARHGDIB	8.999121159	8.588165331	-0.067434152	0.047485634
ARHGDIG	3.474776424	3.524164803	0.020361237	0.640479715
ARHGEF1	3.595243053	3.524023014	-0.02886596	0.250152288
ARHGEF10	5.798287291	5.686252162	-0.028148739	0.277251635
ARHGEF10L	9.01358347	9.065080761	0.00821909	0.170672373
ARHGEF11	4.08927751	4.080345134	-0.003154785	0.993395029
ARHGEF12	5.546049543	5.513351676	-0.008530876	0.784184101
ARHGEF15	4.336408993	4.200054761	-0.046092695	0.158524154
ARHGEF16	6.171881	6.435970183	0.060447397	0.028705107
ARHGEF17	7.49968606	7.477447592	-0.004284311	0.692124136
ARHGEF18	8.110849351	8.063371789	-0.008469754	0.260234702
ARHGEF19	5.829931563	5.806299303	-0.005860006	0.909376341
ARHGEF2	3.866606934	3.922512169	0.020709811	0.506482114
ARHGEF3	5.742950583	5.714641718	-0.007129097	0.883180929
ARHGEF4	8.138524113	8.301462725	0.028598372	0.225750926
ARHGEF5	4.905850139	4.952144225	0.013550168	0.379846321
ARHGEF6	2.774639192	2.706288648	-0.035984456	0.11495509
ARHGEF7	5.969382834	6.016520782	0.011347669	0.587190642

ARHGEF9	5.550696795	5.733139	0.046656369	0.117519906
ARID1A	5.587437066	5.647018725	0.015302739	0.346727531
ARID1B	5.440280046	5.317630507	-0.032897383	0.00170431
ARID2	4.295130152	4.338300345	0.014428087	0.468009079
ARID3A	4.611659675	4.579581972	-0.010070137	0.485960347
ARID3B	7.82298304	7.907479085	0.015498998	0.880459058
ARID4A	3.075554623	3.104779127	0.01364404	0.803333092
ARID4B	5.696113311	5.681414514	-0.00372768	0.696200182
ARID5A	7.866420305	7.862771493	-0.000669344	0.924156506
ARID5B	6.480380291	6.31752831	-0.036718254	0.281853011
ARIH1	4.312236	4.3980725	0.02843525	0.346021034
ARIH2	9.160917464	9.21727907	0.008848841	0.21972961
ARL1	7.057322901	7.0458655	-0.002344085	0.371666053
ARL10	2.279723132	2.286837979	0.004495533	0.792147773
ARL11	2.441286245	2.382374648	-0.035241157	0.092329794
ARL13B	6.863516119	6.923830028	0.012622463	0.676920378
ARL14	2.035225854	1.992272345	-0.030774025	0.847375564
ARL15	2.330366172	2.29660193	-0.021055849	0.912658335
ARL16	7.404904483	7.417757211	0.002501922	0.808139124
ARL17	4.486123318	4.337759472	-0.048519221	0.025005076

ARL17P1	5.37826845	5.215515901	-0.044331801	0.012589111
ARL2	8.709247477	8.72235031	0.002168866	0.6518722
ARL2BP	8.821400517	8.859967824	0.006293738	0.292788753
ARL3	9.787279702	9.890077472	0.015073892	0.634076257
ARL4A	3.511821238	3.379374669	-0.055463099	0.133683614
ARL4C	6.769681219	6.757858577	-0.00252174	0.83389066
ARL4D	6.684432629	6.769637063	0.018273379	0.676415868
ARL5A	6.51150194	6.438099803	-0.016355412	0.073539003
ARL5B	2.413631159	2.399234789	-0.00863088	0.645918189
ARL6	3.762078285	3.803177352	0.015675347	0.820454484
ARL6IP1	10.31337303	10.52520001	0.029331399	0.009171902
ARL6IP4	10.90352589	10.96885796	0.008618587	0.013237361
ARL6IP5	9.169220947	9.192046901	0.003586997	0.813487775
ARL6IP6	6.073911662	6.040194275	-0.008030974	0.47097545
ARL8A	8.962420801	8.961509676	-0.000146673	0.877194316
ARL8B	8.204493815	8.191822775	-0.002229824	0.953790509
ARMC1	6.557502192	6.64176338	0.018419941	0.02310595
ARMC10	6.614044278	6.646139754	0.006983926	0.243955185
ARMC2	2.449651695	2.475867599	0.015357532	0.70796655
ARMC3	2.210310636	2.277818796	0.043403843	0.726523449

ARMC4	2.275555848	2.319215824	0.027418088	0.444656368
ARMC5	7.508255848	7.537202373	0.005551318	0.626722897
ARMC6	6.91632349	6.979432465	0.01310438	0.197763589
ARMC7	5.940185914	5.872106239	-0.016630015	0.331051209
ARMC8	5.825994245	5.822782458	-0.000795556	0.966434221
ARMC9	9.235288629	9.410136225	0.027058558	0.104689554
ARMCX1	7.318415808	7.21470331	-0.020591319	0.029262963
ARMCX2	8.193875305	8.012573345	-0.03228028	0.000686898
ARMCX3	4.848688046	4.758759197	-0.027008984	0.098636329
ARMCX4	1.985278821	1.983928641	-0.000981505	0.802799547
ARMCX5	5.941385424	6.070526338	0.031022228	0.083974647
ARMCX6	7.54193657	7.400841676	-0.027245663	0.010301163
ARMET	11.02857349	10.81219013	-0.028587408	0.050658684
ARMETL1	2.276974901	2.26313057	-0.008798566	0.926896673
ARNT	4.372455185	4.30914631	-0.021041514	0.124296553
ARNT2	6.744296576	6.841678606	0.020682354	0.077046737
ARNTL	6.856624159	6.869734831	0.002755969	0.861989492
ARNTL2	2.470689483	2.536650401	0.038010998	0.479506708
ARP11	4.979038066	5.149235204	0.048491125	0.128057185
ARPC1A	8.843544834	8.826891134	-0.002719369	0.890263904



ARPC1B	7.44276602	7.295650007	-0.028802361	0.843055344
ARPC2	11.02546881	10.99313686	-0.004236888	0.498998027
ARPC3	10.43693301	10.38753981	-0.006843818	0.517131913
ARPC4	4.173970967	4.201171359	0.009371067	0.517580762
ARPC5	8.885189682	8.792687711	-0.015098346	0.570675237
ARPC5L	6.958191947	6.999329415	0.008504231	0.622816194
ARPM1	2.580156583	2.594368472	0.007924775	0.350274819
ARPP-19	7.637663391	7.653883317	0.003060569	0.742111206
HIST1H2AC	4.414524066	3.954094958	-0.15891039	9.74E-05
ARR3	8.85082551	8.844686655	-0.001000988	0.878826561
ARRB1	3.644308079	3.624719739	-0.007775474	0.594813278
ARRB2	7.035977576	6.960737866	-0.015510639	0.155089822
ARRDC1	5.315150252	5.333976845	0.005101087	0.700795821
ARRDC2	6.61316453	6.354336887	-0.057599216	0.238966825
ARRDC3	5.918563258	5.974514261	0.013574422	0.331051382
ARRDC4	5.550846331	5.349048359	-0.053425508	0.107675551
ARRDC5	2.126336675	2.028117169	-0.068229043	0.046339698
ARS2	8.256574748	8.184926106	-0.01257401	0.014381268
ARSA	5.473033477	5.305064176	-0.044970477	0.073984295
ARSB	2.904921033	2.863321042	-0.020809508	0.328313205

ARSD	2.559143801	2.604560951	0.025378982	0.305633736
ARSE	3.533904377	3.418829049	-0.047760717	0.299486976
ARSF	2.07626294	2.084479261	0.005697858	0.918131544
ARSG	3.811382205	3.850665458	0.0147935	0.434449811
ARSI	3.753267311	3.91667307	0.061481666	0.083113015
ARSJ	3.525505079	3.528181268	0.001094725	0.99064307
ARSK	2.540884166	2.570292775	0.016602095	0.541519355
ART1	2.004092795	2.0559455	0.036852711	0.176341553
ART3	3.024640795	2.76436931	-0.129813451	0.02900826
ART4	2.249036669	2.16739419	-0.053345619	0.295647724
ART5	3.746598682	3.645669563	-0.039397647	0.243955859
ARTN	3.787943722	3.832610711	0.016912571	0.531063027
ARV1	6.064747245	6.131522141	0.015797744	0.268501761
ARVCF	3.780230331	3.889111106	0.04096631	0.057453297
ARX	2.291460093	2.337003211	0.028392556	0.461688279
AS3MT	2.426626974	2.365999754	-0.036502428	0.262579172
ASAH1	5.39155051	5.471797232	0.021314544	0.13332645
ASAH2	2.737235656	2.813124127	0.039453566	0.244794436
ASAM	4.93754051	4.663277866	-0.082448188	0.135480549
ASAP1	3.443558252	3.279370592	-0.070481137	0.011461666

ASAP2	4.51376494	4.394475901	-0.038640175	0.10177195
ASAP3	5.879293358	5.762821261	-0.028867492	0.22390684
ASB1	5.515220384	5.451260542	-0.016828661	0.18717127
ASB10	2.356829967	2.296766704	-0.037243358	0.289950919
ASB11	1.868414517	1.858000092	-0.008063986	0.965334419
ASB12	2.067172669	2.05144243	-0.011020233	0.500321979
ASB13	8.400079583	8.522799232	0.020924352	0.3787239
ASB14	1.953015152	2.050200387	0.070061784	0.111656041
ASB16	3.909379179	4.007974352	0.035933755	0.323895031
ASB17	1.821317642	1.878727648	0.044773386	0.111811471
ASB2	4.741474046	4.728965148	-0.00381113	0.49725688
ASB3	7.059887424	7.096944972	0.007552941	0.531968504
ASB4	2.398918596	2.402253338	0.002004101	0.861447358
ASB5	1.941925841	1.966775366	0.018344083	0.917036542
ASB6	5.39616706	5.379756479	-0.004394144	0.659846999
ASB7	2.594861411	2.588370479	-0.003613359	0.398844687
ASB8	4.979017477	5.215728225	0.067007618	0.009938277
ASB9	3.120793377	2.94088138	-0.085664247	0.221290664
ASCC1	4.433731146	4.487171944	0.017285177	0.092196456
ASCC2	4.197996146	4.176696739	-0.007338446	0.494201863

ASCC3	5.455904629	5.479139972	0.006131034	0.76200852
ASCL1	2.294344305	2.424162972	0.079404784	0.050987551
ASCL2	2.863915702	2.807586754	-0.028658426	0.290895296
ASCL3	1.958350695	1.939861176	-0.01368573	0.597204486
ASCL5	3.106660722	3.088169592	-0.008612711	0.925252487
ASF1A	4.815866662	4.729077514	-0.026236659	0.358519209
ASF1B	2.534440166	2.617488789	0.046516253	0.385487021
ASGR1	7.20889396	7.451973979	0.047844709	0.060981168
ASGR2	4.167816285	3.96417443	-0.072271241	0.103369148
ASH1L	6.883294139	6.839430162	-0.009223031	0.29852393
ASH2L	7.111942457	7.161239577	0.009965682	0.49333037
ASIP	2.089004947	2.046979845	-0.029319011	0.25300499
ASL	5.998553987	6.002972451	0.001062281	0.821527396
ASMT	2.728403126	2.693757141	-0.018437032	0.823137528
ASMTL	7.684621629	7.764027704	0.014831039	0.116391904
ASNA1	6.496796139	6.541806014	0.009960543	0.591949202
ASNS	8.274394166	8.213913204	-0.010583982	0.891899964
ASNSD1	8.959039013	8.970522437	0.001848018	0.784714162
ASPA	4.656109079	4.351148317	-0.097728662	0.06098123
ASPG	4.930957411	4.935791225	0.00141358	0.588141033

ASPH	7.527908219	7.689030986	0.030552755	0.006526646
ASPHD1	6.464220742	6.754634754	0.063401296	0.026563884
ASPHD2	4.573088305	4.765415972	0.059433375	0.227606553
ASPM	2.24224553	2.190716915	-0.033541193	0.463369138
ASPN	2.603963927	2.507188254	-0.054639137	0.078323748
ASPRV1	6.235320318	6.08286731	-0.035712141	0.01185029
ASPSCR1	4.923762093	4.943849486	0.005873766	0.613095437
ASRGL1	7.39254545	7.659368535	0.051154248	0.000392408
ASS1	4.435955119	4.375360563	-0.019842858	0.545180161
ASTE1	3.825468795	3.74247019	-0.03164573	0.087368009
ASTL	2.629391967	2.710479507	0.043818877	0.207541245
ASTN1	4.227486854	4.400570894	0.057890431	0.321532336
ASTN2	7.045356404	7.07424	0.005902475	0.89080937
ASXL1	6.367042801	6.314765394	-0.011894326	0.226280071
ASXL2	6.88991143	6.852440155	-0.007867614	0.453750459
ASXL3	2.675276675	2.679945401	0.002515507	0.931282645
ASZ1	1.929781497	1.924120303	-0.0042385	0.789490876
ATAD1	7.823352099	7.898942394	0.013872604	0.209537492
ATAD2	2.611552649	2.535263056	-0.042772341	0.042263194
ATAD2B	5.165699974	5.118663901	-0.013196573	0.476083986

<b>ATAD3A</b>	6.209223881	6.276945859	0.015649815	0.362505334
<b>ATAD3B</b>	3.790257808	3.724415979	-0.025281766	0.157508221
<b>ATAD3C</b>	6.446069881	6.424703261	-0.004790007	0.960935761
<b>ATAD4</b>	1.969777007	2.030055662	0.04348697	0.10632393
<b>ATAD5</b>	2.339550007	2.360604458	0.012925258	0.951043342
<b>ATCAY</b>	6.789020695	6.974641042	0.038915486	0.388895192
<b>ATE1</b>	3.188200159	3.291051106	0.045806224	0.07578671
<b>ATF1</b>	4.170718887	4.105023021	-0.022905763	0.233778789
<b>ATF2</b>	5.87465506	5.884559908	0.00243038	0.825822789
<b>ATF3</b>	6.213848848	5.857925099	-0.085097402	0.042403545
<b>ATF4</b>	12.18385108	12.09244279	-0.010864501	0.373137994
<b>ATF4C</b>	6.959668556	6.871884408	-0.018312832	0.755183331
<b>ATF5</b>	4.244895066	4.434576049	0.063067297	0.004852628
<b>ATF6</b>	7.610769563	7.608086915	-0.000508611	0.745764313
<b>ATF6B</b>	4.249606841	4.197745627	-0.017714629	0.139129948
<b>ATF7</b>	2.665738921	2.708361113	0.022884619	0.194659285
<b>ATF7IP</b>	4.595923735	4.595015824	-0.000285028	0.82797239
<b>ATF7IP2</b>	5.265321113	5.249222289	-0.004417826	0.790021831
<b>ATG10</b>	3.366126894	3.305606845	-0.026174417	0.302388248
<b>ATG12</b>	6.976236954	6.907473951	-0.014290827	0.072985378

ATG16L1	5.716756477	5.674182113	-0.010784381	0.491591246
ATG16L2	7.679295278	7.426687148	-0.048255117	0.062422038
ATG2A	5.213609656	5.19465838	-0.005253697	0.806536351
ATG2B	4.564146556	4.535005408	-0.009240846	0.484665736
ATG3	6.126422205	6.075220007	-0.012108139	0.282779387
ATG4A	5.852192603	5.823564528	-0.007074773	0.771489806
ATG4B	7.676352543	7.588827007	-0.016544062	0.085469141
ATG4C	4.128457709	4.067155824	-0.021582661	0.218954412
ATG4D	4.985984232	5.059296908	0.021058587	0.323895262
ATG5	5.192678563	5.108804915	-0.023493076	0.050497472
ATG7	4.934482199	4.911019951	-0.00687602	0.32626872
ATG9A	7.405319993	7.494761085	0.017320412	0.151712424
ATG9B	2.153487265	2.191119634	0.024993465	0.54885321
ATHL1	5.688584106	5.465588542	-0.057692753	0.177668967
ATIC	7.343919722	7.325229627	-0.003676303	0.557625164
ATL1	6.364305921	6.35540462	-0.002019207	0.981837702
ATL2	5.861878881	5.764017697	-0.024288394	0.071021886
ATL3	4.368001053	4.266349437	-0.033971069	0.381345885
ATM	2.915226417	2.924018493	0.004344498	0.886993908
ATMIN	5.495856464	5.536410324	0.010606545	0.483373049

ATN1	6.392467669	6.455199303	0.01408868	0.285259783
ATOH1	1.836479391	1.949371746	0.086066534	0.208537908
ATOH7	2.241773166	2.233089183	-0.005599437	0.925252478
ATOH8	6.283594901	6.162764894	-0.02801242	0.257036645
ATOX1	8.201772788	8.188095817	-0.002407793	0.971934329
ATP10A	3.882599497	3.660464711	-0.08499608	0.056375132
ATP10B	2.804860179	3.070869479	0.13071834	0.052313284
ATP10D	4.325847517	4.309985655	-0.005299745	0.729113762
ATP11A	5.50928757	5.512605838	0.00086868	0.793211312
ATP11B	4.170265762	4.097839704	-0.025275775	0.177668864
ATP11C	3.946360881	3.91321893	-0.012167066	0.927992924
ATP12A	1.98847447	1.937386613	-0.037550162	0.300451978
ATP13A1	5.89416743	5.907082944	0.003157827	0.852241315
ATP13A2	5.581872808	5.672441254	0.023220512	0.49072274
ATP13A3	7.521617675	7.486876704	-0.00667898	0.742632828
ATP13A4	2.152167762	2.13099193	-0.014265411	0.339702913
ATP13A5	1.876020152	1.797167507	-0.061950442	0.245074185
ATP1A1	10.45079066	10.48695497	0.004983738	0.472672215
ATP1A2	8.645742265	8.722859486	0.012811321	0.467163524
ATP1A3	7.474662987	7.539373162	0.012436047	0.441784982



ATP1A4	5.216137735	5.311243761	0.026067778	0.382472269
ATP1B1	11.1137259	11.1996228	0.011107579	0.397685882
ATP1B2	11.11509636	11.26413064	0.019215516	0.257322968
ATP1B3	9.990198483	9.811261894	-0.026074638	0.108735012
ATP1B4	1.948663861	1.917718923	-0.023093969	0.50383708
ATP2A1	2.591366258	2.636317458	0.024811169	0.370559998
ATP2A2	6.440558358	6.425497352	-0.003377639	0.785775183
ATP2A3	3.466991397	3.241097155	-0.097201989	0.032083984
ATP2B1	4.995294053	5.162558873	0.047516723	0.420390112
ATP2B2	2.743109391	2.809011972	0.034250617	0.256457866
ATP2B3	5.424974099	5.730672641	0.079088236	0.254152427
ATP2B4	7.500112927	7.536819268	0.007043479	0.311203447
ATP2C1	7.779282291	7.525891458	-0.047774578	8.74E-06
MYLC2PL	3.259530742	2.920539106	-0.158429579	0.00972219
ATP4A	2.755959146	2.84485731	0.045801791	0.124297002
ATP4B	1.973312291	2.031133239	0.04166559	0.186250747
ATP5A1	10.77484483	10.89302516	0.015737575	0.161806084
ATP5B	9.604079689	9.705044211	0.015087411	0.312192439
ATP5C1	6.829975861	6.975073458	0.030327931	0.153493679
ATP5D	8.434520225	8.510130056	0.012875173	0.328653518

ATP5E	12.11242084	12.10230735	-0.001205109	0.94390064
ATP5F1	9.145253364	9.222077775	0.012068693	0.012036708
ATP5G1	8.246347755	8.269996366	0.004131393	0.86036309
ATP5G2	11.70000681	11.71249095	0.001538563	0.57630329
ATP5G3	10.75646033	10.81270002	0.007523418	0.408941912
ATP5H	11.78488125	11.84310397	0.007110026	0.241720599
ATP5I	11.02873241	11.00034006	-0.00371886	0.574895509
ATP5J	10.5466544	10.58535676	0.005284472	0.410509834
ATP5J2	8.748053298	8.744010225	-0.000666922	0.808138743
ATP5L	11.5703893	11.57463117	0.000528815	0.973583967
ATP5O	12.09714901	12.17204723	0.008904755	0.214071138
ATP5S	6.105162139	6.2702595	0.038495541	0.049290339
ATP5SL	8.221229907	8.258447225	0.006516309	0.46800892
ATP6AP1	9.776425563	9.865564127	0.013094462	0.103221197
ATP6AP2	8.633935106	8.680280472	0.00772341	0.2335072
ATP6VOA1	11.97801999	12.04837679	0.008449348	0.454156182
ATP6VOA2	4.169592583	4.070467845	-0.0347118	0.372775867
ATP6VOA4	2.485707225	2.583311317	0.055565133	0.168744005
ATP6VOB	9.955106046	10.03614534	0.011696679	0.167677147
ATP6VOC	12.38729546	12.42257299	0.004102784	0.609213567

ATP6VOD1	8.820321609	8.858233789	0.006187813	0.430000955
ATP6VOD2	2.657404351	2.602935944	-0.029877957	0.767798608
ATP6VOE1	7.246792954	7.191866852	-0.010976365	0.602000102
ATP6VOE2	5.643469815	5.943148824	0.07464505	0.073096145
ATP6V1A	9.346028298	9.44010338	0.014449253	0.267606908
ATP6V1B1	2.265400497	2.272496394	0.004511881	0.898447932
ATP6V1B2	8.206052854	8.300755106	0.016554135	0.736903234
ATP6V1C1	7.066828483	6.964367444	-0.021070572	0.036348735
ATP6V1C2	2.422284086	2.519754958	0.056915366	0.185562213
ATP6V1D	9.01433557	9.023618606	0.001484935	0.83981784
ATP6V1E1	7.467779444	7.535670169	0.013056502	0.160776211
ATP6V1E2	4.627620079	4.596453528	-0.009749272	0.717224185
ATP6V1F	10.34891256	10.36013775	0.001564004	0.772015962
ATP6V1G1	10.41186431	10.43350256	0.002995141	0.637024873
ATP6V1G2	7.225519927	7.426307648	0.039543679	0.650382158
ATP6V1G3	1.933641536	1.953647331	0.014849689	0.721352
ATP6V1H	7.76746404	7.832393514	0.012009593	0.28900832
ATP7A	4.136676252	4.279772782	0.049062152	0.013681336
ATP7B	5.507542901	5.573612669	0.01720392	0.39385075
ATP8A1	2.750071642	2.770365577	0.010607164	0.657350963

ATP8A2	5.795580596	5.832596577	0.009185095	0.963684804
ATP8B1	2.104018384	2.074392	-0.020458763	0.607777736
ATP8B2	5.977020285	5.779791993	-0.048408866	0.157913951
ATP8B3	3.278078126	3.15534581	-0.055052112	0.017119955
ATP8B4	3.502808881	3.222529324	-0.120318788	0.074431615
ATP9A	8.498647152	8.52021981	0.003657445	0.90828263
ATP9B	5.290863252	5.283327761	-0.002056217	0.954889575
ATPAF1	5.204395238	5.325653993	0.033228171	0.109651562
ATPAF2	5.678749272	5.743828056	0.016439347	0.432424818
ATPBD3	2.963243781	3.081011289	0.056226649	0.017972462
ATPBD4	3.849144603	4.002739944	0.056450017	0.021646745
ATPGD1	2.317892682	2.300962218	-0.010576477	0.745242223
ATPIF1	11.84356898	11.94364211	0.012138948	0.104537504
ATR	6.980849517	6.964564754	-0.003369417	0.627212088
ATRIP	3.494401331	3.55221838	0.023674966	0.035015323
ATRN	5.755598338	5.944576803	0.046608192	0.006445426
ATRNL1	3.411516113	3.567824176	0.06463149	0.481223326
ATRX	5.469214437	5.513545028	0.011646594	0.500760616
ATXN1	3.816378146	3.878512627	0.023299371	0.446302324
ATXN10	7.017674046	7.100703035	0.016968932	0.08509386

ATXN1L	2.681055146	2.610254261	-0.03861055	0.532421315
ATXN2	8.029373636	8.002435162	-0.004848366	0.389653765
ATXN2L	9.587399119	9.462628521	-0.018898502	0.015344461
ATXN3	4.170916384	4.040430162	-0.045855493	0.002566964
ATXN3L	1.952235675	1.959498331	0.005357117	0.531515644
ATXN7	4.787509748	4.779018669	-0.002561021	0.655855141
ATXN7L1	2.965526954	2.854134944	-0.055234937	0.003975199
ATXN7L2	4.937010927	4.944902627	0.002304274	0.981837686
ATXN7L3	4.305361623	4.379144246	0.024514552	0.368719645
AUH	7.060387563	7.076850704	0.003360105	0.69416095
AUP1	7.310520576	7.286805387	-0.004687683	0.599120404
AURKA	3.231029702	3.348199373	0.051391425	0.167466988
AURKAIP1	10.47433413	10.52029347	0.006316418	0.392699068
AURKB	2.014621377	2.007748099	-0.004930455	0.824748447
AURKC	2.418130788	2.392359606	-0.015458014	0.583396338
AUTS2	7.384342483	7.36029719	-0.004705446	0.370927885
AVEN	6.572805285	6.478000394	-0.020960691	0.301419107
AVIL	3.81779398	3.646707049	-0.066144944	0.014436809
AVL9	3.389526152	3.392176782	0.001127755	0.940060635
AVP	3.719151245	3.657364915	-0.024168839	0.37203622

AVPI1	8.016656868	7.985052042	-0.005698914	0.894627342
AVPR1A	2.171735298	2.224674859	0.034746228	0.259360534
AVPR1B	1.948728536	1.908971577	-0.02973751	0.468855534
AVPR2	2.190153457	2.134761465	-0.036957084	0.28869481
AXIN1	4.572738821	4.543391254	-0.009288972	0.711047562
AXIN2	3.204231709	3.185680141	-0.008377058	0.289636087
AXL	6.490882411	6.460946887	-0.006669005	0.761483073
AXUD1	4.87542994	4.769592775	-0.031663354	0.492895576
AYP1p1	2.449815212	2.409328056	-0.024042086	0.294693184
AZGP1	5.104543364	5.105557169	0.000286503	0.885359465
AZGP1P1	1.91619757	1.954855951	0.028815984	0.354202637
AZI1	7.948223947	7.973486275	0.004578134	0.626233993
AZI2	6.659760397	6.560854338	-0.021586582	0.101627648
AZIN1	6.883051808	6.669381282	-0.04549544	0.008425199
AZU1	2.334740689	2.333827725	-0.000564253	0.347789689
B2M	9.401367152	9.349573535	-0.007970009	0.741068407
B3GALNT1	5.424460139	5.465030634	0.01075002	0.923608646
B3GALNT2	4.642169781	4.652712049	0.003272615	0.660846637
B3GALT1	2.038812377	2.079290838	0.02836255	0.244514686
B3GALT2	2.47314945	2.577239014	0.059476916	0.175900711

<b>B3GALT4</b>	7.91039843	8.018609669	0.01960175	0.040139981
<b>B3GALT5</b>	1.998555351	1.9785755	-0.014495412	0.320186962
<b>B3GALT6</b>	7.932462046	7.991919824	0.010773396	0.224431956
<b>B3GALTL</b>	5.03466794	5.102006866	0.019168212	0.285260013
<b>B3GAT1</b>	6.975629967	7.323966514	0.070301683	0.252432599
<b>B3GAT2</b>	2.808922795	2.89697407	0.0445298	0.144176983
<b>B3GAT3</b>	6.158652106	6.264038803	0.024478515	0.208038845
<b>B3GNT1</b>	7.113492596	7.23852307	0.025137293	0.16895766
<b>B3GNT2</b>	4.112428636	3.984662211	-0.045533215	0.051398806
<b>B3GNT3</b>	1.987391106	2.071645979	0.05990167	0.058640512
<b>B3GNT4</b>	2.47745147	2.521689958	0.02553411	0.258778074
<b>B3GNT5</b>	3.913836146	3.879260246	-0.012801794	0.870129201
<b>B3GNT6</b>	2.284960384	2.288656824	0.002332	0.845214882
<b>B3GNT7</b>	2.178114245	2.144651965	-0.022336082	0.55392356
<b>B3GNT8</b>	5.073460377	5.009501352	-0.018303076	0.582449606
<b>B3GNT9</b>	6.971816232	6.839233852	-0.027699822	0.123118206
<b>B3GNTL1</b>	3.625374854	3.584908282	-0.016193965	0.795339277
<b>B4GALNT1</b>	2.89872253	2.927665711	0.014333589	0.396151158
<b>B4GALNT2</b>	2.043045907	1.993170908	-0.0356562	0.362505277
<b>B4GALNT3</b>	2.033187093	2.035911859	0.001932127	0.829585504

B4GALNT4	6.261330483	6.49950769	0.053861193	0.02465021
B4GALT1	8.90479845	8.843601775	-0.009948896	0.565530441
B4GALT2	5.531744225	5.521398387	-0.002700751	0.883725454
B4GALT3	7.93904294	7.873380754	-0.011981851	0.219212958
B4GALT4	5.007758669	5.055662028	0.013734984	0.39003537
B4GALT5	6.958245126	6.946915345	-0.002350986	0.764638857
B4GALT6	2.73218798	2.849005669	0.060401745	0.14154293
B4GALT7	5.086074344	5.082536014	-0.001004018	0.721351937
B9D1	6.251411477	6.386051507	0.030742223	0.251860942
B9D2	6.944645265	6.963849007	0.00398392	0.617947076
BAALC	10.80287617	10.82107527	0.002428396	0.854945756
BAAT	2.046092278	2.128202627	0.056764305	0.215101329
BACE1	9.904794788	9.895605155	-0.001339149	0.812416663
BACE2	7.203393788	7.070831134	-0.026796969	0.823137508
BACH1	5.325336722	5.322864662	-0.000669865	0.910470139
BACH2	3.29922357	3.332913254	0.014657224	0.460429886
BAD	9.592992755	9.619991514	0.004054654	0.376858135
BAG1	11.08886628	11.19222258	0.013384687	0.157503763
BAG2	6.059056258	5.99799807	-0.014612043	0.407382143
BAG3	5.762078735	5.628816472	-0.033757764	0.678940049



BAG4	3.307399391	3.330646535	0.010104985	0.720319152
BAG5	5.625590437	5.629065549	0.000890925	0.862531658
BAGE	7.387140391	7.413293063	0.005098549	0.940609552
BAGE4	2.21678394	2.168003056	-0.032101374	0.587665726
BAHCC1	5.056033834	5.070469366	0.004113184	0.854946885
BAHD1	7.899770841	7.902591134	0.000514964	0.649885153
BAI1	5.469695497	5.656435415	0.04843266	0.170889131
BAI2	5.163732371	5.388582838	0.061491674	0.137296037
BAI3	4.487819828	4.484944894	-0.000924498	0.977985977
BAIAP2	5.725625596	5.641679838	-0.021308538	0.141916468
BAIAP2L1	2.358593848	2.289282887	-0.043031258	0.362141952
BAIAP2L2	5.254089689	5.319897246	0.017957553	0.616490114
BAIAP3	3.096526497	3.088239901	-0.003865962	0.869586134
BAK1	5.074063815	5.072806331	-0.000357581	0.97523505
BAMBI	10.38871321	10.0563395	-0.046911706	0.030353533
BANF1	7.12751496	7.009592972	-0.024068489	0.057816235
BANF2	2.022385881	1.96614243	-0.040690461	0.256746972
BANK1	2.582648675	2.654760042	0.039730062	0.715678228
BANP	8.584281066	8.491734268	-0.015638088	0.185790797
BAP1	5.534496026	5.593388106	0.015270487	0.460010617

BARD1	4.553613205	4.696118106	0.044456941	0.035495274
BARHL1	2.049619258	2.03974169	-0.006969473	0.374257549
BARHL2	2.180989265	2.14085593	-0.026794957	0.699262748
BARX1	1.950778106	1.971830789	0.015486067	0.884270047
BARX2	1.953460954	1.946096303	-0.005449315	0.70899307
BASP1	11.05922593	11.18915256	0.016850363	0.292469667
BAT1	6.705663775	6.675371486	-0.006532022	0.603922999
BAT2	4.735855139	4.753323908	0.005311763	0.698751836
BAT2D1	7.274391695	7.234145725	-0.008003951	0.130846394
BAT2L	7.425109523	7.477772606	0.010196294	0.382848279
BAT3	10.19137281	10.21324432	0.003092823	0.743152882
BAT4	9.581014517	9.687468317	0.015941258	0.011083897
BAT5	4.703754026	4.744481782	0.012437898	0.438923807
BATF	5.545126106	5.282582838	-0.069976784	0.277251979
BATF2	5.586557166	5.492771592	-0.024425165	0.766744881
BATF3	5.142317437	4.926468148	-0.061864942	0.085094084
BAX	8.195302139	8.196788169	0.000261576	0.984038852
BAZ1A	4.132220788	3.973784514	-0.056403699	0.21255936
BAZ1B	6.792267523	6.802652	0.002204005	0.510906
BAZ2A	3.895651748	4.152108662	0.091979486	0.036969117

<b>BAZ2B</b>	5.069792841	5.057202993	-0.003587109	0.756232105
<b>BBC3</b>	11.88750685	11.84885608	-0.004698388	0.385476424
<b>BBOX1</b>	2.45655945	2.583875359	0.072897325	0.159749714
<b>BBS1</b>	5.95977647	6.055006415	0.022870267	0.107223409
<b>BBS10</b>	5.99378755	5.986280958	-0.001807957	0.830661279
<b>BBS12</b>	5.475063894	5.574862225	0.02606035	0.579141551
<b>BBS2</b>	8.958512424	9.046781444	0.014145428	0.214080592
<b>BBS4</b>	7.755171073	7.875937479	0.022293053	0.175460486
<b>BBS5</b>	9.604709921	9.570581937	-0.005135393	0.744197424
<b>BBS7</b>	4.260173404	4.379335859	0.039799943	0.622328568
<b>BBS9</b>	6.506473536	6.505967965	-0.000112106	0.467163471
<b>BBX</b>	8.557879662	8.535575479	-0.003764968	0.475229468
<b>BCAM</b>	12.89718356	12.90674699	0.001069382	0.938410183
<b>BCAN</b>	3.57353353	3.407779718	-0.068519243	0.024782793
<b>BCAP29</b>	5.510055728	5.472031965	-0.009990252	0.712075795
<b>BCAP31</b>	10.17592673	10.14766158	-0.004012876	0.457077416
<b>BCAR1</b>	7.851067219	7.736038472	-0.021293808	0.089690831
<b>BCAR3</b>	6.193782629	6.050152106	-0.033849339	0.277557014
<b>BCAR4</b>	2.162267914	2.121383514	-0.027539828	0.444656639
<b>BCAS1</b>	2.318157285	2.43256293	0.069498672	0.046491122

BCAS2	7.917362914	7.99298088	0.013713655	0.393086199
BCAS3	4.894897728	5.018742669	0.036047258	0.030459803
BCAS4	4.838358278	4.647643901	-0.058018069	0.068053563
BCAT1	6.820432225	7.060503972	0.049907997	0.070914102
BCAT2	5.676144748	5.600940359	-0.019242314	0.067018322
BCCIP	4.359035583	4.301215725	-0.01926449	0.574430846
BCDIN3D	5.675361086	5.686448655	0.002815746	0.831199395
BCHE	5.429154881	5.622433028	0.05046693	0.156699081
BCKDHA	8.984394874	9.150284923	0.02639533	0.010301008
BCKDHB	3.664007576	3.781549268	0.045554929	0.003673027
BCKDK	7.121480291	7.183329655	0.01247557	0.47310001
BCL10	5.278670861	5.107770951	-0.047480882	0.017476197
BCL11A	3.266753967	3.381375627	0.049752486	0.197044037
BCL11B	2.342001358	2.312427141	-0.018334002	0.571144554
BCL2	6.491865411	6.372294056	-0.026820247	0.366152974
BCL2A1	6.566184695	6.396825183	-0.037699274	0.001205972
BCL2L1	4.20279894	4.242349162	0.013512925	0.386999429
BCL2L10	2.143576311	2.221958923	0.051812368	0.155090117
BCL2L11	5.348707861	5.375112648	0.007104582	0.542433164
BCL2L12	6.937651404	6.818553063	-0.024981728	0.639492773

BCL2L13	6.100324258	6.195185479	0.022261546	0.532874419
BCL2L14	2.063947384	2.039235162	-0.017378038	0.848996827
BCL2L15	2.043621702	2.099047542	0.038606682	0.076128681
BCL2L2	9.234236411	9.264138493	0.004664153	0.830660941
BCL3	9.912709901	9.876555577	-0.005271517	0.753610732
BCL6	9.469723748	9.287528085	-0.028027672	0.031973181
BCL6B	3.385851351	3.234342148	-0.066046332	0.084470888
BCL7A	5.061620543	5.114394866	0.014964194	0.542890862
BCL7B	4.587478689	4.594278986	0.002137011	0.679950878
BCL7C	5.205782768	5.173902739	-0.008862177	0.552999747
BCL9	3.214670166	3.371354831	0.068657757	0.017739389
BCL9L	2.993578026	3.042196155	0.023242304	0.492895525
BCLAF1	8.490054907	8.539550176	0.008386193	0.34074991
BCM01	5.007827523	4.907980317	-0.029055411	0.641467093
BC02	5.377392874	5.324086817	-0.014372783	0.475230573
BCOR	5.452887278	5.506548542	0.014128001	0.537415477
BCORL1	5.013181887	4.955967951	-0.016559721	0.186250642
BCORL2	1.829201821	1.871670465	0.033112189	0.226280238
BCR	6.78751253	6.81360588	0.005535544	0.648891684
BCS1L	7.902169722	7.805609077	-0.017737622	0.000947179

<b>BDH1</b>	5.467843543	5.669339852	0.052208793	0.032417541
<b>BDH2</b>	9.17920906	9.148350254	-0.004858245	0.791615651
<b>BDKRB1</b>	3.234286768	3.057513282	-0.081088835	0.032529454
<b>BDKRB2</b>	5.494630967	5.006882303	-0.134110047	0.033839637
<b>BDNF</b>	2.210167841	2.280450296	0.045162793	0.069207336
<b>BDP1</b>	3.955214682	4.041865761	0.031265404	0.164724087
<b>BEAN</b>	4.432819265	4.66508893	0.073680041	0.28062126
<b>BECN1</b>	7.227101801	7.285254197	0.011562095	0.23459255
<b>BEGAIN</b>	7.128856126	7.184800366	0.011277466	0.606330892
<b>BEND2</b>	1.837403371	1.789534528	-0.038084	0.05181261
<b>BEND3</b>	3.283121947	3.196708754	-0.038481029	0.18147127
<b>BEND4</b>	2.01161206	1.946631303	-0.047372448	0.186250694
<b>BEND5</b>	6.569890033	6.625380944	0.012134186	0.608742982
<b>BEND6</b>	2.940704536	3.098403268	0.075363089	0.153493777
<b>BEND7</b>	5.049837285	5.068821627	0.005413494	0.698751939
<b>BEST1</b>	9.858135152	9.90166331	0.006356134	0.538780956
<b>BEST2</b>	3.254975139	3.251134831	-0.001703136	0.493330834
<b>BEST3</b>	1.991715371	2.112886113	0.085203515	0.040140218
<b>BEST4</b>	4.822343	4.84556119	0.006929492	0.794807065
<b>BET1</b>	3.828274616	3.778516028	-0.018874581	0.04618856

BET1L	4.806181199	4.811279958	0.001529708	0.89844792
BET3L	2.587637046	2.452876599	-0.077160617	0.08698574
BEX1	8.385573013	8.686032415	0.050787966	0.253290081
BEX2	10.99832014	11.23010762	0.030088567	0.16874055
BEX4	7.236839384	7.259660979	0.004542424	0.853323346
BEX5	7.561879126	7.733685993	0.0324114	0.07069887
BFAR	6.021480026	5.987513641	-0.008161095	0.484234459
BFSP1	4.625744841	4.525818155	-0.031507069	0.327972084
BFSP2	2.178814808	2.23217238	0.034904867	0.440966533
BGLAP	4.875615987	4.726009556	-0.044961954	0.004327874
BGN	4.088792358	3.990606796	-0.035066666	0.491591246
BHLHA15	2.208722589	2.134605	-0.049243101	0.151319104
BHLHB9	4.072392854	4.020044437	-0.018665293	0.440966533
BHLHE22	4.838478238	5.114466761	0.080030458	0.10278614
BHLHE23	8.265229728	8.29699212	0.005533497	0.814558641
BHLHE40	7.669558974	7.809334951	0.026056072	0.053326287
BHLHE41	9.539029391	9.587703958	0.007342886	0.889173671
BHMT	2.287836106	2.213148613	-0.047883374	0.073096179
BHMT2	5.157954815	5.017565599	-0.039811561	0.711047793
BIC	2.465102801	2.357236908	-0.064551052	0.09313362

<b>BICC1</b>	2.476150901	2.392807944	-0.049394632	0.485097274
<b>BICD1</b>	3.972535252	4.087939401	0.041313788	0.217407458
<b>BICD2</b>	5.609061623	5.574917937	-0.008808864	0.494201193
<b>BID</b>	6.42792743	6.241670979	-0.042421332	0.064288126
<b>BIK</b>	2.337199987	2.324390063	-0.007928994	0.544722033
<b>BIN1</b>	8.346146596	8.338164338	-0.001380454	0.608742897
<b>BIN2</b>	2.789766232	2.784824014	-0.002558077	0.863074034
<b>BIN3</b>	6.03423657	6.035797486	0.000373143	0.911564116
<b>BIRC2</b>	6.133346755	6.123530338	-0.002310882	0.790553372
<b>BIRC3</b>	5.03687496	5.028887408	-0.002289663	0.956538318
<b>BIRC5</b>	3.567141007	3.541834458	-0.010271462	0.838200722
<b>BIRC6</b>	3.384647212	3.40747657	0.00969827	0.665853301
<b>BIRC7</b>	5.084293755	4.994278711	-0.025771053	0.454166517
<b>BIRC8</b>	1.902085914	1.910919951	0.006684933	0.38360109
<b>BIVM</b>	5.526808278	5.516747451	-0.00262863	0.866871494
<b>BLCAP</b>	6.797762265	6.810021035	0.002599346	0.881547633
<b>BLID</b>	2.045582185	2.046815	0.00086921	0.555310339
<b>BLK</b>	2.576256987	2.549538282	-0.015040512	0.939511819
<b>BLM</b>	4.159478272	4.274119577	0.03922469	0.432424928
<b>BLMH</b>	8.238185636	8.229112704	-0.001589754	0.763059445



<b>BLNK</b>	2.390888623	2.40983462	0.011387217	0.912658345
<b>BLOC1S1</b>	8.066678106	8.088591789	0.003913866	0.794274755
<b>BLOC1S2</b>	8.616521768	8.644371852	0.004655519	0.332425071
<b>BLVRA</b>	10.63811451	10.61797963	-0.002733192	0.235128464
<b>BLVRB</b>	8.165730166	8.111456148	-0.009620968	0.367617859
<b>BLZF1</b>	5.268258629	5.265782486	-0.000678243	0.858195887
<b>BMF</b>	5.074604755	5.051665873	-0.00653624	0.702330148
<b>BMI1</b>	7.31837955	7.241460155	-0.01524361	0.165774587
<b>BMP1</b>	3.018554921	3.011149507	-0.003543709	0.699262645
<b>BMP10</b>	1.987799828	1.943042845	-0.032854771	0.421584541
<b>BMP15</b>	1.941049954	1.916015183	-0.018728253	0.276946772
<b>BMP2</b>	4.760750583	4.609267655	-0.046651502	0.331051612
<b>BMP2K</b>	3.253684417	3.234090901	-0.008714098	0.495073714
<b>BMP3</b>	2.087299709	2.005480268	-0.057689996	0.152107158
<b>BMP4</b>	5.768845219	5.613116479	-0.039480558	0.737944213
<b>SHE</b>	3.526894616	3.16636881	-0.155569162	0.013137916
<b>BMP6</b>	4.741112967	4.423006528	-0.100198397	0.146848499
<b>BMP7</b>	7.509238364	7.826902261	0.059774841	0.059288255
<b>BMP8A</b>	1.999481808	2.014544028	0.010827181	0.679445536
<b>BMP8B</b>	11.39968212	11.37041744	-0.003708375	0.272694265

<b>BMPER</b>	2.234816225	2.190531873	-0.028874993	0.399230391
<b>BMPR1A</b>	3.300305967	3.261577155	-0.017030024	0.234049987
<b>BMPR1B</b>	5.21092596	5.479698352	0.072556721	0.018073221
<b>BMPR2</b>	6.150700868	6.158221141	0.001762861	0.981837695
<b>BMS1</b>	5.416887987	5.405380852	-0.003067987	0.688564816
<b>BMS1P5</b>	2.278966252	2.243591951	-0.022569248	0.583869905
<b>BMX</b>	3.264924821	3.190638359	-0.033204676	0.598641403
<b>BNC1</b>	2.376826159	2.340745549	-0.022068274	0.795871585
<b>BNC2</b>	4.140794232	3.94784443	-0.068842373	0.079617647
<b>BNIP1</b>	5.175135722	5.234064697	0.016335058	0.237045806
<b>BNIP2</b>	7.131789748	7.074793662	-0.0115761	0.310544981
<b>BNIP3</b>	9.923407073	10.21494025	0.041773325	0.103807198
<b>BNIP3L</b>	9.14790102	9.30119819	0.023975822	0.211548103
<b>BNIPL</b>	1.972894477	1.935866725	-0.02733416	0.238142247
<b>BOC</b>	4.485342093	4.286693155	-0.065352871	0.241729302
<b>BOK</b>	5.211468285	5.095671873	-0.032417515	0.196565491
<b>BOLA1</b>	8.414409861	8.470993049	0.009669013	0.394232913
<b>BOLA2B</b>	9.657263285	9.671702373	0.002155439	0.972484281
<b>BOLA3</b>	8.487941404	8.541964599	0.009153222	0.172402353
<b>BOLL</b>	1.929948132	1.888601028	-0.031244115	0.169385578

<b>BOP1</b>	7.057222589	7.100504866	0.008821094	0.555310339
<b>BPA-1</b>	2.19246198	2.167569324	-0.01647369	0.898993972
<b>BPESC1</b>	1.898236669	1.90317988	0.003752049	0.800133018
<b>BPGM</b>	7.250686371	7.217679282	-0.006582533	0.423580023
<b>BPHL</b>	5.091662013	5.152996077	0.017274839	0.126336848
<b>BPI</b>	2.226174245	2.173651423	-0.034445917	0.676920341
<b>BPIL1</b>	2.253449318	2.309485303	0.035436362	0.326949583
<b>BPIL2</b>	1.909604364	1.910522662	0.000693602	0.818845482
<b>BPIL3</b>	1.952065298	1.91051107	-0.031042696	0.536051256
<b>BPNT1</b>	3.728695026	3.786588754	0.022227942	0.1167134
<b>BPTF</b>	5.966967258	5.971879197	0.001187121	0.811347507
<b>BPY2B</b>	1.839463238	1.882275028	0.033192598	0.43974019
<b>BRAF</b>	3.730538377	3.694448908	-0.014024673	0.70694046
<b>BRAP</b>	3.618658377	3.673703901	0.021780435	0.500321877
<b>BRCA1</b>	4.612493881	4.494215958	-0.037477546	0.058456685
<b>BRCA2</b>	2.007329536	1.966097838	-0.029942363	0.073539106
<b>BRCC3</b>	6.985373808	7.065501317	0.016454607	0.088652268
<b>BRD1</b>	7.958725709	7.892512901	-0.012052742	0.078089559
<b>BRD2</b>	10.14036699	10.17319402	0.004662839	0.452084975
<b>BRD3</b>	6.934418245	7.148635218	0.043892982	0.008171854

<b>BRD4</b>	4.600411132	4.592570951	-0.002460789	0.682480211
<b>BRD7</b>	8.366073437	8.320402718	-0.007897304	0.256456902
<b>BRD7P2</b>	5.096484477	5.106250014	0.002761749	0.953790537
<b>BRD7P3</b>	4.130493901	4.155919711	0.008853482	0.769907187
<b>BRD8</b>	8.631486841	8.656172183	0.0041201	0.936767821
<b>BRD9</b>	5.340671278	5.353879937	0.003563698	0.772017522
<b>BRDT</b>	1.880835205	1.792125049	-0.069702141	0.002778948
<b>BRE</b>	5.483512	5.531094035	0.012464684	0.178558121
<b>BRF1</b>	5.212588278	5.217658662	0.001402655	0.604885546
<b>BRF2</b>	5.258714583	5.307288127	0.013264677	0.800666078
<b>BRI3</b>	11.68029902	11.57823035	-0.012662444	0.204564603
<b>BRI3BP</b>	6.133302132	6.204580077	0.016669552	0.407772547
<b>BRIP1</b>	1.900260682	1.899278754	-0.000745682	0.917584033
<b>BRMS1</b>	7.046693298	7.073923134	0.005564119	0.449189952
<b>BRMS1L</b>	3.933262775	4.031309261	0.03552189	0.214845899
<b>BRP44</b>	7.867320556	7.821975049	-0.008339434	0.488121608
<b>BRP44L</b>	10.10802956	10.20167869	0.01330478	0.075557706
<b>BRPF1</b>	4.90079496	4.86564481	-0.01038478	0.872302095
<b>BRPF3</b>	2.891731232	2.943137901	0.025421673	0.148391813
<b>BRS3</b>	1.999879212	1.928705479	-0.052280012	0.176562256

<b>BRSK1</b>	2.655684715	2.754040366	0.052465826	0.152700013
<b>BRSK2</b>	4.374110596	4.598077331	0.072041031	0.017055873
<b>BRUNOL4</b>	5.389387503	5.6130565	0.058665259	0.423579857
<b>BRUNOL5</b>	2.520057225	2.615469613	0.053613514	0.098074748
<b>BRUNOL6</b>	6.157202225	6.260828289	0.024078581	0.346021149
<b>BRWD1</b>	5.244423834	5.32136212	0.021011299	0.330022551
<b>BRWD2</b>	5.871778543	5.785887352	-0.021259322	0.111811385
<b>BRWD3</b>	4.462485026	4.449814444	-0.004102151	0.862531755
<b>BSCL2</b>	6.473662205	6.570063655	0.02132526	0.514905705
<b>BSDC1</b>	9.167336887	9.147995493	-0.003047037	0.591471904
<b>BSG</b>	8.644232821	8.780000577	0.022483105	0.129794533
<b>BSN</b>	5.693853344	5.889277993	0.048685441	0.27300371
<b>BSND</b>	2.098722914	2.105365521	0.004559021	0.596725965
<b>PRSS12</b>	3.187341728	2.867781225	-0.152418736	0.005527392
<b>BST1</b>	2.975008338	2.969528634	-0.002659768	0.738985221
<b>BST2</b>	6.208056808	5.983088972	-0.053251242	0.522055153
<b>BTAF1</b>	4.779737576	4.819718	0.012017326	0.232966864
<b>BTBD1</b>	8.574117285	8.533449669	-0.006859079	0.188326567
<b>BTBD10</b>	4.955074225	5.027189331	0.020845355	0.382848506
<b>BTBD11</b>	3.345485272	3.43213062	0.036888967	0.280313708

<b>BTBD12</b>	4.815419232	4.823840444	0.002520784	0.805468121
<b>BTBD16</b>	2.129434517	2.127952958	-0.001004108	0.716193354
<b>BTBD2</b>	5.396094901	5.398179732	0.000557291	0.829047746
<b>BTBD3</b>	5.951553291	5.972234401	0.005004545	0.925252469
<b>BTBD6</b>	10.65485454	10.62141623	-0.004534754	0.86361517
<b>BTBD7</b>	5.966881689	5.835569239	-0.032103779	0.001034661
<b>BTBD8</b>	2.147396185	2.168571303	0.014156493	0.868500093
<b>BTBD9</b>	6.453759821	6.496716486	0.009570859	0.75361096
<b>BTC</b>	3.752805656	3.943901282	0.07165386	0.023526413
<b>BTD</b>	3.088605106	3.193318563	0.048101056	0.067949296
<b>BTF3</b>	10.04594721	10.01838041	-0.0039643	0.676414084
<b>BTG1</b>	8.298226053	8.438738359	0.024224365	0.048029128
<b>BTG2</b>	8.409131026	8.579623042	0.028957538	0.349918702
<b>BTG3</b>	6.89292402	6.811861521	-0.017067006	0.489855007
<b>BTG4</b>	1.898768079	1.915303338	0.012509197	0.951043342
<b>BTK</b>	2.775785205	2.714871796	-0.032011863	0.450431673
<b>BTLA</b>	2.063215695	2.021936775	-0.029156768	0.398844574
<b>BTN1A1</b>	1.974128748	1.880111549	-0.070397821	0.008072466
<b>BTN2A1</b>	2.94887704	2.828184908	-0.06028922	0.035676749
<b>BTN2A2</b>	5.473123841	5.395571493	-0.020588724	0.825285577

<b>BTN2A3</b>	3.735913974	3.551115535	-0.073188936	0.019392362
<b>BTN3A1</b>	3.187936609	3.083020711	-0.048278361	0.119308939
<b>BTN3A2</b>	5.955974874	6.023477592	0.016258985	0.782594221
<b>BTN3A3</b>	4.315283656	4.184215289	-0.044498311	0.213573444
<b>BTNL2</b>	2.458957781	2.476037338	0.009986105	0.48682451
<b>BTNL3</b>	2.508954669	2.217024465	-0.178461714	0.042755763
<b>BTNL8</b>	3.045609079	2.851388056	-0.095066381	0.216380332
<b>TEK</b>	5.925959245	5.331945662	-0.152386626	0.007240313
<b>BTRC</b>	5.080875742	5.120315782	0.011155605	0.632112326
<b>BUB1</b>	2.208577106	2.162507563	-0.030412022	0.363961434
<b>BUB1B</b>	2.299322695	2.290766035	-0.005378835	0.733784343
<b>BUB3</b>	6.705230113	6.641306113	-0.013819847	0.047100702
<b>BUD13</b>	7.628972828	7.544555613	-0.016052898	0.040746962
<b>BUD31</b>	7.333636689	7.249609268	-0.016625556	0.264936983
<b>BVES</b>	2.45980596	2.471888296	0.007069035	0.815094388
<b>BXDC1</b>	6.900756841	6.943191092	0.00884428	0.611159079
<b>BXDC2</b>	6.264360967	6.22441607	-0.009228846	0.228138295
<b>BXDC5</b>	5.609281384	5.636985894	0.007108001	0.377604943
<b>BYSL</b>	5.951828583	6.008247113	0.013611174	0.546556123
<b>BZRAP1</b>	6.661439	6.657667711	-0.000816995	0.969184111

<b>BZW1</b>	6.976552106	6.951980254	-0.005090231	0.774129519
<b>BZW1P1</b>	1.926485795	1.938922373	0.009283497	0.613095479
<b>BZW2</b>	8.47003745	8.737420289	0.04483904	0.059942016
<b>C10orf10</b>	9.204772245	9.275155676	0.010989471	0.768325256
<b>C10orf104</b>	9.776568252	9.750068056	-0.003915854	0.437697943
<b>C10orf107</b>	2.400819755	2.45839131	0.034187477	0.19489715
<b>C10orf11</b>	3.902904808	3.723423028	-0.067918742	0.086858504
<b>C10orf110</b>	6.435071669	6.399745789	-0.007941617	0.716708543
<b>C10orf111</b>	2.758936199	2.689548113	-0.036748297	0.699773659
<b>C10orf114</b>	5.463339874	5.203943683	-0.070177826	0.012885878
<b>C10orf116</b>	10.8192228	10.6441943	-0.023530116	0.156092287
<b>C10orf118</b>	5.321295159	5.351874972	0.008266984	0.601519669
<b>C10orf119</b>	6.80981206	6.819246014	0.00199725	0.754134781
<b>C10orf12</b>	6.436231868	6.46146219	0.005644374	0.735343303
<b>C10orf125</b>	6.779132629	6.758413754	-0.004416021	0.512237749
<b>C10orf126</b>	1.905521258	1.882532218	-0.017511147	0.819917932
<b>C10orf128</b>	2.194061907	2.094875958	-0.066739412	0.191591566
<b>C10orf136</b>	1.879356411	1.782871394	-0.076036053	0.050660447
<b>C10orf137</b>	3.825484278	3.780423472	-0.017094544	0.319851251
<b>C10orf140</b>	3.784714834	3.931395035	0.054856734	0.188327462



C10orf141	2.856102954	2.987292845	0.064790687	0.314511266
C10orf2	5.702561298	5.665113401	-0.009505214	0.408945768
C10orf25	2.307837517	2.433737986	0.076632203	0.085595253
C10orf26	5.122715662	5.040282979	-0.023404083	0.514460654
C10orf27	2.341126046	2.353950556	0.007881406	0.543348319
C10orf28	3.67747957	3.610188324	-0.02664323	0.214590906
C10orf32	7.547399682	7.573401824	0.0049618	0.694160916
C10orf35	7.36421543	7.551261894	0.036185922	0.125995248
C10orf4	6.053911894	5.971077627	-0.019876354	0.060506993
C10orf46	4.212589364	4.182328683	-0.010400846	0.187171165
C10orf47	5.439371007	5.087291951	-0.096541942	0.056285991
C10orf49	2.133288026	2.251270451	0.077660617	0.024518173
C10orf50	1.937768609	1.934683556	-0.002298694	0.909923208
C10orf51	1.979685993	1.970921387	-0.006401382	0.494637377
C10orf53	1.91389904	1.938780782	0.018634959	0.660346837
C10orf54	7.035060113	6.951573845	-0.017223108	0.576312979
C10orf57	5.582266252	5.582014592	-6.50E-05	0.983488564
C10orf58	9.524910821	9.627232289	0.015415515	0.13912976
C10orf59	2.933486444	2.933437303	-2.42E-05	0.804400572
C10orf62	1.94017849	1.977868225	0.027756929	0.432424928

<b>C10orf65</b>	2. 29585296	2. 370676162	0. 046268355	0. 14493619
<b>C10orf67</b>	1. 867863318	1. 870286387	0. 001870311	0. 396535234
<b>C10orf68</b>	2. 246736801	2. 256507338	0. 006260343	0. 524300006
<b>C10orf72</b>	2. 926397119	2. 848821549	-0. 038760306	0. 311863353
<b>C10orf75</b>	3. 670800232	3. 724088373	0. 020792705	0. 297243471
<b>C10orf76</b>	5. 950966073	5. 96091612	0. 002410179	0. 771489196
<b>C10orf78</b>	5. 318554364	5. 34440012	0. 006993862	0. 834429012
<b>C10orf79</b>	2. 440030722	2. 490341014	0. 029443998	0. 311863122
<b>C10orf81</b>	2. 084251364	2. 189267761	0. 070919136	0. 044921071
<b>C10orf82</b>	2. 46798749	2. 367829528	-0. 059769864	0. 119636603
<b>C10orf84</b>	6. 571609728	6. 614368444	0. 009356606	0. 414841884
<b>C10orf88</b>	3. 308647623	3. 327971275	0. 008401331	0. 706427865
<b>C10orf91</b>	2. 144318139	2. 128728732	-0. 010526849	0. 680456436
<b>C10orf92</b>	2. 105455967	2. 026600627	-0. 055070892	0. 249300891
<b>C10orf93</b>	2. 210433079	2. 297717359	0. 055872286	0. 099909832
<b>C10orf95</b>	3. 886815656	3. 970066465	0. 030574475	0. 669869435
<b>C10orf96</b>	1. 985582881	2. 00594919	0. 014722481	0. 909923229
<b>C10orf97</b>	5. 966556351	5. 961993739	-0. 001103648	0. 626234116
<b>C11orf1</b>	3. 864378172	3. 968193789	0. 038246197	0. 043899262
<b>C11orf10</b>	10. 5239801	10. 36074184	-0. 022553121	0. 021843696

C11orf16	2.319422007	2.362508768	0.026554349	0.166830779
C11orf17	8.29579796	8.2889085	-0.001198621	0.56180342
C11orf2	9.338567868	9.447817908	0.016779839	0.103954286
C11orf20	4.648906099	4.742710049	0.028820384	0.221551242
C11orf21	2.813223947	2.651616303	-0.085352375	0.111811385
C11orf24	7.980913503	7.953336754	-0.004993631	0.720835497
C11orf30	6.101963106	6.004561021	-0.023214679	0.012084264
C11orf31	11.58922274	11.55055142	-0.004822084	0.275115348
C11orf35	2.540787046	2.502070486	-0.02215303	0.561804213
C11orf36	2.061900993	2.05511731	-0.004754312	0.894627442
C11orf39	2.270140901	2.19796681	-0.046612243	0.398844855
C11orf40	1.998252887	2.007567479	0.006709307	0.650382236
C11orf41	3.918806609	3.926913718	0.002981521	0.920321953
C11orf42	2.584622848	2.55693043	-0.015540868	0.934024865
C11orf45	2.379840563	2.264226965	-0.071846343	0.026847502
C11orf46	4.517591901	4.503645577	-0.004460654	0.817237391
C11orf47	2.117664258	2.23359919	0.076896446	0.044994736
C11orf48	9.553620887	9.545554063	-0.001218688	0.917036345
C11orf49	7.428436894	7.510655211	0.015880102	0.297563298
C11orf51	5.179435132	5.3693915	0.051963834	0.002716797

<b>C11orf52</b>	3.540036675	3.470573465	-0.028590239	0.246196611
<b>C11orf54</b>	6.572070735	6.452266845	-0.026541903	0.009283735
<b>C11orf57</b>	5.25490902	5.21429912	-0.011192441	0.495073456
<b>C11orf58</b>	8.803517636	8.861302099	0.009438608	0.040475217
<b>C11orf59</b>	7.820929523	7.855981676	0.006451482	0.274818497
<b>C11orf60</b>	5.66058398	5.63817393	-0.005722914	0.964784526
<b>C11orf61</b>	3.136463781	3.0133655	-0.057763231	0.022981316
<b>C11orf63</b>	3.678951185	3.540094394	-0.055506705	0.090213831
<b>C11orf65</b>	3.542676126	3.560954423	0.007424391	0.767798608
<b>C11orf66</b>	2.435788934	2.349647528	-0.051944773	0.174145358
<b>C11orf67</b>	7.884463046	7.847953923	-0.006695936	0.579613319
<b>C11orf68</b>	6.658722742	6.662089845	0.00072934	0.731707018
<b>C11orf70</b>	3.083320477	3.160351303	0.035600087	0.276642309
<b>C11orf71</b>	5.681506662	5.718056345	0.009251272	0.697220398
<b>C11orf73</b>	9.27882745	9.229251986	-0.007728781	0.19920685
<b>C11orf74</b>	6.313045119	6.33920538	0.005965948	0.432829379
<b>C11orf75</b>	7.549362093	7.484248127	-0.012497355	0.600079363
<b>C11orf79</b>	7.400709086	7.461311718	0.011765776	0.053325889
<b>C11orf82</b>	2.238261119	2.190533352	-0.031096173	0.677424997
<b>C11orf83</b>	10.17332719	10.2146092	0.005842419	0.427182729

C11orf84	3.58974751	3.453225711	-0.055937738	0.03401369
C11orf85	2.199723947	2.204490232	0.0031226	0.744720133
C11orf86	2.030223954	1.987616345	-0.030599569	0.416422587
C11orf87	2.538891457	2.624101655	0.047624892	0.287755655
C11orf88	2.119762596	2.204178218	0.056338179	0.223644281
C11orf9	8.137899119	8.150032458	0.002149409	0.810277714
C12orf10	7.449747232	7.488892894	0.00756098	0.328653921
C12orf11	5.78283698	5.855182169	0.017936624	0.505158736
C12orf12	1.823962629	1.840307986	0.012871059	0.27816754
C12orf23	8.266564205	8.174389092	-0.016176918	0.046263843
C12orf24	4.616370722	4.784756261	0.051686349	0.126166161
C12orf26	4.224507762	4.243720204	0.006546291	0.689073458
C12orf27	2.035416503	1.918213028	-0.085561092	0.004216457
C12orf28	2.921324232	2.779811387	-0.071635491	0.167891716
C12orf29	5.282480636	5.255467662	-0.007396424	0.506923746
C12orf30	2.070351437	2.100215873	0.020661942	0.433234159
C12orf32	3.313837483	3.406314472	0.039708779	0.036719913
C12orf33	2.093335642	2.110349451	0.011678263	0.726005842
C12orf34	7.90893102	8.009818092	0.018286767	0.512237648
C12orf35	6.836950715	6.691133754	-0.031102342	0.076128856

<b>C12orf36</b>	2.145601921	2.103236373	-0.028771437	0.55623594
<b>C12orf39</b>	2.594715139	2.64603581	0.028256425	0.245635089
<b>C12orf4</b>	6.534037801	6.566325768	0.007111525	0.64542294
<b>C12orf40</b>	1.884370397	1.858529451	-0.019921024	0.150534066
<b>C12orf41</b>	3.046700099	3.09208769	0.021333738	0.673894954
<b>C12orf42</b>	2.055416583	2.075837873	0.014262948	0.885904221
<b>C12orf43</b>	4.082816596	4.092398662	0.003381931	0.896264481
<b>C12orf44</b>	6.716226543	6.683315444	-0.007086925	0.698751768
<b>C12orf45</b>	6.151262219	6.061024261	-0.02132086	0.132614107
<b>C12orf47</b>	5.076245517	5.028660021	-0.013587829	0.439739972
<b>C12orf48</b>	2.314236748	2.358711599	0.027462569	0.482512628
<b>C12orf49</b>	3.247130702	3.315487669	0.030055633	0.203343532
<b>C12orf5</b>	4.869745947	4.970738063	0.029613572	0.079854905
<b>C12orf50</b>	1.933662788	1.929579035	-0.003050087	0.997247904
<b>C12orf51</b>	5.444393722	5.498695141	0.014317901	0.475230468
<b>C12orf52</b>	5.70987643	5.735331324	0.006417308	0.467163099
<b>C12orf53</b>	5.136060238	5.28372938	0.040894454	0.176562411
<b>C12orf54</b>	2.571344159	2.500568648	-0.040266507	0.198726016
<b>C12orf57</b>	11.05381028	10.98905592	-0.008476309	0.176115435
<b>C12orf59</b>	1.947109066	1.932044873	-0.011205096	0.647900714

C12orf60	4.719157722	4.657679359	-0.018918064	0.822064072
C12orf61	1.99649302	1.997727817	0.000892007	0.76727161
C12orf62	11.94615116	11.95185475	0.000688638	0.822595942
C12orf63	1.935609437	1.961239028	0.018977498	0.512237749
C12orf64	1.99289753	1.991086676	-0.001311506	0.587190464
C12orf65	7.282650927	7.255955246	-0.005298138	0.465895772
C12orf66	2.480565722	2.475365169	-0.003027812	0.817237412
C12orf67	1.855057331	1.89982107	0.034399774	0.301418818
C12orf68	2.675027576	2.758465556	0.044312202	0.216380222
C12orf69	2.950673066	2.711975556	-0.121699904	0.057544003
C12orf72	2.377648589	2.449958711	0.043221932	0.06805353
C12orf73	6.168886185	6.164082782	-0.001123792	0.967534156
C13orf1	3.975747093	4.083338415	0.038523153	0.302388306
C13orf15	9.241133252	8.814345331	-0.068216362	0.018073152
C13orf16	2.295383238	2.232937092	-0.03979244	0.186480799
C13orf18	3.440945742	3.572486486	0.054123411	0.006961231
C13orf23	5.846084523	5.802331387	-0.010837994	0.348498193
C13orf26	1.887236285	1.903496331	0.012376727	0.70847971
C13orf27	5.962332377	5.986090697	0.005737335	0.652867564
C13orf28	1.833701947	1.818693585	-0.011856663	0.919226614

<b>C13orf29</b>	2.287562404	2.362485014	0.046494078	0.113060716
<b>C13orf3</b>	2.19973947	2.289061127	0.057423323	0.211044869
<b>C13orf30</b>	1.92176698	1.906908472	-0.011197817	0.666856508
<b>C13orf31</b>	3.137867702	3.128046049	-0.004522776	0.416422698
<b>C13orf33</b>	5.608238391	5.36612793	-0.063666226	0.331394747
<b>C13orf34</b>	3.099163265	3.122634937	0.010885157	0.632603146
<b>C13orf36</b>	3.701381185	3.790466465	0.034311682	0.602480708
<b>C13orf37</b>	5.508626007	5.615343289	0.027681705	0.206795924
<b>C13orf38</b>	2.426552742	2.306407225	-0.073260956	0.096404962
<b>C13orf39</b>	2.066278682	2.058938852	-0.005133861	0.960935766
<b>C14orf1</b>	4.705892914	4.91617443	0.063067613	0.005297366
<b>C14orf100</b>	7.519006371	7.54709407	0.005379233	0.235953216
<b>C14orf101</b>	5.860168656	5.746955106	-0.028144407	0.043181551
<b>C14orf102</b>	4.132673815	4.140448563	0.002711575	0.481652728
<b>C14orf104</b>	6.150532682	6.191370796	0.0095475	0.514015551
<b>C14orf105</b>	1.873150417	1.891469627	0.014040855	0.886448977
<b>C14orf106</b>	4.679662	4.531259268	-0.046492291	0.228938456
<b>C14orf109</b>	5.995106311	6.048904993	0.012888664	0.489854645
<b>C14orf113</b>	2.958016344	2.85496969	-0.051154595	0.153692535
<b>C14orf115</b>	2.121706656	2.094377099	-0.018703978	0.900632198



C14orf118	2.970998609	2.800400401	-0.085314811	0.001419999
C14orf119	7.255002079	7.155607887	-0.019901695	0.06389121
C14orf126	3.540525079	3.617671408	0.031098039	0.184190898
C14orf128	5.222153265	5.176000817	-0.012806955	0.605367357
C14orf129	7.289419616	7.3703475	0.01592869	0.765165071
C14orf132	7.439503338	7.448888183	0.001818796	0.959836272
C14orf133	6.611843722	6.503301049	-0.023880415	0.007121559
C14orf135	6.193413887	6.209493782	0.0037408	0.760431876
C14orf138	4.451283841	4.337088113	-0.037494745	0.111345821
C14orf139	7.897322874	7.819864718	-0.014220025	0.413658646
C14orf142	4.732554384	4.805068937	0.021938044	0.328996426
C14orf143	3.717505238	3.746783542	0.011317858	0.33139469
C14orf144	2.057549179	2.043736437	-0.009717758	0.847375564
C14orf145	2.554302682	2.483461056	-0.040577369	0.032754106
C14orf147	8.477676695	8.565033331	0.014789912	0.101915843
C14orf148	1.87312594	1.871058423	-0.001593297	0.951043325
C14orf149	3.398474464	3.38650231	-0.005091303	0.568334809
C14orf153	6.273794364	6.149641085	-0.028836031	0.006918066
C14orf156	9.077369788	9.093000155	0.002482047	0.821526978
C14orf159	7.117726993	7.027875585	-0.018327947	0.031808234

C14orf162	5.145533656	5.397592986	0.068995482	0.168317506
C14orf166	10.48143008	10.5060406	0.003383494	0.692122046
C14orf167	3.775091437	3.837097007	0.02350365	0.299165884
C14orf169	5.473864331	5.432278077	-0.011002345	0.989542309
C14orf174	2.664940477	2.56185369	-0.056915225	0.405821755
C14orf177	1.840978192	1.79756043	-0.034432265	0.180122036
C14orf178	2.184637775	2.109476113	-0.050509342	0.085218967
C14orf179	8.615082762	8.6558345	0.006808259	0.225750373
C14orf181	2.494127046	2.495444873	0.000762078	0.757806333
C14orf2	9.393920033	9.473192641	0.01212341	0.096542282
C14orf21	3.163514007	3.204223366	0.018446738	0.634077025
C14orf25	1.842301987	1.868072782	0.0200411	0.44383477
C14orf28	4.098604987	3.951699437	-0.052659733	0.002680129
C14orf37	3.713698318	3.836350894	0.046878061	0.027085792
C14orf39	1.824787974	1.841331197	0.013020302	0.935122019
C14orf4	4.984843543	5.053099204	0.01962028	0.230275341
C14orf43	5.372597046	5.269318317	-0.028003303	0.018073056
C14orf45	4.501603086	4.586342577	0.026905264	0.523401502
C14orf48	1.897435099	1.938143993	0.030625219	0.547015112
C14orf49	2.711952742	2.638718345	-0.039494672	0.221812039

C14orf50	2.061641762	1.996268077	-0.046488194	0.10572776
C14orf53	1.920357225	1.92847043	0.006082318	0.975785211
C14orf56	1.983870417	2.008470465	0.017779452	0.482082443
C14orf65	6.447990079	6.737279415	0.063316609	0.122115972
C14orf68	2.392517106	2.426892479	0.020580953	0.304332802
C14orf73	2.08233202	2.085896782	0.00246765	0.648396589
C14orf79	3.421313007	3.563320085	0.058671985	0.027038036
C14orf80	4.772142517	4.751180479	-0.006351119	0.49463748
C14orf81	2.504759768	2.443405866	-0.035778716	0.438108514
C14orf83	2.091231682	2.066561148	-0.017120851	0.897356164
C14orf91	1.858199954	1.859538937	0.001039204	0.954340045
C14orf93	5.551872437	5.529929275	-0.005713391	0.575371709
C14orf94	4.24137447	4.227328803	-0.004785534	0.969184122
C15orf15	6.637462026	6.537249465	-0.02194795	0.073761288
C15orf17	5.433763384	5.51448293	0.021273873	0.372775696
C15orf2	1.954547225	1.959457169	0.003619595	0.674398918
C15orf21	12.75461505	12.77015577	0.001756766	0.837117268
C15orf23	6.113726007	6.237656042	0.028952104	0.112747293
C15orf24	10.15515723	10.160322	0.000733549	0.882635196
C15orf26	2.570875689	2.573276085	0.001346399	0.886993868

C15orf27	4.605363497	4.929144254	0.098022171	0.063694002
C15orf28	7.274454503	7.17706757	-0.019444564	0.207540974
C15orf29	4.880634119	4.980368951	0.02918402	0.010781952
C15orf31	1.936726868	1.933562324	-0.002359241	0.70694056
C15orf32	1.989717874	2.044215	0.038983057	0.314179471
C15orf33	2.165941331	2.247808204	0.053524777	0.184191055
C15orf34	2.182183801	2.202091408	0.013101734	0.702842041
C15orf37	2.190953987	2.13851193	-0.034951931	0.258778018
C15orf38	4.473862934	4.563290176	0.028553339	0.042053687
C15orf39	5.725333762	5.779280923	0.013530201	0.745242194
C15orf40	4.78148606	4.892986254	0.03325616	0.029109896
C15orf41	4.314202854	4.487537239	0.056829897	0.033493499
C15orf42	2.196880046	2.195165162	-0.001126607	0.773601408
C15orf43	1.850466212	1.842037458	-0.006586395	0.661846766
C15orf44	6.882610457	6.939239866	0.011821778	0.150338183
C15orf45	2.033384728	1.966344225	-0.048367308	0.207540974
C15orf48	3.270228113	3.504430268	0.099788644	0.106773149
C15orf49	1.906437	1.945319951	0.029128601	0.66886452
C15orf5	2.781852974	2.668164606	-0.0601985	0.143798214
C15orf50	2.016032583	1.970385317	-0.033041173	0.895718756

C15orf51	2.606743417	2.620374176	0.007524251	0.567866823
C15orf52	7.571412424	7.634823627	0.012032374	0.529706742
C15orf55	2.020190556	1.99890381	-0.015282334	0.869586103
C15orf56	1.915091483	1.974373268	0.043981455	0.319515714
C15orf57	5.017366669	5.049821683	0.009302071	0.676415649
C15orf59	8.578518656	8.784036803	0.034155555	0.005274759
C15orf60	1.918811351	1.920270317	0.001096535	0.962035319
C15orf61	7.784792166	7.827525683	0.007897814	0.674398918
C15orf62	2.467602093	2.446074282	-0.012641559	0.969734125
C16orf11	5.582197437	5.64418531	0.015932203	0.261698251
C16orf13	9.10159953	9.081752986	-0.003149312	0.280004263
C16orf14	7.812627311	7.805844859	-0.001253005	0.701307004
C16orf3	6.007271722	6.024342901	0.004093968	0.759381231
C16orf35	7.883115371	7.905553535	0.004100593	0.630149851
C16orf42	8.04913449	8.019640697	-0.00529606	0.784714112
C16orf45	9.649637623	9.755622845	0.015759219	0.201632538
C16orf46	1.940256318	1.958575845	0.013557745	0.90281703
C16orf48	7.859963199	7.836730197	-0.004270729	0.482512002
C16orf5	6.19821743	6.328493676	0.030008782	0.25157596
C16orf52	4.153448272	4.167037063	0.004712345	0.889718957

<b>C16orf53</b>	9.595101477	9.557418613	-0.005677055	0.50780549
<b>C16orf54</b>	2.04374996	2.023565845	-0.014318909	0.621841191
<b>C16orf55</b>	4.756644258	4.941474282	0.054997399	0.002973221
<b>C16orf57</b>	7.272797609	7.239802958	-0.006559996	0.45250395
<b>C16orf58</b>	6.042478205	6.017778725	-0.005909305	0.405042676
<b>C16orf59</b>	3.715353397	3.947183789	0.087324252	0.027959043
<b>C16orf61</b>	8.746168291	8.678650535	-0.011180377	0.131903608
<b>C16orf62</b>	5.267904967	5.384562711	0.031599866	0.021884241
<b>C16orf63</b>	7.653116318	7.620949944	-0.006076488	0.348852645
<b>C16orf65</b>	1.822381821	1.847246042	0.019550777	0.722902082
<b>C16orf67</b>	5.420445066	5.405602408	-0.003955911	0.512681698
<b>C16orf68</b>	5.744669344	5.778828415	0.008553179	0.679950625
<b>C16orf7</b>	6.570347132	6.612479739	0.009221802	0.613095352
<b>C16orf70</b>	4.391766172	4.362545211	-0.009631161	0.653862614
<b>C16orf71</b>	2.948489735	3.025509359	0.037201876	0.310874358
<b>C16orf72</b>	7.977658715	7.934443063	-0.007836446	0.602480318
<b>C16orf73</b>	2.698220728	2.752128211	0.028539308	0.339354316
<b>C16orf74</b>	7.156838238	7.235707845	0.015811786	0.672384305
<b>C16orf75</b>	3.257827252	3.291046951	0.014636502	0.854405688
<b>C16orf78</b>	2.212812007	2.205170782	-0.004990499	0.963684783

C16orf79	4.986819735	5.080668739	0.02689835	0.171969554
C16orf80	7.471652344	7.440581085	-0.006012033	0.51624231
C16orf81	8.789987093	8.791514641	0.000250694	0.959836196
C16orf82	2.199819669	2.210812486	0.007191402	0.84575493
C16orf84	4.70754696	4.666425254	-0.0126577	0.481652624
C16orf86	4.035547272	4.135612183	0.035336569	0.024256021
C16orf87	5.158054768	5.176951775	0.005275787	0.699773625
C16orf88	6.37213302	6.291566746	-0.018357057	0.227872258
C16orf89	3.940479113	3.755425965	-0.069394497	0.141542977
C17orf101	6.805515331	6.834150021	0.006057507	0.427185155
C17orf28	3.483634338	3.524144732	0.016679977	0.397303947
C17orf37	9.355637464	9.396321225	0.006260077	0.209285329
C17orf39	3.679373947	3.580861493	-0.039153593	0.093942818
C17orf42	5.521445623	5.504996014	-0.004304523	0.571144278
C17orf45	10.56427856	10.54732749	-0.002316758	0.827970613
C17orf46	2.082620974	2.163247796	0.054798633	0.053071548
C17orf47	1.890010099	1.874111289	-0.012187318	0.770962196
C17orf48	4.582072589	4.636406486	0.017006743	0.586715735
C17orf49	7.824992139	7.880904627	0.010271939	0.289321945
C17orf50	2.427336821	2.47112743	0.025795096	0.289322521

<b>C17orf51</b>	5.165984179	5.31882912	0.042065463	0.308902067
<b>C17orf53</b>	2.171610934	2.226306077	0.035886298	0.226809768
<b>C17orf54</b>	2.406477152	2.476451282	0.041351514	0.175900763
<b>C17orf55</b>	3.927224689	3.705644761	-0.083785557	0.05470263
<b>C17orf56</b>	8.793489086	8.666768261	-0.020941583	0.090870383
<b>C17orf57</b>	1.884556152	1.880930268	-0.002778418	0.644432992
<b>C17orf58</b>	3.622595874	3.736264401	0.044572681	0.204571568
<b>C17orf59</b>	9.232725238	9.30478907	0.011216893	0.388134749
<b>C17orf61</b>	9.34569457	9.321211331	-0.003784437	0.453749274
<b>C17orf62</b>	5.872645762	5.889615775	0.004162902	0.879370765
<b>C17orf63</b>	7.728165728	7.709739514	-0.003443916	0.513125847
<b>C17orf64</b>	2.041590073	1.978900521	-0.044994129	0.62232861
<b>C17orf65</b>	3.536330517	3.574126479	0.015337569	0.355997136
<b>C17orf68</b>	5.106795126	5.034012535	-0.020709373	0.083604468
<b>C17orf70</b>	6.570607457	6.561440986	-0.002014069	0.713104452
<b>C17orf71</b>	4.608789828	4.599743394	-0.002834599	0.998348739
<b>C17orf72</b>	3.088796563	3.079994739	-0.004116967	0.896264543
<b>C17orf74</b>	3.210339934	3.292770458	0.036575875	0.249300553
<b>C17orf75</b>	5.187731583	5.369238838	0.049613746	0.02496063
<b>C17orf76</b>	4.972114464	5.180929225	0.059351366	0.084595253



C17orf77	1.988601881	1.911296725	-0.057202705	0.042053907
C17orf78	1.998453079	1.940265908	-0.042629317	0.34531534
C17orf79	10.2138672	10.19846865	-0.002176665	0.772015275
C17orf80	6.398703682	6.439179282	0.00909716	0.399230559
C17orf81	5.217102795	5.25364807	0.010070701	0.698241437
C17orf85	3.927453517	3.904674528	-0.008391902	0.602480448
C17orf86	3.669248709	3.698286042	0.011372117	0.3953834
C17orf87	2.341320589	2.328250789	-0.008076024	0.986240177
C17orf88	2.989159219	2.986970275	-0.001056864	0.788959676
C17orf89	9.510282113	9.528322852	0.00273416	0.582921467
C17orf90	8.072214331	8.123419183	0.009122611	0.121948688
C17orf91	5.562069503	5.570097486	0.002080805	0.885359438
C17orf95	5.796386702	5.807345599	0.002725046	0.492025627
C17orf96	11.01345748	11.04693809	0.004379101	0.816699584
C17orf97	3.511965	3.652871148	0.056752398	0.057998628
C17orf98	2.068714046	2.027588176	-0.028969583	0.363961548
C17orf99	2.019816795	2.058120225	0.027102819	0.911564169
C18orf1	4.458791331	4.5036725	0.014449237	0.837122765
C18orf10	7.897992444	8.112412239	0.038644979	0.005000513
C18orf12	3.837804086	3.866644951	0.010801231	0.356356746

C18orf15	1.987859974	2.044564507	0.040577445	0.134939427
C18orf16	2.025286285	2.110977028	0.059785024	0.007360764
C18orf18	4.150902715	4.27801931	0.043517875	0.266121943
C18orf19	4.40907202	4.482219704	0.023738324	0.526549399
C18orf2	2.852706689	3.044029606	0.093650972	0.100051945
C18orf21	7.231273099	7.248851197	0.003502711	0.747854104
C18orf22	6.182838649	6.188492106	0.001318567	0.90937632
C18orf23	11.32448219	11.30329785	-0.002701331	0.780472508
C18orf24	1.977428285	1.92245088	-0.040678637	0.022124001
C18orf25	5.007401113	5.021100528	0.003941584	0.784184176
C18orf26	1.84902057	1.82096981	-0.02205427	0.830661299
C18orf32	4.852209046	4.948252063	0.028277286	0.294375252
C18orf33	1.83106747	1.809849345	-0.016815342	0.449603805
C18orf34	2.134398026	2.046218092	-0.060869318	0.193948244
C18orf45	2.766742735	2.691052535	-0.040017946	0.240069019
C18orf49	2.493443159	2.533552169	0.023022221	0.899539988
C18orf54	2.697197225	2.680473254	-0.008973279	0.57914137
C18orf55	6.442002424	6.408259331	-0.007576671	0.729113793
C18orf56	3.068897788	3.306288669	0.107492094	0.092196573
C18orf57	1.910669377	1.852977754	-0.044232595	0.155290296

C18orf8	5.595811709	5.666950838	0.018225268	0.301096289
C19orf12	7.496968742	7.423095915	-0.014286377	0.15349363
C19orf15	1.975622417	1.95577457	-0.014567154	0.719287133
C19orf18	3.907836285	3.99080738	0.030310619	0.053241242
C19orf2	6.484224318	6.560965261	0.016974081	0.237593496
C19orf20	3.916740642	3.939057345	0.00819682	0.812417586
C19orf21	2.061644967	2.065108352	0.002421569	0.621353855
C19orf22	5.875953781	6.026354838	0.036462575	0.014000744
C19orf23	2.302783	2.235454993	-0.042809967	0.111036153
C19orf24	5.164425589	5.123606028	-0.011448349	0.499883546
C19orf25	6.559999344	6.514002261	-0.01015145	0.400775169
C19orf26	2.325619464	2.269245824	-0.035402148	0.418007173
C19orf28	8.405382212	8.402831669	-0.00043784	0.694670007
C19orf29	6.861582788	6.864121465	0.000533676	0.806002259
C19orf30	3.757303331	3.867891831	0.041849858	0.445890632
C19orf31	7.425267954	7.403516866	-0.004232337	0.671880852
C19orf33	3.786292675	3.670472289	-0.044820224	0.373146032
C19orf34	1.934194331	1.951919683	0.013160939	0.578197879
C19orf36	4.779336444	4.965199972	0.055041493	0.009644645
C19orf38	3.648062947	3.518202761	-0.052291993	0.072107502

<b>C19orf39</b>	5.250997377	5.304129077	0.014524409	0.416422754
<b>C19orf40</b>	2.01136906	1.987220155	-0.01742611	0.647900753
<b>C19orf41</b>	2.068888874	2.093626528	0.017147954	0.787897816
<b>C19orf42</b>	7.640667788	7.621058282	-0.003707386	0.640972946
<b>C19orf43</b>	7.342784788	7.324705408	-0.003556579	0.58623989
<b>C19orf44</b>	6.722744272	6.720455669	-0.000491216	0.655356789
<b>C19orf46</b>	4.730036523	4.75852062	0.008661799	0.737423784
<b>C19orf47</b>	3.399907046	3.416143063	0.006873091	0.440557661
<b>C19orf48</b>	5.414159079	5.453609099	0.010474017	0.885359397
<b>C19orf50</b>	9.708230046	9.666085014	-0.006276612	0.34320181
<b>C19orf51</b>	2.131709477	2.133972394	0.001530682	0.94115846
<b>C19orf52</b>	6.942841013	6.912158176	-0.006389903	0.578197426
<b>C19orf53</b>	6.902355245	6.87452881	-0.005827895	0.909923251
<b>C19orf55</b>	3.105550272	3.073286063	-0.015066862	0.380220914
<b>C19orf56</b>	7.548553563	7.463577676	-0.016332871	0.043682515
<b>C19orf57</b>	4.065725775	4.142390021	0.026950483	0.249584521
<b>C19orf59</b>	3.464907993	3.399662528	-0.027425501	0.646909237
<b>C19orf6</b>	8.923188854	8.96778038	0.007191573	0.332424379
<b>C19orf60</b>	9.727867099	9.734461845	0.000977705	0.913751938
<b>C19orf61</b>	4.503930748	4.479609958	-0.007811524	0.878826676

C19orf62	7.660784245	7.632938254	-0.00525357	0.430404421
C19orf63	8.88729196	9.097526739	0.033730503	8.37E-05
C19orf64	2.465543934	2.419407944	-0.027251914	0.872302125
C19orf66	7.606489477	7.585200599	-0.004043445	0.568802011
C19orf67	1.931982311	1.945680141	0.010192673	0.605367314
C19orf68	8.336595464	8.280267162	-0.009781013	0.143608973
C19orf70	8.797582424	8.861713993	0.01047864	0.26111165
C19orf71	2.113336099	2.16102007	0.032190243	0.304332629
C1D	5.997320954	5.84564193	-0.036956722	0.006747813
C1GALT1	4.342086583	4.372587324	0.010098702	0.666354643
C1GALT1C1	7.274498868	7.224934261	-0.009863405	0.39346808
C1QA	8.617566854	8.46411962	-0.025920569	0.552076309
C1QB	9.815846477	9.599792261	-0.032109499	0.178557758
C1QBP	9.894217139	10.01595336	0.017642283	0.107824023
C1QC	4.749910868	4.65865069	-0.027988281	0.488554959
C1QL1	5.284994722	5.416751782	0.035525951	0.202609421
C1QL2	4.998480609	5.242740218	0.068831436	0.193475384
C1QL3	2.07086055	2.150351472	0.054342079	0.223119549
C1QTNF1	4.111242384	4.122523634	0.003953334	0.99889916
C1QTNF2	4.929564252	4.615610782	-0.094938554	0.050660612

<b>C1QTNF3</b>	3.451314834	3.723165246	0.109383565	0.067845456
<b>C1QTNF4</b>	5.329227371	5.376386606	0.012710496	0.705402708
<b>C1QTNF5</b>	8.120317901	8.138045549	0.003146147	0.456248737
<b>C1QTNF6</b>	4.111051682	3.932484444	-0.06406645	0.086604747
<b>BMP5</b>	6.220697424	5.600791183	-0.151445694	0.011803962
<b>C1QTNF9</b>	1.95952296	1.911161092	-0.036053089	0.150730144
<b>C1R</b>	8.628084391	8.504158683	-0.02087177	0.424779033
<b>C1RL</b>	4.859283483	4.82872481	-0.009101353	0.959836287
<b>C1S</b>	9.658475146	9.411524873	-0.037366948	0.195847055
<b>C1orf100</b>	1.925105086	1.877951887	-0.035777099	0.299808356
<b>C1orf101</b>	2.145618808	2.169772577	0.016150047	0.631130927
<b>C1orf102</b>	8.376230285	8.516974662	0.024039951	0.107826208
<b>C1orf103</b>	4.05197098	4.070834056	0.006700571	0.812417629
<b>C1orf104</b>	2.842361205	2.844479169	0.001074613	0.913752635
<b>C1orf105</b>	1.91460953	1.848729563	-0.050515996	0.14398736
<b>C1orf106</b>	2.279383219	2.30070612	0.013433217	0.695180377
<b>C1orf107</b>	3.516795735	3.49423643	-0.009284314	0.520710288
<b>C1orf109</b>	4.974911715	4.962219099	-0.003685487	0.834967655
<b>C1orf110</b>	1.946164874	1.86154931	-0.064130105	0.116392253
<b>C1orf111</b>	2.056981768	1.994246866	-0.044684996	0.184419015

<b>Clorf112</b>	4.357382351	4.386173028	0.009501013	0.846835263
<b>Clorf113</b>	5.668042576	5.604692803	-0.016215295	0.150730241
<b>Clorf114</b>	6.881356457	6.941684958	0.012592913	0.695180446
<b>Clorf115</b>	3.864117642	3.848573317	-0.005815286	0.97908642
<b>Clorf116</b>	2.046068464	2.002424725	-0.03110641	0.361415414
<b>Clorf118</b>	2.19382357	2.177281317	-0.010919683	0.71207586
<b>Clorf122</b>	10.30168917	10.40004475	0.01370882	0.128055001
<b>Clorf123</b>	7.009896987	6.978017746	-0.006575977	0.486824094
<b>Clorf124</b>	3.104401642	3.133781169	0.013589217	0.667358185
<b>Clorf125</b>	2.140922636	2.127257134	-0.009238233	0.959286559
<b>Clorf127</b>	1.922314338	1.89982807	-0.016975401	0.632603106
<b>Clorf128</b>	3.645829046	3.753772831	0.04209443	0.256747199
<b>Clorf129</b>	1.896723993	1.842184028	-0.042092567	0.346727762
<b>Clorf131</b>	3.115068735	3.123559169	0.003926862	0.788428574
<b>Clorf133</b>	5.592797808	5.347763106	-0.064634616	0.059102652
<b>Clorf135</b>	2.065116974	2.080938887	0.011011095	0.871758784
<b>Clorf14</b>	1.942853265	1.909413979	-0.025047018	0.535142665
<b>Clorf144</b>	6.896630881	6.814352613	-0.017315151	0.109345327
<b>Clorf145</b>	2.434087735	2.445092683	0.006507983	0.695690331
<b>Clorf149</b>	6.605120609	6.643174937	0.008288001	0.485960295

<b>Clorf150</b>	1.841377934	1.834524282	-0.005379763	0.803866775
<b>Clorf151</b>	11.06579162	11.0236407	-0.00550589	0.557617646
<b>Clorf152</b>	5.990066795	6.029228599	0.00940134	0.981287422
<b>Clorf156</b>	4.782347993	4.833713979	0.015412995	0.420788182
<b>Clorf157</b>	1.862385225	1.808913754	-0.042027894	0.625256885
<b>Clorf158</b>	4.429669642	4.479331754	0.016084412	0.287755253
<b>Clorf159</b>	4.108860927	4.171533782	0.021839428	0.366884932
<b>Clorf161</b>	2.148119974	2.160233627	0.008112776	0.755707718
<b>Clorf162</b>	7.18477653	7.11613207	-0.013849999	0.919774298
<b>Clorf163</b>	5.997456139	6.09986007	0.024425446	0.015462004
<b>Clorf167</b>	3.193070119	3.220497923	0.012339527	0.843055381
<b>Clorf168</b>	3.470277338	3.48244419	0.005049268	0.949395308
<b>Clorf170</b>	3.966680735	4.219078232	0.088995555	0.049529907
<b>Clorf173</b>	2.231885358	2.202807514	-0.018919489	0.222334294
<b>Clorf174</b>	7.978813258	7.881055669	-0.017785289	0.016457358
<b>Clorf175</b>	5.519741722	5.551217085	0.008203349	0.856571175
<b>Clorf177</b>	2.162885669	2.143508725	-0.012983116	0.639986204
<b>Clorf182</b>	2.630122921	2.675968352	0.024930827	0.250152231
<b>Clorf183</b>	4.190916781	4.255510549	0.022066353	0.088523146
<b>Clorf186</b>	3.056671576	3.047144542	-0.004503614	0.90500284



<b>C1orf187</b>	2.847279179	2.815863303	-0.016006658	0.843055307
<b>C1orf190</b>	4.795780046	4.584182197	-0.065101108	0.175680573
<b>C1orf192</b>	1.906874053	1.923108423	0.012230544	0.486824302
<b>C1orf194</b>	2.179253318	2.246402683	0.043782658	0.13529988
<b>C1orf198</b>	9.621894371	9.63560731	0.002054637	0.955439041
<b>C1orf2</b>	7.449651947	7.418490338	-0.006047395	0.394999886
<b>C1orf201</b>	6.694112523	6.731703514	0.008078835	0.822064052
<b>C1orf203</b>	4.19382598	4.073442366	-0.042018503	0.063891527
<b>C1orf204</b>	2.41594555	2.426625415	0.006363485	0.786836327
<b>C1orf21</b>	5.700336689	5.718161317	0.004504187	0.839818217
<b>C1orf210</b>	1.980165715	1.990933761	0.007824052	0.779416865
<b>C1orf211</b>	2.719814344	2.735119831	0.008095866	0.8452149
<b>C1orf212</b>	7.389520947	7.416302873	0.005219324	0.613579843
<b>C1orf213</b>	6.817378033	6.931583887	0.023968065	0.313848079
<b>C1orf215</b>	2.219362821	2.313549507	0.059962433	0.096681749
<b>C1orf216</b>	4.637423874	4.816454324	0.054647885	0.217664855
<b>C1orf217</b>	2.745843205	2.674108359	-0.038191319	0.211044815
<b>C1orf223</b>	2.108051278	2.202790296	0.063422197	0.032980107
<b>C1orf225</b>	7.619761126	7.935909063	0.058649723	0.157102539
<b>C1orf226</b>	4.777239503	4.779831887	0.000782671	0.797469029

<b>Clorf25</b>	4.270466291	4.233875127	-0.012414887	0.29405732
<b>Clorf26</b>	3.805194781	3.830595739	0.009598475	0.743676334
<b>Clorf27</b>	6.256850066	6.243859852	-0.002998378	0.801732686
<b>Clorf31</b>	7.95278804	7.871921655	-0.014744858	0.122783416
<b>Clorf35</b>	8.449714013	8.360058148	-0.015389536	0.124803538
<b>Clorf38</b>	6.928913033	6.751012415	-0.037525177	0.508691838
<b>Clorf43</b>	7.920691364	7.943176648	0.004089725	0.706940493
<b>Clorf49</b>	1.948036272	1.953446211	0.004000991	0.952691604
<b>Clorf50</b>	7.056904954	6.987536204	-0.014251726	0.26257866
<b>Clorf51</b>	3.92685355	4.035710535	0.039448905	0.0714545
<b>Clorf52</b>	5.665487477	5.59281819	-0.018624663	0.257036248
<b>Clorf53</b>	4.61346643	4.800855085	0.057440229	0.086985664
<b>Clorf54</b>	9.440584132	9.304902331	-0.020885121	0.180570621
<b>Clorf55</b>	3.295298656	3.147293648	-0.066297433	0.009958161
<b>Clorf56</b>	7.211984828	7.103406458	-0.021885323	0.085846693
<b>Clorf57</b>	6.454554801	6.532686085	0.017358725	0.171536498
<b>Clorf58</b>	3.088046887	3.082062028	-0.002798761	0.941707363
<b>Clorf59</b>	5.95085698	5.772917282	-0.043796892	0.006946836
<b>Clorf61</b>	5.867088669	6.238344782	0.088518494	0.002590423
<b>Clorf62</b>	1.892686742	1.92327669	0.023130679	0.268800405

<b>Clorf63</b>	6.870536172	6.820352838	-0.010576314	0.417214187
<b>Clorf64</b>	3.616151616	3.662024239	0.018186173	0.793743142
<b>Clorf65</b>	1.910527702	1.871394423	-0.029857518	0.273305661
<b>Clorf66</b>	7.252218159	7.206289937	-0.009165626	0.157913604
<b>Clorf67</b>	3.298825404	3.377042775	0.03380803	0.249584578
<b>Clorf69</b>	2.613845126	2.622203204	0.004605828	0.629660374
<b>Clorf70</b>	5.428475272	5.591938246	0.042801392	0.103515207
<b>Clorf71</b>	4.840616291	4.850613697	0.002976549	0.826360144
<b>Clorf74</b>	2.526076861	2.492072634	-0.019552419	0.997247904
<b>Clorf77</b>	7.452702444	7.426247204	-0.00513032	0.579140963
<b>Clorf81</b>	1.910341781	1.858435634	-0.039742054	0.265825176
<b>Clorf83</b>	3.529100881	3.533926239	0.001971257	0.916489169
<b>Clorf84</b>	2.366482377	2.331129979	-0.02171473	0.348853278
<b>Clorf85</b>	6.830047914	6.708783007	-0.025844618	0.396151215
<b>Clorf86</b>	5.634720079	5.517145993	-0.030421785	0.080211599
<b>Clorf88</b>	3.365018689	3.561863979	0.082017906	0.002222305
<b>Clorf89</b>	2.623219881	2.647961901	0.013543624	0.551615989
<b>Clorf9</b>	8.951019232	8.967449021	0.002645671	0.724452955
<b>Clorf91</b>	4.914748351	4.838894915	-0.022439939	0.091664189
<b>Clorf92</b>	2.146026364	2.073395	-0.049672811	0.222595807

<b>C1orf93</b>	5.390185311	5.434964725	0.011935799	0.457500879
<b>C1orf94</b>	2.04356794	2.120793641	0.053514041	0.114320891
<b>C1orf95</b>	2.039902086	2.021322725	-0.013200224	0.850618799
<b>C1orf96</b>	5.667701113	5.871279549	0.05091127	0.019002143
<b>C1orf97</b>	5.601335437	5.840954937	0.060433427	0.05736283
<b>C2</b>	6.571723483	6.499891007	-0.015856251	0.503837131
<b>C20orf103</b>	7.752581868	7.896665514	0.026566726	0.454582199
<b>C20orf106</b>	3.112688669	3.089776225	-0.01065893	0.876107107
<b>C20orf107</b>	1.976232377	1.969575634	-0.004867779	0.956538281
<b>C20orf108</b>	7.515535993	7.513257169	-0.000437513	0.935670588
<b>C20orf11</b>	7.092081603	7.120801866	0.005830575	0.509134227
<b>C20orf111</b>	6.575563411	6.483791606	-0.020276791	0.537415477
<b>C20orf112</b>	3.941318609	3.862087873	-0.029297389	0.549313246
<b>C20orf114</b>	1.904969013	1.906487901	0.001149845	0.597683139
<b>C20orf117</b>	2.300148848	2.363524732	0.039212737	0.144936094
<b>C20orf12</b>	3.825545212	3.831271803	0.002158005	0.807604897
<b>C20orf132</b>	4.747506669	4.785152958	0.011395014	0.422382226
<b>C20orf135</b>	2.905041053	3.010498634	0.051443911	0.071998404
<b>C20orf142</b>	5.968782132	6.011976725	0.010402829	0.353486395
<b>C20orf144</b>	3.68462555	3.726819754	0.016427032	0.520263142

<b>C20orf149</b>	11.63897372	11.6315891	-0.000915642	0.781002172
<b>C20orf151</b>	2.09186406	2.150483373	0.039871876	0.18214838
<b>C20orf152</b>	2.015173781	2.014589394	-0.000418433	0.602480578
<b>C20orf165</b>	2.58661455	2.52030219	-0.037468357	0.186941061
<b>C20orf166</b>	1.938096298	1.910780732	-0.020478021	0.960386005
<b>C20orf177</b>	6.997310967	6.962870894	-0.007118335	0.945550684
<b>C20orf181</b>	2.536213073	2.605161944	0.038697102	0.037471643
<b>C20orf185</b>	1.949995444	1.927528782	-0.016718351	0.643938096
<b>C20orf186</b>	2.023881828	2.137839697	0.079028624	0.23486436
<b>C20orf194</b>	5.465264086	5.431443099	-0.008955646	0.465475013
<b>C20orf195</b>	3.496854689	3.410276415	-0.036169167	0.071889441
<b>C20orf196</b>	2.810499079	2.913819944	0.052085388	0.098355238
<b>C20orf197</b>	2.090820113	2.046013028	-0.031253611	0.321532221
<b>C20orf199</b>	9.355040517	9.405675789	0.007787702	0.222856437
<b>C20orf20</b>	5.562131437	5.632757099	0.018203423	0.08930027
<b>C20orf200</b>	2.513670152	2.581537134	0.038435001	0.280313708
<b>C20orf24</b>	9.120665219	9.130069232	0.001486748	0.752562461
<b>C20orf27</b>	3.437878238	3.471920592	0.014215503	0.259943503
<b>C20orf29</b>	6.164338954	6.265350662	0.023449065	0.314179528
<b>C20orf3</b>	9.679982947	9.657177669	-0.003402886	0.306607814

<b>C20orf30</b>	9.096002649	9.061641556	-0.00546025	0.286503556
<b>C20orf39</b>	4.883502709	4.959641106	0.02231943	0.694670733
<b>C20orf4</b>	6.639664384	6.599813563	-0.008685049	0.600079537
<b>C20orf43</b>	7.394495132	7.367038303	-0.005366906	0.502077698
<b>C20orf46</b>	5.321356404	5.438315317	0.031365769	0.412477575
<b>C20orf54</b>	2.640161868	2.570786472	-0.038416598	0.272702273
<b>C20orf56</b>	1.82429406	1.858714451	0.026966852	0.945001538
<b>C20orf59</b>	2.30695957	2.279782373	-0.017096608	0.993945434
<b>C20orf7</b>	5.277985371	5.316107662	0.010382971	0.578197698
<b>C20orf71</b>	1.92708355	1.836228986	-0.069673141	0.066607651
<b>C20orf72</b>	4.883630212	4.870466634	-0.003893962	0.926348511
<b>C20orf74</b>	5.16216696	5.121886775	-0.011301443	0.368719702
<b>C20orf79</b>	1.960208934	1.912009859	-0.035917473	0.452919633
<b>C20orf85</b>	1.996466722	1.972330014	-0.017548058	0.263461569
<b>C20orf94</b>	6.497552841	6.309050775	-0.0424735	0.00786081
<b>C20orf96</b>	4.589187483	4.55860788	-0.009645429	0.427587193
<b>C21orf104</b>	3.754773046	3.784907289	0.011532254	0.335532156
<b>C21orf105</b>	1.920592669	1.908088965	-0.009423137	0.926348538
<b>C21orf109</b>	2.14893751	2.087311923	-0.041977321	0.324233678
<b>C21orf116</b>	1.81916449	1.878222493	0.046091975	0.162637188

C21orf117	1.847925099	1.878980028	0.02404345	0.924156479
C21orf119	5.919219556	5.991139993	0.017423575	0.495509998
C21orf121	2.430964695	2.517915577	0.050700971	0.488554751
C21orf122	5.021346649	5.229942155	0.058720665	0.006272525
C21orf129	2.032663868	2.061651352	0.020428715	0.36177834
C21orf131	1.913615411	1.868846176	-0.034153087	0.403487819
C21orf135	2.30951849	2.373890831	0.039661494	0.406601502
C21orf15	2.56822804	2.48331869	-0.048503891	0.239517419
C21orf2	5.17018802	5.281266415	0.030667174	0.093402859
C21orf29	2.207574199	2.310641563	0.065831551	0.814558902
C21orf30	3.194694874	3.149532479	-0.020540457	0.71619358
C21orf33	9.929165596	9.923168993	-0.000871562	0.958736643
C21orf34	5.870650066	5.690860092	-0.044873552	0.275425883
C21orf41	1.976659669	1.982959148	0.004590459	0.982938262
C21orf45	5.856283106	6.005170563	0.036219925	0.001253457
C21orf49	2.638255073	2.551004359	-0.04851869	0.119145459
C21orf54	1.963000709	1.906096486	-0.042439544	0.247886459
C21orf56	3.359151086	3.32498981	-0.014746767	0.54380592
C21orf57	6.102587166	6.274548	0.040090539	0.029211742
C21orf58	4.88866651	4.908587613	0.005866974	0.89299084

C21orf59	8.602547914	8.729959408	0.021210923	0.027567669
C21orf63	3.34033306	3.387932824	0.02041331	0.331051151
C21orf66	3.781127404	3.708148415	-0.028117474	0.06650547
C21orf67	2.497998675	2.569062007	0.040469	0.105430526
C21orf7	1.971502007	2.095263704	0.08783665	0.122616445
C21orf70	7.341491901	7.33175912	-0.001913882	0.829047505
C21orf71	3.140254795	3.210262669	0.031809724	0.264051178
C21orf74	1.980995795	1.892212387	-0.066151788	0.045068529
C21orf82	2.690033603	2.662133493	-0.015041277	0.716708834
C21orf86	2.532532338	2.430897063	-0.059091887	0.059288316
C21orf87	2.31804345	2.292312535	-0.016103854	0.730669567
C21orf88	3.919951258	3.942682155	0.008341695	0.997247902
C21orf89	2.210609801	2.223903944	0.008650081	0.666354867
C21orf90	2.421262205	2.437892021	0.009874906	0.790553372
C21orf91	3.291135199	3.220207028	-0.03143185	0.036781917
C21orf96	2.52012245	2.463497972	-0.032785551	0.374628794
C21orf99	1.960223921	2.027170859	0.048449225	0.125995112
C22orf13	7.097030404	7.133334155	0.00736107	0.174144844
C22orf15	2.889093967	2.743453923	-0.074623783	0.015817731
C22orf23	2.842521291	2.947639092	0.052388736	0.070269946



C22orf24	2.174903603	2.095266028	-0.053818029	0.216893485
C22orf25	3.631762159	3.619393754	-0.004921658	0.909923251
C22orf26	2.041380086	2.09756593	0.039171334	0.162637439
C22orf27	4.367813702	4.515599472	0.048006203	0.07387274
C22orf28	9.511086007	9.523690838	0.001910706	0.730149265
C22orf29	4.321323881	4.406091352	0.028026043	0.064586788
C22orf30	3.824781887	3.922777056	0.036497866	0.239517251
C22orf31	2.239680013	2.364473993	0.078226647	0.054963885
C22orf32	9.069963113	9.107037373	0.005885121	0.464630672
C22orf33	1.977891523	1.908332035	-0.051651093	0.064089462
C22orf36	6.144593742	6.100004014	-0.010507436	0.621353564
C22orf37	2.122163106	2.071940824	-0.034552744	0.829047786
C22orf39	5.555749245	5.565815268	0.00261154	0.646908923
C22orf40	7.231132868	7.297469275	0.013174546	0.538325861
C22orf9	8.013787404	7.891221986	-0.022235513	0.280928467
C2CD2	5.429661311	5.407041113	-0.006022883	0.803866798
C2CD2L	8.850519576	8.880236845	0.004836003	0.76043171
C2CD3	2.387024311	2.38833488	0.000791878	0.971384262
C2orf12	8.957700828	8.800603697	-0.025525991	0.283088311
C2orf14	3.233016656	3.230269275	-0.001226507	0.898993804

C2orf16	2.028967053	2.019253528	-0.006923378	0.971384279
C2orf18	4.905818616	4.962645359	0.016615467	0.148198013
C2orf19	1.954528477	2.008466958	0.039274123	0.317174091
C2orf21	3.258466921	3.470665908	0.091019147	0.120293868
C2orf24	4.531838331	4.605391338	0.023227358	0.165143573
C2orf27	3.398233543	3.549433387	0.062803734	0.001777931
C2orf28	7.225750152	7.185654859	-0.008027729	0.31817575
C2orf29	4.726811152	4.699793232	-0.00826994	0.399615926
C2orf3	4.519697026	4.656960317	0.043162522	0.058825091
C2orf30	6.623461808	6.750560831	0.027421914	0.016089084
C2orf34	2.135997258	2.160584908	0.016512133	0.307592099
C2orf37	3.473383669	3.364848514	-0.045800223	0.128056912
C2orf39	2.275776245	2.33001662	0.033981527	0.203588935
C2orf40	6.703320053	6.650389162	-0.011437052	0.729632271
C2orf42	4.303315066	4.199280831	-0.035306198	0.154889839
C2orf43	4.214181675	4.212860662	-0.00045231	0.938962966
C2orf44	3.917337258	3.865735113	-0.019130556	0.605849082
C2orf47	6.637520974	6.650575711	0.002834719	0.971934329
C2orf48	1.924044483	1.884511331	-0.029951685	0.876650864
C2orf49	3.264433868	3.256437937	-0.003538084	0.798534329

C2orf50	2.002957954	1.953823768	-0.035831792	0.42638273
C2orf51	2.019511318	2.061616951	0.029770073	0.513571001
C2orf52	2.391436662	2.477266359	0.050871416	0.060412489
C2orf53	1.957094649	1.950244613	-0.005058442	0.286194123
C2orf54	1.873036391	1.81705362	-0.043777937	0.156698686
C2orf55	4.219290318	3.969492331	-0.08804585	0.088523412
C2orf56	6.365534464	6.36972081	0.000948488	0.725488078
C2orf57	1.917816795	1.877520761	-0.030636049	0.321195647
C2orf58	2.040911536	2.022048627	-0.013395958	0.492025782
C2orf60	3.591672166	3.679741268	0.034948658	0.419197507
C2orf61	2.049898325	1.982915908	-0.047928856	0.142479243
C2orf63	3.110177238	3.131772296	0.009982524	0.652867525
C2orf64	7.078261066	7.04636357	-0.006516058	0.398074008
C2orf65	2.21593457	2.267852845	0.033411747	0.235136282
C2orf66	2.046073318	2.02992519	-0.011431283	0.868500139
C2orf67	3.374321636	3.256448915	-0.051297901	0.056375161
C2orf68	5.324434338	5.285641275	-0.010549747	0.584343651
C2orf69	5.367469152	5.512734507	0.038526128	0.013973834
C2orf7	5.97709549	5.967183979	-0.002394333	0.779946217
C2orf70	2.748176338	2.64949043	-0.052759662	0.019500006

C2orf72	4.015121437	4.124069683	0.038625087	0.099059409
C2orf73	2.661050934	2.675815789	0.007982675	0.778887667
C2orf74	6.034507278	5.937614979	-0.023352433	0.264937325
C2orf76	4.817469881	4.717190901	-0.03034766	0.092463402
C2orf77	4.82504043	4.973986613	0.043861593	0.699262816
C2orf78	1.866379391	1.890670324	0.018655541	0.475657253
C2orf79	6.984694119	7.030919585	0.009516457	0.317173687
C2orf80	3.121374695	3.277732901	0.070516744	0.119636515
C2orf83	2.130716854	2.184179085	0.03575226	0.587665504
C3	8.804730192	8.895862007	0.014855614	0.793211071
C3AR1	5.897212583	5.864971141	-0.007909192	0.626234158
C3orf1	9.524953377	9.429444099	-0.01453931	0.021411092
C3orf10	9.563005616	9.561195225	-0.000273145	0.715677126
C3orf14	6.379581934	6.438785887	0.013326791	0.813488037
C3orf15	3.422921947	3.463606204	0.017046517	0.576783932
C3orf16	1.964728709	1.912220254	-0.039081412	0.348853048
C3orf17	6.850781483	6.845429739	-0.001127456	0.949944597
C3orf18	8.881608689	9.000035493	0.019109681	0.296603353
C3orf19	5.080551841	5.009212866	-0.020401288	0.088652344
C3orf20	2.043459762	2.023892894	-0.013880891	0.861447424

C3orf21	3.765430589	3.851411859	0.032572558	0.055577636
C3orf22	2.53628794	2.504145944	-0.018399895	0.589567885
C3orf23	5.497850848	5.506949387	0.002385581	0.899539952
C3orf24	1.968922232	1.945381437	-0.017353073	0.709506561
C3orf25	3.364973523	3.474691232	0.04628963	0.137844247
C3orf26	9.001453556	9.079504254	0.012455541	0.293421742
C3orf27	2.04552753	2.08019343	0.024244732	0.565531415
C3orf30	1.858687728	1.84226893	-0.012800731	0.833890641
C3orf31	7.793520391	7.686195908	-0.020005403	0.007077488
C3orf32	2.870710682	2.759189352	-0.057163473	0.214845954
C3orf33	3.197287179	3.285282148	0.039168946	0.043899262
C3orf34	4.37165904	4.446567549	0.024511217	0.359965654
C3orf35	2.579033517	2.680521077	0.055682957	0.145698793
C3orf36	1.988311338	1.890980732	-0.072409014	0.047331831
C3orf37	5.866650735	5.930921831	0.015719252	0.277556956
C3orf38	3.947112384	3.891731232	-0.020385518	0.189488121
C3orf39	8.959816285	9.062788852	0.016485922	0.073649046
C3orf42	1.982377139	2.015236056	0.023717385	0.67087494
C3orf44	2.098479636	2.158315437	0.040561266	0.146848403
C3orf45	2.325669159	2.301325669	-0.01518072	0.755707718

<b>C3orf46</b>	1.911998834	1.808474042	-0.080308753	0.140983188
<b>C3orf48</b>	2.022221894	2.046943627	0.017530061	0.61697574
<b>C3orf49</b>	1.866457755	1.805341486	-0.048031102	0.185562003
<b>C3orf50</b>	2.112624517	2.145677366	0.022396787	0.383601317
<b>C3orf51</b>	2.666644152	2.757657246	0.048417834	0.050416356
<b>C3orf52</b>	2.220896285	2.223638986	0.00178056	0.824748426
<b>C3orf53</b>	1.866069437	1.912429887	0.035404187	0.548393412
<b>C3orf54</b>	6.126791099	6.088147641	-0.009128316	0.4255808
<b>C3orf55</b>	2.767595689	2.774318366	0.003500155	0.750469317
<b>C3orf57</b>	2.18502451	2.232813697	0.031213417	0.324911316
<b>C3orf58</b>	3.430586801	3.550400789	0.049526523	0.018073194
<b>C3orf59</b>	2.964406589	3.003441486	0.01887322	0.400388849
<b>C3orf60</b>	11.46853307	11.47939694	0.001365983	0.824207191
<b>C3orf62</b>	2.621529411	2.667286246	0.024963928	0.421584762
<b>C3orf63</b>	4.831346728	4.766465148	-0.019505646	0.021725602
<b>C3orf64</b>	1.973216351	1.906920345	-0.049304566	0.100622618
<b>C3orf70</b>	3.128837609	3.279007514	0.067632425	0.085720805
<b>C3orf71</b>	4.431157742	4.47053481	0.012763746	0.766744962
<b>C3orf75</b>	6.665748166	6.690618303	0.005372728	0.345668072
<b>C4B</b>	9.822491801	9.97655393	0.022452512	0.797468391

C4BPA	2.179495026	2.20385262	0.016033837	0.77254537
C4BPB	2.107270073	2.1107195	0.002359642	0.730669567
C4orf10	2.401682185	2.423426993	0.013003369	0.89790206
C4orf12	4.745400662	4.880289486	0.040436826	0.085720768
C4orf14	7.096999901	7.12055269	0.00477994	0.450845362
C4orf15	3.974927331	3.875593282	-0.036511308	0.007892932
C4orf16	3.456766238	3.471305099	0.006055126	0.731188323
C4orf17	1.982387887	2.039372528	0.040886056	0.377978119
C4orf18	6.001499768	5.698417768	-0.07476168	0.144936286
C4orf22	2.408568404	2.51565062	0.062755673	0.308902297
C4orf23	4.331626583	4.374623789	0.014250075	0.335186087
C4orf26	2.007492709	1.9944225	-0.009423684	0.959836277
C4orf27	7.893044788	7.940100993	0.008575422	0.227872147
C4orf29	3.071052252	3.003154246	-0.032254483	0.136023065
C4orf3	9.126669642	9.163650873	0.005833983	0.681467301
C4orf30	3.674895377	3.838928218	0.063000407	0.004800771
C4orf31	6.25537153	6.025173197	-0.054092861	0.017313511
C4orf32	5.131662245	4.974274599	-0.044940067	0.105579101
C4orf33	4.714635113	4.830664852	0.035075645	0.184875824
C4orf34	7.310936503	7.370875901	0.011779847	0.144555941

C4orf35	1.903612093	1.854475197	-0.037728552	0.412084274
C4orf36	1.963148583	1.945180958	-0.013264995	0.827434893
C4orf37	2.052631152	2.093313106	0.028313712	0.799600145
C4orf38	3.848011503	3.790071183	-0.021888167	0.565064813
C4orf39	3.174606523	3.188254824	0.006189155	0.835506375
C4orf41	5.869141377	5.851086592	-0.004444891	0.736383166
C4orf42	5.260922563	5.328804732	0.018496153	0.241729302
C4orf43	6.099212636	6.0719135	-0.006471775	0.494637428
C4orf45	2.257254272	2.366271127	0.068046445	0.177669329
C4orf46	2.042396086	2.010447394	-0.022746091	0.551615846
C4orf47	3.28869053	3.445141852	0.067050131	0.566932421
C4orf48	9.478159278	9.553439585	0.011413344	0.340749795
C4orf49	8.28053743	8.631351275	0.059862031	0.215354679
C4orf6	1.917577066	1.955391838	0.028173176	0.320523018
C4orf8	4.893082914	4.931271528	0.011215964	0.800666172
UBQLNL	2.706950325	2.438430197	-0.150715739	0.000937907
C5AR1	2.886763464	2.713999176	-0.089032618	0.050092544
C5orf13	7.771662788	7.945895789	0.031986569	0.381345714
C5orf15	8.000215934	8.028817704	0.005148617	0.339004623
C5orf17	2.135294291	2.118606599	-0.011319199	0.414053059



C5orf20	2.211277444	2.229959211	0.012137274	0.76411256
C5orf22	3.466994126	3.519743472	0.021784893	0.379846832
C5orf24	8.239225404	8.188955746	-0.00882922	0.267904926
C5orf25	5.367897331	5.291523613	-0.020673894	0.319851078
C5orf26	10.33466858	10.37663027	0.005845893	0.339349362
C5orf27	2.640602397	2.598199493	-0.02335488	0.359965425
C5orf28	4.742966675	4.717524894	-0.007759601	0.638506468
C5orf30	6.119576722	6.239844049	0.028078104	0.502957161
C5orf32	9.598713735	9.602293599	0.000537956	0.992844609
C5orf33	4.633400974	4.601558669	-0.009948916	0.567399483
C5orf34	2.092222669	2.17363	0.055069981	0.257616215
C5orf35	4.542989722	4.584020493	0.012971452	0.589567841
C5orf36	1.837731305	1.831083204	-0.005228497	0.663347826
C5orf37	5.207677079	5.303361549	0.026267114	0.469702782
C5orf38	2.579799768	2.443876599	-0.078087655	0.104248667
C5orf39	5.276308629	4.971094965	-0.085965291	0.173708571
C5orf4	8.389899046	8.358167725	-0.005466741	0.702330081
C5orf40	2.166689974	2.148323007	-0.012281813	0.654360776
C5orf41	7.612982417	7.535927148	-0.014676728	0.13711355
C5orf42	4.807809444	4.799071444	-0.002624426	0.896810268

<b>C5orf43</b>	6.606934212	6.598289507	-0.0018889	0.677929761
<b>C5orf44</b>	6.089048715	6.191909437	0.024167515	0.176783321
<b>C5orf45</b>	8.770405285	8.697941479	-0.01196951	0.110571524
<b>C5orf47</b>	1.928997636	1.928153718	-0.000631303	0.357076709
<b>C5orf50</b>	1.985598325	1.931234451	-0.040050486	0.214845899
<b>C5orf51</b>	6.960164934	6.971689352	0.002386793	0.98348855
<b>C6</b>	2.164011656	2.036679782	-0.0874891	0.10293138
<b>C6orf1</b>	9.472871079	9.529258472	0.008562204	0.261404097
<b>C6orf10</b>	2.009385596	2.010355211	0.000695995	0.898447944
<b>C6orf103</b>	1.952213086	1.891702866	-0.045425034	0.058732772
<b>C6orf105</b>	5.581143987	5.662195662	0.020800737	0.636044185
<b>C6orf106</b>	9.797958894	9.849196993	0.007524867	0.516686211
<b>C6orf108</b>	6.052255086	6.191261641	0.032760634	0.022164201
<b>C6orf112</b>	2.085351338	2.086639894	0.000891178	0.931282612
<b>C6orf114</b>	2.366250795	2.239224577	-0.079603763	0.069524551
<b>C6orf115</b>	7.249944901	7.188063408	-0.012366895	0.267607593
<b>C6orf118</b>	1.992813325	1.921475021	-0.052592351	0.252432543
<b>C6orf120</b>	5.071816483	5.166782148	0.026763511	0.072545353
<b>C6orf124</b>	2.922091583	2.823835613	-0.049345289	0.268800634
<b>C6orf125</b>	8.345775801	8.434842606	0.015314983	0.101194987

C6orf129	7.12426249	7.142209634	0.003629807	0.710020052
C6orf130	8.630267066	8.679822239	0.008260292	0.547014681
C6orf134	2.569434007	2.510095725	-0.033708214	0.434044484
C6orf136	6.472314192	6.551595465	0.017564635	0.25043665
C6orf141	2.199968927	2.084906092	-0.077500744	0.01449214
C6orf142	3.475060603	3.223626514	-0.108353533	0.065288443
C6orf145	4.546955775	4.546548746	-0.000129151	0.908829518
C6orf146	1.957428854	1.905796627	-0.038565698	0.186941114
C6orf15	1.951239013	1.909364106	-0.031298266	0.417214464
C6orf153	8.937572093	8.927585599	-0.001612912	0.888628185
C6orf154	6.317906192	6.536454944	0.049061884	0.099909752
C6orf155	2.563039278	2.545881148	-0.009690518	0.764112642
C6orf159	2.777854954	2.901448542	0.062802072	0.342151369
C6orf162	4.817292013	4.821120359	0.001146068	0.973584629
C6orf165	3.304334272	3.383200423	0.034029006	0.446714449
C6orf167	2.63143651	2.685424739	0.029299703	0.143609164
C6orf168	4.465280166	4.565694979	0.032083783	0.939511826
C6orf170	2.688268159	2.810046141	0.063916763	0.127022938
C6orf173	5.353361636	5.194861599	-0.043359801	0.159954785
C6orf182	4.283404556	4.300386937	0.005708533	0.528352515

<b>C6orf192</b>	6.543840358	6.496856585	-0.010395694	0.592903265
<b>C6orf195</b>	1.894368007	1.911590923	0.013057201	0.395383512
<b>C6orf199</b>	3.584800073	3.660582338	0.030180515	0.594813278
<b>C6orf201</b>	1.882192662	1.866351493	-0.012193594	0.316840107
<b>C6orf203</b>	6.357506351	6.381838373	0.005511073	0.457083266
<b>C6orf204</b>	4.512179954	4.493424965	-0.006009095	0.848456346
<b>C6orf206</b>	3.31845598	3.432844754	0.048892478	0.004394085
<b>C6orf208</b>	2.375355834	2.281324986	-0.058271669	0.179450841
<b>C6orf211</b>	7.249531629	7.242965718	-0.001307243	0.784714512
<b>C6orf218</b>	2.647112722	2.465973394	-0.102262396	0.071454635
<b>C6orf223</b>	2.358713311	2.380010331	0.012967758	0.654360776
<b>C6orf224</b>	2.423937424	2.355282303	-0.041452464	0.301096635
<b>C6orf225</b>	8.963276927	8.981441824	0.002920794	0.555309207
<b>C6orf25</b>	2.578246728	2.471396859	-0.061063632	0.245354497
<b>C6orf26</b>	5.200655921	5.342517958	0.038826261	0.014799872
<b>C6orf27</b>	3.763596013	3.733528514	-0.011572027	0.259068765
<b>C6orf35</b>	4.060375894	4.048008246	-0.004401064	0.935122034
<b>C6orf47</b>	6.809554384	6.831551	0.004652766	0.739505861
<b>C6orf48</b>	11.59445577	11.5932123	-0.000154733	0.858191753
<b>C6orf50</b>	1.899439841	1.882189014	-0.013162505	0.443014095

<b>C6orf52</b>	2.728342358	2.822873261	0.049139669	0.034130365
<b>C6orf54</b>	2.705199722	2.912144007	0.106346589	0.152304793
<b>C6orf57</b>	5.073539623	5.191677359	0.033208115	0.056108179
<b>C6orf58</b>	1.993134192	2.005930113	0.009232497	0.806002259
<b>C6orf62</b>	9.766810974	9.735693218	-0.004603867	0.530609478
<b>C6orf64</b>	5.533061742	5.616907599	0.021698047	0.059288043
<b>C6orf66</b>	6.412542583	6.389209563	-0.005259041	0.377231824
<b>C6orf70</b>	6.276574219	6.342186725	0.015003009	0.106772689
<b>C6orf72</b>	8.410029225	8.462845134	0.009031952	0.294374388
<b>C6orf81</b>	2.245277967	2.272562239	0.017425744	0.727559163
<b>C6orf89</b>	7.950522596	7.891770014	-0.01070078	0.464210392
<b>C6orf91</b>	1.837949556	1.812014754	-0.02050247	0.56739953
<b>C6orf97</b>	2.336631146	2.252841169	-0.052684409	0.488554959
<b>C7</b>	3.407330742	3.443459951	0.015216905	0.467163684
<b>C7orf10</b>	2.420375709	2.356139852	-0.038805836	0.365421472
<b>C7orf11</b>	7.418749132	7.390562662	-0.005491752	0.608259803
<b>C7orf13</b>	3.264203954	3.256428648	-0.003440587	0.90609597
<b>C7orf16</b>	3.470953106	3.640010746	0.068610836	0.253578342
<b>C7orf20</b>	8.119413907	8.147506796	0.004983059	0.722384817
<b>C7orf23</b>	5.008365861	4.914164563	-0.027393784	0.274818898

<b>C7orf25</b>	3.748757397	3.836951049	0.033547896	0.090213831
<b>C7orf26</b>	6.546205517	6.488152542	-0.012851157	0.280928582
<b>C7orf27</b>	8.92995355	8.961717761	0.00512262	0.475227414
<b>C7orf28A</b>	7.908693411	7.961479669	0.009597218	0.407381304
<b>C7orf28B</b>	9.05772704	9.075620394	0.002847203	0.807604289
<b>C7orf29</b>	5.246699166	5.453823303	0.055857888	0.003194046
<b>C7orf30</b>	7.92376551	7.981112521	0.010403677	0.297563068
<b>C7orf31</b>	4.638023219	4.919702887	0.085061148	0.036103233
<b>C7orf33</b>	2.176108609	2.326307746	0.0962914	0.227606221
<b>C7orf34</b>	2.016813132	1.97004643	-0.033847786	0.605367357
<b>C7orf36</b>	5.378602166	5.514677606	0.036045264	0.053241327
<b>C7orf38</b>	3.558732483	3.584646317	0.010467294	0.66485088
<b>C7orf40</b>	7.954523523	7.863201986	-0.016658601	0.016833161
<b>C7orf41</b>	9.338844609	9.356019718	0.00265083	0.941707203
<b>C7orf42</b>	8.782354278	8.819932162	0.006159826	0.630149362
<b>C7orf43</b>	3.828332159	3.871213838	0.016069993	0.367617916
<b>C7orf44</b>	5.33157149	5.412620437	0.021766389	0.257326317
<b>C7orf45</b>	1.934365391	1.979483077	0.033263396	0.39117786
<b>C7orf46</b>	6.584491026	6.603818394	0.00422852	0.691615672
<b>C7orf47</b>	9.823450192	9.890544676	0.009820156	0.067119457

<b>C7orf49</b>	5.711485603	5.701995134	-0.002399243	0.726523418
<b>C7orf50</b>	6.759567748	6.797299338	0.008030663	0.569738257
<b>C7orf51</b>	2.522148609	2.491224965	-0.017797977	0.984038873
<b>C7orf54</b>	3.12076745	3.107396465	-0.006194533	0.598641228
<b>C7orf57</b>	1.846245325	1.867688423	0.01665953	0.771489726
<b>C7orf58</b>	4.09510751	3.792831028	-0.110626227	0.052480949
<b>C7orf60</b>	4.109378265	4.213184704	0.035991029	0.324910854
<b>C7orf61</b>	2.602144192	2.706599246	0.056780382	0.042403422
<b>C7orf62</b>	1.905121543	1.923895014	0.014147032	0.451674468
<b>C7orf63</b>	3.626996536	3.57706457	-0.019999207	0.237045806
<b>C7orf64</b>	3.800614815	3.762891472	-0.014391138	0.39155884
<b>C8A</b>	1.990788834	1.970516507	-0.014766366	0.427587248
<b>C8B</b>	1.934172205	1.966621669	0.024003196	0.243118685
<b>C8G</b>	2.726211404	2.654813359	-0.038287001	0.226015693
<b>C8orf12</b>	2.688906821	2.737947437	0.026074988	0.49681998
<b>C8orf15</b>	3.025592477	2.947184007	-0.037880543	0.510463158
<b>C8orf17</b>	1.913020331	1.91349769	0.000359953	0.618433498
<b>C8orf22</b>	2.289255815	2.468864754	0.10896912	0.106473586
<b>C8orf30A</b>	4.889996384	4.933469465	0.012769181	0.219471999
<b>C8orf31</b>	2.95165045	2.860793225	-0.045106655	0.061746328

<b>C8orf33</b>	6.422657437	6.349360761	-0.016558998	0.176562359
<b>C8orf34</b>	3.153215914	3.023629979	-0.060542362	0.202365093
<b>C8orf37</b>	2.488532066	2.553116042	0.036964134	0.20828835
<b>C8orf38</b>	2.622513901	2.668510486	0.025084261	0.328313147
<b>C8orf39</b>	2.064473318	2.101545958	0.025677234	0.819917995
<b>C8orf4</b>	5.381900669	4.967566817	-0.115576391	0.057725621
<b>C8orf40</b>	5.904598907	5.941754634	0.009049968	0.286817933
<b>C8orf41</b>	3.474533046	3.472517141	-0.000837287	0.686534855
<b>C8orf42</b>	2.686827053	2.676678979	-0.005459337	0.808139349
<b>C8orf44</b>	5.384898384	5.3844625	-0.000116785	0.9636848
<b>C8orf45</b>	2.079897788	2.034169859	-0.032072479	0.730669444
<b>C8orf46</b>	2.824908649	2.914605958	0.045096636	0.074543478
<b>C8orf48</b>	2.863229007	3.040101521	0.086476437	0.094214167
<b>C8orf5</b>	3.535438808	3.73966512	0.081019796	0.046719315
<b>C8orf51</b>	2.89471955	2.995719444	0.049478937	0.155491017
<b>C8orf55</b>	5.152389682	5.161647585	0.002589933	0.850078018
<b>C8orf56</b>	2.61241251	2.729425655	0.063214679	0.139869189
<b>C8orf58</b>	5.884270199	6.029001556	0.035055607	0.086351477
<b>C8orf59</b>	2.716240179	2.607650577	-0.05886049	0.067637841
<b>C8orf6</b>	2.130897	2.154577704	0.01594427	0.556698811



C8orf60	3.238560702	3.13988407	-0.044641492	0.229472689
C8orf66	2.027023596	1.977442415	-0.0357272	0.453750459
C8orf68	2.095899616	2.023894796	-0.050435321	0.313516629
C8orf71	1.963844305	1.906277211	-0.042922624	0.180346511
C8orf73	5.502636709	5.41821469	-0.022305523	0.111500739
C8orf76	6.827900258	6.828136479	4.99E-05	0.935121988
C8orf77	2.064286629	2.092759106	0.01976295	0.296285368
C8orf78	1.850789318	1.8710025	0.015670809	0.413658646
C8orf79	4.74306502	4.813454768	0.021253088	0.595291188
C8orf8	1.974873132	1.992919472	0.01312344	0.453334885
C8orf83	5.879163192	5.802319908	-0.018980984	0.40426494
C9	1.896357775	1.901250613	0.003717538	0.890264099
C9orf100	2.188992881	2.17438881	-0.009657326	0.745242194
C9orf102	4.67191257	4.741729099	0.021399966	0.176783269
C9orf103	6.695539397	6.977570535	0.059524519	0.000229784
C9orf109	2.110570099	2.069623275	-0.028264563	0.255015278
C9orf11	1.949869868	1.950427092	0.000412227	0.903909833
C9orf110	2.377167444	2.299787444	-0.047743001	0.592903397
C9orf114	4.403546344	4.373789718	-0.009781989	0.694161193
C9orf116	4.743024921	4.927762894	0.055125392	0.189255758

C9orf117	2.034012503	2.038732063	0.003343637	0.677425069
C9orf119	6.493070351	6.493367725	6.61E-05	0.829047746
C9orf122	2.639790391	2.64589062	0.003330044	0.775714583
C9orf123	7.926307702	7.890453507	-0.006540752	0.350273899
C9orf125	8.058067742	8.090882028	0.005863053	0.539237358
C9orf126	3.128035384	3.182715732	0.025001475	0.447538644
C9orf127	6.580715656	6.586160493	0.001193182	0.728077239
C9orf128	2.06114853	1.982796901	-0.055911562	0.364690882
C9orf129	3.282725318	3.306744599	0.010517584	0.831199435
C9orf130	3.008006106	3.012779641	0.00228766	0.915394423
C9orf131	2.314951954	2.305954401	-0.005618266	0.944452459
C9orf135	2.436799682	2.53323081	0.055990872	0.226545059
C9orf139	2.599539781	2.587488754	-0.006703641	0.527901761
C9orf140	2.57134649	2.629575049	0.032305646	0.220510028
C9orf142	7.354621742	7.298441563	-0.011062705	0.053581762
C9orf144B	2.02257955	1.978398676	-0.031863267	0.210039155
C9orf150	5.433390026	5.30800069	-0.033684054	0.043611043
C9orf153	1.908626629	1.863688063	-0.034374499	0.605849125
C9orf156	4.565227636	4.556709866	-0.002694285	0.979636644
C9orf16	5.291494523	5.482766514	0.051228784	0.005032764

<b>C9orf163</b>	3.86072147	3.918462986	0.021417394	0.499883444
<b>C9orf167</b>	6.070562364	5.900515063	-0.040989276	0.487689138
<b>C9orf21</b>	3.921413086	3.823850535	-0.036347492	0.439740408
<b>C9orf23</b>	9.037712722	8.97823569	-0.00952573	0.109803852
<b>C9orf24</b>	4.508935695	4.63473412	0.039699643	0.510906505
<b>C9orf25</b>	6.623863642	6.66796419	0.009573382	0.789490729
<b>C9orf27</b>	1.939766033	1.892721873	-0.035420222	0.246758693
<b>C9orf3</b>	6.249474437	6.161235951	-0.020515082	0.118005747
<b>C9orf30</b>	4.580340252	4.60353581	0.007287596	0.662346981
<b>C9orf31</b>	2.088369616	2.101677007	0.009163894	0.862531739
<b>C9orf33</b>	1.962422397	1.996828014	0.025074475	0.670372151
<b>C9orf37</b>	5.299380887	5.320804408	0.005820548	0.859279513
<b>C9orf38</b>	2.656121278	2.64628962	-0.005350057	0.900632186
<b>C9orf4</b>	3.926634079	4.078291035	0.054671572	0.147040516
<b>C9orf40</b>	5.414543013	5.332453338	-0.022040143	0.330365399
<b>C9orf41</b>	2.760071338	2.791446535	0.016307368	0.383977722
<b>C9orf43</b>	2.160983404	2.246366289	0.055905198	0.081289818
<b>C9orf44</b>	2.09838751	1.990091592	-0.076446295	0.065288378
<b>C9orf45</b>	3.438245854	3.653738127	0.087700526	0.130671123
<b>C9orf46</b>	6.477053	6.503221211	0.005816949	0.617461534

C9orf5	7.008785934	7.091598725	0.016946343	0.01921411
C9orf53	2.349483815	2.374789303	0.015455691	0.458754839
C9orf57	1.883145629	1.851874063	-0.024158581	0.090607487
C9orf6	4.990108662	4.984115465	-0.00173374	0.949944592
C9orf61	5.961461868	6.040179056	0.018925167	0.370559884
C9orf62	10.43230129	10.40196335	-0.004201582	0.65286532
C9orf64	3.334637113	3.434603472	0.042613778	0.02152877
C9orf66	2.420044199	2.384402352	-0.021405695	0.772017496
C9orf68	2.345572536	2.263390634	-0.051454519	0.308574244
C9orf69	5.188872391	5.455915275	0.072400185	0.007375955
C9orf7	6.050379305	6.047943739	-0.00058087	0.672887683
C9orf70	2.087928662	2.067166866	-0.01441757	0.599600014
C9orf71	2.122823497	2.092922965	-0.020465212	0.953790542
C9orf72	3.492898775	3.589556035	0.039380586	0.149752477
C9orf75	5.779444603	5.927794408	0.036564554	0.294057896
C9orf78	7.691768272	7.709043387	0.003236548	0.404264436
C9orf79	2.049824007	2.039573697	-0.007232411	0.775186185
C9orf80	4.416770238	4.452417493	0.011597092	0.605367271
C9orf82	3.797448563	3.903402331	0.039701748	0.190420787
C9orf84	1.969761331	1.894074099	-0.056528062	0.128576575

<b>C9orf85</b>	3.438995026	3.43108607	-0.003321712	0.833352172
<b>C9orf86</b>	7.771587265	7.779419796	0.001453276	0.975785174
<b>C9orf89</b>	9.636611815	9.619410162	-0.002577557	0.77782839
<b>C9orf9</b>	7.88910145	7.980787415	0.016670105	0.521158279
<b>C9orf91</b>	6.421054821	6.323178218	-0.022160434	0.349919046
<b>C9orf93</b>	3.20454047	3.268754641	0.0286236	0.488987894
<b>C9orf95</b>	7.639264126	7.499130845	-0.026710277	0.041568218
<b>C9orf97</b>	4.152871954	4.196051246	0.014922908	0.356356918
<b>C9orf98</b>	2.690996066	2.82036112	0.067739615	0.01185026
<b>CA1</b>	3.417973987	3.133337204	-0.125441379	0.130671169
<b>CA10</b>	7.240474185	7.533146345	0.057168373	0.09421397
<b>CA11</b>	5.437203185	5.62590181	0.049219631	0.074431511
<b>CA12</b>	6.011566344	5.759438183	-0.061812854	0.307265081
<b>CA13</b>	4.033903497	3.986918507	-0.016902454	0.452504489
<b>CA14</b>	9.921396649	10.03539579	0.016482386	0.313184486
<b>CA2</b>	8.370510126	8.842529542	0.079143586	0.027373861
<b>GLI2</b>	3.152811093	2.842735021	-0.149359103	0.001716396
<b>CA4</b>	6.933877325	6.506403761	-0.091801959	0.355637813
<b>CA5A</b>	2.378661775	2.408608958	0.018050041	0.598162184
<b>CA5B</b>	4.436422417	4.633695028	0.062766355	0.002263583

CA5BL	2.78152157	2.785722789	0.002177407	0.976885574
CA6	1.877522205	1.881280373	0.002884904	0.946099848
CA7	2.041950854	2.064463521	0.015818783	0.707453522
CA8	3.565969086	3.623926176	0.02325937	0.642455186
CA9	2.565344675	2.753729324	0.102234081	0.024960613
CAB39	6.007230457	6.068888824	0.014732381	0.423579857
CAB39L	4.572229066	4.594084873	0.006879826	0.451260023
CABC1	5.87994494	5.900996817	0.005156034	0.58529195
CABIN1	7.522589755	7.516704831	-0.001129062	0.370190856
CABLES1	8.366069331	8.030114162	-0.059129456	0.023022736
CABLES2	4.266329907	4.360504246	0.031499446	0.436073852
CABP1	4.326342901	4.524171754	0.064505684	0.371666908
CABP2	2.895301338	3.01358519	0.057767339	0.214082067
CABP4	6.216473768	6.313803254	0.022412847	0.555772975
CABP5	8.812021258	9.025092444	0.034468734	0.36615166
BTNL9	3.715143795	3.351012106	-0.148821153	0.006990175
CABYR	4.455040391	4.666013113	0.06675185	0.053156395
CACHD1	2.912958563	2.794831465	-0.059723892	0.059474494
CACNA1A	2.435929861	2.372780007	-0.037894247	0.268800462
CACNA1B	3.876446603	4.000023127	0.045273549	0.265825462

CACNA1C	5.536058093	5.508996972	-0.007069412	0.646909119
CACNA1D	2.759463629	2.731987669	-0.014436898	0.812417542
CACNA1E	8.888727265	8.855881465	-0.005340949	0.668864371
CACNA1F	5.196767828	5.306534211	0.030155313	0.771489859
CACNA1G	4.939519662	5.157684239	0.062352697	0.375743211
CACNA1H	5.363535132	5.452662472	0.023776652	0.274515805
CACNA1I	11.47358064	11.48847054	0.001871051	0.835503397
CACNA1S	2.101168921	2.122021704	0.014247262	0.607777822
CACNA2D1	2.803242907	2.902324169	0.050111905	0.100622699
CACNA2D2	5.496143166	5.560574838	0.016814448	0.564132305
CACNA2D3	4.879192642	4.991122789	0.032721951	0.162222462
CACNA2D4	5.574092576	5.837689225	0.066660446	0.185562265
CACNB1	5.13571651	5.235505472	0.027763263	0.35851961
CACNB2	3.716810265	3.715095937	-0.000665577	0.976885571
CACNB3	4.046621285	4.064266613	0.006277209	0.824748467
CACNB4	2.570585689	2.545462204	-0.01416946	0.531063419
CACNG1	2.001288119	2.044046303	0.030498995	0.403099594
CACNG2	2.885748755	3.110252021	0.108085787	0.045142552
CACNG3	4.287981788	4.452846845	0.054429213	0.15811679
CACNG4	2.290694179	2.297125317	0.0040447	0.777829655

CACNG5	2.287340199	2.30465862	0.01088211	0.350630648
TMEM100	4.244398887	3.832054106	-0.147442316	0.006846691
CACNG7	7.388724126	7.61067312	0.042698794	0.208038954
CACNG8	2.505336483	2.61046057	0.059299988	0.130671031
CACYBP	7.482392675	7.136632915	-0.068256113	0.005754193
CAD	6.757461192	6.7231825	-0.00733701	0.361415185
CADM1	9.246337351	9.474814458	0.035215692	0.321194955
CADM2	4.86370698	5.005849845	0.041558702	0.357437177
CADM3	5.007563219	5.137530542	0.036966336	0.113060845
CADM4	2.917685669	3.099916077	0.087404693	0.008459534
CADPS	5.405009735	5.655502901	0.065358102	0.436886745
CADPS2	3.091891384	3.019372493	-0.03424089	0.355278604
CALB1	5.255765728	5.614871127	0.09535194	0.160365225
CALB2	7.330504556	7.535636092	0.039816794	0.509134076
CALCA	2.818732974	2.841724824	0.011720045	0.932379457
CALCOC01	5.653304331	5.622266028	-0.007942644	0.355996964
CALCOC02	7.327771172	7.282134373	-0.00901309	0.687549677
CALCR	2.267454245	2.292505176	0.015851552	0.410513463
CALCRL	2.994714907	2.798322641	-0.097856355	0.034130386
CALD1	7.442367649	7.17004307	-0.053779875	0.216380003



CALHM1	2.101350192	2.123883324	0.015387905	0.312854766
CALHM2	5.305734596	4.980769585	-0.091183839	0.076128786
CALHM3	1.91225647	1.895287958	-0.012858971	0.841436446
CALM1	8.613824914	8.655328282	0.00693454	0.120952538
CALM2	11.83493858	11.88722136	0.006359306	0.615998974
CALM3	8.162422556	8.103562514	-0.010441109	0.322542978
CALML3	4.880298868	4.934574958	0.015956322	0.24228454
CALML4	4.756632291	4.806921641	0.015172783	0.474377475
CALML5	1.887359457	1.918518627	0.023623555	0.762008685
CALML6	2.217962179	2.205785451	-0.007942293	0.745764342
CALN1	2.840403927	3.067833838	0.111124238	0.028654804
CALR	10.1727047	9.935912007	-0.033979008	0.001268596
CALR3	2.034482543	2.018514782	-0.01136775	0.421983328
CALU	6.268924285	6.105629296	-0.038077906	0.261405519
CALY	5.447442172	5.551948261	0.027415147	0.752563318
CAMK1	3.798699265	3.772154493	-0.010116737	0.553461583
CAMK1D	7.451994576	7.615580204	0.031327331	0.520710686
CAMK1G	2.518227702	2.49150243	-0.015392759	0.657350925
CAMK2A	2.484842563	2.561194113	0.043662152	0.254727529
CAMK2B	6.90034696	7.269976965	0.075281888	0.033666156

CAMK2D	7.257843576	7.26417069	0.001257139	0.864700985
CAMK2G	6.475024801	6.555786444	0.01788314	0.694670526
CAMK2N1	7.707471689	7.800448303	0.017299355	0.348853105
CAMK2N2	4.137304656	4.089304613	-0.016835663	0.48294276
CAMK4	2.646549927	2.748653634	0.054612249	0.054963828
CAMKK1	4.323371914	4.491335331	0.054987492	0.294375482
CAMKK2	7.032817331	7.028641113	-0.000856954	0.999449579
CAMKV	4.865576185	5.051795514	0.054185583	0.380970725
CAMLG	8.204497722	8.324180049	0.020893156	0.006325221
CAMP	3.346129695	3.196176838	-0.066146133	0.291841682
CAMSAP1	4.838701444	4.95552562	0.034418163	0.805468393
CAMSAP1L1	7.032770603	7.07238462	0.008103576	0.267309916
CAMTA1	7.935356113	7.954415676	0.003460988	0.416421476
CAMTA2	4.034580755	4.08613212	0.018317086	0.625256967
CAND1	4.379589185	4.440907592	0.020059003	0.241451907
CAND2	7.338303596	7.417610549	0.015507931	0.120953735
CANT1	3.169825106	3.149072352	-0.009476338	0.531515937
CANX	8.415109762	8.289271458	-0.02173678	0.028106416
CAP1	6.843902325	6.861113345	0.00362353	0.61649003
CAP2	5.873985424	5.911446824	0.009171587	0.292790019

CAPG	8.135404543	8.210543451	0.013263629	0.783123929
CAPN1	5.470786834	5.394679915	-0.020210981	0.151319006
CAPN10	5.813840126	5.779415127	-0.008567899	0.473951214
CAPN11	1.909698974	1.897407296	-0.009315844	0.895718756
CAPN12	2.792000662	2.717962535	-0.038773714	0.190654573
CAPN13	2.253589709	2.216254282	-0.024101462	0.99944958
CAPN14	2.300948821	2.35033931	0.030640154	0.373886759
CAPN2	10.21478426	10.06243257	-0.021679618	0.034954698
CAPN3	6.295915616	6.075688204	-0.05136837	0.068157731
CAPN5	2.408571762	2.429037239	0.012206699	0.696200078
CAPN6	3.59494955	3.47614381	-0.048483756	0.47267512
CAPN7	4.929716285	4.861727232	-0.020035666	0.282779387
CAPN8	2.086765755	2.071434535	-0.010638437	0.930734267
CAPN9	2.137243358	2.140575894	0.002247797	0.82260079
CAPNS1	8.821377954	8.800401634	-0.003434664	0.568333517
CAPNS2	2.302407695	2.256779232	-0.028878024	0.154889789
CAPRIN1	6.933496212	6.93361419	2.45E-05	0.975235003
CAPRIN2	4.935608358	4.919997303	-0.004570396	0.890809293
CAPS	5.245138815	5.121572521	-0.034394113	0.274212998
CAPS2	5.159156768	5.186633007	0.007663006	0.636536216

CAPSL	2.006401225	1.969363845	-0.026880457	0.327972026
CAPZA1	8.146898245	8.071517021	-0.013411039	0.115272987
CAPZA2	5.655761934	5.594049993	-0.015828248	0.362141608
CAPZA3	1.854450629	1.912078725	0.044150065	0.090870575
CAPZB	6.255585669	6.309101275	0.012289549	0.526099136
CARD10	6.692559185	6.389516331	-0.066851265	0.095304503
CARD11	2.56844504	2.46256993	-0.060730509	0.020718965
CARD14	2.176050907	2.145448535	-0.020433014	0.668362322
CARD16	3.527372371	3.270516817	-0.109075251	0.049370069
CARD17	3.547136788	3.28255019	-0.111837896	0.059661126
ALDH1A2	3.583205212	3.239119521	-0.145648966	0.003354424
CARD6	5.655772735	5.494873289	-0.041637937	0.798534352
CARD8	4.127461861	4.082884944	-0.015665971	0.58909178
CARD9	5.521113139	5.585795746	0.016803655	0.779416916
CARHSP1	6.391702205	6.257920845	-0.030516783	0.445890578
CARKD	7.204060377	7.20154938	-0.000502943	0.860363106
CARS	3.608453298	3.589750859	-0.007496863	0.673894917
CARS2	9.524881894	9.371569754	-0.023410482	0.000663026
CARTPT	6.155650364	6.453858754	0.068250714	0.145507831
CASC1	2.967044126	3.174785261	0.09763263	0.026050738

CASC2	1.915052834	1.97471519	0.044260396	0.01861875
CASC3	9.784237172	9.756677437	-0.004069443	0.414838879
CASC4	6.938037364	6.911068092	-0.005618917	0.833352133
CASC5	2.056086947	2.084503204	0.019802316	0.413264622
CASD1	4.685770748	4.717265049	0.009664292	0.58386986
CASK	6.051735371	6.148100106	0.022791753	0.515796658
CASKIN1	11.92508471	11.93960451	0.001755535	0.805998132
CASKIN2	4.409979265	4.344695282	-0.021516876	0.226809934
CASP1	5.590654649	5.293543739	-0.078783377	0.182827466
CASP10	3.331638815	3.108062732	-0.100216382	0.033666177
CASP12	2.450399139	2.396985535	-0.031795562	0.729113886
CASP14	2.006767576	2.021475613	0.010535265	0.832813899
CASP2	3.350392272	3.336592063	-0.005954708	0.453334777
CASP3	8.166656331	8.186076754	0.003426676	0.454582252
CASP4	8.720966901	8.477427627	-0.040861534	0.249582997
CASP5	6.002339735	5.885709648	-0.028308605	0.67087494
CASP6	5.625340397	5.681827204	0.014414558	0.65087893
CASP7	6.289700371	6.085890993	-0.047522798	0.064288095
CASP8	4.580198576	4.608263704	0.008813128	0.512237548
CASP8AP2	5.476663086	5.430034577	-0.012335746	0.515350906

CASP9	6.456898722	6.29448043	-0.036754101	0.000776752
CASQ1	4.769656642	4.738222923	-0.009539338	0.70591517
CASQ2	2.457037325	2.414561993	-0.025158269	0.638999741
CASR	1.987398616	2.050840275	0.04533387	0.106773023
CASS4	2.138911616	2.065259866	-0.050553545	0.1951348
CAST	8.596191821	8.473474352	-0.020744042	0.247885669
CASZ1	2.483760444	2.562378246	0.044957422	0.092063274
CAT	7.017982384	6.844730423	-0.036062604	0.2800065
CATR1	1.873425881	1.893885958	0.015670559	0.798001596
CATSPER1	2.320227457	2.365514803	0.027887946	0.646413752
CATSPER2	6.261231146	6.263551246	0.000534492	0.929637627
CATSPER3	3.278420397	3.347269951	0.029984041	0.487689294
CATSPER4	1.904800927	1.971104113	0.049363753	0.251861168
CATSPERB	1.924198603	1.860653592	-0.048448226	0.288694752
CAV1	6.578518881	6.504654838	-0.016290301	0.434855466
CAV2	3.598160748	3.658338676	0.023929	0.174801922
CAV3	2.096866887	2.045544528	-0.035750337	0.120953868
CBARA1	5.185754868	5.195230303	0.002633694	0.785244773
CBFA2T2	4.371746762	4.329714127	-0.013938061	0.40855436
CBFA2T3	4.75244249	4.752245599	-5.98E-05	0.977435774

<b>CBFB</b>	5.884965589	5.737073141	-0.036719069	0.080689529
<b>CBL</b>	6.884227066	6.815157592	-0.014547666	0.14116939
<b>CBLB</b>	5.901131338	5.866203585	-0.008564428	0.55023365
<b>CBLC</b>	1.938863728	1.937290211	-0.001171319	0.994495837
<b>CBLL1</b>	5.038542119	5.104364289	0.018724939	0.426382344
<b>CBLN1</b>	2.808160715	2.966600873	0.079185334	0.173272705
<b>CBLN2</b>	3.918960768	4.024131141	0.038206191	0.624768433
<b>CBLN3</b>	2.27153157	2.190876479	-0.052157208	0.02310613
<b>CBLN4</b>	1.926661397	1.895371366	-0.023622498	0.522503689
<b>CBR1</b>	7.574278675	7.529431134	-0.008567632	0.708993103
<b>CBR3</b>	3.779557861	3.727069542	-0.020175737	0.583396472
<b>CBR4</b>	4.741439543	4.682059986	-0.018181722	0.492460576
<b>CBS</b>	8.561637126	8.533023986	-0.004829587	0.560408908
<b>CBWD2</b>	6.187598391	6.341200359	0.035376401	0.022733461
<b>CBWD5</b>	6.844068351	6.93485343	0.019011223	0.097654831
<b>CBWD6</b>	2.009604967	1.971318669	-0.027750924	0.255015221
<b>CBX1</b>	8.493252503	8.516849211	0.004002666	0.820454
<b>CBX2</b>	1.907828974	1.926301746	0.013901865	0.9482967
<b>CBX3</b>	9.878937219	9.81112293	-0.009937575	0.434447509
<b>CBX4</b>	4.315218305	4.437278458	0.040241545	0.158320472

CBX5	6.214977371	6.300714683	0.019766343	0.03051272
CBX6	5.99396406	5.971117472	-0.005509482	0.731188323
CBX7	10.22217662	10.22176092	-5.87E-05	0.741588396
CBX8	3.13578451	3.263961761	0.057797734	0.017838949
CBY1	4.788404993	4.691645007	-0.029451322	0.053753218
CBY3	2.073817609	1.989903725	-0.059590383	0.181696627
CC2D1A	6.650902278	6.653474796	0.000557915	0.946099848
CC2D1B	5.066362642	4.985196796	-0.023299889	0.253864903
CC2D2A	4.948694967	4.962346866	0.003974464	0.931282637
CC2D2B	3.625886775	3.652841648	0.010685339	0.609225989
CCAR1	7.185207351	7.100263894	-0.017157145	0.075106597
CCBE1	2.127291033	2.023525042	-0.072146718	0.11384702
CCBL1	6.011814974	6.073927366	0.014829049	0.29026506
CCBL2	4.861564642	4.96937169	0.03164275	0.008006765
CCBP2	2.004245868	2.006369577	0.001527878	0.878826647
CCDC101	4.238237755	4.236385394	-0.000630681	0.825285515
CCDC102A	5.534260762	5.310956521	-0.059418903	0.152304646
CCDC102B	3.286986146	3.191641204	-0.042466899	0.339005603
CCDC103	6.145254974	6.198942183	0.012549177	0.959286578
CCDC104	9.330435795	9.425643634	0.01464667	0.228670811



CCDC105	1.850583642	1.969779444	0.090053756	0.024474342
CCDC106	3.487751834	3.536318275	0.019950735	0.279392713
CCDC107	8.034903444	8.13499038	0.017859953	0.161601121
CCDC108	6.352138927	6.404556958	0.011856308	0.410905427
CCDC109A	2.487733417	2.529079211	0.023780327	0.757806249
CCDC109B	5.185643834	5.201282894	0.004344386	0.899539952
CCDC11	3.501429669	3.479037401	-0.00925592	0.985139508
CCDC110	2.870439987	2.934803845	0.031992187	0.400775562
CCDC111	3.807015609	3.694416458	-0.04331398	0.034013733
CCDC112	3.89183098	3.974749669	0.030414946	0.414447305
CCDC113	3.33862255	3.507874268	0.071344041	0.13493952
CCDC114	2.049075212	2.078892	0.020841871	0.699262714
CCDC115	7.255456079	7.280098592	0.004891683	0.562269283
CCDC116	2.427426728	2.386164021	-0.024734534	0.40309993
CCDC117	5.876624252	5.721111563	-0.038692178	0.138210484
CCDC12	8.846812656	8.860591141	0.00224518	0.635551186
CCDC120	4.874841576	4.816747648	-0.017295992	0.070591355
CCDC121	4.607703762	4.637132894	0.009185107	0.602961443
CCDC122	3.340189781	3.375107275	0.015003282	0.953790526
CCDC123	4.430296623	4.413849275	-0.00536593	0.76990692

CCDC124	7.325289212	7.317385085	-0.001557536	0.762534407
CCDC125	6.208475616	6.234338993	0.005997521	0.373146146
CCDC126	4.490052781	4.513953824	0.007659256	0.51847376
CCDC127	7.904290576	7.95304631	0.008871588	0.393085861
CCDC13	2.161572026	2.259349789	0.063826734	0.083481468
CCDC130	10.69365069	10.63956793	-0.007314892	0.092459476
CCDC132	2.564601868	2.57011931	0.003100456	0.519815349
CCDC134	3.208356649	3.167000275	-0.018717532	0.67692005
CCDC135	2.055136344	2.063399866	0.005789318	0.798001596
CCDC136	6.761772424	6.674475232	-0.018747049	0.399616375
CCDC137	7.66623094	7.638053739	-0.005312389	0.940609516
CCDC138	2.127180934	2.147749268	0.013882829	0.566465265
CCDC14	7.292325583	7.219118542	-0.014556281	0.130846394
CCDC140	2.460304272	2.390442451	-0.041559074	0.638013955
CCDC141	1.993752834	2.034432127	0.02913958	0.25790634
CCDC142	4.884091834	4.686259901	-0.059653359	0.000322917
CCDC144A	5.044405371	4.985266282	-0.01701365	0.65934777
CCDC144B	3.542157748	3.481728535	-0.024824741	0.323218775
CCDC146	5.690332159	5.61420838	-0.019430256	0.29152576
CCDC148	3.044633497	3.194812845	0.069462848	0.158931963

CCDC149	2.814623583	2.838965937	0.012423544	0.809208342
CCDC15	2.621917781	2.682763415	0.033097387	0.067949362
CCDC150	2.209867616	2.15834	-0.034037798	0.158931715
CCDC151	5.200119954	5.271430817	0.019649701	0.250720617
CCDC153	3.802558987	3.726838831	-0.029018197	0.155490771
CCDC155	4.447601934	4.628836085	0.057621804	0.614064587
C1QTNF7	3.199348391	2.893067415	-0.14517816	0.016426601
CCDC19	2.438091007	2.481207486	0.025290404	0.215612023
CCDC21	3.255967457	3.409349035	0.066410024	0.09905953
CCDC22	6.741615649	6.733293669	-0.001781991	0.73534309
CCDC23	6.629440576	6.544295394	-0.018649264	0.117843406
CCDC24	7.07090606	7.228865486	0.031874153	0.098495503
CCDC25	6.527765298	6.612915718	0.018697328	0.179898236
CCDC26	2.060957219	2.062365676	0.000985601	0.609708868
CCDC27	2.039359689	1.968725232	-0.050854477	0.305633909
CCDC28A	9.179030457	9.134422415	-0.007028268	0.25157449
CCDC28B	5.074114801	5.275635254	0.056188662	0.083235723
CCDC3	8.777263563	8.683922197	-0.015424429	0.66485073
CCDC34	3.902520689	4.013373789	0.040409248	0.280928812
CCDC36	2.065664947	2.089986134	0.016887104	0.32968051

CCDC37	1.990813079	2.002172676	0.008208633	0.362141608
CCDC38	2.088918907	1.960134817	-0.091803602	0.062228433
CCDC39	2.444378318	2.44935762	0.002935842	0.867957227
CCDC40	2.649939503	2.60227238	-0.026187447	0.219213288
CCDC41	4.496042523	4.428298021	-0.021903363	0.181245705
CCDC42	1.981691457	2.000341641	0.013514064	0.913752584
CCDC43	5.38929055	5.419264035	0.008001571	0.648892699
CCDC44	4.782345861	4.781958451	-0.000116875	0.8108125
CCDC45	7.908126834	7.850366901	-0.010575927	0.194659498
CCDC46	3.851344874	3.91773788	0.024658559	0.6053674
CCDC47	7.710970695	7.829275521	0.021966329	0.059660822
CCDC48	4.016491185	3.821195585	-0.071911608	0.337961362
CCDC49	4.586386106	4.542010303	-0.014026835	0.172186056
CCDC5	5.583608523	5.578391254	-0.00134867	0.792679531
CCDC50	7.269289629	7.154008169	-0.023062622	0.312192901
CCDC51	7.426630556	7.508069394	0.015734172	0.226015527
CCDC52	3.768028947	3.688410063	-0.03081099	0.191122462
CCDC53	7.660860152	7.66285412	0.000375456	0.817773265
CCDC54	1.902347656	1.893087444	-0.007039872	0.618433749
CCDC55	6.060201563	6.041941944	-0.004353457	0.5796135

CCDC56	9.670614623	9.6980365	0.004085099	0.565996117
CCDC57	4.211088987	4.249558739	0.013119682	0.611643064
CCDC58	4.191152291	4.223658845	0.011146365	0.863616313
CCDC59	7.172827397	7.070441746	-0.020741561	0.034071921
CCDC6	8.069738252	8.023257408	-0.008333796	0.380594882
CCDC60	2.127685172	2.154856394	0.018307032	0.50957707
CCDC61	4.849012391	4.785058282	-0.019154444	0.359965826
CCDC62	2.050088252	2.004937634	-0.032128655	0.077509102
CCDC63	1.919838371	1.901837162	-0.013591131	0.324911085
CCDC64B	3.11862157	3.218538303	0.045497139	0.279699521
CCDC65	2.446369477	2.56317193	0.067287942	0.174582914
CCDC66	3.05074696	3.10645012	0.026104366	0.280313823
CCDC67	1.944446656	1.973609873	0.021477182	0.58386995
CCDC68	2.717913669	2.638484204	-0.042790285	0.557625446
CCDC69	2.87286547	2.860733507	-0.006105327	0.889173842
CCDC7	2.723238768	2.843890718	0.062542547	0.057092049
CCDC70	1.93354102	1.893602951	-0.030111512	0.215612078
CCDC71	4.003915695	4.103434768	0.035420421	0.109040529
CCDC72	11.31328697	11.37123763	0.007371132	0.348139255
CCDC73	2.010027583	2.051669042	0.029582727	0.733264882

CCDC74B	5.047921397	5.173897254	0.035561958	0.031863155
CCDC75	6.56186504	6.666238627	0.02276704	0.335532213
CCDC76	4.188221854	4.116057986	-0.025074559	0.21382762
CCDC77	5.811455179	5.76579588	-0.011379694	0.27209934
CCDC78	2.849955265	2.845419176	-0.002298073	0.925252478
CCDC79	1.985409563	2.007677155	0.016090649	0.710020085
CCDC8	5.345282377	5.196727197	-0.040662837	0.141169579
CCDC80	5.227646914	5.236471225	0.002433228	0.929637643
CCDC81	2.278449894	2.344354	0.04113779	0.201146674
CCDC82	4.756631344	4.80280312	0.013936454	0.484234667
CCDC83	1.939028278	1.860801951	-0.059409329	0.054789533
CCDC84	7.448713616	7.394763521	-0.010487284	0.280006213
CCDC85A	4.80991145	4.815213528	0.001589441	0.860905372
CCDC85B	8.840712834	8.939132197	0.015972083	0.030778413
CCDC86	7.478437788	7.647405042	0.032233359	0.028057486
CCDC87	3.721636921	3.954044345	0.087391737	0.088652572
CCDC88A	6.317122371	6.449298972	0.029874831	0.027909774
CCDC88B	7.182624974	7.157372458	-0.005081133	0.826360123
CCDC88C	2.758187748	2.690985465	-0.035586065	0.063693907
CCDC89	2.311306914	2.269076176	-0.026603802	0.492025627

CCDC9	4.246489338	4.379598824	0.044528096	0.044994787
CCDC90A	6.374056172	6.482151768	0.024261066	0.354561102
CCDC90B	7.325272046	7.272349542	-0.010460796	0.224695729
CCDC91	7.240143874	7.291502437	0.010197751	0.595290661
CCDC92	7.586512185	7.577659669	-0.001684429	0.963684748
CCDC93	4.266627808	4.195474521	-0.024262272	0.091266959
CCDC94	5.221834583	5.259162218	0.010276241	0.380970611
CCDC96	6.425352755	6.666036648	0.053053588	0.023781685
CCDC97	9.100067159	9.127443	0.004333562	0.576782705
CCDC99	3.689319815	3.727584493	0.014886198	0.331394228
CCHCR1	5.085919126	5.031827014	-0.015426195	0.438923971
CCIN	2.672056556	2.594265831	-0.042624226	0.277556842
CCK	4.966471278	5.323391176	0.100124415	0.095991208
CCKAR	1.925597099	1.926719866	0.000840954	0.92306076
CCKBR	2.115526384	2.10177762	-0.009406647	0.637028649
CCL1	2.007229616	1.977001063	-0.021892015	0.411690917
CCL11	1.925891013	1.885479479	-0.030594614	0.140983046
CCL13	3.489471258	3.397438599	-0.038560971	0.406601502
CCL15	4.780055742	4.717004768	-0.019156383	0.785775233
CCL16	2.253996411	2.092652035	-0.107152777	0.020231058

CCL17	2.565968331	2.735261099	0.092175189	0.201877082
CCL18	3.285604205	3.255574359	-0.013246608	0.726005811
CCL19	8.374394556	8.09896862	-0.048246695	0.488987842
CCL2	7.648825967	7.932323085	0.052505117	0.370928741
CCL20	1.999093907	2.151467465	0.105974779	0.453750621
CCL21	2.522750205	2.493658528	-0.016733441	0.804400503
CCL22	1.847246119	1.785692641	-0.048892317	0.216123919
CCL23	4.456130748	4.281509099	-0.057672172	0.563666539
CCL24	5.388943762	5.388874352	-1.86E-05	0.658848121
CCL25	2.138941907	2.214746176	0.050244066	0.06468666
CCL26	7.00752551	6.634224113	-0.078977342	0.274516034
CCL27	3.746867331	3.787473852	0.015551033	0.640973384
CCL28	3.507223146	3.434778859	-0.030112007	0.299808529
CCL3	5.413250384	5.352822437	-0.016195323	0.670372262
CCL3L3	3.850477503	3.849222261	-0.00047039	0.57490121
CCL4	5.444892954	5.315506437	-0.034696534	0.474377949
CCL5	4.802104179	4.446463873	-0.111008238	0.09047623
CCL7	2.046021437	2.08790219	0.029232868	0.44630189
CCL8	3.058597781	3.359280894	0.135282036	0.151910011
CCM2	8.155843715	8.100916415	-0.009749008	0.155891717



CCNA1	2.330474927	2.375413838	0.027554886	0.376859615
CCNA2	2.623478556	2.568107148	-0.030775601	0.810277825
CCNB1	4.285295464	4.377251232	0.030630511	0.21180119
CCNB1IP1	7.359498311	7.365593528	0.001194361	0.703865656
CCNB2	2.54072451	2.547948592	0.004096217	0.543348319
CCNB3	2.588091881	2.70093612	0.061570683	0.047409024
CCNC	4.779387444	4.878894803	0.029728651	0.069949807
CCND1	4.955680331	4.824766268	-0.038624075	0.256168987
CCND2	6.507224179	6.537374979	0.006669195	0.751515845
CCND3	5.440336815	5.328698437	-0.029912782	0.047024589
CCNDBP1	9.18358553	9.10835362	-0.011867229	0.048813608
CCNE1	6.318166053	6.345893894	0.006317545	0.971384252
CCNE2	1.979134377	1.93587912	-0.0318807	0.242006977
CCNF	2.27975845	2.322540197	0.026822593	0.45001728
CCNG1	5.755139848	5.73273162	-0.005628245	0.639492773
CCNG2	6.285690205	6.392221944	0.024246331	0.379472579
CCNH	7.230338868	7.423970113	0.038127638	0.005434296
CCNI	12.29983256	12.29742728	-0.000282152	0.78524045
CCNJ	4.295034834	4.371407761	0.025428125	0.206795708
CCNJL	2.74720506	2.769287275	0.011550119	0.221030085

CCNK	4.803417238	4.760861169	-0.012838571	0.153692486
CCNL1	7.414763113	7.36062362	-0.0105726	0.393468475
CCNL2	6.269463709	6.256084472	-0.003082047	0.759906595
CCNO	4.473655338	4.506164775	0.010445957	0.705915236
CCNT1	2.446902934	2.470222894	0.013684353	0.689073283
CCNT2	2.649277106	2.592403303	-0.031308576	0.312193536
CCNY	5.47214906	5.488257493	0.004240641	0.952142151
CCNYL1	3.056373921	3.030941894	-0.012054861	0.459591882
CCPG1	5.203383219	5.142805148	-0.016894469	0.224169288
CCR1	4.771409801	4.67833631	-0.028420024	0.674902919
CCR10	4.122120854	4.285547873	0.05609285	0.007812679
CCR2	2.879895603	2.878860261	-0.000518752	0.569270687
CCR3	2.475672722	2.630626014	0.087585554	0.088523336
CCR4	1.969336007	1.967950394	-0.001015428	0.697220501
CCR5	4.536610066	4.437353183	-0.031915275	0.614549415
CCR6	2.197669596	2.098538873	-0.066589316	0.021804819
CCR7	3.907263728	3.674745049	-0.088514476	0.168744106
CCR8	1.920310695	1.924682218	0.003280514	0.776771925
CCR9	1.980205907	1.941901401	-0.028180503	0.244514686
CCRK	7.592343477	7.642684599	0.009534233	0.425580745

CCRL1	2.635391834	2.577529676	-0.032028442	0.434449921
CCRL2	3.507597503	3.428684768	-0.032827939	0.717224217
PABPC4L	4.187297457	3.788219394	-0.144499521	0.014884844
CCS	8.225944344	8.138211923	-0.015469461	0.036225418
CCT2	10.26856674	10.20267782	-0.009286973	0.386239997
CCT3	10.60913458	10.55559756	-0.007298724	0.457081441
CCT4	11.66116856	11.55573761	-0.013103017	0.253855389
CCT5	8.978811358	8.852262824	-0.020478184	0.171968838
CCT6A	8.202461185	8.130454331	-0.012720889	0.278167196
LM07	4.131665371	3.745888627	-0.141415407	0.004490328
CCT6P1	5.436839311	5.357217866	-0.021284221	0.146272541
CCT7	10.31227259	10.2733668	-0.005453244	0.518917118
CCT8	8.109640444	8.083376535	-0.004679899	0.907735805
CCT8L2	1.910325801	1.959593866	0.036735974	0.367618202
CD109	3.019211397	3.054374317	0.016705103	0.741590208
CD14	7.248836781	7.243104824	-0.00114125	0.99449584
CD151	5.279774046	5.38736007	0.029102303	0.337961247
CD160	2.007298503	1.976729042	-0.022140045	0.468855587
CD163	9.819709662	9.680792768	-0.020555173	0.598640095
CD8A	4.411530517	4.000031303	-0.141267975	0.008493994

CD164	7.045340834	6.955329676	-0.018550603	0.494637377
CD177	2.944397318	2.767032211	-0.089632924	0.035134859
CD180	1.911914311	2.002710901	0.066936312	0.02421258
CD19	4.375524325	4.230590204	-0.048596961	0.173708622
CD1A	1.977755907	1.976710486	-0.000762795	0.685520246
CD1B	2.057617808	2.041361599	-0.011443276	0.626723102
CD1C	2.53028198	2.413402444	-0.068229661	0.119964795
CD1D	3.812531093	3.760270415	-0.019912688	0.643443872
CD1E	1.936257894	1.945781796	0.007078811	0.550233508
CD2	5.400820748	5.030691838	-0.102421848	0.172837555
CD200	5.639761073	5.709925634	0.017837912	0.391940441
CD200R1	2.081634225	2.029690394	-0.03645691	0.239517139
CD207	1.921377185	1.896118592	-0.019091563	0.443834662
CD209	4.29376649	4.031341408	-0.090983766	0.07454379
CD22	2.100226106	2.106954683	0.004614631	0.394233702
CD226	2.353077748	2.297208887	-0.034666941	0.600559668
CD24	3.429134318	3.600198225	0.070231928	0.306938467
CD244	2.487736887	2.35966588	-0.076251315	0.018006034
CD247	3.540957033	3.32698388	-0.089924462	0.062422382
CD248	7.053794258	6.844647613	-0.043423228	0.33139469

CD27	4.075702834	3.992691056	-0.029687422	0.300130253
CD274	2.329835834	2.377752908	0.029370498	0.803866821
CD276	3.364579053	3.368378556	0.001628267	0.968634104
CD28	2.553190576	2.487843782	-0.03740533	0.885904221
CD2AP	3.153322424	3.176002507	0.01033936	0.857654283
CD2BP2	5.683186053	5.642314606	-0.010412836	0.578669693
CD300A	4.083611358	3.963420204	-0.043099639	0.280621031
CD300C	2.477117285	2.429634718	-0.027922749	0.685520423
CD300E	2.133792934	2.048999648	-0.058500445	0.208787683
CD300LB	2.575240735	2.498206979	-0.043814292	0.113847063
CD300LD	1.88049853	1.914003817	0.025478528	0.356357147
CD300LF	2.332591841	2.204514908	-0.081472652	0.025184362
CD300LG	2.271023993	2.208345908	-0.040376779	0.264937439
CD302	5.875479596	5.533102838	-0.086617881	0.120953957
CD320	7.797865682	7.815255782	0.003213787	0.569738211
CD33	4.471168993	4.29654207	-0.057476054	0.370191655
CD34	5.152189298	4.929434887	-0.063763336	0.226015859
CD36	3.40536496	3.038634373	-0.164386332	0.064886754
CD37	3.30125051	3.246636423	-0.024066787	0.36945508
CD38	3.501073709	3.497176373	-0.001606878	0.861447391

CD3D	3.029446861	2.837074838	-0.094650192	0.110727421
CD3E	2.459161132	2.457422986	-0.001020064	0.722902019
CD3EAP	4.49963347	4.532785204	0.01059031	0.826897437
CD3G	3.712219695	3.501572718	-0.084279045	0.195849188
CD4	8.300686278	8.278064817	-0.003937075	0.556698341
CD40	4.493562086	4.384437176	-0.035467878	0.298524275
CD40LG	1.955440775	1.934785007	-0.015320578	0.484665841
CD44	7.898623993	7.836008549	-0.011482374	0.541976236
CD46	3.726624801	3.78310469	0.021701126	0.260235441
CD47	6.179501775	6.062562556	-0.027562796	0.290580178
CD48	4.129956444	3.986314577	-0.051071002	0.382096884
CD5	2.602920503	2.662564944	0.032685465	0.333459426
CD52	6.399293603	6.040314148	-0.083289075	0.225751424
CD53	4.891794232	4.713569683	-0.053543663	0.190421051
CD55	4.093522629	4.013269394	-0.028564869	0.257036588
CD58	4.895865291	4.776456197	-0.035623229	0.412084442
CD59	9.312307384	9.254875465	-0.008925103	0.759906179
CD5L	2.023761623	1.982108627	-0.030003336	0.761482742
CD6	3.763497682	3.658152261	-0.040958958	0.063202207
CD63	12.80510471	12.83232277	0.003063285	0.619372367

CD68	6.281607523	6.169117423	-0.026069699	0.459591721
CD69	4.30718347	4.226996782	-0.027111764	0.875019667
CD7	2.467761921	2.486027085	0.010638798	0.840357546
CD70	2.724296106	2.775282458	0.026751091	0.487256876
CD72	2.740805669	2.684230162	-0.030091658	0.854405706
CD74	5.071773185	5.047494254	-0.006922865	0.971934359
CD79A	6.078779033	6.134155831	0.01308324	0.481652781
CD79B	3.064266609	3.045843514	-0.008700003	0.742111651
CD80	2.034183881	1.972422542	-0.044481452	0.035374801
CD81	11.75095712	11.74899698	-0.000240672	0.921415824
CD82	8.127937318	8.026542915	-0.018110533	0.4981316
CD83	6.033577887	6.167079021	0.031573564	0.146464319
CD84	2.726961265	2.585467669	-0.076868943	0.035737423
CD86	5.897110305	6.175735542	0.066602795	0.119800743
TTY15	2.948056503	2.674309042	-0.140597983	0.015084622
RASL11A	3.91252345	3.550075711	-0.140249606	0.016770178
CD9	6.693371311	6.741161859	0.010264216	0.761483045
CD93	4.326236305	4.184717845	-0.047982117	0.400388961
CD96	2.726683623	2.596781718	-0.070422566	0.147811619
CD97	6.829584291	6.630259415	-0.042732448	0.565531508

CD99	9.495644709	9.266018634	-0.035316372	0.021333152
CD99L2	9.867048788	10.04022343	0.025100827	0.108886926
CDA	3.438682371	3.338633345	-0.042598198	0.230007698
CDADC1	5.252270219	5.253446887	0.000323172	0.967534148
CDAN1	3.037494497	3.097199085	0.028082326	0.070484141
CDC123	6.141204166	6.159254162	0.004234096	0.824211378
CDC14A	2.04139904	1.98693288	-0.03901508	0.256747199
CDC14B	4.772802848	4.631268718	-0.043429275	0.169599893
CDC14C	3.304048868	3.168519732	-0.060426025	0.075446028
CDC16	6.662755801	6.706161148	0.009368133	0.687042019
CDC2	3.465373073	3.243162423	-0.095609399	0.04687173
CDC20	2.771680272	2.846326394	0.038340264	0.084844316
CDC20B	1.927102417	1.884457901	-0.032283681	0.192060826
CDC23	5.792591159	5.757170359	-0.00884894	0.267309802
CDC25A	2.959530907	3.058604824	0.047505197	0.125995203
CDC25B	5.464641013	5.366792324	-0.026066663	0.10919295
CDC25C	2.027098079	1.91989331	-0.078389753	0.010219551
CDC26	8.958844185	8.953695951	-0.000829289	0.79214724
CDC27	6.190518868	6.126660599	-0.014959404	0.316506815
CDC2L1	8.51270151	8.490752359	-0.003724649	0.250151666



CDC2L2	2.640685848	2.677478239	0.01996217	0.658848197
CDC2L5	5.247113921	5.270808873	0.006500266	0.469702941
CDC2L6	3.69168902	3.680264275	-0.004471661	0.785775183
CDC34	8.617565371	8.683994993	0.011078557	0.37984598
CDC37	8.145859152	8.107854134	-0.006746735	0.594812575
CDC37L1	5.018992033	5.045388359	0.007567666	0.442194505
CDC40	6.077035404	6.112602923	0.008419155	0.370559256
CDC42	7.797018411	7.815993711	0.003506765	0.526998873
CDC42BPA	5.906861391	5.872851366	-0.008330633	0.40504262
CDC42BPB	8.791342192	8.738000451	-0.008780261	0.141168488
CDC42BPG	2.027238192	2.021523155	-0.004072881	0.91977425
CDC42EP1	3.871132146	3.84686657	-0.009071766	0.65635357
CDC42EP2	5.61328606	5.838817577	0.056830655	0.009172343
CDC42EP3	6.211582669	6.048648683	-0.038348035	0.04332435
CDC42EP4	8.590038364	8.731762021	0.023608236	0.07488024
CDC42EP5	13.20254013	13.19523756	-0.000798202	0.564535602
CDC42P2	4.141759689	4.242497056	0.03466981	0.116071756
CDC42SE1	5.279589351	5.099612275	-0.050038158	0.0069324
CDC42SE2	6.570029576	6.535450563	-0.007613164	0.466741065
CDC45L	3.246817947	3.155400324	-0.041203442	0.079027383

CDC5L	6.261260742	6.322534592	0.014049844	0.207292065
CDC6	2.696397358	2.588436901	-0.058951967	0.125824696
CDC7	4.932539192	5.186019901	0.072297228	0.095853409
CDC73	4.343272868	4.263685204	-0.026681668	0.12211566
CDCA2	2.873043993	2.885819965	0.006401214	0.918679055
CDCA3	2.706294079	2.750060014	0.023144484	0.505158279
CDCA4	2.231699172	2.204809458	-0.017488587	0.505158736
CDCA5	4.100653722	4.137564479	0.012927874	0.731707325
CDCA7	2.189784391	2.291774711	0.065676403	0.089430381
CDCA7L	4.838981563	4.875935486	0.010975595	0.686534501
CDCA8	4.336384477	4.395488183	0.019530731	0.742633153
CDCP1	2.212359437	2.261847507	0.031915871	0.270896613
CDCP2	1.965884656	1.87242238	-0.070272763	0.022610431
CDGAP	3.226433901	3.09283338	-0.061011356	0.09326824
CDH1	6.230295503	5.646947479	-0.141829379	0.079854941
CDH10	3.339867338	3.444250592	0.044399313	0.446714395
CDH11	8.059633987	7.799020613	-0.047421359	0.086098543
CDH12	4.400765066	4.655982732	0.081331352	0.521606865
CDH13	4.91046753	4.876155162	-0.010116357	0.401549437
CDH15	2.615609325	2.638719894	0.012691142	0.733784282

CDH16	2.231734371	2.130767528	-0.066792122	0.06310442
CDH17	1.873829159	1.853098887	-0.016049555	0.589091913
CDH18	7.821552113	7.471877183	-0.065984184	0.010997229
CDH19	5.549432159	5.138836838	-0.11089831	0.122951235
CDH2	5.446275536	5.612913993	0.04347998	0.480364783
PLAGL1	4.855355205	4.406519613	-0.139937217	0.003608777
CDH22	7.126570066	7.289425056	0.032597137	0.028156265
CDH23	5.017480285	4.951700493	-0.019038988	0.600559538
CDH24	9.44490855	9.410437648	-0.005275008	0.424378313
CDH26	2.536493371	2.449744042	-0.050204371	0.244514517
CDH29	1.972255682	1.953771711	-0.013584689	0.639492813
CDH3	7.202027841	7.23979288	0.007545248	0.567866916
CDH4	3.606592066	3.727544211	0.047589212	0.442194669
CDH5	3.028904934	2.968442162	-0.029090294	0.331737997
CDH6	2.998294583	2.928824345	-0.033820464	0.212559305
CDH7	4.938771437	5.269074859	0.093397473	0.129795311
CDH8	2.262551609	2.362852282	0.062578738	0.076128716
CDH9	2.201706444	2.260696035	0.0381449	0.16810451
CDIPT	6.652099219	6.685838725	0.007298868	0.685013046
CDK10	4.141649238	4.147847563	0.0021575	0.949944603

PKHD1L1	2.493528377	2.263154331	-0.139853652	0.018140641
CDK2AP1	8.450072702	8.461402993	0.001933144	0.913752584
CDK2AP2	6.013440689	5.856922634	-0.038047851	0.031753271
CDK3	4.474144126	4.515630901	0.013315837	0.425580745
CDK4	7.290457947	7.192119338	-0.01959248	0.19920835
CDK5	7.367983377	7.507774718	0.027115554	0.049770233
CDK5R1	2.376926623	2.455165549	0.04672294	0.136567631
CDK5R2	4.123917291	4.230990908	0.036980187	0.135842071
CDK5RAP1	4.874635649	4.923540099	0.014401618	0.538781925
CDK5RAP2	7.006643656	6.966457542	-0.008298296	0.469702835
CDK5RAP3	8.882712146	8.809410472	-0.011954763	0.0484987
CDK6	4.239724755	4.017939303	-0.077514837	0.146848499
CDK7	6.979368788	6.970944655	-0.001742392	0.666856433
CDK8	4.00487553	4.127767556	0.043604327	0.23704603
CDK9	6.649469318	6.657833634	0.001813614	0.866328815
CDKAL1	4.092713974	4.052389246	-0.014285088	0.276946542
CDKL1	2.677038715	2.6513225	-0.013925837	0.64591815
CDKL2	6.027312702	6.232017021	0.048184259	0.208538017
CDKL3	5.56849143	5.591226331	0.005878208	0.882092075
CDKL5	7.469515887	7.602894493	0.025534028	0.615519196

CDKN1A	7.118777199	7.122493838	0.000753019	0.886993828
CDKN1B	7.178280834	7.198816739	0.004121426	0.426783998
CDKN1C	10.74112009	10.68351346	-0.007758265	0.675405058
CDKN2A	3.896906172	4.030190324	0.048518776	0.055665608
CDKN2AIP	5.57792247	5.472497627	-0.027528458	0.034013712
CDKN2AIPNL	5.764505815	5.878657042	0.028289682	0.222857706
LHX6	4.074823788	3.698892542	-0.139644284	0.005815293
CDKN2C	7.298729093	7.242846225	-0.011088528	0.829585564
CDKN2D	9.645687517	9.72949988	0.012481576	0.744719486
CDKN3	3.602381113	3.776551754	0.068118739	0.054702515
CD01	8.649801649	8.447916162	-0.034071533	0.17067375
CDON	3.297773722	3.416698782	0.051110653	0.192767364
CDR1	2.086360642	2.098840768	0.008604158	0.815094388
CDR2	7.067623669	7.115702908	0.009781055	0.477793645
CDR2L	6.998322828	6.953151014	-0.009342293	0.711561547
CDRT1	1.944533278	1.971395986	0.019793669	0.681973936
CDRT15	1.977298325	1.954668056	-0.016606925	0.691106929
CDRT4	3.896373576	3.81864507	-0.029071174	0.116552979
CDS1	5.500595517	5.702169275	0.051923049	0.289008666
CDS2	5.839159159	5.844312268	0.001272629	0.854405654

CDSN	2.279764669	2.303021915	0.014643231	0.401162331
CDT1	4.254330007	4.351957697	0.032732586	0.355278948
CDV3	7.967177397	8.028541507	0.011069228	0.425179917
CDX1	2.196795139	2.114416796	-0.055140548	0.063300402
CDX2	1.993705603	1.931217824	-0.045941496	0.292790019
CDX4	1.991150523	1.958702261	-0.023704175	0.511350152
CDY2A	1.880749026	1.919825408	0.029667773	0.424779585
CDYL	3.875978762	3.914847204	0.014395335	0.82260079
CDYL2	2.241470285	2.187219585	-0.035347308	0.180795823
CEACAM1	3.756718338	3.636708986	-0.046839469	0.401549493
CEACAM19	5.361179073	5.26268443	-0.026751436	0.20163329
CEACAM20	3.322370464	3.516378521	0.081877427	0.021804898
CEACAM21	2.20388357	2.176872655	-0.017790995	0.625256967
CEACAM3	2.274582325	2.231663739	-0.027481989	0.155290149
CEACAM4	3.416386854	3.317551634	-0.042352428	0.480793924
CEACAM5	1.981361377	1.941312359	-0.029459767	0.166407667
CEACAM6	2.101882974	2.027829458	-0.051746021	0.445890632
CEACAM7	2.074983735	2.033774444	-0.028940342	0.21255936
CEACAM8	2.329894311	2.177658303	-0.097486915	0.626723226
CEBPA	9.004575914	8.893786092	-0.017860625	0.222594759

CEBPB	9.801961464	9.646991042	-0.022991448	0.200659197
CEBPD	11.87667785	11.95966138	0.010045201	0.860361013
CEBPE	4.888063126	4.808440704	-0.023693788	0.446714178
CEBPG	7.317977709	7.215908359	-0.020264004	0.069418603
CEBPZ	6.77321251	6.742432127	-0.006571168	0.339005545
CECR1	3.673726338	3.732987725	0.023086603	0.092865043
CECR2	4.182560788	4.216583796	0.011688117	0.792679458
CECR4	5.033263914	5.113853444	0.022916569	0.587190597
CECR5	7.100185497	7.17091012	0.014299519	0.118005133
CECR6	3.710097252	3.925278155	0.081337886	0.049370042
CECR7	8.685202013	8.819992592	0.022218038	0.011194087
CEL	2.160154497	2.233722873	0.04831571	0.153096504
CELSR1	2.525028172	2.545984254	0.011924012	0.810812588
CELSR2	4.55902143	4.636365296	0.024270049	0.119308851
CELSR3	4.94398602	5.173119761	0.065359927	0.21973148
CEMP1	9.282000914	9.220518796	-0.009587913	0.3911769
CEND1	5.869410821	5.962960711	0.02281314	0.3400522
CENPA	1.987656921	1.928758021	-0.043396606	0.278167941
CENPB	3.580384444	3.564412641	-0.006450142	0.541062281
CENPC1	6.310270901	6.28325969	-0.006188733	0.590519828

CENPE	2.730103848	2.810120528	0.041676181	0.164095986
CENPF	3.516788715	3.601678218	0.034410631	0.377978062
CENPH	2.836888596	3.004355866	0.082746213	0.020082978
CENPI	2.054538881	2.013427676	-0.029160982	0.472674908
CENPJ	4.051876464	4.008396768	-0.015564869	0.293106399
CENPK	2.088436066	2.082039535	-0.004425515	0.824748447
CENPL	2.11159551	2.104077577	-0.005145606	0.98899194
CENPM	2.321824523	2.267745993	-0.033999886	0.488121867
CENPN	3.551780212	3.563699176	0.00483325	0.75151596
CENPO	3.228729788	3.266097542	0.016601171	0.446302216
CENPP	4.972969927	5.182129324	0.059437313	0.002979905
CENPQ	4.90887306	4.933240528	0.00714377	0.673391135
CENPT	4.109948583	4.065192965	-0.01579651	0.171320403
CENPV	3.248927219	3.44312569	0.083755422	0.027133749
CEP110	3.205104576	3.19960043	-0.002479679	0.797468911
CEP120	4.299219464	4.278127239	-0.007095366	0.65485859
CEP135	3.677793675	3.632148493	-0.018017361	0.275729203
CEP152	2.729706093	2.65012138	-0.042687185	0.095578719
CEP164	5.667071033	5.673198634	0.001559092	0.716708576
CEP170	2.887909642	2.914679338	0.013311569	0.537870912



CEP192	4.749763967	4.719883423	-0.009104596	0.506481911
CEP250	5.172367086	5.212178338	0.01106178	0.463789845
CEP27	3.598179	3.673737873	0.029981733	0.264346352
CEP290	5.989128411	6.041401993	0.012537321	0.562734818
CEP350	6.766481715	6.749609444	-0.003601863	0.956538271
CEP55	2.29794898	2.348866563	0.031617991	0.252146771
CEP57	4.255022285	4.147486275	-0.036929481	0.029160867
CEP63	6.26663694	6.278671887	0.002768009	0.512237648
CEP68	5.47581796	5.538828782	0.016506456	0.182827309
CEP70	4.518015497	4.604754148	0.027434912	0.201633398
CEP72	4.271955709	4.472157317	0.066074249	0.029778361
CEP76	3.29675694	3.272535	-0.010638904	0.680456544
CEP78	4.46388604	4.357988303	-0.034637872	0.046188586
CEP97	4.36624196	4.474383514	0.035296839	0.182827362
CEPT1	3.246288623	3.157021627	-0.04022713	0.155491066
CER1	1.893170066	1.872267254	-0.016017632	0.685520281
CERCAM	2.182859483	2.218355127	0.023271076	0.476511349
CERK	5.275927079	5.214484035	-0.016900117	0.269398207
CES1	5.424322444	5.360351232	-0.017115406	0.627701648
CES2	8.08816602	8.151599014	0.011270475	0.198725266

CES3	2.233395278	2.286644099	0.033993227	0.335186203
CES4	1.879107384	1.897733965	0.014230247	0.958736864
CES7	1.995232715	1.960721359	-0.025172499	0.409729198
CETN1	1.948922113	1.923424049	-0.018999573	0.394233815
CETN2	7.346688914	7.338815148	-0.001547028	0.879914798
CETN3	5.615182649	5.630754873	0.003995396	0.987891216
CETP	4.348058841	3.942705359	-0.141185563	0.051564072
CFB	5.959917325	6.122993225	0.038944769	0.595769316
CFC1	2.22222338	2.340452239	0.074784156	0.032980128
CFD	8.937948086	8.6112065	-0.05372828	0.192530826
CFDP1	7.506689543	7.475183704	-0.006067784	0.595768789
CFH	8.101789781	7.670440007	-0.078931313	0.251003961
CFHR1	1.824680397	1.850888211	0.020573973	0.908829475
CFHR2	1.893650709	1.879640824	-0.010713237	0.961485499
CFHR3	6.593817722	6.197509254	-0.089425486	0.339005545
CFHR4	1.948622781	1.94868181	4.37E-05	0.815629983
CFHR5	1.887717238	1.928984099	0.031198571	0.263756288
CFI	7.66451755	7.800603838	0.025390823	0.325250423
CFL1	7.633781073	7.665901268	0.006057605	0.630150015
CFL2	7.200063311	7.195237782	-0.000967228	0.753610732

CFLAR	5.102321318	4.97906119	-0.03528001	0.401162556
CFLP1	8.78391155	8.750013366	-0.005578306	0.337959634
CFP	6.033819298	5.911548458	-0.029535415	0.487689346
CFTR	2.058671166	2.014765817	-0.031101246	0.092999391
CG012	2.24073698	2.107906493	-0.088162444	0.063104451
CGA	1.995393689	1.971880127	-0.017101565	0.703353899
CGB	2.125950205	2.071370148	-0.037522424	0.35635686
CGB1	2.456277232	2.430771493	-0.015059124	0.581503458
CGB2	2.080789993	2.07493469	-0.004065439	0.730669598
CGGBP1	8.176906205	8.158366289	-0.00327481	0.668863926
CGN	3.448874623	3.539543627	0.037437674	0.19347549
CGNL1	8.062269113	8.237440556	0.031010209	0.009859153
CGREF1	5.520916205	5.720159134	0.051147579	0.108735982
CGRRF1	5.536691338	5.531886077	-0.00125265	0.991193452
CH25H	6.223969669	6.201255556	-0.005274685	0.730150904
CHAC1	5.905180781	5.762370063	-0.035318913	0.827434853
CHAC2	3.515435477	3.591079754	0.030714279	0.306285699
CHAD	2.154728424	2.115703437	-0.026368632	0.614064418
CHADL	9.69112851	10.07313735	0.055776512	0.013188588
CHAF1A	5.96412902	6.030002852	0.015847217	0.302388306

CHAF1B	5.78921202	5.967374127	0.043729236	0.057725532
CHAT	2.430149702	2.455537542	0.01499369	0.528352417
CHCHD1	9.21128255	9.193160951	-0.002841048	0.468429787
CHCHD10	9.950375079	9.947312134	-0.000444162	0.738463711
CHCHD2	11.70507068	11.75257627	0.005843397	0.360318958
CHCHD3	5.775633934	5.804562732	0.007208085	0.546096943
CHCHD4	7.149690596	7.098432803	-0.01038027	0.253865073
CHCHD5	5.863227119	6.020129711	0.03809963	0.000339564
CHCHD6	9.37758996	9.208014732	-0.026327056	0.114478545
CHCHD7	7.908450788	7.938092049	0.005397184	0.680456112
CHCHD8	10.24866504	10.2086859	-0.005638832	0.593376903
CHD1	4.520668311	4.52343257	0.000881897	0.761483045
CHD1L	5.884986576	5.811450838	-0.018140745	0.038108305
CHD2	5.258614086	5.243825599	-0.004062921	0.965884328
CHD3	3.474346517	3.324175965	-0.063744897	0.008528493
CHD4	7.31047745	7.47221438	0.031570215	0.016644432
CHD5	2.383412013	2.50287893	0.070560139	0.137844341
CHD6	6.412312338	6.398667	-0.003073312	0.976885568
CHD7	7.573459954	7.690253944	0.022078689	0.343203883
CHD8	6.662042808	6.721466021	0.01281131	0.302388248

CHD9	5.849123649	5.870874366	0.005354896	0.968634108
CHDH	5.155864298	5.331464873	0.04831769	0.051398667
CHEK1	2.434591305	2.446563866	0.007077337	0.872845511
CHEK2	4.319233563	4.050788563	-0.092572549	0.073428272
CHERP	7.092176046	7.133319042	0.008345152	0.371666566
CHFR	3.597645205	3.552438782	-0.018243129	0.925800499
CHGA	4.623190974	4.788805852	0.050776989	0.324572324
CHGB	6.594239702	6.808919106	0.046219463	0.814558793
CHI3L1	7.235621762	7.534138641	0.058325588	0.016675781
CHI3L2	5.898967205	5.874495472	-0.005997437	0.93621931
CHIA	2.146948351	2.176930282	0.02000772	0.442194396
CHIC1	2.95805257	2.984609746	0.012894612	0.67288783
CHIC2	5.465853344	5.239824204	-0.060928341	0.020156936
CHID1	9.01148806	9.039355606	0.004454573	0.524747206
CHIT1	2.167608417	2.296757648	0.083494478	0.037534953
CHKA	8.078995351	8.078689021	-5.47E-05	0.345667382
CHKB	7.45063949	7.425183204	-0.004937635	0.524299858
CHL1	3.155833788	3.130635331	-0.011565756	0.941158446
CHM	3.725399285	3.863367704	0.052463935	0.00080036
CHML	3.75059302	3.814478261	0.024367017	0.400775562

CHMP1A	6.473150993	6.477338662	0.000933019	1
CHMP1B	6.215618079	6.143130704	-0.016923781	0.243955747
CHMP2A	10.19115263	10.24017345	0.006922921	0.300125526
CHMP2B	5.064167079	5.155615077	0.025819551	0.032641449
CHMP4A	8.937547682	8.870257718	-0.010903012	0.477792437
CHMP4B	8.70051555	8.767358873	0.011041412	0.059287164
CHMP4C	2.535194603	2.542468739	0.004133542	0.986790514
CHMP5	7.950387576	7.863695507	-0.015817733	0.123286114
CHMP6	5.270199411	5.367005796	0.026259895	0.141169532
CHMP7	4.513053967	4.550978507	0.012072743	0.597683095
CHN1	9.636058874	9.798208415	0.024074771	0.03366552
CHN2	2.36393949	2.48895831	0.074348958	0.041361753
CHODL	5.183721914	4.931549901	-0.071947193	0.02204387
EMCN	7.370683609	6.695036458	-0.13870652	0.007375912
CHP	9.286765543	9.298312099	0.001792638	0.503834638
CHP2	2.827522086	2.999649676	0.085255727	0.055489663
CHPF	3.300424099	3.350875268	0.021886564	0.566465265
CHPT1	5.319416192	5.297650289	-0.005915307	0.551155004
CHRA1	4.872094596	4.893326345	0.006273357	0.679445391
CHRD	5.473999735	5.22401907	-0.067435201	0.032923518

CHRD1	4.291557139	4.394262592	0.034119878	0.239241814
CHRD2	3.00734047	3.143200401	0.063746048	0.476511244
CHRFAM7A	5.05341045	5.18085919	0.035934009	0.425981848
CHRM1	2.181180106	2.193977711	0.008439967	0.610675562
CHRM2	3.925913371	3.903446359	-0.008279894	0.570207069
CHRM3	4.742746947	4.68393238	-0.018002646	0.399616319
CHRM4	2.041703126	2.096529556	0.038230063	0.257326033
CHRM5	2.44857843	2.551100007	0.059175048	0.196804577
CHRNA1	1.985838411	1.914191197	-0.053013295	0.006581336
SYTL5	2.670521742	2.426615655	-0.138176008	0.0005179
CHRNA2	2.192146033	2.240298817	0.031347267	0.235680793
CHRNA3	10.53438732	10.81848449	0.038392004	0.016959842
CHRNA4	5.447126219	5.482326951	0.009293072	0.852241245
CHRNA5	2.905496927	2.914142155	0.004286326	0.433639157
CHRNA6	3.860252748	4.042052803	0.066392858	0.301742154
CHRNA7	4.472493702	4.549657739	0.024678568	0.565998294
CHRNA9	1.879254662	1.8698645	-0.007226854	0.531063321
CHRNB1	3.110929199	3.134687901	0.01097625	0.505599558
CHRNB2	3.281156086	3.369482768	0.038322922	0.089300232
CHRNB3	3.293965139	3.43289469	0.059600314	0.255015334

CHRNB4	2.298714192	2.353928437	0.034243359	0.411691084
CHRND	2.199105649	2.321040028	0.077854488	0.027374211
CHRNE	3.751471185	3.665364	-0.0335	0.262873153
CHRNG	1.980944543	1.956884486	-0.017629895	0.765691611
CHST1	3.047105298	3.095954866	0.022945084	0.334840249
CHST10	3.87209702	4.114166655	0.087485134	0.00534265
CHST11	4.179650907	4.065436352	-0.039972242	0.465053402
CHST12	7.335862245	7.305769725	-0.005930267	0.607777265
CHST13	5.671269457	5.653367444	-0.004561235	0.539237261
CHST14	6.545043424	6.530894246	-0.003122217	0.70899307
CHST2	7.534217007	7.878803021	0.064518879	0.011574753
CHST3	3.547777735	3.502127845	-0.018683879	0.379846662
CHST4	2.556248775	2.508583662	-0.027155193	0.286506143
CHST5	2.698797868	2.746502563	0.025278711	0.210793251
CHST6	3.870116656	4.112088113	0.087494125	0.009780696
CHST7	4.422931424	4.551858761	0.041452919	0.056822155
CHST8	5.935397662	6.064210873	0.03097523	0.68248039
CHST9	2.953682265	3.073387021	0.057314812	0.206548096
CHSY1	9.20453745	9.122160493	-0.012969672	0.386619855
CHSY3	3.018744841	2.81326893	-0.101701347	0.06826203



CHTF18	7.491695212	7.56675862	0.014383217	0.116713182
CHUK	2.770020093	2.754650986	-0.0080269	0.523401254
CHURC1	9.106598483	9.07293969	-0.005342207	0.45125754
CIAO1	7.359298497	7.272694697	-0.017078238	0.059754533
CIAPIN1	6.247885139	6.344340134	0.022102188	0.013036505
CIAPIN1P	4.300956404	4.401010944	0.033177451	0.086985702
CIB1	8.728537424	8.783566465	0.009066916	0.607294598
CIB2	6.78048296	6.863924176	0.017645579	0.429599084
CIB3	2.34658553	2.305586732	-0.025429107	0.382096657
ADAMTSL3	5.875968649	5.34067938	-0.137803422	0.006608844
CIC	7.652059742	7.704154127	0.009788428	0.405042508
CIDEA	2.170307934	2.257754958	0.05698916	0.10949855
CIDEB	3.304118556	3.107795901	-0.088373693	0.001075901
CIDEC	3.310073854	3.325628049	0.006763414	0.609225947
CIDCEP	4.622141424	4.61058138	-0.003612721	0.938414149
CIITA	3.729963921	3.676603232	-0.020788182	0.546097422
CILP	2.738509702	2.746873092	0.004399266	0.479506918
CILP2	2.353764901	2.350308711	-0.002119962	0.916489179
CINP	2.562095715	2.477167394	-0.048633011	0.130495577
CIP29	8.797705185	8.765798937	-0.005241669	0.554846994

CIR	6.877748841	6.841708831	-0.007579726	0.468008973
CIRBP	9.320666854	9.495853218	0.026864457	0.003332044
CIRH1A	5.843677093	5.887933423	0.010884898	0.697220364
CISD1	7.23037451	7.363319458	0.026285918	0.118167824
CISD2	7.134602775	7.086726077	-0.009713823	0.683999499
CISD3	7.772330781	7.766014852	-0.001172835	0.989542312
CISH	4.502966417	4.382399923	-0.039154573	0.275729775
CIT	5.372482185	5.449607838	0.020563621	0.325929442
CITED1	5.792738245	5.630494021	-0.040983965	0.231888191
CITED2	7.77607545	7.689746014	-0.016106269	0.059941863
CITED4	9.24906351	9.077365021	-0.027033724	0.273607268
CIZ1	6.223275285	6.212482077	-0.00250428	0.668864334
CKAP2	4.397743715	4.451282901	0.017457663	0.710020217
CKAP2L	1.985499291	1.942730866	-0.031415793	0.48855501
CKAP4	7.334388099	7.258441972	-0.015016702	0.296285137
CKAP5	6.194414265	6.274455444	0.018522384	0.295966172
CKB	11.9932214	12.14986727	0.018721331	0.408923248
CKLF	6.258563238	6.173182451	-0.019817068	0.190888359
CKM	2.335932623	2.445109099	0.065900177	0.429598864
CKMT1A	7.535248139	7.653860338	0.022532555	0.796936106

CKMT1B	2.071358901	2.087076585	0.010905992	0.601039625
CKMT2	4.084010126	4.234219063	0.052109468	0.267607707
CKS1B	7.337175159	7.25357569	-0.016532372	0.246477596
CKS2	6.876649086	6.762345331	-0.024182035	0.73378419
CLASP1	5.965959099	5.951037127	-0.003612969	0.652867564
CLASP2	6.911739947	7.018484493	0.022110604	0.566932143
CLC	2.324049007	2.123394042	-0.130268371	0.090739089
CLCA1	2.025262861	2.043090739	0.012644111	0.450431673
CLCA2	2.064706901	1.970955782	-0.067041586	0.127539291
CLCA3	1.909571702	1.979026352	0.051541731	0.24367667
CLCA4	1.912196	1.925840493	0.01025781	0.589091913
CLCC1	5.772250086	5.796004655	0.005924947	0.796403964
CLCF1	2.992113543	3.06429019	0.034388005	0.346374456
CLCN1	2.379439132	2.417646669	0.022981865	0.355278891
CLCN2	4.961756093	5.021605549	0.017297891	0.66434995
CLCN3	5.459908093	5.567087465	0.028046083	0.040073194
CLCN4	3.967008854	4.166736662	0.070866307	0.091664538
CLCN5	2.454741099	2.446533768	-0.004831677	0.814023437
CLCN6	7.826117609	7.908403944	0.015089772	0.406601167
CLCN7	5.814796371	5.720865106	-0.023495344	0.26493704

CLCNKA	3.863886119	4.011266739	0.054005331	0.379098723
CLCNKB	2.343701192	2.401673958	0.035251663	0.513570901
CLDN1	2.079876874	2.158098303	0.053262457	0.076586517
PLA2G4A	4.665690576	4.242308394	-0.137241131	0.005032769
CLDN11	3.221761444	3.076827655	-0.066406038	0.006526672
CLDN12	4.978036921	5.060871437	0.023808895	0.376487006
CLDN14	2.091736166	2.065428754	-0.018259598	0.469279211
CLDN15	3.266834325	3.158319979	-0.048735949	0.119800611
CLDN16	1.866698384	1.861824458	-0.003771785	0.290895066
CLDN17	1.945423848	1.94491288	-0.000378975	0.946099841
CLDN18	2.08802106	2.081889394	-0.004242839	0.701818627
CLDN19	5.566100795	5.468155021	-0.025612891	0.741069033
CLDN2	1.932598821	2.026412113	0.068385419	0.046719184
CLDN22	1.954844464	1.953054754	-0.001321429	0.795339301
CLDN23	4.414955245	4.371392775	-0.014305801	0.609226117
SYNP02	5.393372457	4.906735331	-0.136424213	0.003522107
CLDN4	2.061273523	2.113513563	0.036107413	0.413658869
CLDN5	10.13604785	10.00807908	-0.018330145	0.369085935
CLDN6	2.157761609	2.06857969	-0.060894947	0.152700209
CLDN7	3.406688775	3.504351014	0.040777137	0.075106562

CLDN8	1.857832172	1.853847282	-0.00309778	0.450845308
CLDN9	2.500282808	2.514693908	0.008291516	0.307591868
CLDND1	7.929218887	7.834530394	-0.017331951	0.033207336
CLDND2	3.184625907	3.216903803	0.014548883	0.534688588
CLEC10A	3.775004616	3.544086648	-0.091064532	0.235136561
CLEC11A	6.354307821	6.27143562	-0.018939246	0.056286021
CLEC12A	2.050520927	2.020783606	-0.021075628	0.180346718
CLEC12B	2.072105079	2.04497207	-0.019016027	0.90008598
CLEC14A	6.743659742	6.404604761	-0.074422203	0.191591354
CLEC16A	7.28007553	7.340632303	0.01195092	0.432424653
CLEC1A	2.030053583	2.00468407	-0.018142915	0.399230503
CLEC1B	2.172653861	2.150668824	-0.014672963	0.775714609
CLEC2B	5.333319603	5.131029662	-0.055785419	0.256458093
CLEC2D	5.703761993	5.690316817	-0.003404803	0.662847536
CLEC2L	3.49539806	3.602076373	0.04337201	0.581503368
CLEC3A	1.952615987	1.885120345	-0.050751621	0.104543006
CLEC3B	10.55037199	10.06074547	-0.068556659	0.021528412
CLEC4A	3.605455629	3.487746021	-0.047886601	0.229472634
CLEC4C	1.931221722	1.938136225	0.005156168	0.991743844
DKK2	3.272880927	2.97790881	-0.13626154	0.016613199

CLEC4E	4.449804669	4.386667838	-0.02061654	0.841976054
CLEC4F	2.287116331	2.328065211	0.025601722	0.356357032
CLEC4G	4.589907238	4.298646423	-0.094582548	0.040140242
CLEC4M	3.133315099	3.135657585	0.001078164	0.978536178
CLEC5A	1.875867781	1.917022648	0.031309237	0.423580134
CLEC7A	2.096813815	2.078474986	-0.012673378	0.619892928
CLECL1	2.334284179	2.37493981	0.024910743	0.557162058
SMOC1	6.581049477	5.98965262	-0.135845334	0.005207799
CLIC1	8.588831232	8.523718803	-0.010978823	0.574901164
CLIC2	3.741580179	3.440158599	-0.121172613	0.043181626
GLT8D2	4.653394728	4.235782162	-0.135655174	0.011529432
CLIC4	8.969712311	8.813027585	-0.025423993	0.086224804
CLIC5	7.097883199	7.138864789	0.008305843	0.512237799
CLIC6	7.045401159	6.913106669	-0.027347668	0.9071892
CLINT1	6.737926245	6.699785127	-0.00818981	0.4255808
CLIP1	7.53247204	7.535332345	0.000547731	0.936767911
CLIP2	5.931452556	5.955122725	0.00574579	0.678434923
CLIP3	6.789301305	6.847948465	0.012408732	0.836045056
CLIP4	7.077731596	7.13042193	0.010700396	0.16346924
CLK1	6.691230377	6.581575261	-0.023838591	0.216636525

CLK2	4.24761653	4.318765528	0.023965466	0.103661388
CLK3	6.829120669	6.800104852	-0.006142834	0.420389669
CLK4	5.657125901	5.645677599	-0.002922534	0.95543911
CLMN	5.08871802	5.125994239	0.010529608	0.619406424
CLN3	5.615084384	5.585810965	-0.007540953	0.891354629
CLN5	6.322481656	6.357358613	0.007936526	0.898447932
CLN6	5.964731185	6.118357662	0.036687324	0.058181497
CLN8	3.923740517	3.963419697	0.014516109	0.884814681
CLNS1A	9.722191755	9.822154035	0.014757858	0.148583967
CLOCK	4.314436305	4.325924387	0.00383637	0.720835624
CLP1	4.353224252	4.369842951	0.00549709	0.785244548
CLPB	5.776789768	5.792228007	0.003850402	0.934024857
CLPP	10.24957181	10.23302256	-0.002331299	0.473946257
CLPS	2.579893086	2.5516055	-0.015905986	0.657850041
CLPTM1	4.182485636	4.301903268	0.040614499	0.118982066
CLPTM1L	6.890508993	6.81904888	-0.015040031	0.315175489
CLPX	7.036293152	7.211373606	0.035458496	0.017772377
CLRN1	3.827419715	4.200334803	0.134132212	0.022366138
CLRN3	2.025252265	1.966102683	-0.04276295	0.061267073
CLSPN	2.829796364	2.892707528	0.031722226	0.652370328

CLSTN1	10.53172256	10.63536987	0.014128786	0.360324343
CLSTN2	3.371440099	3.389181176	0.007571796	0.829047726
CLSTN3	3.784413007	3.956333275	0.064094418	0.108432234
CLTA	10.1067732	10.1156263	0.001263185	0.905002006
CLTB	6.748721033	6.795957944	0.010062805	0.389274988
CLTC	10.72060974	10.7544249	0.004543416	0.925251767
CLTCL1	4.974646868	4.98025407	0.001625227	0.973034522
CLU	12.81925972	13.086132	0.029725777	0.00039834
CLUAP1	7.588675675	7.460381782	-0.024598677	0.060885989
CLUL1	7.365796682	7.46688581	0.019665093	0.682986522
CLYBL	3.865003662	3.994390901	0.047505744	0.057725442
CMA1	2.077410338	2.097185507	0.01366827	0.611159292
CMAH	3.783269344	3.519397106	-0.104305183	0.121450925
CMAS	4.305941834	4.450651507	0.047687709	0.040951091
CMBL	4.06476894	3.936973852	-0.046086215	0.170243648
CMC1	8.209428099	8.130016063	-0.014023519	0.019284936
CMIP	8.436568642	8.433601472	-0.00050749	0.882091935
CMKLR1	6.304748086	6.02724581	-0.064939823	0.179004119
CMPK1	5.719824219	5.757378613	0.009441278	0.363961262
CMTM1	3.173355934	3.257887908	0.037927619	0.081169515



CMTM2	2.369119066	2.266918063	-0.06361846	0.810812611
CMTM3	7.73905604	7.673714838	-0.012232452	0.593380295
CMTM4	7.20927657	7.335564261	0.025053448	0.095030917
CMTM5	4.439257	4.53916412	0.032108419	0.348498308
CMTM6	9.253613536	9.250936486	-0.000417429	0.795338585
CMTM7	5.896097795	5.713303782	-0.045435212	0.332770049
CMTM8	6.038267947	5.900499401	-0.033297712	0.210793197
CMYA5	3.034667967	3.0816035	0.022142572	0.59816214
CNBD1	2.236735099	2.169671479	-0.043917792	0.23350826
CNBP	8.099136603	8.086290204	-0.002290139	0.913752481
CNDP1	6.300437424	6.499327683	0.044838493	0.353844631
CNDP2	6.574167715	6.684282514	0.023964449	0.028554443
CNFN	5.717529384	5.657074761	-0.015335638	0.147811377
CNGA1	5.437901841	5.576412106	0.036287073	0.825285556
CNGA3	4.460954106	4.586280268	0.039972215	0.284949369
CNGA4	2.105277841	2.139701042	0.023398595	0.334840479
CNGB1	5.933653126	6.000874725	0.016252221	0.955988719
CNGB3	5.946022503	6.148551	0.048321534	0.424780027
CNIH	8.426174457	8.425694648	-8.22E-05	0.976335336
CNIH2	3.377474775	3.402539401	0.010666874	0.866871635

CNIH3	5.120401258	5.301216401	0.050066563	0.012274385
CNIH4	9.040781623	9.063410535	0.003606528	0.739505441
CNKSRI	2.074753457	2.126456958	0.035511742	0.458336692
CNKSRI2	2.104395066	2.188328479	0.056423737	0.114637624
CNKSRI3	6.331268828	6.329581134	-0.000384623	0.99834874
CNN1	8.067373781	7.587266042	-0.088518975	0.054096756
CNN2	7.203541265	7.119408627	-0.016948902	0.517134362
CNN3	8.659033563	8.637748366	-0.003550726	0.583869546
CNNM1	2.460991762	2.517481986	0.032741627	0.447538969
CNNM2	3.000919669	3.017232451	0.007821147	0.567399715
CNNM3	6.818335536	6.894352225	0.015995409	0.207292336
CNNM4	9.40062555	9.381283669	-0.002971417	0.263461113
CNO	5.424929682	5.371290803	-0.014335606	0.26405095
CNOT1	4.837953669	4.949640035	0.032926655	0.013112466
CNOT10	7.182342921	7.094048986	-0.017845244	0.016333816
CNOT2	6.978278775	6.995758915	0.00360934	0.922512826
CNOT3	4.118736894	4.095961901	-0.007999673	0.630640716
CNOT4	5.449200013	5.398200873	-0.013565784	0.155290149
CNOT6	6.031287689	6.038640373	0.001757704	0.714133566
CNOT6L	5.20713449	5.235625697	0.007872291	0.544263617

CNOT7	7.634709616	7.641643155	0.001309604	0.925252433
CNOT8	6.145773834	6.041869415	-0.024599673	0.124804572
CNP	10.39737691	10.42021416	0.003165323	0.304973061
CNPY2	9.819479272	9.767002958	-0.007730587	0.265230103
CNPY3	4.705628702	4.70758219	0.000598794	0.972484409
CNPY4	4.968021106	4.932417148	-0.010376485	0.599600232
CNR1	3.690233781	3.596552732	-0.037097459	0.245354497
CNR2	2.286017921	2.269160634	-0.010677972	0.738985191
CNRIP1	7.930185417	8.023577127	0.016890974	0.453334777
CNTD1	1.994738351	2.009449486	0.01060079	0.908282728
CXCL12	7.119441377	6.483191746	-0.135059803	0.01249149
CNTF	1.992800675	2.056158458	0.045154034	0.195849028
CNTFR	5.88514749	5.873830458	-0.002776947	0.839818198
CNTLN	4.880607424	4.917394972	0.010833527	0.634568614
CNTN1	2.716104119	2.674670211	-0.022177768	0.324911027
CNTN2	5.481440815	5.490055345	0.002265533	0.935670657
CNTN3	3.95623155	3.953963387	-0.000827354	0.99559666
CNTN4	3.419046152	3.556791782	0.056982623	0.162430026
CNTN5	1.954816358	1.901104908	-0.040194936	0.350630763
CNTN6	2.44643206	2.518732789	0.042018857	0.248451522

CNTNAP1	5.008118887	5.069041451	0.01744415	0.522952471
CNTNAP2	6.577237735	6.984836035	0.086744432	0.096958852
CNTNAP3	3.331276927	3.201477049	-0.057337622	0.107374026
CNTNAP4	3.026491179	3.217176155	0.088148786	0.132436771
CNTNAP5	4.30746753	4.481998627	0.057302286	0.216893485
CNTROB	4.970952503	5.000218472	0.008468813	0.59290322
COASY	7.839592	7.816936944	-0.004175173	0.70488981
COBL	3.606325338	3.827366655	0.085822563	0.079263031
COBLL1	3.392141563	3.439145268	0.019853677	0.469702888
COBRA1	7.286609848	7.37331657	0.017065954	0.164723936
COCH	3.637039377	3.698556218	0.024197659	0.653365186
COG1	7.792120589	7.88272743	0.016678885	0.046415241
COG2	6.228119371	6.242400303	0.003304279	0.915394342
COG3	4.581014437	4.509107711	-0.022825137	0.066097745
COG4	5.769649298	5.736836761	-0.008228162	0.604404467
COG5	5.459092013	5.383222606	-0.020190929	0.047254823
COG6	5.124172795	5.133704218	0.00268105	0.635551992
COG7	5.997428483	5.998055493	0.000150821	0.954340018
COG8	6.262884649	6.219426592	-0.010045732	0.334148858
COIL	3.05039804	3.097426634	0.022072602	0.403488043

COL10A1	5.614183801	5.073313944	-0.146147857	0.048735278
COL11A1	4.549169563	4.570272972	0.006677127	0.635552113
COL11A2	5.113394364	4.983768944	-0.037044112	0.295329276
COL12A1	3.45593804	3.456087049	6.22E-05	0.913752666
COL13A1	4.249745887	3.957783472	-0.102683893	0.160982626
COL14A1	3.714661424	3.409605056	-0.123626083	0.029726501
COL15A1	3.642425603	3.378730183	-0.10841836	0.033551009
COL16A1	9.689394417	9.679573169	-0.001463069	0.762008245
COL17A1	2.287214775	2.225145528	-0.039692151	0.277251864
COL18A1	10.12803412	10.20508397	0.010933884	0.401934914
COL19A1	2.025213642	1.960570183	-0.04680082	0.110419028
COL1A1	5.448424583	5.221197824	-0.061458312	0.093943014
LTK	2.83422957	2.581430655	-0.134785776	0.014492164
COL20A1	6.699865795	6.768971937	0.014804538	0.655356904
COL21A1	3.513912868	3.206716796	-0.131981472	0.058090227
COL22A1	2.849821556	3.09688519	0.119946313	0.035980892
COL23A1	4.873775219	5.075839	0.058606595	0.529255596
COL24A1	4.160250384	4.091940754	-0.023885103	0.533781114
COL25A1	4.161316934	3.966323894	-0.069237677	0.016644471
COL27A1	6.868259815	6.701653577	-0.035427503	0.223381722

COL29A1	1.959652358	1.90435931	-0.041292034	0.259068538
COL2A1	3.386891887	3.577966789	0.079178061	0.040140266
COL3A1	5.195012874	4.729137401	-0.135550266	0.033723941
COL4A1	4.462943093	4.234015697	-0.075968793	0.165143825
COL4A2	9.192418662	8.895493479	-0.047369865	0.152699279
COL4A3	4.860125331	4.958840246	0.02900923	0.434449756
COL4A3BP	7.528198245	7.516851077	-0.002176198	0.923060741
COL4A4	4.918734464	4.869516958	-0.014508506	0.810277803
COL4A5	3.561477252	3.532576028	-0.011755165	0.521606865
COL4A6	2.666220272	2.730064479	0.034139051	0.192061038
COL5A1	4.465975298	4.274787408	-0.063122597	0.03303682
COL5A2	3.995030212	3.826549754	-0.062162255	0.325589817
COL5A3	3.932422497	4.067580782	0.048752666	0.102931462
COL6A1	9.574542033	9.401325514	-0.026339302	0.085846207
COL6A2	4.77387947	4.529175683	-0.075913641	0.188791031
COL6A3	3.222973358	3.118465176	-0.047556114	0.172403018
COL6A6	1.874953536	1.909974852	0.026698799	0.199208243
COL7A1	4.222572742	4.16152657	-0.021009428	0.409728974
COL8A1	9.291651311	9.275925937	-0.002443714	0.230006364
COL8A2	7.288651417	6.96197507	-0.066155257	0.492025524

COL9A1	3.692542576	3.947563676	0.096347982	0.036533945
COL9A2	5.753776834	6.011775106	0.063281775	0.002532165
COL9A3	9.291390278	9.414829577	0.019040496	0.101626955
COLEC10	2.025948788	1.979216401	-0.033668345	0.484234719
COLEC11	4.695478238	4.506174218	-0.059369013	0.275729661
COLEC12	6.716737556	6.89399307	0.037579189	0.098355319
COLQ	2.432559404	2.413042683	-0.011621602	0.807604964
COMMD1	7.690316238	7.708651444	0.003435571	0.227074421
COMMD10	6.65179857	6.64328731	-0.001847172	0.744198219
COMMD2	3.860116636	3.921802246	0.022872351	0.323895147
COMMD3	9.504838834	9.519297275	0.002192912	0.768851183
COMMD4	8.22063302	8.318586866	0.017088978	0.02718134
COMMD5	7.036591099	6.964617197	-0.014832621	0.281236534
COMMD6	9.351459411	9.275694599	-0.011736213	0.173270654
COMMD7	6.212480517	6.152138528	-0.014081433	0.339005776
COMMD8	8.247952715	8.230083585	-0.003128979	0.688057193
COMMD9	6.086175391	6.072476211	-0.003250977	0.93402488
COMP	4.707050881	4.964435535	0.076806242	0.025319464
COMT	8.687100179	8.698989246	0.001973106	0.857654098
COMTD1	8.033320808	8.155281155	0.021738124	0.168317455

<b>COPA</b>	5.845667629	5.892732373	0.011568942	0.262872925
<b>COPB1</b>	6.703319404	6.632931345	-0.015229085	0.107223158
<b>COPB2</b>	9.714663444	9.645582099	-0.01029571	0.179001838
<b>COPE</b>	6.62597504	6.706509887	0.017429405	0.16959974
<b>COPG</b>	4.652404119	4.611098197	-0.012866029	0.549313198
<b>COPG2</b>	5.405429384	5.617803387	0.05559691	0.022083912
<b>COPS2</b>	7.781373219	7.64806288	-0.024930393	0.00602728
<b>COPS3</b>	8.666005801	8.696452606	0.005059825	0.672887095
<b>COPS4</b>	8.862084788	8.895301246	0.005397334	0.729112986
<b>COPS5</b>	9.215178636	9.191228676	-0.0037544	0.992844619
<b>COPS6</b>	10.09989656	10.11774042	0.002546615	0.482508294
<b>COPS7A</b>	6.201388583	6.253547401	0.012083516	0.311863411
<b>COPS7B</b>	3.212230682	3.181532099	-0.013853825	0.517134362
<b>COPS8</b>	6.304999629	6.270182465	-0.007988859	0.679445283
<b>COPZ1</b>	7.254506589	7.165865944	-0.017736439	0.137843918
<b>COPZ2</b>	6.535798106	6.575414486	0.00871842	0.866328894
<b>COQ10A</b>	5.627996325	5.811042092	0.046175518	0.048029341
<b>COQ10B</b>	2.825204285	2.865392007	0.020377334	0.407772603
<b>COQ2</b>	2.813038371	2.911528465	0.049647492	0.076471944
<b>COQ3</b>	3.73023953	3.823300725	0.035550408	0.259360307



<b>COQ4</b>	5.643301629	5.689805528	0.011839881	0.324233562
<b>COQ5</b>	7.611054748	7.560144296	-0.009682627	0.197283497
<b>COQ6</b>	4.855740132	4.947948549	0.027139285	0.064287999
<b>COQ7</b>	5.591074762	5.603735796	0.003263301	0.677929942
<b>COQ9</b>	6.58086255	6.615453486	0.007563366	0.266715475
<b>CORIN</b>	2.119106583	2.071261613	-0.032946365	0.15014303
<b>COR01A</b>	5.441808887	5.339539282	-0.027371026	0.343906937
<b>COR01B</b>	4.803531974	4.788390592	-0.004554752	0.693651617
<b>COR01C</b>	5.013865159	4.88269569	-0.038245331	0.078792197
<b>COR02A</b>	3.711393702	3.789068254	0.029882079	0.502078055
<b>COR02B</b>	5.428496801	5.55397662	0.032968346	0.193948298
<b>COR06</b>	6.43562351	6.323928458	-0.025258883	0.263461853
<b>COR07</b>	5.261308589	5.38599007	0.0337899	0.072216872
<b>CORT</b>	5.034002093	5.117000915	0.023592675	0.439332026
<b>COTL1</b>	9.755604947	9.812955	0.008456307	0.42038856
<b>COX1</b>	11.78169009	11.79341863	0.001435473	0.91101541
<b>COX10</b>	3.371077225	3.458583514	0.036971616	0.181246018
<b>COX11</b>	6.449407351	6.576737951	0.028205593	0.107073002
<b>COX15</b>	6.605309675	6.450497599	-0.034215745	0.012274416
<b>COX16</b>	9.288205722	9.282662007	-0.000861337	0.954339871

COX17	11.00507193	11.02635729	0.002787681	0.871757571
COX18	5.468265616	5.544028852	0.019851443	0.317173802
COX19	4.778030801	4.667658331	-0.033717193	0.148585662
COX4I1	10.60466681	10.63112077	0.003594405	0.372031258
COX4I2	2.891332841	2.909032746	0.00880484	0.644927966
COX4NB	8.772305026	8.813784965	0.006805721	0.133324043
COX5A	8.754414675	8.829408218	0.012306023	0.480792616
COX5B	11.54499089	11.58997001	0.005609798	0.436066026
COX6A1	11.60064523	11.66587478	0.008089443	0.461682189
COX6A2	11.9398416	11.89858842	-0.004993267	0.662340634
COX6B1	10.8310637	10.85449645	0.003117866	0.683993795
COX6B2	2.950314185	2.836196944	-0.056910883	0.093268279
COX6C	11.0712247	11.19433803	0.015954396	0.06183948
COX7A1	10.28812361	10.1513202	-0.019312516	0.005503711
COX7A2	11.75038709	11.84024338	0.010990453	0.269986237
COX7A2L	9.501654212	9.562493958	0.009208227	0.394614623
COX7B	8.895194093	8.934876028	0.006421627	0.445478343
COX7B2	1.868494358	1.857282056	-0.00868328	0.934024904
COX7C	12.3364697	12.37846076	0.004902329	0.245612282
COX8A	11.70698888	11.76643758	0.007307542	0.323548997

CP	8.950915603	9.327509697	0.05945669	0.007685459
CP110	5.774090066	5.742749493	-0.007851981	0.642455067
CPA1	2.150042536	2.20001407	0.033147548	0.394616935
CPA2	2.019122093	2.088646725	0.048840344	0.204079686
CPA3	3.627168894	3.520896549	-0.042901085	0.561339237
CPA4	2.049556861	2.094838683	0.031527136	0.389275214
CPA5	2.084231219	2.033183648	-0.035774802	0.358519209
ISM1	2.625998424	2.392096458	-0.134590485	0.001211817
CPAMD8	7.596409927	7.312077077	-0.055036482	0.198966969
CPB1	1.964892225	1.948398965	-0.012161061	0.876106902
CPB2	1.833728907	1.810963275	-0.018023082	0.705402574
CPD	4.322828424	4.34987707	0.008999055	0.807070601
CPE	10.61178911	10.76615259	0.020834869	0.736381441
CPEB1	6.699792265	6.717683613	0.003847486	0.718771236
CPEB2	2.77764998	2.710222718	-0.0354534	0.243397874
CPEB3	4.223916238	4.192995042	-0.010600102	0.67087494
CPEB4	8.33799857	8.389867662	0.00894693	0.297882895
CPLX1	6.982345411	7.045989331	0.013090563	0.491156864
CPLX2	3.835899199	3.963268472	0.04712589	0.102931462
CPLX3	8.399807219	8.724596859	0.054732252	0.24117423

CPLX4	3.533340079	3.767091303	0.092418387	0.356357032
CPM	5.342944424	5.404753901	0.016593918	0.435667541
CPN1	2.09744847	2.092161021	-0.003641476	0.952142157
CPN2	2.383947364	2.325524894	-0.035795999	0.38247261
CPNE1	4.952103384	4.939447486	-0.003691759	0.682480247
CPNE2	5.325582689	5.116533169	-0.057772775	0.082501674
CPNE3	4.782297126	4.736452937	-0.013896719	0.326609209
CPNE4	3.316205901	3.362927866	0.020184248	0.634076985
CPNE5	7.542810894	7.461146937	-0.015704836	0.092999079
CPNE6	7.235429358	7.435002387	0.039254575	0.241175072
CPNE7	3.280672808	3.36954931	0.038563922	0.245634977
CPNE8	3.995611086	3.910418359	-0.031093201	0.267607707
CPNE9	3.000756801	3.049851218	0.023412466	0.71516333
SULT1C2	3.151105477	2.872141106	-0.133731417	0.010507891
CPOX	2.890746464	2.824137972	-0.033631509	0.153891588
CPS1	2.191955371	2.181629268	-0.006812465	0.850618675
CPSF1	5.33045855	5.348895887	0.004981478	0.697220501
CPSF2	4.392488841	4.335151239	-0.018956296	0.121450792
CPSF3	5.297905007	5.39404312	0.025945079	0.012370409
CPSF3L	5.557792861	5.532170915	-0.006666337	0.651872743

CPSF4	6.705480523	6.664318993	-0.008883263	0.576783569
CPSF6	5.540625013	5.588886606	0.012512175	0.289008148
CPT1A	4.807547146	4.799472859	-0.002425047	0.929637627
CPT1B	6.769153119	6.725098606	-0.00941993	0.478649942
CPT1C	8.976356331	9.135080789	0.025287541	0.055050873
CPT2	7.046658556	7.149326585	0.020868046	0.210039373
CPVL	5.11253543	4.993485394	-0.033991785	0.981837695
CPXCR1	1.960529311	1.958742028	-0.001315808	0.776771977
CPXM1	4.432845874	4.150603254	-0.094912168	0.09905957
CPXM2	6.746365199	6.634180944	-0.024192056	0.960386024
CPZ	4.079970629	3.874101866	-0.074696878	0.179898495
CR1	2.332142318	2.267067803	-0.040828292	0.625745542
CR2	2.39864602	2.401699817	0.001835575	0.811882535
CRABP1	8.714051887	8.912015817	0.032408089	0.12599457
CRABP2	3.184420894	3.10060257	-0.038482418	0.220769837
CRADD	7.643086377	7.730928901	0.016486435	0.156295177
CRAMP1L	5.755585854	5.649764232	-0.026772122	0.111500696
CRAT	3.608676417	3.602435563	-0.00249716	0.66434965
CRB1	4.777305391	5.168002408	0.113409638	0.176783372
CRB2	3.094099	3.204233549	0.050459948	0.393086199

CRB3	2.672408927	2.737958303	0.034959692	0.071454534
CRBN	6.108134742	6.115386183	0.001711172	0.707453422
CRCP	4.463146563	4.528695345	0.021034306	0.094349683
CRCT1	2.40174798	2.350404986	-0.031175413	0.245074298
CREB1	4.563036053	4.479162951	-0.026764901	0.227340903
CREB3	6.532678748	6.55267	0.004408182	0.84305527
CREB3L1	5.74695155	5.711967866	-0.008809023	0.573491032
CREB3L2	5.252431967	5.101546761	-0.04205084	0.342151427
CREB3L3	2.437501702	2.474835796	0.02192958	0.212812445
CREB3L4	6.785153159	6.801342261	0.003438112	0.923608628
CREB5	3.422698291	3.408988373	-0.005790446	0.730150749
CREBBP	4.984249119	4.863431739	-0.035401509	0.019753088
CREBL2	6.075012821	6.121851408	0.011080574	0.107826208
CREBZF	5.501638656	5.620418345	0.030816131	0.131198908
CREG1	7.604717026	7.4174685	-0.035967671	0.020342723
CREG2	3.482886616	3.519471852	0.01507544	0.903363512
CRELD1	8.128054139	7.919810606	-0.037444081	0.002729109
CRELD2	9.390850563	9.305960415	-0.013100783	0.092062304
CREM	6.495343755	6.339540169	-0.03502768	0.050335156
CRH	2.767231265	2.947263697	0.090932928	0.047640839

CRHBP	3.273240457	2.802313592	-0.22410118	0.022692462
CRHR1	4.77753155	4.927467254	0.044580883	0.031371252
CRHR2	2.285924073	2.219572732	-0.042495501	0.092999274
CRIM1	4.19860304	4.134715761	-0.022121239	0.231888079
CRIM2	2.043872722	2.064462148	0.014460609	0.539693566
CRIP1	6.079215417	5.78121569	-0.072512243	0.149362797
CRIP2	5.733383046	5.550952345	-0.046651361	0.033723919
CRIP3	2.552290649	2.590265648	0.021307434	0.29820347
CRIPAK	6.089677517	6.049154704	-0.009632274	0.381345657
CRIPT	7.37259343	7.317130585	-0.010894194	0.372405701
CRISP1	1.885385583	1.911178049	0.019602588	0.931282596
CRISP2	2.038741013	2.042804592	0.002872689	0.439332081
CRISP3	1.81801453	1.826259817	0.006528298	0.687042019
CRISPLD1	2.619891669	2.728651049	0.058680751	0.064986881
CRISPLD2	3.201899411	3.110877197	-0.04160654	0.351699971
CRK	4.758210285	4.709732803	-0.014773818	0.792679434
CRKL	3.114244199	3.117291775	0.00141112	0.859821334
CRKRS	3.430829675	3.448242331	0.007303661	0.593857722
CRLF1	6.375456106	6.484595775	0.024488088	0.556698717
CRLF2	2.065471775	2.181046472	0.078549164	0.007391131

CRLF3	4.926619437	4.79952462	-0.037706515	0.009283777
CRLS1	7.888825344	7.909479655	0.003772289	0.518473561
CRMP1	5.640877543	5.969906197	0.081788645	0.264051406
CRNKL1	3.80033102	3.802992028	0.001009828	0.865243649
CRNN	2.025827715	2.008467894	-0.012416087	0.820990929
CROCC	3.583592199	3.667908345	0.033551116	0.218180251
CROCCL1	8.379303	8.348518465	-0.005310045	0.416818498
CROCCL2	2.759030755	2.746631746	-0.006498044	0.694161227
CROP	6.591136781	6.476547021	-0.025302467	0.007909192
CROT	2.873905649	3.011785106	0.067606137	0.11639234
CRP	1.964245199	1.913949732	-0.037422094	0.246196442
CRTAC1	8.91413	8.977900261	0.010284068	0.597682789
CRTAM	2.415590146	2.236572641	-0.111086077	0.057453387
CRTAP	5.615083689	5.654393866	0.010064855	0.56459849
CRTC1	12.95470193	12.9295915	-0.002799127	0.440106577
CRTC2	8.365041828	8.305450275	-0.010314369	0.229472023
CRTC3	4.456232815	4.496607042	0.013012205	0.626234363
CRX	4.594001318	4.743200085	0.046109457	0.240345407
CRY1	4.37509002	4.522219782	0.047718408	0.10919295
CRY2	8.143483887	8.302978514	0.027982835	0.081409976



PLAC4	3.471590444	3.164391894	-0.133668476	0.000644891
CRYAB	11.13004444	11.04789182	-0.010688255	0.300125815
CRYBA1	1.990625245	1.918705592	-0.053088285	0.129969714
CRYBA2	3.659701232	3.638074634	-0.008550736	0.986240175
CRYBA4	2.026681808	2.076282556	0.034883189	0.658349119
CRYBB1	2.239247934	2.162486324	-0.050323266	0.195372877
CRYBB2	4.317543325	4.294913085	-0.007581719	0.869586026
CRYBB2P1	4.147006768	4.114440254	-0.011374228	0.952142139
CRYBB3	2.61570855	2.631849972	0.008875451	0.921417337
CRYBG3	4.857742695	4.854797627	-0.000874918	0.847915812
CRYGA	2.182197781	2.215867275	0.022089605	0.202120818
CRYGB	1.887558974	1.840693423	-0.036272362	0.153294724
CRYGC	1.970273285	1.99011207	0.014453925	0.889718996
CRYGD	3.554173616	3.785547049	0.090987643	0.04034172
CRYGN	2.797095901	2.728314535	-0.035919743	0.180122555
CRYGS	4.156546901	4.008421831	-0.05235115	0.019500049
CRYL1	9.29310755	9.327181127	0.005280029	0.847375295
CLEC4D	3.244237623	2.958944831	-0.132796695	0.013893536
CRYZ	5.791054404	5.775136176	-0.003971085	0.663848908
CRYZL1	4.461006576	4.589772965	0.041053517	0.02845448

CS	3.291762457	3.422361303	0.056131844	0.044189265
CSAD	4.259726669	4.083421599	-0.060982333	0.017152128
CSAG1	2.344555483	2.203781739	-0.089333073	0.079499466
CSAG2	2.160537914	2.10971612	-0.034341663	0.445479049
CSDA	8.605511079	8.675380077	0.011666089	0.438515533
CSDC2	5.159347066	5.209977775	0.014088719	0.235136226
CSDE1	9.011839735	8.942229085	-0.011187151	0.055049684
CSE1L	8.446388146	8.424199718	-0.003794907	0.48466558
CSF1	2.559029682	2.487435585	-0.040937716	0.197523436
CSF1R	10.37938689	10.23656151	-0.019990035	0.396533431
CSF2	1.87035794	1.89594331	0.019601434	0.339353912
CSF2RA	2.805750887	2.692508556	-0.059435993	0.322543612
CSF2RB	2.243085603	2.271165683	0.017948277	0.897356176
CSF3	3.176008848	3.349359239	0.076670191	0.827972551
CSF3R	2.816424974	2.698921732	-0.0614819	0.301096635
CSGALNACT1	4.927014053	4.834100648	-0.027466076	0.139499239
CSGALNACT2	4.188811748	4.181332535	-0.002578265	0.683493011
CSGLCA-T	8.51962457	8.476004056	-0.007405579	0.609225477
CSH1	2.470577172	2.443403768	-0.015955835	0.542890285
CSH2	2.253382046	2.209790838	-0.028182112	0.577726473

CSHL1	2.091864245	2.112032007	0.01384247	0.433234159
CSK	4.137599106	4.15127012	0.004758941	0.686027551
CSMD1	2.318134464	2.420610085	0.062406454	0.091002716
CSMD2	2.062069901	2.037780831	-0.017094344	0.555772786
CSMD3	2.424752603	2.438441366	0.008121726	0.606331064
CSN1S1	2.085989656	2.068726641	-0.011988982	0.816701474
CSN1S2A	1.879394311	1.883883732	0.003442142	0.678434887
CSN2	1.886917033	1.89842612	0.008772866	0.913205444
CSN3	2.030254397	1.995305289	-0.025051012	0.657351001
CSNK1A1	7.383252086	7.364100789	-0.003747045	0.436886088
CSNK1A1L	2.388489424	2.411458338	0.013807397	0.463369351
CSNK1D	9.105915974	9.17753462	0.011302505	0.11368833
CSNK1E	11.15847742	11.2722222	0.014631772	0.011988502
CSNK1G1	3.446964583	3.46418681	0.007190256	0.760957433
CSNK1G2	8.129393795	8.111291162	-0.003216193	0.339353452
CSNK1G3	4.327566815	4.369709472	0.013981269	0.614064333
CSNK2A1	4.953997854	5.026782148	0.021041923	0.035374779
CSNK2A2	6.479987556	6.425739965	-0.012128443	0.159544543
CSNK2B	8.700940775	8.768097042	0.011092367	0.022609947
CSPG4	4.784550662	4.669198514	-0.035208514	0.80226607

CSPG4LYP1	2.229318907	2.175265521	-0.035411498	0.295010884
CSPG5	4.449362444	4.694332859	0.077321517	0.049931212
CSPPI	5.920564497	5.948461148	0.006781759	0.792147822
CSRNP2	6.550053331	6.524037169	-0.005741652	0.971384272
CD8B	3.336985868	3.04426743	-0.132450476	0.007406414
CSRPI	6.078169351	6.030234049	-0.011422874	0.619406465
CSRPI2	10.12200833	10.10894204	-0.001863548	0.736382621
CSRPI2BP	8.782385616	8.86549969	0.013589067	0.087239983
CSRPI3	2.078810377	2.013688873	-0.04591737	0.060601497
CST1	2.015654854	2.142047662	0.087741958	0.012346455
CST11	1.881920258	1.858786042	-0.017844782	0.276946714
CST2	2.987935146	3.08020119	0.043875753	0.064586661
CST3	9.848367007	9.93615693	0.012803433	0.430403981
CST5	7.961436073	8.077849373	0.020942559	0.344962952
ITGB1BP3	2.880288689	2.627894782	-0.132305906	0.00084119
CST7	2.936632709	2.676150796	-0.134003425	0.03471825
CST8	1.883743974	1.948687866	0.048900127	0.034130258
CST9	1.952198947	1.940110599	-0.008961187	0.695690124
CST9L	1.871089159	1.86075181	-0.007992667	0.868500077
CSTA	4.851874881	4.680441838	-0.051897619	0.331051497

CSTB	10.2436904	10.14278281	-0.014282025	0.086349151
CSTF1	7.115929907	7.160181528	0.008943864	0.482942865
CSTF2	5.337048762	5.364202275	0.007321447	0.885904153
CSTF2T	6.341095371	6.336718437	-0.000996163	0.982387962
CSTF3	5.726785404	5.796242106	0.017392313	0.119964706
CSTL1	1.950916106	1.959141951	0.006070193	0.72031928
CTA-216E10.6	3.702793113	3.721900775	0.00742565	0.824211357
CTAG1A	2.822386073	2.975207599	0.076074991	0.037535067
CTAG2	1.930207046	1.951650676	0.015939241	0.601519799
CTAGE1	2.268928377	2.303541345	0.021842424	0.413264845
CTAGE3	2.04605545	2.11506931	0.047859696	0.186480379
CTAGE4	5.670814728	5.677199831	0.001623501	0.988441567
CTAGE5	4.267647417	4.278768599	0.003754669	0.872845466
CTAGE6	2.717827821	2.737623817	0.010470154	0.943354346
CTAGEP	3.491381106	3.461864592	-0.012248549	0.679445428
CTBP1	7.51392053	7.494838789	-0.003668411	0.974684858
CTBP2	9.871252907	9.948709655	0.01127621	0.604884469
CTBS	6.87156498	7.029822852	0.032849628	0.12753911
CTCF	4.165733854	4.170898641	0.001787583	0.781534604
CTCFL	1.87710253	1.857638437	-0.015037726	0.781534578

<b>CTD-2267G17.3</b>	2.062904152	2.007321197	-0.039405307	0.42078796
<b>CTDP1</b>	5.45757647	5.521708211	0.016854212	0.083604542
<b>CTDSP1</b>	9.113585742	9.125086232	0.001819398	0.960385976
<b>CTDSP2</b>	9.155219609	9.015439127	-0.022196728	0.034188295
<b>CTDSPL</b>	4.799518391	4.686275655	-0.034447827	0.451674522
<b>CTDSPL2</b>	4.414772715	4.363968113	-0.016698606	0.275425482
<b>CTF1</b>	2.256170781	2.253720754	-0.001567507	0.876650893
<b>CTF8</b>	5.446968199	5.501492704	0.01436967	0.494201914
<b>CTGF</b>	6.564200715	6.068478289	-0.113284557	0.098355319
<b>CTH</b>	7.652324437	7.625399641	-0.005085091	0.636536337
<b>CTHRC1</b>	4.523060026	4.589643246	0.021082875	0.742111651
<b>CTLA4</b>	1.975574106	2.084679803	0.077553845	0.016833213
<b>CTNNA1</b>	7.753008735	7.704909577	-0.008978265	0.26375606
<b>SNAI1</b>	6.097845993	5.567467106	-0.131278585	0.015374235
<b>CTNNA3</b>	1.992305338	1.920988542	-0.052589856	0.07670137
<b>CTNNAL1</b>	9.755344417	9.696500634	-0.008728621	0.604884685
<b>CTNNB1</b>	7.497829166	7.374482211	-0.023931199	0.099342145
<b>CTNNBIP1</b>	9.303272152	9.537011732	0.035799061	0.061362652
<b>CTNNBL1</b>	5.730849887	5.731052359	5.10E-05	0.905002784
<b>CTNND1</b>	4.04952904	3.973525704	-0.027334455	0.489421244

CTNND2	7.756268285	7.951227197	0.035814838	0.051812777
CTNS	5.581588629	5.548410683	-0.008601222	0.660846523
CTPS	6.649990576	6.643195077	-0.001475016	0.818309374
CTPS2	2.673032781	2.723775218	0.027130118	0.608742897
CTR9	7.634980126	7.612063366	-0.00433683	0.526549201
CTRB1	1.938694371	1.860918261	-0.059070697	0.09448575
CTRB2	6.095428556	6.128338634	0.007768361	0.579141189
CTRC	2.208323689	2.21197757	0.002385104	0.733264943
CTRL	3.081762735	3.043276986	-0.018130145	0.276337444
CTSA	9.135885371	9.115331908	-0.00324936	0.783122946
CTSB	9.601019338	9.581850979	-0.002883208	0.837122554
CTSC	5.939318841	5.654373183	-0.07093038	0.309887321
CTSD	8.007493265	8.091329141	0.01502603	0.693142492
CTSE	2.147650007	2.125732239	-0.014799018	0.884814708
CTSF	11.62298509	11.77478232	0.018719751	0.00466779
CTSG	5.475921715	4.968758873	-0.14021629	0.091664538
CTSH	8.847786073	8.846709408	-0.000175569	0.647404211
CTSK	9.983601821	9.753926162	-0.033577345	0.659346552
CTSL1	9.247023026	9.172911	-0.011609339	0.319515079
LCK	3.891751715	3.555041444	-0.130553294	0.016241783

CTSO	3.524147132	3.462057317	-0.025644548	0.631131212
CTSS	4.402608053	4.215253437	-0.062739039	0.257036588
CTSW	2.311417225	2.223128472	-0.056186376	0.096128809
CTSZ	8.812188623	8.579199859	-0.038657275	0.13368329
CTTN	3.362798742	3.28542331	-0.033583172	0.140425434
CTTNBP2	5.576892066	5.740928437	0.041822722	0.142667199
CTTNBP2NL	3.935324735	3.900596676	-0.012787858	0.643938254
CTXN1	3.017899781	3.02931688	0.005447601	0.971934346
CTXN3	2.234835523	2.141748211	-0.061379774	0.154489969
CUBN	2.366754464	2.49871669	0.078277292	0.010260285
CUEDC1	6.681406457	6.889084437	0.044160434	0.005574436
CUEDC2	7.394164185	7.405109845	0.002134058	0.682986522
CUGBP1	7.906272046	7.950284324	0.008008858	0.327289148
CUGBP2	7.344824662	7.407358669	0.012231144	0.616004782
CUL1	7.481013517	7.547464866	0.012758398	0.577726383
CUL2	3.520227384	3.428622535	-0.038039537	0.061362621
CUL3	3.964794272	4.108194754	0.051258568	0.177225706
CUL4A	7.470393265	7.459245901	-0.002154406	0.772544684
CUL4B	5.737399954	5.745013711	0.001913244	0.952142117
CUL5	6.774470464	6.90457993	0.027445464	0.007391124



CUL7	4.373038497	4.363406451	-0.003181182	0.557625399
CUL9	9.714400106	9.739042465	0.003655027	0.398841818
CUTA	10.7702037	10.83221406	0.008282618	0.119140527
CUTC	5.705319907	5.730669606	0.006395939	0.66134655
CUX1	7.143535656	7.143764401	4.62E-05	0.920321839
CUX2	3.207397921	3.450412141	0.105365347	0.061076439
CUZD1	3.289748377	3.247548641	-0.018626107	0.737423664
CWC15	9.192951795	9.206327408	0.002097575	0.554383789
CWC22	4.929389536	4.933491986	0.001200173	0.885359397
CWF19L1	5.040104033	5.001662859	-0.011045698	0.376859387
CWF19L2	4.810287914	4.756405408	-0.01625156	0.191825984
CX3CL1	8.485521291	8.456173845	-0.004998255	0.636043621
CX3CR1	5.151174232	5.298732599	0.040745985	0.267905554
SNHG7	4.432102795	4.054514739	-0.128462085	0.001052532
CXADRP2	1.96994147	2.059826106	0.064369782	0.036969027
CXADRP3	2.33087645	2.414606479	0.050915549	0.087240473
CXCL1	5.201425	5.361626754	0.043763867	0.970834227
FLT3	2.490395225	2.280899303	-0.12677196	0.010017939
CXCL11	2.641982344	2.778520873	0.072696253	0.068891079
HDAC10	3.415958219	3.13430357	-0.124145411	7.81E-05

<b>CXCL13</b>	2.03322806	2.111717232	0.054644619	0.833890641
<b>CXCL14</b>	9.721905139	10.02653936	0.044512786	0.065287801
<b>CXCL16</b>	4.622997596	4.558150317	-0.02038011	0.478221636
<b>CXCL17</b>	1.943809311	1.85688638	-0.066001155	0.126508213
<b>CXCL2</b>	5.308078477	5.361659331	0.014489856	0.99339503
<b>CXCL3</b>	3.281658682	3.358353352	0.033328837	0.652370173
<b>CXCL5</b>	3.204232596	3.337669338	0.058862157	0.021062712
<b>CXCL6</b>	2.037401252	2.178148915	0.096372455	0.234592717
<b>CXCL9</b>	3.627161735	3.939188099	0.119057232	0.245074523
<b>CXCR3</b>	3.632352894	3.480973937	-0.06141336	0.117196886
<b>CXCR4</b>	8.996063086	9.047464613	0.008219782	0.668361913
<b>CXCR5</b>	2.170889199	2.135163535	-0.023939521	0.405432132
<b>CXCR6</b>	2.629022139	2.542071275	-0.04852181	0.103808188
<b>CXCR7</b>	8.601193861	8.330233155	-0.046180047	0.480363736
<b>CXXC1</b>	5.816535801	5.810786894	-0.001426626	0.869586057
<b>CXXC4</b>	6.077452119	6.126271035	0.011542573	0.787366985
<b>CXXC5</b>	9.837963199	10.09473497	0.037171471	0.018480398
<b>CXorf15</b>	5.24342102	5.375190662	0.035807538	0.047486084
<b>CXorf18</b>	2.211269609	2.210636817	-0.000412911	0.780475569
<b>CXorf21</b>	2.863910675	2.82668169	-0.018877064	0.644433189

<b>CXorf22</b>	1.939050954	1.961204803	0.016389485	0.275122276
<b>CXorf23</b>	3.935321371	3.940558711	0.001918741	0.751516074
<b>CXorf24</b>	2.46853945	2.444587056	-0.014066918	0.682986593
<b>CXorf26</b>	4.287563053	4.266441746	-0.007124538	0.566932189
<b>CXorf27</b>	1.919016311	1.957446528	0.028605924	0.228938345
<b>CXorf36</b>	3.372820252	3.26400769	-0.047310978	0.170243699
<b>CXorf38</b>	3.978004689	4.097182838	0.042587298	0.123454558
<b>CXorf39</b>	5.156082901	5.015934056	-0.039757078	0.023867358
<b>CXorf40B</b>	8.214129245	8.217435444	0.00058057	0.947198133
<b>CXorf41</b>	1.900144013	1.79934688	-0.078635428	0.030885678
<b>CXorf42</b>	4.066931921	4.011257718	-0.01988618	0.413658869
<b>CXorf48</b>	2.155892993	2.086827725	-0.046974066	0.130670986
<b>CXorf50</b>	4.267150238	4.287413028	0.0068345	0.720319375
<b>CXorf51</b>	1.970172252	1.953449352	-0.012297919	0.625745665
<b>CXorf52</b>	2.176154212	2.21927307	0.028306399	0.258196805
<b>CXorf56</b>	3.064880748	3.088196246	0.010933494	0.695690193
<b>CXorf57</b>	3.503481265	3.580244437	0.031268908	0.139499239
<b>CXorf58</b>	1.959290768	1.881026577	-0.058811283	0.134220702
<b>CXorf59</b>	1.956298457	1.97849293	0.016275422	0.745242252
<b>CXorf61</b>	1.855617272	1.88871919	0.025509042	0.391558953

CXorf62	2.042565219	1.973378092	-0.049714747	0.156094212
CYB561	7.112637921	7.139680169	0.005474725	0.575842299
CYB561D1	5.159550748	5.226932704	0.018719132	0.337265948
CYB561D2	5.924077185	6.030283099	0.025635295	0.514905605
CYB5A	9.063654159	8.801786739	-0.042296397	0.0709138
CYB5B	4.701024947	4.809659845	0.032959529	0.085344296
CYB5D1	2.941408278	2.941913359	0.00024771	0.836045095
CYB5D2	6.23747606	6.343830641	0.024391883	0.027374174
CYB5R1	9.004429543	9.03990143	0.005672162	0.478220481
CYB5R2	8.762350543	8.858156225	0.01568851	0.14646403
CYB5R3	11.29838144	11.30385376	0.000698594	0.79427039
CYB5R4	5.071064848	5.099655535	0.008111078	0.454166517
CYB5RL	2.108880523	2.123318542	0.009843459	0.81777335
CYBA	5.629320192	5.436510261	-0.050279839	0.32321889
CYBASC3	6.06792447	5.959902232	-0.025914463	0.231349908
CYBB	5.242042358	5.093275155	-0.041535353	0.261405633
CYBRD1	6.754317013	6.642504352	-0.024082626	0.286505913
CYC1	8.53074102	8.583305317	0.008862251	0.357076193
CYCS	7.447325053	7.568043225	0.023198001	0.150337794
CYFIP1	6.040420238	5.92856257	-0.026966569	0.444245814

CYFIP2	7.823398172	7.946398282	0.022505712	0.319180118
CYGB	3.594068331	3.614009817	0.007982587	0.940060664
CYHR1	7.996193788	7.972758063	-0.004234546	0.724452703
CYLC1	1.889664934	1.90080669	0.008481374	0.721352096
CYLC2	1.951308642	1.87319193	-0.058943262	0.084470777
CYLD	4.23029151	4.169270204	-0.020962209	0.197763322
CYP11A1	2.828268921	2.818872232	-0.004801214	0.978536188
CYP11B1	2.731515788	2.742972232	0.006038256	0.824748447
CYP11B2	1.893082205	1.902526444	0.007179446	0.393086143
CYP17A1	2.616036722	2.653656	0.02059857	0.701307309
CYP19A1	1.948526298	1.974200599	0.018885187	0.177447078
CYP1A1	2.310289252	2.285091732	-0.015821409	0.807605009
CYP1A2	3.814244377	3.763991324	-0.019133977	0.338657293
CYP1B1	8.664056649	8.207442401	-0.078109956	0.149947146
CYP20A1	3.92023047	3.828893979	-0.03401076	0.097097801
CYP21A2	3.718325106	3.73570019	0.00672576	0.793211216
CYP24A1	2.081903238	2.093247746	0.007840055	0.506040582
CYP26A1	4.896803252	5.081008211	0.053274564	0.298524218
CYP26B1	5.904754013	5.807106317	-0.024057512	0.651376011
CYP27A1	5.821156152	5.844521894	0.005779293	0.687549782

CYP27B1	2.901243947	3.154343648	0.120668235	0.030091193
CYP2A13	2.329007596	2.274816683	-0.033965055	0.670372299
CYP2A6	2.058096026	2.033506585	-0.017340635	0.603923171
CYP2A7	2.080797616	2.028841479	-0.036480505	0.296923758
CYP2B6	2.666921762	2.788602035	0.064366559	0.10632393
CYP2B7P1	2.026496166	2.125350718	0.068713484	0.13693139
CYP2C18	1.913091523	1.867676641	-0.034661198	0.056374955
CYP2C19	1.949708543	1.925887669	-0.017734918	0.769379842
CYP2C8	1.938625517	1.959578965	0.015509565	0.326268778
CYP2C9	1.976781245	1.932905592	-0.032382054	0.517580712
CYP2D6	3.180165762	3.18998657	0.004448384	0.636536216
CYP2E1	3.307718616	3.388982606	0.035015721	0.282470634
CYP2F1	2.125366762	2.140316775	0.010112517	0.921417291
CYP2J2	4.630719815	4.833100092	0.061712404	0.231887912
CYP2R1	7.033931914	7.087332979	0.010911461	0.232157387
CYP2S1	2.443242722	2.504612373	0.035790148	0.268501818
CYP2U1	4.214129656	4.230458134	0.005579205	0.963684791
CYP2W1	3.37498247	3.542827754	0.070021317	0.013787087
CYP3A1	2.947923146	2.784960479	-0.082042058	0.029008202
CYP3A4	2.011670934	1.930146514	-0.059683966	0.26552915

CYP3A43	2.185471344	2.159440915	-0.017286618	0.711047793
CYP3A5	4.834677172	4.794213986	-0.012125255	0.258777677
CYP3A7	2.353658649	2.323659183	-0.018506621	0.648396668
CYP46A1	2.504540377	2.556860261	0.029827445	0.4054323
CYP4A11	2.209425497	2.135257225	-0.049261408	0.01519983
CYP4B1	3.701399377	3.381286845	-0.1304984	0.057634708
S100P	6.082911636	5.583022514	-0.123715673	0.014081612
CYP4F12	2.485893086	2.432298627	-0.031443883	0.307919346
CYP4F2	4.509066556	4.517851951	0.00280819	0.831737392
CYP4F22	1.945047523	1.914651993	-0.022723213	0.855488304
CYP4F3	1.84633406	1.79848519	-0.037881326	0.33830904
CYP4F8	3.243505987	3.303509366	0.026445333	0.219731425
CYP4V2	6.126399179	6.19617031	0.016337427	0.506040735
FAM26E	2.52085147	2.313923035	-0.123570238	0.000769029
CYP4X1	7.398369762	6.792376528	-0.123290971	0.001383158
CYP4Z2P	1.901941013	1.978639458	0.057036249	0.378724639
CYP51A1	7.663701642	7.729822937	0.012393971	0.286505855
CYP7A1	2.169694583	2.140400106	-0.019611471	0.612127089
CYP7B1	3.602422795	3.596654725	-0.002311843	0.862531739
CYP8B1	1.940832132	1.931096085	-0.007255392	0.792147676

CYR61	8.359466093	8.386630725	0.004680531	0.929637627
CYSLTR1	2.709976033	2.712888979	0.001549916	0.930734267
CYSLTR2	2.002208536	2.000475	-0.001249644	0.878826661
CYTB	12.35017169	12.38902279	0.004531298	0.465042115
CYTH1	10.28552642	10.29250737	0.000978849	0.859279031
CYTH2	5.344323258	5.378452704	0.009183918	0.408554248
CYTH3	4.486929477	4.302708458	-0.060483419	0.010219542
CYTH4	4.992056603	4.921004197	-0.020681545	0.898448004
CYTIP	4.835798238	4.675070908	-0.048765806	0.390035765
CYTL1	2.863541099	2.796656944	-0.034097016	0.293106744
CYTSA	8.371576748	8.310854901	-0.010502485	0.23215605
CYTSB	3.543544629	3.611944838	0.027582641	0.164933855
CYYR1	5.111095212	4.870992056	-0.069416836	0.421983218
CYorf15A	2.540596709	2.488555803	-0.029858644	0.4981316
CYorf15B	2.603663722	2.465507359	-0.078658569	0.109345496
CYorf16	1.988538411	1.907841338	-0.059767232	0.272702101
D21S2091E	2.149733974	2.185126585	0.023558718	0.572082541
D2HGDH	7.776926662	7.781657739	0.000877394	0.727559132
D4S234E	6.094170338	6.064651035	-0.007005191	0.646909276
DAAM1	7.456799656	7.692477141	0.044891671	0.011461637



DAAM2	5.69072551	5.622374239	-0.017433107	0.750992595
DAB1	2.849014775	2.898141873	0.024665118	0.421584707
DAB2	7.027999901	6.703545965	-0.068189733	0.021024257
DAB2IP	5.456852331	5.594692183	0.035989754	0.032083943
DACH1	6.051172728	6.16060019	0.025856144	0.383601033
DACH2	3.109434894	3.122290655	0.005952434	0.766218233
DACT1	6.348824331	6.128905183	-0.050860074	0.362869059
DACT2	5.181107007	5.555875859	0.100753984	0.053753303
DACT3	7.571498166	7.572366183	0.000165385	0.839818142
DAD1	9.730714669	9.644270592	-0.012873638	0.06126627
DAG1	4.684901768	4.888847324	0.061475553	0.001704323
DAGLA	2.188040894	2.233310423	0.029544093	0.371297539
DAGLB	4.607017874	4.523793472	-0.026300129	0.144556132
DAK	3.67400602	3.770314303	0.037330805	0.130145078
DALRD3	6.30093498	6.352155127	0.011680223	0.299808356
DAND5	2.85406355	2.948267599	0.046850017	0.189488174
DAO	4.117379742	4.281638437	0.056436459	0.542433549
DAOA	1.898316616	1.89046838	-0.005976917	0.911564169
DAP	5.847404762	5.831324521	-0.003972846	0.865786232
DAP3	10.54439633	10.54167211	-0.000372779	0.818843677

DAPK1	2.838608351	2.862805127	0.012245657	0.342151369
DAPK2	3.735721093	3.650583317	-0.033259741	0.328654671
DAPK3	5.958404821	6.106485373	0.035416121	0.037788719
DAPL1	8.215220113	8.714268923	0.085080405	0.022204368
DAPP1	2.604732384	2.550187972	-0.030531564	0.624280229
DARC	4.170884596	4.352203514	0.061392625	0.062519325
DARS	9.665843543	9.837730176	0.025429843	0.006220009
DARS2	3.484879119	3.534382697	0.020349647	0.484665789
DAXX	5.928437762	5.89075288	-0.009199949	0.599599971
DAZ2	1.957150272	1.94150988	-0.011575482	0.1419168
DAZAP1	7.477424801	7.366637634	-0.021535219	0.00190712
DAZAP2	10.87273159	10.93870276	0.008727218	0.299161562
DAZL	1.913232311	1.867305887	-0.035053783	0.757806193
DBC1	3.462138113	3.431125275	-0.012981477	0.845214918
DBF4	2.792534808	2.798814021	0.003240361	0.795339325
DBF4B	3.231279404	3.216527993	-0.006601259	0.698241197
DBH	3.347122285	3.106281401	-0.107732729	0.129620587
DBI	11.95521039	12.04774864	0.011124056	0.065180881
DBN1	7.266711927	7.180978535	-0.017122265	0.093402351
DBNDD1	2.818286636	2.980832465	0.080896943	0.067949296

DBNDD2	8.650239623	8.738349042	0.014620636	0.085971907
DBNL	4.808176377	4.777614155	-0.009199474	0.570207207
DBP	6.253687735	6.316835225	0.014494757	0.535142616
DBR1	3.647891199	3.736999887	0.03481782	0.096128889
DBT	4.192531709	4.091374873	-0.035235965	0.030832305
DBX2	1.959137272	1.906075796	-0.039612997	0.070914102
DCAKD	5.842089305	5.851867697	0.00241274	0.904456269
DCBLD1	2.878361457	2.805101028	-0.037195042	0.120953912
DCBLD2	6.483254828	6.512370894	0.006464587	0.657351001
DCC	1.848304079	1.850189711	0.001471081	0.431616243
DCD	1.930231616	1.945095789	0.011067232	0.348853163
DCDC1	1.918609477	1.894537345	-0.01821551	0.356716527
DCDC2	2.11378296	2.208510162	0.06324622	0.046113198
DCHS1	4.424040914	4.269371986	-0.051340859	0.101916374
DCHS2	1.986560073	1.966283415	-0.014801137	0.385109145
DCI	10.5305084	10.61499882	0.01152912	0.230808843
DCK	4.552247728	4.502341415	-0.015903608	0.545638624
DCLK1	4.287514947	4.450537176	0.053837778	0.529255448
DCLK2	4.662572887	4.897166563	0.070820988	0.022325572
DCLK3	2.331555417	2.349536338	0.01108336	0.902270836

DCLRE1A	6.263587616	6.311634387	0.011024406	0.536960575
DCLRE1B	2.634971212	2.600248965	-0.019137437	0.477366231
DCLRE1C	3.926691159	3.896453472	-0.011152543	0.458754839
DCN	8.190902967	7.785911352	-0.073156585	0.211548703
DCP1A	8.540988185	8.492154254	-0.008272421	0.088780704
DCP1B	8.032208424	8.052816387	0.003696733	0.9972479
DCP2	4.970955848	4.89426331	-0.022431569	0.104543089
DCPS	6.653344139	6.672596627	0.004168634	0.79267941
DCST1	2.431978285	2.521596176	0.052206905	0.182827518
DCST2	2.92195798	2.988063437	0.032275346	0.330022839
DCT	3.550262801	3.223542232	-0.139278937	0.02447441
DCTD	5.83402502	5.842445775	0.002080866	0.839278888
DCTN1	5.320257656	5.335915085	0.004239592	0.885904153
DCTN2	9.044120702	9.091260246	0.007500051	0.892445224
DCTN3	8.820485497	8.867181042	0.007617465	0.408161553
DCTN4	7.890806841	7.812209246	-0.014442233	0.130495393
DCTN5	3.954813166	3.951042373	-0.001376221	0.787366985
DCTN6	7.546633457	7.587274155	0.007748465	0.154688674
DCTPP1	7.675798788	7.778270211	0.01913246	0.105430318
DCUN1D1	5.062262576	4.993727014	-0.019665384	0.060696031

DCUN1D2	3.754687106	3.816196176	0.02344265	0.474377738
DCUN1D3	7.329194199	7.3344885	0.001041766	0.945001565
DCUN1D4	5.873160351	5.798881894	-0.018362272	0.110111356
DCUN1D5	7.438664	7.341672331	-0.018934807	0.012491438
DCX	3.39510445	3.549595345	0.064198607	0.14608134
DCXR	8.191809139	8.20919781	0.003059149	0.820990615
DDA1	4.308810073	4.32101843	0.004081877	0.532874273
DDAH1	7.813464172	8.082465127	0.048833055	0.064786596
DDAH2	8.619154146	8.559146289	-0.010079389	0.226544117
DDB1	9.807704364	9.942376113	0.019675188	0.21357268
DDB2	7.366050709	7.550806613	0.035739439	0.131551421
DDC	8.996290212	9.349947599	0.055628078	0.266120746
DDEF1IT1	3.151199285	2.9334555	-0.103299888	0.071889407
DDHD1	3.179165755	3.179425176	0.00011772	0.805468257
DDHD2	5.114104603	5.173318634	0.016608383	0.136567351
DDI1	1.928674119	1.815120415	-0.087544137	0.00339189
DDI2	2.011010252	2.088934535	0.054846845	0.068576011
DDIT3	7.378915715	7.230157225	-0.029381817	0.266121772
DDIT4	10.70568999	10.93447527	0.030506207	0.004800504
DDIT4L	6.79604855	6.526172169	-0.058459111	0.321195532

DDN	2.320398007	2.270368901	-0.031445552	0.642455106
DDO	2.344556305	2.462118768	0.07058543	0.081049284
DDOST	8.616540768	8.624874852	0.001394728	0.686026913
DDR1	8.287866848	8.53731807	0.042782105	0.062325126
DDR2	5.190888934	5.118341211	-0.020305293	0.668864557
DDRGK1	8.83441004	8.861287275	0.004382498	0.618432954
DDT	9.840692152	9.885856542	0.006606179	0.166616265
DDX1	10.34102063	10.40917107	0.009476602	0.381718546
DDX10	6.982252291	6.967462282	-0.0030592	0.986240164
DDX11	4.885979404	4.722991718	-0.048946776	0.001129574
DDX17	7.770356993	7.628579507	-0.026566439	0.040543792
DDX18	4.535972311	4.380186134	-0.050419656	0.000731465
DDX19A	3.374960146	3.372622894	-0.000999452	0.92799295
DDX19B	4.515557768	4.588070042	0.022983213	0.194659498
DDX20	5.929831907	5.950663535	0.005059337	0.806002259
DDX21	6.811618046	6.69185807	-0.025590693	0.213827674
DDX23	9.199120033	9.156072754	-0.006766936	0.227604335
DDX24	7.493802662	7.481471437	-0.002375943	0.61891971
ECSM2	5.653129556	5.190379556	-0.123209718	0.016119652
DDX26B	4.138115762	4.124717641	-0.004678642	0.628190839

DDX27	8.511576828	8.433939901	-0.013219684	0.154289887
DDX28	8.154090132	8.221314077	0.011845106	0.357076479
DDX31	2.733774848	2.836943007	0.05344274	0.024650158
DDX39	9.18528157	9.085317866	-0.015786956	0.074206713
DDX3X	7.596503748	7.66087031	0.01217272	0.178780369
VIPR1	3.456982132	3.175534577	-0.122513668	3.20E-05
DDX4	1.950230232	1.933342535	-0.012547183	0.696710135
DDX41	7.383732675	7.445171479	0.011954756	0.099909428
DDX42	5.731832298	5.70830012	-0.005935212	0.888083689
DDX43	3.40272045	3.363397261	-0.016769442	0.726005811
DDX46	5.514011404	5.577509127	0.016518718	0.257036248
DDX47	9.629413424	9.60275669	-0.003999295	0.261694951
DDX49	5.887803298	5.846372585	-0.0101877	0.410513239
DDX5	11.27556728	11.23354941	-0.005386178	0.366512523
DDX50	7.916203106	7.951583852	0.006433627	0.321867698
DDX51	7.028133199	7.063147134	0.007169616	0.449603805
DDX52	5.918202636	5.949955803	0.007719857	0.654360429
DDX53	1.888297066	1.852378958	-0.027706473	0.284638495
DDX54	8.71431	8.757649627	0.007157296	0.144934943
DDX55	3.814788139	3.844322183	0.011126313	0.46294843

DDX56	4.68404202	4.685878627	0.000565568	0.861447375
DDX58	4.602787384	4.538028218	-0.020442222	0.529255596
DDX59	3.933642828	3.90322638	-0.011198829	0.554847749
DDX6	6.167551013	6.197407683	0.006967133	0.505158787
DDX60	3.997399854	3.949617627	-0.017348902	0.491156864
DDX60L	3.314896768	3.167972063	-0.06540433	0.00757591
DEAF1	7.462461974	7.590554556	0.024553616	0.008238705
	1-Dec	2.073230589	2.11144519	0.026350212
DECR1	8.065714219	8.038811725	-0.004820028	0.576312388
DECR2	7.18517694	7.168200585	-0.003412676	0.68399925
DEDD	4.992009609	4.976296739	-0.004548195	0.940060657
DEDD2	6.328271013	6.223120282	-0.024173255	0.333114392
DEF6	4.585772483	4.447494796	-0.044171862	0.052902221
DEF8	7.770267775	7.802868127	0.006040201	0.416421865
DEFA1	1.952017278	1.915962204	-0.026896721	0.539693324
DEFA3	7.654993139	7.001053134	-0.128829129	0.07320674
DEFA4	3.367102113	3.097256648	-0.12051654	0.259360534
DEFA5	2.054851384	2.04790519	-0.00488513	0.936767964
DEFA6	1.972896377	2.007267718	0.024917865	0.540606027
DEFB1	4.204980583	4.348956592	0.04857017	0.408163621



DEFB103A	1.984955258	1.970303254	-0.010688794	0.567399437
DEFB104B	2.14570249	2.034643423	-0.076674075	0.256457923
DEFB105B	1.999182517	1.961742092	-0.027274806	0.205805206
DEFB106B	2.018203523	1.986999958	-0.022479827	0.381720987
DEFB114	1.910223801	1.905012479	-0.003941226	0.891354603
DEFB118	1.865965993	1.862158141	-0.002947097	0.848456329
MKX	3.021812887	2.776197528	-0.12230411	0.017184275
DEFB123	1.993151318	2.019564437	0.018992936	0.692633193
DEFB125	1.833605788	1.857657669	0.018801162	0.31087407
DEFB126	1.900591411	1.903516683	0.0022188	0.960935766
DEFB127	1.861802781	1.858954056	-0.002209143	0.986790509
DEFB129	2.142581497	2.162924289	0.013633085	0.747854249
DEFB4	2.315423298	2.376681465	0.037672592	0.298203528
DEGS1	6.217618192	6.331411157	0.026165153	0.048893121
DEK	7.691413278	7.638793028	-0.009904012	0.347434774
DEM1	4.649689225	4.795892606	0.04466506	0.037471665
DENND1A	7.135949	7.199377662	0.012766896	0.138210296
DENND1B	3.34785402	3.354602092	0.002905028	0.786836202
DENND1C	4.155322371	4.013418725	-0.050128724	0.237319847
DENND2A	6.29349349	6.462642634	0.038263144	0.020156907

DENND2C	3.917963179	3.887797669	-0.0111507	0.675911321
DENND2D	5.020602311	4.854828324	-0.048440172	0.408945991
DENND3	6.476586907	6.433910887	-0.009537774	0.700795957
DENND4A	3.578491503	3.671812366	0.037140783	0.043181501
DENND4B	7.045429066	6.969758014	-0.015579002	0.325589875
DENND4C	5.467247649	5.442970092	-0.006420618	0.683999677
DENND5A	7.772869232	7.741190746	-0.005891747	0.272098826
DENND5B	5.817131536	5.939030275	0.02991946	0.139869283
DENR	4.594644159	4.535253563	-0.01876992	0.11898189
DEPDC1	2.455702391	2.408724549	-0.027866306	0.559016639
DEPDC1B	2.178972338	2.201241599	0.014669616	0.839818293
DEPDC4	2.094823603	2.178787732	0.056696884	0.126851122
DEPDC5	6.303939132	6.38514143	0.018464971	0.079736258
DEPDC6	3.629706689	3.64489793	0.006025444	0.945001591
DEPDC7	3.416022993	3.13409093	-0.124270648	0.03061903
DERA	8.485580278	8.513422408	0.004725894	0.867957117
DERL1	6.239249007	6.20949707	-0.006895964	0.283707537
DERL2	7.120856517	7.033657704	-0.017775656	0.132259158
DERL3	3.38640202	3.419520317	0.014040707	0.740547976
DES	4.165345517	4.296918458	0.044866227	0.71310455

DET1	7.12461445	7.18340093	0.011855095	0.393850468
DEXI	8.894316291	8.833725866	-0.009861647	0.222855443
DFFA	6.60408804	6.600369254	-0.000812616	0.779416686
DFFB	3.28480149	3.257465148	-0.012056444	0.991193452
DFNA5	5.643419377	5.619639915	-0.006091873	0.806002304
DFNB31	4.440751927	4.378668486	-0.020311755	0.354919968
DFNB59	3.090927682	3.058309986	-0.015305257	0.909376309
DGAT1	6.984446854	6.957204845	-0.005638064	0.408554136
DGAT2	2.687816278	2.628402585	-0.032248262	0.17744744
DGAT2L3	1.885606609	1.914897768	0.022238651	0.824748405
DGCR14	5.722906762	5.780420444	0.01442633	0.13638533
DGCR2	9.120524172	9.15986581	0.006209722	0.327629001
DGCR5	2.789567033	2.917027155	0.064457597	0.140797176
DGCR6	7.694076854	7.809810204	0.021539248	0.012835895
DGCR6L	8.055226689	8.164151894	0.019377834	0.008188491
DGCR8	5.877467954	5.712376711	-0.041103645	0.005032753
DGKA	2.795391252	2.680741901	-0.060417896	0.017055899
DGKB	2.333013748	2.415797176	0.050304526	0.163053316
DGKD	8.460178728	8.449858725	-0.001760921	0.812952746
DGKE	2.124109947	2.161205514	0.024977824	0.26111256

DGKG	3.567974172	3.707790472	0.055454547	0.098355198
DGKH	3.215070543	3.294714901	0.035303239	0.109345581
DGKI	3.087215252	3.246771648	0.072699844	0.220770112
DGKQ	2.664696834	2.606874338	-0.031650365	0.213066076
DGKZ	3.951885258	3.844762085	-0.039646733	0.046339594
DGUOK	7.137028702	7.162081775	0.005055417	0.424379418
DHCR24	5.982015675	6.279929782	0.070116737	0.014464422
DHCR7	9.687949861	9.86413957	0.026001814	0.069630199
DHDDS	4.091729821	4.100586908	0.003119528	0.892445326
DHDH	4.451521854	4.675079979	0.070692407	0.101627607
DHFR	5.955938384	6.097143613	0.033804699	0.035676683
DHFRL1	3.468246497	3.501818535	0.013897887	0.421186029
DHH	3.060281848	3.075981085	0.007382102	0.661846803
DHODH	5.739455172	5.844854507	0.02625332	0.118655808
DHPS	6.28126398	6.352215254	0.016204899	0.620379932
DHRS1	6.536142815	6.581064718	0.009881503	0.212053569
DHRS11	4.636009503	4.766410817	0.040019779	0.501199609
DHRS12	6.261926947	6.378533986	0.026618202	0.098918142
DHRS13	6.253388834	6.532673768	0.063035369	0.00249208
DHRS2	3.854854444	3.843804275	-0.00414151	0.92908939

DHRS3	9.968825172	9.761495261	-0.030321337	0.359239682
DHRS4	6.498732576	6.525238613	0.005872277	0.570207115
DHRS7	7.297350695	7.307422838	0.001989902	0.794807065
DHRS7B	7.041574642	7.103201028	0.012571234	0.350274646
DHRS7C	1.988436755	1.9426115	-0.033637269	0.627701648
DHRS9	2.766899927	2.670978613	-0.050902042	0.280928926
DHRSX	6.709898119	6.608114556	-0.022052164	0.32321889
DHTKD1	5.189277974	5.260011077	0.019532019	0.124804258
DHX15	7.862607417	7.849665542	-0.002376637	1
DHX16	7.261933583	7.267072683	0.0010206	0.749946038
DHX29	5.1648	5.173907965	0.002541907	0.717739536
DHX30	8.974877901	9.017426549	0.006823455	0.313846463
DHX32	4.323448709	4.492602028	0.055368694	0.00282957
DHX33	3.540867126	3.674349796	0.05338627	0.00815524
DHX34	2.144535603	2.14919838	0.003133389	0.696710135
DHX35	5.541150662	5.578561873	0.009707656	0.322206059
DHX36	7.426935854	7.447978465	0.004081784	0.698241095
DHX37	5.773236238	5.86529243	0.022822778	0.286818163
DHX38	6.741138358	6.792453845	0.010940621	0.487256201
DHX40	2.239176331	2.262438859	0.014910663	0.548853162

DHX57	3.515206152	3.539109141	0.009776953	0.926896629
DHX58	6.958250974	6.837665324	-0.025220905	0.654858706
DHX8	6.457191616	6.466673592	0.002116952	0.752562947
DHX9	8.005515762	7.97449593	-0.005601024	0.497693728
DIABLO	7.584798927	7.60446907	0.00373659	0.434449373
DIAPH1	9.141300722	9.065867007	-0.011954464	0.242004787
DIAPH2	3.365414391	3.417399711	0.022114842	0.737944093
DIAPH3	2.09301296	2.129291148	0.024791985	0.440557607
DICER1	7.019061026	6.984461894	-0.007129077	0.379098098
DIDO1	5.543736483	5.462158324	-0.02138755	0.167678465
DIMT1L	5.271607556	5.264258261	-0.002012705	0.875019697
DI01	1.896359808	1.958018775	0.046161877	0.109804488
DI02	6.229933033	6.22703688	-0.000670832	0.928541145
DI03	3.715562914	3.969349606	0.095321837	0.081772845
DI03OS	2.95808947	2.945868937	-0.005972443	0.546556171
DIP2A	3.001491258	3.080963218	0.037701993	0.107675509
DIP2B	5.139889596	5.126047169	-0.003890617	0.941158355
DIP2C	6.219081152	6.209355	-0.002258027	0.935670626
DIRAS1	7.946356742	8.096727683	0.027045393	0.222857485
DIRAS2	3.491221219	3.777592246	0.11373521	0.072875501

<b>DIRAS3</b>	3.369984596	3.414206937	0.018808506	0.579141325
<b>DIRC1</b>	4.588175397	4.583834887	-0.001365466	0.425180193
<b>DIRC2</b>	6.109075728	6.107293535	-0.000420937	0.971934319
<b>DIS3</b>	4.532372477	4.588636761	0.017799178	0.223381501
<b>DIS3L</b>	7.32176555	7.394693211	0.014298717	0.203833906
<b>DIS3L2</b>	3.982874914	3.931000007	-0.018913805	0.261404495
<b>DISC1</b>	5.229689291	5.311243768	0.022324511	0.845754857
<b>DISP1</b>	5.132139934	4.940728366	-0.054836767	0.027374229
<b>DISP2</b>	6.577378477	6.710026486	0.028805773	0.471824546
<b>DIXDC1</b>	4.821446636	4.762219831	-0.017831861	0.450431564
<b>DKC1</b>	7.075443291	7.05507112	-0.004159912	0.766744746
<b>DKFZP434A062</b>	2.706701238	2.761731634	0.029037481	0.421584873
<b>DKFZP434B0335</b>	8.798045404	8.866399127	0.011165261	0.418006229
<b>DKFZP434B061</b>	1.908661616	1.915589204	0.005226858	0.413264789
<b>DKFZP434C153</b>	2.046764742	2.005187768	-0.029607948	0.121119244
<b>DKFZP434H168</b>	1.94551753	1.964103831	0.013717219	0.869586073
<b>DKFZP434I0714</b>	2.438264139	2.448840225	0.006244226	0.603923214
<b>DKFZP434K028</b>	2.045012709	1.994917655	-0.035780612	0.137478477
<b>DKFZP434L187</b>	2.018022576	2.071471972	0.037713986	0.424779695
<b>DKFZP434P211</b>	3.259648238	2.958896415	-0.139657094	0.066608008

DKFZP547L112	2.157027556	2.125679373	-0.021120603	0.513125948
DKFZP564C152	4.860911192	4.883364606	0.006648721	0.837122727
DKFZP564C196	2.446461874	2.509371711	0.036629392	0.184875562
DKFZP56400823	6.973789583	6.885998465	-0.018276976	0.798001549
DKFZP586B0319	4.194428543	4.200582246	0.002115046	0.907735959
DKFZP586H2123	4.296068715	4.184623	-0.037919416	0.388895474
DKFZP586I1420	5.956037755	5.967193028	0.002699547	0.768325605
DKFZP586K1520	2.328374146	2.193987296	-0.085767731	0.155290592
DKFZp313P036	3.671442311	3.835136035	0.062930821	0.307592156
DKFZp434F142	4.612594013	4.623544317	0.003420901	0.849537343
DKFZp434G179	1.876827457	1.886871211	0.00769993	0.759906539
DKFZp434H1419	5.499060815	5.558096148	0.01540555	0.761483073
DKFZp434K191	4.299984146	4.100789761	-0.068429559	0.459592042
DKFZp547G183	2.742478894	2.604804246	-0.074305561	0.004883974
DKFZp547J222	2.284351616	2.304732979	0.01281488	0.864701193
DKFZp547K054	6.658630974	6.681627556	0.00497398	0.716193386
DKFZp564N2472	2.06602606	1.985331197	-0.057478751	0.288381586
DKFZp566H0824	3.204238894	3.154409528	-0.022611739	0.284638266
DKFZp667E0512	5.090932331	4.982360359	-0.031100518	0.093537634
DKFZp667F0711	2.229115258	2.178054585	-0.033431104	0.275729432



DKFZp686E2433	4.497978781	4.470496014	-0.008841944	0.878826676
DKFZp761E198	2.909740735	2.910920387	0.000584772	0.856571124
DKFZp761H2121	2.690890907	2.765642958	0.039531015	0.501638654
DKFZp761P0212	1.938860728	1.90365943	-0.026433777	0.199449999
DKFZp779M0652	4.596913086	4.527091831	-0.022080818	0.155290444
DKFZp781M2440	4.167316848	4.267365415	0.03422686	0.575842344
FHDC1	2.299132775	2.112802077	-0.121932159	0.002791524
SLC14A1	2.61181157	2.400982704	-0.121425806	0.00322268
DKK3	9.913450099	10.21649568	0.043441289	0.10278532
DKK4	1.986134934	2.002296331	0.011691863	0.95104336
DKKL1	2.023846119	2.046370711	0.01596792	0.887538785
DLAT	4.65674806	4.706567225	0.01535237	0.160365125
DLC1	8.552734364	8.238616056	-0.053983722	0.031534295
DLD	8.708237411	8.776112085	0.011201211	0.518027061
DLEC1	3.156599053	3.077717049	-0.03651042	0.187864576
DLEU1	4.73480755	4.685436401	-0.015122361	0.662847573
DLEU2	2.336831113	2.338195092	0.000841837	0.91977426
DLEU7	2.037902894	2.094375127	0.03943456	0.214081849
DLG1	7.012627781	7.032315556	0.004044655	0.625745171
DLG2	4.222539781	4.421772423	0.06651376	0.168530806

DLG3	6.95638047	7.089120225	0.027269756	0.058181497
DLG4	7.965087272	8.069997908	0.01887813	0.723419093
DLG5	5.485501397	5.628982958	0.037250785	0.161188642
DLGAP1	2.416822927	2.490801521	0.04349829	0.315840749
DLGAP2	2.36101949	2.379172838	0.011050131	0.714133664
DLGAP3	10.805742	10.76958042	-0.004836098	0.58529007
DLGAP4	6.680838993	6.742530437	0.013260838	0.479506656
DLGAP5	2.237121536	2.223339521	-0.00891536	0.728077363
DLK1	2.460919563	2.357049915	-0.062215192	0.64196108
DLK2	2.42411543	2.451556486	0.016239605	0.339354373
DLL1	5.123240238	4.916054796	-0.059555548	0.102205629
DLL3	2.487703675	2.562542634	0.042761359	0.327630962
DLL4	2.473408397	2.345619627	-0.07653139	0.135299927
DLST	5.626867682	5.695743514	0.017552143	0.251575904
DLSTP	2.049050642	2.094313317	0.03152165	0.290265463
DLX1	2.535475868	2.421720225	-0.066224339	0.037661734
DLX2	2.07641506	2.053030437	-0.01633984	0.541062667
DLX3	2.173474344	2.133443401	-0.026819229	0.282161823
DLX4	2.256486371	2.172811472	-0.054515063	0.230812347
DLX5	1.952592417	1.978261754	0.018842495	0.320523018

DLX6	1.907067589	1.868067331	-0.029809521	0.300451978
DMAP1	8.278891788	8.276608662	-0.000397917	0.948296602
DMBT1	2.11577598	2.115436155	-0.000231737	0.940060642
DMBX1	2.735489722	2.859090465	0.063757134	0.158524154
DMC1	2.119443781	2.088680683	-0.021093749	0.701307241
DMD	6.572835563	6.652110324	0.017296203	0.10812878
DMGDH	3.124066795	3.093843775	-0.014024951	0.504277599
DMKN	7.099394298	6.947809169	-0.031137814	0.514905755
DMP1	2.00047643	1.985920986	-0.010535408	0.863073937
DMPK	7.08472649	7.022363754	-0.012755429	0.440148681
DMRT1	1.912584868	1.919320585	0.005071939	0.787366911
DMRT2	1.99483306	2.032650923	0.027094458	0.256168873
DMRT3	1.93119502	1.924092331	-0.00531583	0.704377918
DMRTA1	2.638065497	2.772615669	0.071767265	0.087623834
DMRTB1	1.963851192	1.969599275	0.00421652	0.726523512
DMRTC1	5.799404947	6.019778296	0.053805476	0.129620496
DMRTC2	1.86906106	1.835169352	-0.026400497	0.503396917
DMTF1	6.768175901	6.684964521	-0.01784716	0.059474433
DMWD	5.210924947	5.20477669	-0.001703209	0.842515551
DMXL1	5.833732298	5.855666366	0.005414172	0.418403415

DMXL2	2.42989645	2.461191056	0.01846182	0.722385452
DNA2	2.283421338	2.304151944	0.013038765	0.534688539
DNAH1	2.922243119	2.866106937	-0.027983771	0.255591566
DNAH10	2.455490152	2.44043207	-0.008874442	0.817773372
DNAH11	2.238684715	2.237874444	-0.000522265	0.886993895
DNAH14	1.914049079	1.822111641	-0.071016468	0.038494384
AR	5.559305987	5.11210719	-0.120986704	0.002578684
DNAH2	5.766050397	5.917712704	0.037456211	0.65286768
DNAH3	2.060023636	2.09440069	0.023876587	0.289322406
DNAH5	2.023740053	2.011931507	-0.008442798	0.556235752
DNAH6	2.006612119	2.013469493	0.004921845	0.712590042
DNAH7	2.91198996	2.935510035	0.011605807	0.920869636
DNAH8	1.943722768	1.940965296	-0.00204814	0.724453271
DNAH9	2.710427477	2.904282514	0.099661393	0.087495808
DNAI1	2.073485126	2.040125732	-0.02339963	0.281236649
DNAI2	2.055895947	2.005236845	-0.035994601	0.564132491
DNAJA1	9.049390523	8.693386965	-0.057902266	0.004080796
DNAJA2	5.856019808	5.870396232	0.00353745	0.695180412
DNAJA3	7.566587914	7.54728369	-0.003685372	0.990643063
DNAJA4	7.75438155	7.456553824	-0.056502706	0.022204448

DNAJB1	8.298998848	7.915180965	-0.068314972	0.119800611
DNAJB11	8.008182318	7.876704535	-0.02388266	0.16077641
DNAJB12	7.154770238	7.226086486	0.014309084	0.010362733
DNAJB14	6.730371013	6.761123507	0.006576966	0.517580662
DNAJB2	10.2208391	10.18811553	-0.004626418	0.99009262
DNAJB3	2.014201841	1.957031106	-0.041541575	0.165353794
DNAJB4	5.046974934	4.838197092	-0.06094938	0.212559414
DNAJB5	8.037341689	8.018737063	-0.003343383	0.600559191
DNAJB6	8.412764854	8.305444972	-0.018522556	0.300773989
DNAJB7	1.88015596	1.880222866	5.13E-05	0.770962116
DNAJB8	2.097409325	2.036671176	-0.042395368	0.346727877
DNAJB9	8.630370152	8.587444613	-0.007193548	0.916489089
DNAJC1	7.747440245	7.666604845	-0.015131901	0.542890237
DNAJC10	7.05989345	7.043389993	-0.003376443	0.707453422
DNAJC11	6.043849391	6.050221915	0.00152035	0.687549535
DNAJC12	5.182554464	5.366979113	0.050446901	0.268800576
DNAJC13	5.803880258	5.738345056	-0.016383033	0.12161661
DNAJC14	5.550731411	5.592253317	0.010751828	0.418403526
DNAJC15	8.169788152	8.078173965	-0.016269454	0.29788301
DNAJC16	4.032326444	4.148850845	0.041099353	0.028057467

DNAJC17	4.287761278	4.221078923	-0.022612782	0.159544742
DNAJC18	4.707237808	4.899276324	0.057687924	0.027085774
DNAJC19	6.717904252	6.757181761	0.008410429	0.607777308
DNAJC2	7.855096338	7.859269937	0.000766335	0.93183095
DNAJC21	4.987586437	4.975312408	-0.003554726	0.732226081
DNAJC22	2.877965424	2.963430859	0.042219138	0.080092666
DNAJC24	3.780306238	3.834960345	0.020708549	0.124128066
DNAJC25	3.402870371	3.558457324	0.06449974	0.023441754
DNAJC27	5.616170192	5.662020775	0.011730387	0.84413493
DNAJC28	2.819539291	2.868375648	0.024774527	0.372406044
DNAJC3	6.396050457	6.309391775	-0.019680384	0.254152087
DNAJC30	5.787889954	5.787245359	-0.000160681	0.742633035
DNAJC4	5.158131596	5.171705739	0.003791611	0.589091602
DNAJC5	6.682157629	6.805880866	0.026467882	0.368352155
DNAJC5B	1.947565967	2.055608261	0.07789316	0.037598332
DNAJC5G	2.090721166	2.080062317	-0.007373915	0.528803662
DNAJC6	2.757996954	2.840027303	0.042283936	0.517134511
DNAJC7	6.744018364	6.970194768	0.047590505	0.025274395
DNAJC8	7.934774848	7.953174887	0.003341609	0.708992738
DNAJC9	7.645980444	7.706828894	0.011435851	0.724970564

DNAL1	4.613059437	4.607413176	-0.001766902	0.675406737
DNAL4	3.928192907	4.048160394	0.043400673	0.109651604
DNALI1	7.003639894	6.926305606	-0.016018862	0.042544018
DNASE1	2.352170887	2.389211183	0.022541503	0.53151579
DNASE1L1	5.991249722	5.967734901	-0.005673518	0.806536487
DNASE1L2	3.036117675	2.947954317	-0.042513541	0.501638501
DNASE1L3	6.844142152	6.671462627	-0.036866638	0.973034535
DNASE2	4.697351265	4.819495908	0.037034775	0.121616921
DNASE2B	1.940585576	1.860107923	-0.061105726	0.090607525
DND1	6.045210921	6.108498528	0.015025132	0.315175432
DNER	5.102890689	5.385913852	0.077876417	0.424379805
DNHD1	3.781651457	3.768665951	-0.004962479	0.756756661
DNHD1L	1.908126437	1.934258718	0.019624006	0.691106685
DNHD2	2.196039179	2.198906711	0.001882606	0.89844792
DNLZ	6.750015033	6.743066993	-0.001485784	0.723419093
DNM1	6.577707709	6.693905965	0.025263383	0.573961076
DNM1L	6.010972179	6.115428592	0.024855269	0.165985614
DNM1P31	2.150095987	2.132282648	-0.012002378	0.769379895
DNM1P35	13.22922852	13.22239738	-0.000745153	0.747288632
DNM2	6.645758616	6.655074845	0.002020998	0.576783569

<b>DNM3</b>	6.854859781	7.002774796	0.030799537	0.858737608
<b>DNMBP</b>	4.524423285	4.595638451	0.022531395	0.436480216
<b>DNMT1</b>	4.819774192	4.898312465	0.023319249	0.18441912
<b>DNMT3A</b>	4.456903748	4.340388923	-0.038217483	0.012418764
<b>DNMT3B</b>	4.166827722	4.183023169	0.005596536	0.79055325
<b>DNMT3L</b>	1.97513257	1.952747007	-0.01644444	0.661846841
<b>DNPEP</b>	6.045461199	6.090170141	0.010630129	0.408554471
<b>DNTT</b>	1.852242675	1.878296507	0.020151695	0.652370173
<b>DNTTIP1</b>	8.635810517	8.712930908	0.012826514	0.052062121
<b>DNTTIP2</b>	8.158549344	8.095517662	-0.011189317	0.174582297
<b>DOC2A</b>	2.26397847	2.269133211	0.003281067	0.736903445
<b>DOC2B</b>	3.575692742	3.713994908	0.054749066	0.227872646
<b>DOCK1</b>	5.875339967	5.721803444	-0.038202394	0.275729603
<b>DOCK10</b>	4.722220894	4.713910141	-0.002541272	0.938414186
<b>DOCK11</b>	4.184480887	3.937912007	-0.087617784	0.011529422
<b>DOCK2</b>	2.638614815	2.531817183	-0.059607526	0.067845489
<b>DOCK3</b>	3.970616364	4.114832845	0.05147085	0.257906397
<b>DOCK4</b>	4.214888629	4.292372937	0.026280917	0.41681861
<b>DOCK5</b>	2.653138331	2.607639493	-0.024955467	0.58386995
<b>DOCK6</b>	5.205339497	4.954411387	-0.071278593	0.107524767



DOCK7	5.17131949	5.213593641	0.011745701	0.779946141
DOCK8	5.018383934	4.957876634	-0.017500476	0.348143912
DOCK9	5.477308834	5.418927915	-0.015459772	0.302064856
DOHH	6.411754238	6.626690042	0.047569312	0.004529321
DOK1	6.781532748	6.725462352	-0.011977934	0.409729142
FBX040	2.705699596	2.489378958	-0.120215803	0.007330466
DOK3	4.564108556	4.452531282	-0.035707359	0.29026529
DOK4	4.871026901	4.794302585	-0.022904985	0.32119559
DOK5	4.863377252	4.934408317	0.020918596	0.361778683
DOK6	7.504273	7.754864141	0.047389194	0.211801082
DOK7	5.031427053	5.233184134	0.056721376	0.048656437
DOLK	6.627810344	6.736998113	0.023573575	0.064387458
DOLPP1	5.149952894	5.216783028	0.018601195	0.138210578
DOM3Z	5.369423722	5.401819458	0.008678164	0.578669557
DONSON	5.768248874	5.646156746	-0.030864231	0.075900234
DOPEY1	2.364428954	2.343623915	-0.012750715	0.854405723
DOPEY2	2.296059325	2.27045343	-0.016179473	0.637521042
DOT1L	3.585189272	3.56491281	-0.008182493	0.408163398
DPAGT1	4.618665007	4.549006204	-0.021924509	0.209037511
DPCR1	1.992407629	1.984102218	-0.006026487	0.633585598

DPEP1	2.117922715	2.189896514	0.04821275	0.096404882
DPEP2	2.984408583	2.786321577	-0.099083289	0.046264129
DPEP3	4.239097384	4.226817556	-0.004185267	0.596725571
DPF1	2.608612788	2.755849408	0.079214243	0.070484342
DPF2	8.494917523	8.54252238	0.008062182	0.348497331
DPF3	7.034766815	7.165334697	0.026531493	0.636536417
DPH2	5.879650669	5.870402113	-0.002271113	0.99284463
DPH3	6.617863887	6.573964282	-0.009602002	0.116071495
DPH5	5.199447695	5.172239408	-0.007569328	0.416422865
DPM1	9.139531079	9.041963838	-0.015483999	0.013946685
DPM2	6.585734179	6.661388775	0.016478702	0.08335832
DPM3	7.964829437	8.013487451	0.008786769	0.020305207
DPP10	2.150819609	2.147474261	-0.002245691	0.805468302
DPP3	7.144133497	7.393427155	0.049484228	0.026847375
DPP4	2.053843298	2.034611775	-0.013572573	0.465896942
DPP6	4.424105848	4.59047631	0.053257953	0.877738597
DPP7	9.508703609	9.535666704	0.004085149	0.763585716
DPP8	7.508058536	7.618099458	0.020991225	0.000722341
DPP9	2.831865397	2.760833613	-0.03664875	0.07832357
DPPA2	1.888912967	1.836456592	-0.040631435	0.283707939

DPPA3	1.944308411	1.921680099	-0.016888889	0.825285577
DPPA4	1.935510139	1.872666775	-0.047619658	0.261112332
DPPA5	1.90962453	1.982385324	0.053948408	0.200417982
DPT	4.348880815	3.967680211	-0.132348419	0.02900826
DPY19L1	3.823117132	3.914278239	0.033996909	0.17789101
DPY19L1P1	3.692461775	3.742475218	0.019409777	0.387757158
DPY19L2	2.414531921	2.473741218	0.034951049	0.128576712
DPY19L2P2	2.803057212	2.835136535	0.016417024	0.626234322
DPY19L2P4	4.110636583	4.117330056	0.002347273	0.906642574
DPY19L3	3.439069675	3.403913218	-0.014824089	0.380595735
DPY19L4	5.152875947	5.152273092	-0.000168797	0.825285474
DPY30	8.605434828	8.633031275	0.004619122	0.174362106
DPYD	3.505327914	3.348925063	-0.065851317	0.116231961
DPYS	2.512290702	2.424433148	-0.051355938	0.030672245
DPYSL2	9.713439934	9.756249387	0.006344332	0.812952483
DPYSL3	10.35171283	10.22277576	-0.01808252	0.230810957
DPYSL4	7.399390086	7.783697683	0.07304932	0.053411304
DPYSL5	7.513381298	7.684591204	0.032506195	0.401161882
DQX1	2.231019609	2.182989106	-0.031398264	0.327971911
DR1	5.196610411	5.112385845	-0.02357418	0.042193326

DRAM	6.092091768	5.94157038	-0.036093383	0.380595905
DRAP1	8.944975	8.957952627	0.002091587	0.964234509
DRD1	2.687986457	2.885596627	0.102343772	0.070914136
DRD2	3.12762004	3.305145732	0.079648628	0.004327888
DRD3	2.125190172	2.174784577	0.033280556	0.479506865
DRD4	12.94258642	12.92076482	-0.002434481	0.736367121
DRD5	2.884762927	2.92965843	0.022279708	0.461688226
DRG1	7.46131347	7.480866268	0.00377572	0.409337176
DRG2	6.723631563	6.718203127	-0.001165254	0.837122669
DRP2	2.103935199	2.051456486	-0.036441717	0.327290186
DSC1	2.227675689	2.398409394	0.106538723	0.17370852
DSC2	2.337346901	2.345963007	0.005308394	0.740547886
DSC3	1.897108232	1.892884958	-0.003215256	0.639492773
DSCAM	5.005167113	5.20821881	0.057371822	0.422781345
DSCAML1	7.623930291	7.773622092	0.028052046	0.224432508
DSCC1	2.303002868	2.270009092	-0.020818132	0.863073986
DSCR10	1.793085603	1.843517331	0.040016615	0.649389043
DSCR3	5.181598384	5.14396838	-0.010515425	0.249300496
DSCR4	2.076997232	2.128384387	0.035259432	0.113532009
DSCR6	3.339494702	3.248740493	-0.039749319	0.474377949

DSCR8	3.787684768	4.003565366	0.079969094	0.230544094
DSCR9	2.142806159	2.10590057	-0.025064026	0.617461618
DSE	8.063330993	7.767720951	-0.053884571	0.089430305
DSEL	2.401333305	2.406204915	0.002923846	0.841976036
DSG1	1.879001636	1.902879697	0.018218033	0.778358493
DSG2	2.160140371	2.183103077	0.015255185	0.536051305
DSG3	1.868781371	1.833929317	-0.027159762	0.472674486
DSG4	1.939279344	1.877002493	-0.047090066	0.07091417
DSN1	5.836554682	5.869661993	0.00816043	0.892445415
DSP	7.121836338	7.281383085	0.031963231	0.023064433
DSPP	1.910115291	1.911534965	0.00107187	0.949395278
DST	4.997673338	5.04049193	0.012307935	0.365421243
DSTN	10.96143972	10.84413711	-0.015522041	0.077274213
DSTYK	6.456584742	6.488511141	0.007116232	0.445067573
DTD1	8.225177344	8.406113169	0.031392094	0.015055883
DTL	2.334425616	2.34149257	0.004360841	0.908282673
ARHGAP20	4.621748775	4.257020824	-0.118594694	0.008971151
DTNB	4.983358603	5.070372183	0.024973256	0.028404498
DTNBP1	8.788966258	8.877583951	0.01447361	0.74002662
DTWD1	5.690182238	5.485885077	-0.052750458	0.075332746

<b>DTWD2</b>	2.457407344	2.553519	0.055349772	0.026990298
<b>DTX1</b>	4.084652139	4.308072873	0.076829435	0.062519356
<b>DTX2</b>	2.372771967	2.279254211	-0.058011617	0.273607783
<b>DTX3</b>	9.673445113	9.703654704	0.00449843	0.657848131
<b>DTX3L</b>	3.295862278	3.253979155	-0.01845095	0.352413979
<b>DTX4</b>	2.439183252	2.502855923	0.037177095	0.10557906
<b>DTYMK</b>	8.13690502	8.104014239	-0.005843441	0.141728606
<b>DULLARD</b>	5.290343079	5.273502873	-0.004599708	0.747854249
<b>DUOX1</b>	3.184535881	3.089856141	-0.043543457	0.251290639
<b>DUOX2</b>	2.199874543	2.202114345	0.001468133	0.766744908
<b>DUOXA1</b>	3.373774781	3.217361669	-0.068485548	0.451674846
<b>DUOXA2</b>	2.971432132	2.942301556	-0.014213314	0.865243665
<b>DUS1L</b>	7.020542682	6.995999134	-0.005052443	0.581503188
<b>DUS2L</b>	3.722562629	3.740503669	0.006936425	0.545638576
<b>DUS3L</b>	5.267813033	5.278351768	0.002883358	0.745242047
<b>DUS4L</b>	3.043731993	3.070229211	0.012505033	0.626723144
<b>DUSP1</b>	10.52818797	10.6525107	0.016936349	0.645916851
<b>DUSP10</b>	4.444630609	4.595413789	0.048131251	0.270596487
<b>DUSP11</b>	3.939045113	3.916902127	-0.00813286	0.764638693
<b>DUSP12</b>	8.139097113	8.072160176	-0.01191396	0.117519206

DUSP13	2.785972417	2.75504743	-0.016103819	0.598641403
DUSP14	5.288468265	5.408150746	0.032285441	0.33173817
DUSP15	5.682213675	5.690696732	0.002152214	0.814558815
DUSP16	3.213764609	3.332211373	0.052215655	0.011194164
DUSP18	5.252662934	5.244722176	-0.002182657	0.839278945
DUSP19	2.666146828	2.60648619	-0.032650017	0.146656144
DUSP2	5.007539742	4.736770873	-0.080198078	0.053156367
DUSP21	1.861698861	1.80944631	-0.041071428	0.698241163
DUSP22	5.401778596	5.313562444	-0.023755078	0.194422113
DUSP23	10.26601519	10.37843426	0.015712509	0.17175024
DUSP26	10.73352212	10.90149573	0.02240253	0.471396746
DUSP27	3.053170199	3.281929704	0.104236323	0.058090167
DUSP3	7.253347358	7.208838401	-0.008880131	0.212558869
DUSP4	6.364406656	6.380815937	0.003714898	0.992844631
DUSP5	4.899311722	4.838231254	-0.018099359	0.561339237
DUSP5P	2.422881709	2.364650514	-0.035096996	0.336225271
DUSP6	8.99475547	8.664206634	-0.054016411	0.247320829
DUSP7	2.336287874	2.277898394	-0.036514655	0.605367314
DUSP8	6.576495106	6.6817965	0.02291713	0.759906567
DUSP9	2.64049245	2.637389021	-0.001696629	0.886993854

DUT	8.871001046	8.783589937	-0.014286211	0.111810659
DUX2	2.114313	2.172490296	0.039160766	0.633585638
DUX3	2.04748298	2.098041979	0.035192085	0.269996748
DUX4	12.38643944	12.36472613	-0.00253125	0.432008559
DUXAP10	2.175991033	2.057230831	-0.080968931	0.046871703
DVL1	10.24990454	10.23723608	-0.001784213	0.542888072
DVL2	6.31856651	6.304206268	-0.003282553	0.969184115
DVL3	4.524182907	4.544103627	0.006338478	0.699262543
DXS542	1.95206206	1.864844225	-0.065943796	0.090607333
DYDC1	1.874348199	1.832944979	-0.032225508	0.212053569
DYDC2	1.899925656	1.918911085	0.014344897	0.506481911
DYM	7.637769278	7.672956789	0.006631291	0.395382836
DYNC1H1	10.39290436	10.39658818	0.000511279	0.925252176
DYNC1I1	6.647570192	6.822346761	0.037440979	0.131022674
DYNC1I2	8.292819477	8.252223394	-0.007079811	0.369822226
DYNC1LI1	4.825889457	4.888868176	0.018705636	0.756232218
DYNC1LI2	8.757012669	8.675767542	-0.013447401	0.051895631
DYNC2H1	4.244048861	4.282033704	0.012854886	0.462948644
DYNC2LI1	4.567193808	4.726869169	0.049576923	0.040274363
DYNLL1	10.76814125	10.57940134	-0.025511249	0.002430035



DYNLL2	7.685613841	7.608609028	-0.01452776	0.162844901
DYNLRB1	7.031010563	7.048114507	0.003505301	0.913205423
DYNLRB2	4.855772768	5.158586521	0.087274904	0.015728099
DYNLT1	8.967512099	8.899742852	-0.010944135	0.278167311
DYNLT3	8.255041152	8.258272951	0.000564696	0.682985985
DYRK1A	4.720288053	4.723543894	0.000994763	0.706940327
DYRK1B	4.257447344	4.354672035	0.032575382	0.087751708
DYRK2	5.428716225	5.455911803	0.007209251	0.924156578
DYRK3	5.00396353	4.877338437	-0.036977191	0.138945633
DYRK4	7.167329305	7.204794796	0.0075217	0.243676333
DYSF	5.014855099	4.870998754	-0.041990402	0.224959556
DYX1C1	5.643510185	5.821772725	0.044865741	0.698752007
DZIP1	5.400797868	5.279921627	-0.03265604	0.185104411
DZIP1L	2.874700411	2.858477944	-0.008164454	0.97028416
DZIP3	6.55933106	6.605630437	0.010147566	0.830661219
E2F1	2.583069013	2.630990768	0.026519997	0.277557243
E2F2	2.841748179	2.797478	-0.02265193	0.844674924
E2F3	7.096786536	7.091308986	-0.001113953	0.90828264
E2F4	5.849215179	5.800814049	-0.01198769	0.214590852
E2F5	2.646805543	2.653001092	0.003373063	0.906095948

E2F6	5.24169096	5.214040148	-0.007630606	0.362141436
E2F7	2.393230589	2.531211859	0.080868856	0.028255401
E2F8	1.939009815	1.9697	0.022655807	0.481652676
E4F1	6.214782675	6.222325134	0.001749839	0.988991927
EA1	3.383685881	3.408778606	0.010659258	0.463789792
EA2	4.684926331	4.802321092	0.035705506	0.259068878
EAPP	9.189968675	9.225767113	0.005608931	0.605848308
EARS2	4.416083265	4.441449268	0.008263138	0.939511804
EBAG9	6.995297225	7.064957873	0.0142956	0.108735897
EBF1	7.620614576	7.259886662	-0.069960325	0.002829567
EBF2	2.028626748	1.997968937	-0.021969292	0.343203998
EBF3	3.831012073	3.840940099	0.003733892	0.857654333
EBF4	8.728256113	8.747613183	0.003195991	0.806536215
EBI3	4.14417653	4.166724613	0.007828294	0.942805347
EBNA1BP2	9.891831331	10.00959356	0.01707385	0.047562243
EBP	8.943691444	9.075275493	0.021071023	0.045587968
EBPL	7.664532066	7.662709197	-0.000343159	0.733783793
ECD	7.721178073	7.671046972	-0.009397491	0.118818366
ECE1	5.265155815	5.313102331	0.013078273	0.724453491
ECE2	5.930743305	6.145835394	0.051396197	0.186020956

ECEL1	5.856745212	5.907732718	0.012505422	0.856029723
ECEL1P2	1.894592556	1.887876493	-0.005123236	0.946649031
ECH1	6.830305609	6.823881049	-0.001357632	0.884814722
ECHDC1	8.229434305	8.256541282	0.004744291	0.746286374
ECHDC2	10.34615668	10.24034441	-0.014830706	0.074429713
ECHDC3	6.563685331	6.5692985	0.001233245	0.924156524
ECHS1	9.657459258	9.673822782	0.002442423	0.798532565
ECM1	4.246352113	4.077533613	-0.058527237	0.167891969
ECM2	3.720119258	3.429012577	-0.117555675	0.062228526
ECOP	8.10600551	8.256598042	0.026556316	0.379472238
ECSIT	8.278193834	8.26601331	-0.002124343	0.816701195
SYT15	4.245998205	3.912551232	-0.117994118	6.36E-05
ECT2	5.337279159	5.40861607	0.01915502	0.575371754
EDA	3.087295079	3.033465866	-0.025376303	0.375743154
EDA2R	2.091122589	2.029558007	-0.043112066	0.049931102
EDAR	1.916270477	1.858147296	-0.044436339	0.088781656
EDARADD	8.665984927	8.889624141	0.036758695	0.015817681
EDC3	4.196954391	4.159114387	-0.013066422	0.398844518
EDC4	3.902435762	3.975081585	0.026609587	0.392321985
EDEM1	3.328953609	3.355089373	0.011282432	0.862531674

EDEM2	4.965592073	4.978006521	0.003602372	0.956538297
EDEM3	6.815514649	6.681120599	-0.0287325	0.01724874
EDF1	10.87300987	10.85974956	-0.001760531	0.492448499
KATNAL2	3.043737781	2.807324908	-0.116648031	2.02E-05
EDN1	7.332369066	7.131197986	-0.040134945	0.602961313
SOX7	3.195626649	2.947808225	-0.116456195	0.00762274
EDN3	6.23231943	5.63078169	-0.146433961	0.028755449
EDNRA	4.393219563	4.029990049	-0.124502327	0.031918281
EDNRB	7.252111325	7.022711394	-0.046372924	0.244514236
EEA1	6.189794159	6.258671542	0.015965031	0.158320373
EED	7.401604583	7.358415746	-0.008442874	0.55023365
EEF1A1	11.54684022	11.54834213	0.000187641	0.811878022
EEF1A2	5.72815049	5.929321141	0.049797542	0.687042266
EEF1B2	11.29774693	11.21154099	-0.011050504	0.186705807
EEF1D	12.00758702	11.99017604	-0.002093423	0.685003162
EEF1DP3	5.110022974	5.088410127	-0.00611482	0.875019667
EEF1E1	6.700231166	6.72856357	0.006087677	0.478221688
EEF1G	12.16249211	12.12829822	-0.004061736	0.527874197
EEF2	10.69913769	10.80288325	0.013921888	0.143417726
EEF2K	3.462905854	3.469023944	0.002546633	0.838739634

EEFSEC	2.606867828	2.631421169	0.013524738	0.755183387
EEPDI	3.948170921	3.906062817	-0.015469296	0.563666539
EFCAB1	3.425367596	3.144411211	-0.123468922	0.039474957
EFCAB10	1.920688305	1.926985775	0.004722509	0.535142568
EFCAB2	4.884598993	4.980556331	0.028066774	0.339703085
EFCAB3	1.906298411	1.913319092	0.005303522	0.713104419
EFCAB4A	6.199919894	6.241975296	0.009753072	0.669366977
EFCAB4B	2.121738543	2.117735704	-0.002724337	0.979636658
EFCAB6	3.619444993	3.728857563	0.042965198	0.128230042
EFCAB7	5.650020987	5.566111704	-0.021586364	0.34566836
EFEMP1	11.58280804	11.22739839	-0.044961386	0.057176674
EFEMP2	7.102264285	7.064900345	-0.007609835	0.599600188
EFHA1	8.915925768	8.903071507	-0.002081462	0.753086541
EFHA2	8.047392033	8.01532788	-0.005759779	0.616004319
EFHB	2.718486285	2.74705057	0.01507992	0.584343876
EFHC1	5.279301775	5.397021634	0.031816335	0.139684261
MYCT1	4.38280196	4.0476865	-0.114755936	0.006719811
EFHD1	4.461490828	4.326040296	-0.04447877	0.10949855
EFHD2	7.02010494	6.986627838	-0.006896304	0.718255306
EFNA1	8.737873576	8.746283415	0.001387866	0.686027409

EFNA2	2.116798338	2.111362225	-0.003709725	0.779946217
EFNA3	2.136953623	2.160827261	0.016028148	0.458336585
EFNA4	4.103957344	4.043700704	-0.021339516	0.437701167
EFNA5	3.608857755	3.581837704	-0.010842311	0.669869435
EFNB1	9.021773285	8.823611894	-0.032041696	0.258196067
EFNB2	5.607171649	5.500745768	-0.027646009	0.323895147
EFNB3	4.067403457	4.064552993	-0.001011405	0.860363271
EFR3A	7.859090113	7.883071852	0.00439563	0.983488564
EFR3B	10.96500112	11.09291642	0.016732753	0.337959057
EFS	8.61731004	8.487167556	-0.021954431	0.025049728
EFTUD1	6.697490894	6.775337486	0.016672096	0.021178245
EFTUD2	9.420855179	9.489264669	0.010438269	0.170671965
TNFRSF10A	2.847831934	2.633472796	-0.112897451	0.001716393
EGFL6	6.019466325	5.510751662	-0.127386471	0.028755373
EGFL7	8.055609232	7.717657528	-0.061830676	0.091929936
EGFL8	6.844814841	6.592423352	-0.054202623	0.039739963
EGFLAM	8.298758086	8.395330951	0.016691746	0.553923371
EGFR	3.419290212	3.352614113	-0.028410439	0.102060756
EGLN1	6.428169762	6.483671634	0.012402998	0.710533774
EGLN2	7.76683206	7.72075843	-0.008583697	0.25877762

EGLN3	5.071342318	5.019279676	-0.014887324	0.553923465
EGR1	8.855609907	8.679375007	-0.029000513	0.312854016
EGR2	3.872388099	3.792503275	-0.030073124	0.931282637
EGR3	3.181067298	3.043109599	-0.0639646	0.510020115
EGR4	2.513635603	2.59493943	0.045925344	0.446302379
EHP1	4.717970689	4.710483345	-0.002291352	0.938962973
EHP1L1	5.605195623	5.378879106	-0.059459161	0.267607878
EHD1	7.510081166	7.479599324	-0.005867512	0.725488047
EHD2	5.749043325	5.608555817	-0.035692573	0.197523436
EHD3	4.579060126	4.774842458	0.060401625	0.107524683
EHD4	6.631861351	6.692675986	0.013169325	0.650382314
EHF	2.00342502	2.090824352	0.061603351	0.149947389
EHHADH	2.509717192	2.501852197	-0.004528242	0.719802966
EHMT1	5.419506576	5.404297275	-0.004054471	0.825822748
EHMT2	4.862017854	4.954125289	0.027075163	0.128750205
EI24	6.220130748	6.249658937	0.006832553	0.208537799
EID1	11.52797991	11.59272159	0.008079578	0.079726667
EID2	6.863245079	7.04776962	0.038275893	0.0325854
EID2B	6.072993881	6.273745162	0.046919013	0.13747843
EID3	4.358207934	4.429913014	0.02354334	0.68653482

EIF1	13.17198419	13.05799323	-0.012539488	0.062771478
EIF1AD	6.164573086	6.01411393	-0.035648789	0.00121179
EIF1AX	8.021606868	8.129149106	0.019213088	0.127711059
EIF1AY	6.246982106	6.009759	-0.055852259	0.330708362
EIF1B	8.791833325	8.798064577	0.001022155	0.97358461
EIF2A	4.497371854	4.523424183	0.008333116	0.651872821
EIF2AK1	6.125399424	6.219805444	0.022065531	0.004608233
EIF2AK2	6.861185762	6.793582063	-0.01428546	0.44014879
EIF2AK3	3.669837907	3.571903648	-0.039023178	0.222857485
EIF2AK4	6.082752026	6.070941979	-0.002803806	0.640479356
EIF2B1	7.557888642	7.507975085	-0.0095594	0.503836826
EIF2B2	7.310302285	7.303866465	-0.001270675	0.846294943
EIF2B3	5.484948126	5.50560881	0.005424129	0.536505721
EIF2B4	6.586801563	6.633662268	0.010227476	0.318175981
EIF2B5	6.584536132	6.534709183	-0.010958776	0.324233043
EIF2C1	5.84316057	5.909581803	0.016307105	0.183280883
EIF2C2	5.533144192	5.348984183	-0.048834583	0.000806365
EIF2C3	6.587412391	6.488740486	-0.021773402	0.035980826
EIF2C4	3.461363788	3.492178296	0.012786643	0.683493011
EIF2S1	4.56056402	4.542408908	-0.005754675	0.932379433



EIF2S2	4.80302102	4.780367099	-0.006820711	0.752563175
EIF2S3	4.703412199	4.699902148	-0.001077053	0.887538719
EIF3A	11.1835657	11.14889482	-0.004479537	0.441776759
EIF3B	9.447802907	9.442325169	-0.000836702	0.827971744
EIF3C	12.07486642	12.12941559	0.006502812	0.188308018
EIF3D	11.05486994	11.07104314	0.002109111	0.882634209
EIF3E	9.411769397	9.326285493	-0.013163379	0.023695112
EIF3F	8.877238921	8.893264944	0.00260214	0.296283179
EIF3G	9.382626139	9.334260592	-0.007456036	0.325587394
EIF3H	11.76851434	11.76213422	-0.000782348	0.803328543
EIF3I	8.885147139	8.859882415	-0.004108116	0.596724827
EIF3J	8.349613305	8.245975556	-0.018019199	0.017087782
EIF3K	10.56092651	10.62746211	0.009060707	0.055661493
EIF3L	9.785074881	9.790353972	0.00077813	0.801197467
EIF3M	9.303788245	9.290999585	-0.001984442	0.794274156
EIF4A1	9.792621272	9.860005662	0.009893385	0.417609319
EIF4A2	10.06591716	9.8487125	-0.031471588	0.028855844
EIF4A3	9.457747795	9.445861049	-0.001814357	0.870671916
EIF4B	7.768350861	7.756053451	-0.002285616	0.811882249
EIF4E	6.167046437	6.193572394	0.006192073	0.690597976

EIF4E2	8.927933987	8.829723394	-0.015958116	0.292789098
EIF4E3	3.021242682	2.983656437	-0.018060653	0.347788999
EIF4EBP1	6.570325126	6.488476944	-0.018084892	0.294693126
EIF4EBP2	8.223632113	8.23676562	0.00230221	0.992294228
EIF4ENIF1	6.68152449	6.631931521	-0.010748203	0.237046142
EIF4G1	7.682045662	7.630820155	-0.009652414	0.659347693
EIF4G2	10.67880901	10.60561694	-0.009922208	0.069202193
EIF4G3	6.464513212	6.472840296	0.001857172	0.768852469
EIF4H	9.311242728	9.367062211	0.008622916	0.324908662
EIF5	8.150417609	7.951453282	-0.035655417	6.45E-05
EIF5A	5.719968411	5.745758775	0.006490246	0.970284156
EIF5A2	4.55547949	4.660384901	0.032846198	0.08447074
EIF5B	5.236505669	5.250388134	0.003819658	0.98899193
EIF6	8.871685788	8.877086972	0.000878062	0.845754312
ELA1	1.996094099	2.019332986	0.016699096	0.265825404
ELA2	2.913619238	2.793659606	-0.060656108	0.527000154
ELA2A	2.33221145	2.326747176	-0.00338414	0.770434638
ELA3B	2.089425669	2.040566366	-0.034136803	0.197523436
ELAC1	5.408731377	5.493759324	0.02250346	0.118167868
ELAC2	9.209586205	9.277182972	0.010550459	0.167465114

ELAVL1	6.429409066	6.396765901	-0.007343457	0.140054163
ELAVL2	2.266842517	2.330446028	0.039921934	0.195610793
ELAVL3	3.318908291	3.457075493	0.058843343	0.294057896
ELAVL4	3.784409437	3.825406366	0.015544828	0.783124106
ELF1	3.982859185	3.740503585	-0.09057196	0.043899363
ELF2	7.095655603	7.210892732	0.023241893	0.031973427
HIST1H3D	4.378049954	4.049224106	-0.112642924	3.24E-05
ELF4	4.939026656	4.696759127	-0.072561148	0.148779559
ELF5	2.363659139	2.33333643	-0.018627665	0.189023395
ELFN1	8.590006596	8.581168394	-0.001485144	0.565530998
ELFN2	4.928871967	5.257693915	0.09317265	0.114479323
ELK1	2.573280762	2.66863743	0.052494436	0.20828835
ELK3	2.686363709	2.592850106	-0.05111584	0.189255811
ELK4	2.388847172	2.322836838	-0.04042674	0.266121829
ELL	6.043158126	6.037874937	-0.001261818	0.909923251
ELL2	6.310857364	6.102746014	-0.048377467	0.314179702
ELL3	3.495347781	3.526367176	0.012746692	0.666354793
ELM01	3.974808715	3.937002542	-0.013787789	0.39232221
ELM02	5.658762728	5.701038106	0.010737998	0.337960786
ELM03	3.530134192	3.436220028	-0.038900608	0.164514519

ELMOD1	5.63563306	5.830819627	0.049121015	0.809743017
ELMOD2	6.96447655	7.045183479	0.016622355	0.253578059
ELMOD3	6.604800854	6.530282754	-0.016369602	0.049609853
ELN	3.585630477	3.441341782	-0.059255634	0.186480589
ELOF1	5.133405199	5.139377746	0.001677552	0.942805333
ELOVL1	5.146918483	5.085109021	-0.017430229	0.555772881
ELOVL2	2.459960404	2.483547303	0.013767131	1
ELOVL3	2.331385901	2.230522056	-0.063806411	0.127194935
ELOVL4	5.646924656	5.851848746	0.051427098	0.521606766
ELOVL5	5.990223152	6.069623979	0.018997394	0.288381414
ELOVL6	4.308438225	4.505904711	0.064651806	0.103515248
ELOVL7	3.889921974	4.013579704	0.045148331	0.092597283
ELP1P	2.097773066	2.086994275	-0.007431975	0.864158721
ELP2	8.373021974	8.309935535	-0.010911126	0.177890286
ELP2P	2.814644887	2.862696	0.024421559	0.295966345
ELP3	4.640616589	4.642319789	0.000529401	0.882636419
ELP4	6.747478212	6.788314627	0.00870502	0.398844462
ELSPBP1	5.261775225	5.253345331	-0.002313196	0.687042231
ELTD1	4.125625722	3.859145317	-0.096331576	0.050987579
KRT19P2	2.160871159	2.001149127	-0.110784373	0.001558027

<b>EMD</b>	5.567096252	5.769343113	0.051482039	0.057907626
<b>EME1</b>	2.604639212	2.627058331	0.012364686	0.906095936
<b>EME2</b>	3.032460185	2.995864063	-0.01751654	0.524749184
<b>EMG1</b>	7.921631781	7.880574746	-0.00749679	0.672887646
<b>EMID1</b>	3.208649026	3.191276113	-0.007832554	0.794807136
<b>EMID2</b>	2.265282126	2.237062993	-0.018084858	0.63162183
<b>EMILIN1</b>	6.940358848	6.715513458	-0.047512548	0.615033989
<b>EMILIN2</b>	7.037116636	6.743473303	-0.061492566	0.449190547
<b>EMILIN3</b>	2.968415497	2.900334697	-0.033473648	0.252146601
<b>EML1</b>	8.42401349	8.479106718	0.009404537	0.773601303
<b>EML2</b>	5.84931402	6.096166113	0.059634773	0.220250439
<b>EML3</b>	5.045255748	5.153735437	0.030691077	0.222857485
<b>EML4</b>	7.938205755	7.88255681	-0.010149294	0.418800323
<b>ARPP-21</b>	3.806506669	3.525290028	-0.110725652	0.001296431
<b>EMP2</b>	7.98047502	7.67313438	-0.056658601	0.107373816
<b>EMP3</b>	6.273080762	6.17134419	-0.023589377	0.338309328
<b>EMR1</b>	3.08074343	2.955998176	-0.059633158	0.069418835
<b>EMR2</b>	3.175118099	3.170858014	-0.001936977	0.99944958
<b>EMR3</b>	2.154551702	2.080663437	-0.050344102	0.20630016
<b>EMX1</b>	3.774205325	3.799162077	0.00950835	0.467586461

<b>EMX2</b>	4.754996563	4.467720549	-0.089905349	0.204818048
<b>EMX2OS</b>	5.334667709	4.923899782	-0.115597011	0.044334668
<b>EN1</b>	2.035617914	2.039343655	0.002638115	0.726005654
<b>EN2</b>	9.992064748	9.970928789	-0.003054928	0.844674174
<b>ENAH</b>	5.306132596	5.274694387	-0.00857322	0.984038865
<b>ENAM</b>	1.940171351	2.004532972	0.047082075	0.196804684
<b>ENC1</b>	5.863730411	5.647683134	-0.054159628	0.041019285
<b>ENDOD1</b>	8.05844757	7.869086556	-0.034305758	0.395383005
<b>ENDOG</b>	7.097033675	7.160880275	0.012920794	0.364326129
<b>ENG</b>	7.162894192	6.844928732	-0.065507111	0.233779012
<b>ENHO</b>	3.855656185	4.010787296	0.056909048	0.129271778
<b>ENO1</b>	10.45881513	10.70098992	0.033024843	0.020985527
<b>ENO2</b>	9.930824954	10.1731513	0.034781174	0.362503846
<b>ENO3</b>	6.066687152	6.110634852	0.010413358	0.830123381
<b>ENOPH1</b>	7.142128901	7.232160627	0.018072549	0.159749714
<b>ENOSF1</b>	6.130508007	6.207369232	0.017975336	0.423979749
<b>ENOX1</b>	4.733173139	4.726121866	-0.002150866	0.958736879
<b>ENOX2</b>	5.172657656	5.08931819	-0.023433319	0.172837504
<b>CDK2</b>	3.098315662	2.870010197	-0.110428273	0.013602502
<b>ENPP1</b>	5.617309066	5.462275099	-0.040377208	0.319180753

ENPP2	6.79611298	6.839878246	0.009260808	0.907189277
ENPP3	2.140491861	2.098952472	-0.028272851	0.208038954
ENPP4	8.094098351	8.186621887	0.016397884	0.156295226
ENPP5	6.465636861	6.575815077	0.024377247	0.105134079
ENPP6	3.074164583	2.834819704	-0.116937423	0.069630865
ENPP7	2.152559338	2.14942038	-0.002105337	0.955439105
ENSA	5.118531007	5.171653127	0.014895691	0.277556727
ENTHD1	2.122421424	2.114897599	-0.005123332	0.744720162
ENTPD1	3.113474232	2.922945106	-0.091102604	0.056019507
ENTPD2	3.813935536	3.834249127	0.007663619	0.781534705
ENTPD3	3.481620139	3.742075373	0.104079811	0.023147892
ENTPD4	5.820974205	5.871347204	0.012430949	0.577255067
ENTPD5	2.493238252	2.533708077	0.023229561	0.37909861
ENTPD6	6.754873391	6.719141577	-0.0076518	0.480793348
ENTPD7	2.611637649	2.595260866	-0.009075184	0.672384341
ENTPD8	2.090017715	2.055819423	-0.023801623	0.392703867
ENY2	8.499672417	8.436863437	-0.01070049	0.304656883
EOMES	3.536960556	3.556406077	0.007909933	0.752563346
EP300	3.947347477	3.98221662	0.012688179	0.290265233
EP400	4.308529073	4.348407183	0.013291621	0.282779444

EP400NL	3.22457504	3.401815613	0.077195902	0.01185026
EPAG	1.959758278	1.975996528	0.011904693	0.669869472
EPAS1	10.61024332	10.51423061	-0.013114458	0.450429782
EPB41	3.456440497	3.575809324	0.048982719	0.308901951
EPB41L1	7.689824477	7.713263204	0.004390673	0.868500124
EPB41L2	5.759091099	5.836717049	0.019315988	0.724453397
EPB41L3	6.355728166	6.314030613	-0.009496167	0.688565414
EPB41L4A	3.577988636	3.547591303	-0.01230899	0.380970668
EPB41L4B	3.191363205	3.244067085	0.023630844	0.374999925
EPB41L5	4.023872689	4.102459007	0.027904258	0.537415574
EPB42	2.517989172	2.426703549	-0.053274202	0.534688539
EPB49	3.054695576	3.17655619	0.056434928	0.198244429
EPC1	6.423299159	6.489553599	0.014804752	0.029365327
EPC2	7.80119596	7.813562556	0.002285175	0.730669289
GLIS1	5.226899675	4.842574092	-0.110181346	0.004490323
EPDR1	7.264078974	7.161238338	-0.020570804	0.205310898
EPGN	1.825625927	1.88459788	0.04586554	0.387756988
EPHA1	2.156187119	2.217995204	0.040773862	0.047873446
EPHA10	3.288026139	3.403109894	0.049631972	0.284328368
EPHA2	3.455394675	3.527512338	0.029800624	0.170889336



EPHA3	3.731168331	3.654303563	-0.030030965	0.418800489
EPHA4	5.655327265	5.679516866	0.006157698	0.877194738
EPHA5	3.044096808	3.122581014	0.036724762	0.596725965
EPHA6	1.869390305	1.911531599	0.032161232	0.36032778
EPHA7	2.43705151	2.459958113	0.013497006	0.552538099
EPHA8	2.551124391	2.592057838	0.022964665	0.340052315
EPHB1	2.904506026	3.075727021	0.082634643	0.165985766
EPHB2	3.100004457	3.257636704	0.071555432	0.089560644
EPHB3	4.414384397	4.314697113	-0.032952975	0.227872646
EPHB4	2.79194445	2.632852669	-0.084643445	0.049051771
EPHB6	4.769864881	4.868601634	0.02955906	0.511350152
EPHX1	6.032330265	5.932845507	-0.023991202	0.186710694
EPHX2	8.371612185	8.373461725	0.000318699	0.876650718
EPM2A	2.739311848	2.82802138	0.045979513	0.059474433
EPM2AIP1	6.72771645	6.720474099	-0.00155389	0.913205464
EPN1	2.75510396	2.696427218	-0.031057665	0.256168873
EPN2	8.973601762	8.944254754	-0.00472588	0.608259205
EPN3	2.832233093	2.870532331	0.019378301	0.269398207
EPO	2.31460294	2.434651	0.072950254	0.076357512
EPOR	5.097367503	5.076010296	-0.006057375	0.629170325

EPPK1	2.60926655	2.733185479	0.066939037	0.180346822
EPR1	1.945863086	1.912894085	-0.024653208	0.245634751
EPSRS	8.954123675	8.939086831	-0.002424784	0.78630522
EPS15	4.507621629	4.482892599	-0.007936485	0.522055103
EPS15L1	3.126287497	3.18056069	0.024830659	0.347789516
EPS15L2	2.983121868	2.928032507	-0.026891346	0.317841941
EPS8	9.097775278	8.975246958	-0.019562164	0.347080549
EPS8L1	4.057486384	3.860553289	-0.071778626	0.034836876
EPS8L2	4.994972325	5.083637993	0.025384615	0.400002528
EPS8L3	2.02852351	2.076514697	0.03373406	0.275729718
EPSTI1	2.968641868	2.842656261	-0.062563403	0.189721328
EPX	1.903217139	1.938683775	0.026637331	0.709506396
EPYC	1.81364657	1.824860423	0.00889278	0.665853264
ERAF	2.547136854	2.421589704	-0.072922029	0.215356649
ERAL1	4.20246155	4.207482423	0.001722625	0.722901987
ERAP1	2.427822444	2.456558394	0.016975618	0.363961491
ERAP2	4.430777272	4.611525486	0.057684264	0.277557186
ERAS	1.915010927	1.909015232	-0.00452401	0.99339503
ERBB2	6.653049079	6.661595345	0.001852044	0.816701474
ERBB2IP	7.518846788	7.497905317	-0.004023796	0.809743061

ERBB3	2.929690715	2.874955246	-0.02720887	0.586240872
ERBB4	5.66906396	5.880702761	0.052878025	0.009321195
ERC1	5.116653238	5.092665972	-0.00677937	0.463789419
ERC2	4.750938185	4.957535345	0.061410622	0.565998248
ERCC1	7.557007828	7.550062162	-0.001326595	0.643443516
ERCC2	4.336505656	4.346311507	0.003258587	0.713618928
ERCC3	5.791743172	5.848115211	0.013974104	0.147618446
ERCC4	3.511672099	3.581007859	0.028207545	0.189954111
ERCC5	8.445597748	8.415372	-0.005172488	0.335184934
ERCC6	4.397425702	4.297176676	-0.033270108	0.015055883
ERCC6L	1.947267649	1.901049169	-0.034655347	0.118492723
ERCC8	2.956986675	2.951191394	-0.002830255	0.867957289
EREG	2.07017547	2.028876014	-0.029072353	0.236226252
ERF	4.35596955	4.394232049	0.012617188	0.937316692
ERG	3.856408503	3.641726831	-0.082635173	0.07353914
ERGIC1	7.193613013	7.178710838	-0.002991764	0.650382003
ERGIC2	6.920903616	6.908376986	-0.002613601	0.739505711
ERGIC3	7.159739497	7.162213908	0.00049851	0.906642529
ERH	9.940672278	9.972346345	0.004589566	0.367982208
ERI1	3.042086689	3.189625761	0.068325897	0.028906872

ERI2	2.897438583	2.896355303	-0.000539489	0.714648335
ERI3	4.368336881	4.380547577	0.004027102	0.829585464
ERIC1	5.58839006	5.596587394	0.002114668	0.921965077
ERLIN1	7.000432013	6.888386873	-0.023277786	0.136385798
ERLIN2	5.292807748	5.271125669	-0.005922164	0.604885761
ERMAP	2.552761444	2.572895479	0.011334127	0.438516188
ERMN	5.245684238	5.392138035	0.039726461	0.480793819
ERMP1	3.573847861	3.559747908	-0.005703143	0.651872937
ERN1	4.495342265	4.600441873	0.033341476	0.466741012
ERN2	3.648344967	3.567158732	-0.032466734	0.171753103
ER01L	5.26395757	5.383162725	0.032306176	0.2800065
ER01LB	3.107242152	3.058230134	-0.022937703	0.145507831
ERP27	4.396693762	4.102057535	-0.100071322	0.133504986
ERP29	9.101592291	9.069734296	-0.005058675	0.888083623
ERRFI1	7.698050185	7.472089218	-0.042981395	0.055313775
ERVWE1	1.975953	1.955468113	-0.015034621	0.708479777
ESAM	5.171579742	5.057005683	-0.032321642	0.453750728
ESC01	6.849965364	6.808905049	-0.008673878	0.146272397
ESC02	2.036856325	2.10249019	0.04575485	0.560409703
ESD	6.805321662	6.831002683	0.005434005	0.745242076

ESF1	4.643067252	4.638419021	-0.001445023	0.863073759
ESM1	2.220063139	2.175623204	-0.02917199	0.366152631
ESPL1	2.621683927	2.615285627	-0.003525245	0.812417498
ESPN	4.784462596	4.951810387	0.049599186	0.102060797
ESPNL	4.63730043	4.745416239	0.033249442	0.405821755
ESR1	2.251690669	2.215205613	-0.023568033	0.125483725
ESR2	2.032639503	2.033585951	0.000671598	0.701307004
ESRRA	8.576601603	8.581530056	0.000828791	0.985689813
ESRRB	3.441600497	3.544129366	0.042351627	0.251005656
ESRRG	5.306776364	5.534693134	0.060667578	0.445067844
ESX1	1.96475149	1.978658894	0.010176078	0.806002236
ETAA1	4.071693172	4.066888373	-0.001703457	0.901178286
ETF1	6.963821762	6.894709824	-0.014389443	0.272099226
ETFFA	6.531565583	6.478008768	-0.011878419	0.247886064
ETFB	10.71622418	10.75928508	0.005785551	0.188316555
ETFDH	6.875193325	6.806343908	-0.014520232	0.237319511
ETHE1	6.193401669	6.094413021	-0.023244739	0.110881702
ETNK1	3.748462603	3.757629915	0.003523976	0.711561679
ETNK2	2.468822762	2.481137394	0.007178359	0.473951847
ETS1	3.176937583	3.001505303	-0.081950529	0.043181551

ETS2	8.386531589	8.126189	-0.045495361	0.247603785
ETV1	2.718924318	2.731214387	0.006506569	0.760957461
ETV3	2.369035132	2.382477859	0.008163213	0.701307105
GJA3	2.191442821	2.031588859	-0.109272569	0.013973868
ETV4	2.43131249	2.498653092	0.039415283	0.255591623
ETV5	4.226836841	4.389227859	0.054388743	0.014381641
ETV6	4.438913318	4.366788718	-0.023633807	0.385109201
ETV7	2.999479861	3.071651148	0.034302031	0.544263857
EVC	3.716017589	3.651957859	-0.025087213	0.584343786
EVC2	3.022965258	2.880493479	-0.069648407	0.120293824
EVI1	3.441834311	3.360643176	-0.034440279	0.356716871
EVI2A	3.787702199	3.667323577	-0.046595342	0.340052373
EVI2B	3.91200194	3.846946465	-0.024193333	0.748377038
EVI5	4.076767126	4.092052718	0.005399182	0.82797243
EVI5L	4.004029185	4.06424662	0.021535458	0.33414932
EVL	9.622640788	9.635889317	0.001984948	0.905548962
EVPL	4.652544437	4.692930782	0.012469252	0.506923796
EVX1	5.961566828	5.937058127	-0.005943314	0.90500284
EWSR1	4.297132894	4.402881768	0.035073709	0.17656205
EXDL1	2.014569464	1.89714512	-0.086641511	0.000761372

EXDL2	2.840730629	2.886155634	0.022887063	0.096404724
EX01	2.190401636	2.196610859	0.004083883	0.906642518
EXOC1	7.448606404	7.431666232	-0.00328482	0.453334561
EXOC2	4.482374073	4.395358937	-0.028282068	0.170458623
EXOC3	5.557091603	5.54053188	-0.004305543	0.781004794
EXOC3L	3.791791424	3.629640162	-0.063053079	0.115751824
EXOC3L2	12.21001225	12.13417091	-0.00898911	0.2605147
EXOC4	5.790081974	5.753158141	-0.009229646	0.506040785
EXOC5	3.641779497	3.744164796	0.040000363	0.05358199
EXOC6	7.525172212	7.651060338	0.023935103	0.866871588
EXOC6B	4.170084146	4.053347077	-0.04096278	0.02090932
EXOC7	9.001597311	9.036509641	0.005584611	0.512680541
EXOC8	5.97852643	6.089340852	0.026496133	0.166830931
EXOG	2.527917934	2.571662021	0.024751421	0.32525025
EXOSC1	7.838142192	7.86939469	0.005740923	0.515795907
EXOSC10	8.132972768	8.150274493	0.003065865	0.883725371
EXOSC2	4.106750232	4.132673838	0.0090783	0.650382042
EXOSC3	6.537104106	6.43228219	-0.023320973	0.084844168
EXOSC4	7.409503464	7.378392092	-0.006070409	0.692633193
EXOSC5	4.023983861	4.03150319	0.002693345	1

EXOSC6	6.426731358	6.431425014	0.001053264	0.492460421
EXOSC7	7.18809753	7.222957803	0.006979758	0.255879937
EXOSC8	7.729757305	7.781051817	0.009542069	0.095852617
EXOSC9	7.41218106	7.613668782	0.038693687	0.000138169
EXPH5	3.136055404	3.133231599	-0.001299634	0.658848159
EXT1	4.610803053	4.539253444	-0.022563002	0.49725688
EXT2	7.955752265	7.896359261	-0.010810723	0.179450426
EXTL1	5.75253306	5.779983697	0.006868054	0.815094301
EXTL2	3.066746351	3.045211296	-0.010166512	0.495946283
EXTL3	7.171139325	7.24875762	0.015531402	0.14897331
EYA1	4.512733874	4.113590754	-0.13360343	0.032810466
EYA2	6.327514331	6.026635394	-0.070286084	0.039277183
EYA3	3.968372675	3.853473085	-0.042388203	0.007106839
EYA4	3.068075106	2.926493155	-0.068160896	0.12029378
EYS	2.534721596	2.589271211	0.030718791	0.554385773
EZH1	7.663384735	7.69769607	0.006444973	0.677425106
EZH2	4.938934079	4.924137303	-0.004328723	0.866328926
EZR	7.713506318	7.778748303	0.012151213	0.551155051
F10	5.249128947	5.192532218	-0.015639776	0.453335046
F11	2.52235647	2.402378099	-0.07030895	0.125654233



F11R	6.262799265	6.051267401	-0.049570301	0.320523191
F12	4.979658821	5.073875789	0.027041302	0.583396428
F13A1	8.419081722	7.907553254	-0.090431519	0.036471829
F13B	1.876100523	1.844381261	-0.024600218	0.786836128
F2	2.074881616	2.060129535	-0.010293972	0.819381675
F2R	3.298117821	3.09709407	-0.090727734	0.100194543
F2RL1	1.961157934	2.008359521	0.034311831	0.449603914
F2RL2	4.73811098	4.98766393	0.074052268	0.176562463
F2RL3	2.612348801	2.488573852	-0.070028337	0.127022802
F3	5.888114265	5.842828254	-0.011138786	0.583396383
MGC16121	4.141856033	3.839802606	-0.10924526	0.009741663
F7	2.874700775	2.866825028	-0.00395794	0.750469058
F8	2.983585073	2.868870493	-0.056564071	0.032641552
F8A1	9.149854053	9.249751028	0.015665802	0.095577731
F9	1.935559318	1.919210493	-0.012237571	0.314511439
FA2H	2.323550265	2.377112852	0.032879541	0.249301004
FAAH	3.786192497	3.818615725	0.012301984	0.49856937
FAAH2	4.15382745	4.486721542	0.111220361	0.035435038
FABP1	2.149575073	2.273555007	0.080898413	0.057998837
FABP12	4.413018868	4.611384	0.063433892	0.567399668

FABP2	1.824035477	1.783572951	-0.032363564	0.113846761
FABP3	4.552405563	4.63275562	0.025241492	0.749946067
FABP4	2.039507517	2.029581289	-0.0070387	0.997247903
FABP5	7.27973204	7.253339479	-0.005239974	0.934573449
FABP6	3.919675391	3.980893887	0.022358234	0.565998201
CNTD2	2.224083192	2.062317514	-0.108944286	0.0066502
FADD	7.330814894	7.34334912	0.002464613	0.947747442
FADS1	9.968420331	10.15665939	0.026989157	0.006512857
FADS2	9.194559801	9.496883683	0.046673678	0.003061136
FADS3	6.38649798	6.550956606	0.036680542	0.000656402
FADS6	2.349550351	2.30224743	-0.029341792	0.826897478
FAF1	7.584028788	7.565033901	-0.003617893	0.816701216
FAF2	5.850842967	5.915975669	0.015971621	0.09863641
FAH	5.254401338	5.203669254	-0.013997133	0.533327621
FAHD1	5.329624914	5.267544852	-0.01690331	0.288694925
FAHD2A	7.813100715	7.800849542	-0.002263964	0.924156533
FAIM	8.760501417	8.78284243	0.003674475	0.839278642
FAIM2	4.379270007	4.504448507	0.040660081	0.563666446
FAIM3	3.100968934	3.054093261	-0.021974955	0.429195892
FAM100A	5.783149609	5.725873169	-0.014359711	0.133147683

FAM100B	10.30618025	10.22714229	-0.011106653	0.015996868
FAM101A	6.652370384	6.45588843	-0.04325285	0.113374611
FAM101B	6.986770351	6.745079761	-0.050790218	0.158524005
FAM102A	9.866589007	9.987781915	0.017612906	0.007482689
FAM102B	4.263686715	4.20182193	-0.021086414	0.30013008
FAM103A1	6.026436099	6.011866606	-0.003492078	0.66986936
FAM104A	7.178987954	7.237705859	0.011752001	0.067637317
FAM104B	6.567333728	6.460995085	-0.023551392	0.022856975
FAM105A	4.07221694	3.777467613	-0.108395035	0.104690754
FAM105B	3.237030523	3.19763669	-0.017664938	0.257326203
FAM106A	2.180276841	2.215725704	0.023267961	0.319515829
FAM107A	9.75916951	9.858949289	0.014675519	0.142853486
FAM107B	7.197122649	7.118903958	-0.015765106	0.438924189
FAM108A1	8.603055669	8.553237824	-0.008378518	0.186478383
FAM108B1	2.433414596	2.455326028	0.012932462	0.533780968
FAM108C1	6.895306623	7.058768239	0.033801747	0.18948849
FAM109A	3.478641265	3.50438081	0.010635648	0.705402641
FAM109B	3.337531457	3.252064901	-0.037425385	0.20457173
FAM110A	7.551597007	7.467624585	-0.016132375	0.091796753
FAM110B	5.228357543	5.201074268	-0.007548165	0.570207299

FAM110C	4.901448901	4.832393155	-0.020470448	0.602480751
FAM111A	7.836134258	7.714011852	-0.022660753	0.164095886
FAM111B	1.901758689	1.874996211	-0.020446516	0.913752635
FAM113A	3.918968364	4.015000324	0.034926177	0.076931462
FAM113B	4.123631563	4.003308162	-0.042722763	0.35312879
FAM114A1	3.373267411	3.173154958	-0.088228715	0.037471779
FAM114A2	4.305777411	4.296154789	-0.003227767	0.628680603
FAM115A	4.467016934	4.535082669	0.021817126	0.460429779
FAM115C	2.806344358	2.79416838	-0.006273086	0.547474434
FAM116A	7.405580106	7.407515035	0.000376898	0.930734242
FAM116B	2.869728238	2.850076817	-0.009913317	0.910470192
FAM117A	8.44068294	8.436060676	-0.000790261	0.940609488
FAM117B	5.717924225	5.731117852	0.003325062	0.509134278
FAM118A	3.201152748	3.096607669	-0.04790291	0.091797063
FAM118B	4.638772483	4.720449599	0.025181187	0.159954586
FAM119A	7.354236192	7.264358366	-0.017740136	0.149751797
FAM119B	2.571475801	2.548612732	-0.012884408	0.251575451
FAM120A	6.407124391	6.341310268	-0.014896033	0.084843945
FAM120AOS	7.841765404	7.791371092	-0.009301253	0.154688576
FAM120B	4.87955496	4.928070634	0.014273361	0.416818498

FAM120C	6.335878934	6.378381817	0.009645693	0.421983218
FAM122A	6.90195643	6.945894134	0.009155055	0.635551952
FAM122B	3.615611623	3.512295169	-0.041825624	0.284949369
FAM122C	3.441322887	3.420338113	-0.008824314	0.599600145
FAM123A	4.959736576	5.282298197	0.09090225	0.128056957
FAM123B	4.754000305	4.696447345	-0.017572161	0.232967143
FAM123C	4.528934556	4.854947458	0.10028399	0.054963885
FAM124A	4.315625384	4.377232155	0.020449264	0.423979472
FAM124B	3.546152914	3.306712521	-0.100857122	0.043827063
FAM125A	5.105256616	5.07710519	-0.007977329	0.671378099
FAM125B	3.968523344	4.016335331	0.017277436	0.515350906
FAM126A	2.503478755	2.471176817	-0.018735971	0.536506013
FAM126B	6.295087159	6.294260775	-0.000189401	0.742632976
FAM127A	10.02659528	10.03505645	0.001216938	0.892989901
FAM127B	10.44201215	10.4506407	0.001191651	0.771487845
FAM128B	11.1060007	11.20325884	0.012579057	0.026048513
FAM129A	6.530373709	6.119371049	-0.093782174	0.13190476
FAM129B	11.31503398	11.28946606	-0.003263662	0.76726824
FAM129C	2.378030384	2.328057979	-0.03064016	0.517134461
FAM12A	1.876718099	1.837099183	-0.030782442	0.170673393

FAM12B	1. 93561045	1. 899898063	-0. 026866619	0. 240345014
FAM131A	6. 533914702	6. 537377683	0. 000764427	0. 887538719
FAM131B	2. 557822139	2. 630784176	0. 040576949	0. 082623466
FAM131C	7. 894846331	8. 047977423	0. 027715073	0. 027181541
FAM132A	3. 307494762	3. 289874613	-0. 007706272	0. 50692334
FAM133A	3. 298233391	3. 566691613	0. 11289299	0. 031589135
FAM133B	5. 39326555	5. 29240631	-0. 027235245	0. 000866596
FAM134A	7. 899832954	7. 977313556	0. 014080839	0. 247603841
FAM134B	6. 455810755	6. 648673099	0. 042468157	0. 103954822
FAM134C	5. 515768662	5. 645580965	0. 033560101	0. 066199572
FAM135A	3. 858705172	3. 91840231	0. 022148712	0. 589091913
FAM135B	4. 152846344	4. 4790625	0. 109096305	0. 028205871
FAM136A	7. 16214645	7. 185281563	0. 004652672	0. 638013875
FAM136B	2. 819071232	2. 742305211	-0. 039830784	0. 453334992
FAM138B	6. 854629517	6. 931408141	0. 016069778	0. 677929978
FAM13A1	5. 962115695	5. 963214789	0. 000265931	0. 998899158
FAM13A10S	4. 578646046	4. 742262585	0. 050654507	0. 360690077
FAM13B1	5. 596048967	5. 485227979	-0. 028857003	0. 025546045
FAM13C1	2. 053693139	1. 976378915	-0. 055361062	0. 021411449
FAM148A	6. 99810245	6. 979299838	-0. 003881473	0. 717739697

FAM148B	4.348723139	4.389571204	0.013488154	0.527450761
FAM148C	7.156156503	6.974402162	-0.037115383	0.022124017
FAM149A	6.189508828	6.305240993	0.026726585	0.341100751
FAM149B1	4.827739377	4.765091704	-0.018843816	0.159135544
FAM150A	1.919793662	1.909011077	-0.008125785	0.746286696
FAM150B	7.09021904	6.316614134	-0.166678753	0.033839573
FAM151A	2.68810751	2.871911134	0.095420269	0.103808105
FAM152A	5.957460331	5.99159007	0.008241482	0.280620285
FAM152B	4.230431126	4.241166923	0.003656568	0.754659113
FAM153A	2.688617656	2.64117462	-0.025684919	0.667358372
FAM153B	4.169292477	4.040812944	-0.045157013	0.220250329
FAM153C	3.797182099	3.710523493	-0.033306446	0.346374456
FAM154A	1.894678437	1.955221451	0.045379002	0.370191369
FAM154B	2.075285325	2.05333107	-0.015343441	0.572552039
FAM155A	7.291167344	7.306081183	0.00294797	0.851700377
FAM155B	3.648964868	3.668587662	0.007737499	0.779946217
FAM156A	9.348244013	9.246099782	-0.015850461	0.018072726
FAM158A	7.53263704	7.607812415	0.01432666	0.253291213
FAM159A	2.08480149	2.029401556	-0.038855662	0.410513128
FAM160A1	2.045022318	2.020232641	-0.017595151	0.875019638

FAM160A2	8.558290404	8.50155438	-0.009595994	0.157913158
FAM160B1	7.339595775	7.283536817	-0.01106143	0.089951967
FAM160B2	7.18971196	7.107428711	-0.01660625	0.036287199
FAM161A	7.855579212	8.04324007	0.034059128	0.188558773
FAM161B	3.727727828	3.931599373	0.076819791	0.008072473
FAM162A	9.896315079	10.03602222	0.020224231	0.019607485
FAM162B	6.224545252	5.776335056	-0.107814013	0.0489725
FAM163A	2.071885993	2.049554563	-0.015634222	0.513125998
FAM164A	8.048283159	8.058838627	0.001890881	0.953790515
FAM164C	3.245835371	3.349323718	0.045279994	0.186710799
FAM165B	6.087049152	6.123853986	0.008696869	0.442194233
FAM166B	2.240371868	2.32785112	0.055260575	0.130671077
FAM167A	2.61135257	2.811899577	0.106747817	0.037661803
FAM167B	4.640948642	4.505049056	-0.042876917	0.251861168
FAM168A	4.85887404	4.974507113	0.033931554	0.591949555
FAM168B	6.865386179	6.926225549	0.012728495	0.528352564
FAM169A	8.207944146	8.447559092	0.041513624	0.485527665
FAM169B	1.960739695	1.959462211	-0.000940268	0.920321905
FAM170A	1.970024338	1.932377338	-0.027836614	0.55392356
FAM171A1	5.157313934	5.07766943	-0.022453393	0.24845141



FAM171B	5.320601596	5.445629599	0.033509477	0.6804564
FAM172A	6.623586781	6.672098831	0.010527987	0.622328568
FAM173A	8.133190947	8.221639662	0.015604658	0.050092025
FAM173B	4.733527669	4.589234824	-0.044662126	0.006116601
FAM174A	7.804549106	7.934431204	0.023811519	0.118818586
FAM174B	8.598821384	8.581010282	-0.002991414	0.985689826
FAM175A	2.766739914	2.769713641	0.001549794	0.453334938
FAM175B	2.678231245	2.62035569	-0.031517874	0.460429779
FAM176A	4.287342411	4.021288225	-0.092425898	0.058181527
FAM176B	6.430010483	6.250809535	-0.040778046	0.508691939
FAM177A1	6.823760563	6.742464542	-0.017290996	0.194184886
FAM178A	3.269437152	3.295710141	0.011547072	0.231887801
FAM178B	3.011161642	3.045347261	0.016286592	0.468855587
FAM179A	3.005136338	2.909397451	-0.04671005	0.097934762
FAM179B	2.681923775	2.642902606	-0.021144973	0.476084038
FAM180A	2.314416874	2.297234169	-0.010750821	0.973034532
CCDC17	3.268272788	3.032271127	-0.108129648	0.001047391
FAM181B	4.821192384	5.048414521	0.066440374	0.023910312
FAM183A	2.951938285	2.949504641	-0.001189881	0.841976054
FAM183B	2.223651258	2.260000155	0.023392328	0.359965769

FAM184A	6.593052318	6.69562181	0.022271513	0.240897844
FAM184B	2.426302808	2.488962317	0.036784775	0.333804402
FAM186B	2.259816159	2.233005866	-0.01721837	0.755707577
FAM187B	2.088875166	2.14402193	0.037593385	0.300774105
FAM18B	6.968179735	6.938953437	-0.006063751	0.652867409
FAM18B2	5.256193278	5.28221943	0.007125907	0.528804056
FAM19A1	1.992869166	2.068392648	0.053663083	0.190420681
FAM19A2	2.624016589	2.702138768	0.042324925	0.326949871
FAM19A3	5.006312821	5.07740012	0.020341514	0.622328734
FAM19A4	4.448022947	4.723365056	0.086650811	0.302388479
FAM19A5	6.050734795	6.201972873	0.035616863	0.184419068
FAM20A	6.878617053	6.684576211	-0.041282441	0.475657306
FAM20B	8.236839629	8.318765282	0.014278511	0.269696507
FAM20C	9.272295576	9.337877099	0.010168044	0.30303336
FAM21A	6.875832272	6.849780711	-0.00547655	0.422381452
FAM21C	7.464046417	7.455842394	-0.001586594	0.854405293
GPX8	5.65450404	5.246307718	-0.10809806	0.019500035
FAM22D	2.354532974	2.288983268	-0.04073401	0.617461408
FAM24A	1.904655046	1.838485169	-0.051012195	0.11735809
FAM24B	4.782558629	4.897203697	0.034175551	0.303035551

FAM25C	2.283873596	2.334113106	0.031391667	0.728595407
FAM26D	1.939189212	1.91158738	-0.020682429	0.289950516
KIR3DL2	2.085088503	1.934733169	-0.107974012	0.013061792
FAM26F	5.675073543	5.518944197	-0.04024679	0.247322351
FAM27A	5.034028795	4.897517162	-0.039662921	0.021024334
FAM27E3	4.442893391	4.3155105	-0.041968292	0.096543355
FAM27L	2.11729702	2.087348303	-0.020552314	0.475657306
FAM29A	4.647859477	4.670518366	0.007016228	0.645917953
FAM30A	2.763941775	2.826617085	0.032349233	0.763060486
FAM32A	6.842775272	6.835145092	-0.001609605	0.705402273
FAM33A	5.028949934	5.036380387	0.00213006	0.890809331
FAM35A	5.139294907	5.13321112	-0.001708843	0.637521002
FAM36A	9.076907868	9.194593979	0.018584955	0.087112108
FAM38A	6.674357603	6.549156585	-0.027319861	0.355637756
ABRA	2.27837898	2.11418343	-0.107907189	0.011665941
FAM3A	3.772684159	3.822013817	0.018741668	0.437701167
FAM3B	2.448498702	2.470302324	0.012790183	0.73222645
FAM3C	7.091203662	7.03213893	-0.012066958	0.165143321
FAM3D	2.950856543	2.816397437	-0.067282851	0.174583016
FAM40A	6.932031424	6.894838359	-0.007761464	0.457083374

FAM40B	5.298830146	5.610177296	0.082372482	0.061362838
FAM41C	2.141638073	2.09276769	-0.033302519	0.212559523
FAM43A	4.072072007	3.910407718	-0.058444035	0.050254259
FAM43B	5.055821344	5.199095007	0.040315034	0.179898339
FAM44A	5.553597483	5.640487317	0.022397195	0.140425055
FAM44B	6.522018556	6.522660289	0.000141947	0.971384269
FAM44C	4.919422861	4.948488923	0.008498978	0.603442091
FAM45A	8.27628847	8.286188282	0.001724671	0.982938245
FAM45B	3.780770046	3.848601887	0.025654337	0.122616534
FAM46A	7.953914861	7.8808385	-0.013315983	0.593380251
FAM46B	3.159952013	3.342815908	0.081161257	0.125143924
FAM46C	2.599402894	2.592552782	-0.0038069	0.880459114
FAM46D	1.866400318	1.814126197	-0.04098364	0.098918222
FAM47A	2.021198616	2.011595	-0.006871225	0.700795719
FAM47B	1.911137589	1.833235373	-0.060039618	0.048420395
FAM47C	4.322968305	4.338750803	0.005257468	0.756232133
FAM47E	4.259085715	4.441427169	0.060479569	0.095578719
FAM48A	3.85212847	3.832189775	-0.007486812	0.977435766
FAM49A	5.188532338	5.082743021	-0.029719215	0.085972655
FAM49B	7.29740045	7.235414894	-0.012306879	0.217407403

FAM50A	8.771228934	8.745349817	-0.004262899	0.593379502
FAM50B	6.738389278	6.664726246	-0.015858158	0.41169114
FAM53B	7.125373397	6.97183743	-0.03142669	0.021528786
FAM53C	4.431270927	4.379589944	-0.016924737	0.414841773
FAM54A	2.436618166	2.479491415	0.025164042	0.213065967
FAM54B	5.763493947	5.803189176	0.009902292	0.669366903
FAM55A	1.961754801	1.986893944	0.018370135	0.371297654
FAM55B	1.886313556	1.925629359	0.029760532	0.315507975
FAM55C	4.888465411	4.763028282	-0.03750253	0.049689989
FAM55D	1.910553139	1.939775246	0.021899119	0.705402507
FAM57A	4.946750132	5.129596796	0.052364401	0.036657864
FAM57B	9.520209272	9.562751894	0.006432559	0.906642396
FAM58A	8.128984907	8.203702627	0.013199987	0.142854534
FAM59A	6.26161202	6.458461239	0.044656357	0.114320934
FAM5B	2.189576311	2.215389092	0.016908372	0.275425711
FAM5C	2.716769497	2.857703296	0.072963969	0.040006382
FAM60A	6.233063563	6.231253345	-0.000419051	0.910470139
FAM62A	6.77600953	6.739639768	-0.007764422	0.932927907
FAM62B	6.988488947	6.877319113	-0.02313426	0.145317012
FAM62C	2.003012828	1.976174507	-0.01946131	0.51357075

FAM63A	6.614300715	6.632841338	0.004038378	0.834967694
FAM63B	7.77338347	7.77625712	0.000533234	0.968634104
FAM64A	2.623736093	2.683161289	0.032311165	0.103223088
FAM65A	8.632239159	8.555785528	-0.012834517	0.131727377
FAM65B	4.286009086	4.194007993	-0.031305298	0.209037403
FAM65C	2.97753296	2.803182789	-0.087051656	0.171536804
FAM69A	2.944849391	2.981119204	0.017660213	0.31750767
FAM69B	7.732468238	7.638861732	-0.017571324	0.076128681
FAM70A	3.108369384	3.030415606	-0.036642292	0.468009291
FAM70B	3.087796265	3.010840338	-0.03641136	0.091930285
FAM71A	1.99292851	1.950051169	-0.031377978	0.28681799
FAM71B	1.972622166	1.979886732	0.005303247	0.918131515
FAM71C	1.930148013	1.906631275	-0.017685618	0.807070579
FAM71D	1.963423715	1.983255824	0.014499239	0.261112389
FAM71E1	7.437546901	7.667689535	0.043965063	0.267309802
FAM71E2	1.98353894	1.919294965	-0.047500273	0.0733173
FAM71F1	2.846636742	3.034822817	0.092353887	0.023653759
FAM73A	4.327277748	4.381831021	0.018074126	0.522952174
FAM73B	4.401720245	4.346444092	-0.018231869	0.224959391
FAM74A3	2.858338444	2.648760634	-0.109859275	0.036042074

FAM75A2	1.889669397	1.897260035	0.005783572	0.797468958
FAM76A	3.801206119	3.866318211	0.024503124	0.377977892
FAM76B	5.170767609	5.117639746	-0.014899874	0.257036418
FAM78A	6.802231185	6.843655951	0.008759194	0.616975446
FAM81A	2.991092232	3.074452937	0.039657325	0.079854941
FAM81B	2.095050728	2.031855049	-0.044187692	0.194422219
FAM82A1	4.803265596	4.693739099	-0.033277933	0.242006809
FAM82A2	7.615199834	7.647178817	0.006045714	0.214336023
FAM82B	6.128601477	6.193324711	0.015156193	0.569270548
FAM83A	1.988201265	1.995326725	0.005161193	0.871215534
FAM83B	1.936792596	2.010964951	0.054218468	0.180795771
FAM83C	1.951405417	1.963618127	0.009000851	0.642455146
FAM83D	2.086287808	2.104022127	0.012211682	0.544263569
FAM83E	2.017026351	2.003041239	-0.010037808	0.610192215
FAM83F	2.243411636	2.247074542	0.002353624	0.909923229
FAM83H	3.519542331	3.686711803	0.066946805	0.002637931
FAM84A	3.684908649	3.804572873	0.046105642	0.365421472
FAM84B	4.845334199	5.070893077	0.065643678	0.011734786
FAM86A	2.950030629	3.003288528	0.025813149	0.433234268
FAM86B2	4.975213848	5.023647908	0.013976816	0.542890862

FAM86C	4.086578424	4.130251711	0.015336286	0.674398882
FAM86D	2.082239596	2.13183257	0.033958052	0.524749332
FAM89A	8.805329603	8.800884648	-0.00072846	0.905549198
FAM89B	8.474863391	8.393142803	-0.013978986	0.218695974
FAM8A1	3.38643649	3.409387718	0.009744734	0.548393173
FAM90A1	3.055408907	3.088338077	0.015465222	0.671880778
FAM90A7	3.697168245	3.798465225	0.038995917	0.095715965
FAM91A1	4.430939252	4.424914296	-0.001963035	0.553461346
FAM92A1	5.244901166	5.267467148	0.006193824	0.699773557
FAM92A3	2.32854951	2.274722465	-0.033741022	0.417610486
FAM92B	2.014135093	1.99937281	-0.010612945	0.710533906
FAM93B	1.965977927	1.923315049	-0.031652021	0.50295711
FAM96A	8.274469146	8.22220057	-0.009142193	0.251575282
FAM96B	9.268001583	9.243441725	-0.003828162	0.592424115
FAM98A	4.975567093	4.958555183	-0.004941156	0.710020118
FAM98B	2.045814887	2.040693444	-0.003616136	0.609225947
FAM98C	5.37084355	5.398794937	0.007488723	0.352413692
FAM9A	1.88319955	1.893666296	0.007996239	0.870672253
FAM9B	1.906487344	1.904451106	-0.001541705	0.845214882
FAM9C	1.974894589	1.934415423	-0.029877999	0.155892703



FANCA	2.998462556	3.00544893	0.003357548	0.615034116
FANCB	2.524919464	2.587511852	0.035328099	0.322543382
FANCC	4.64125747	4.585516021	-0.017431639	0.66134655
FANCD2	3.07553996	3.139674261	0.029775167	0.141729794
FANCE	7.182621795	7.147922423	-0.006986575	0.579141099
FANCF	6.013927305	6.065166366	0.01223979	0.644927887
FANCG	6.897807172	6.79231131	-0.022235216	0.038753908
FANCI	4.051972033	4.219091183	0.058308051	0.002206989
FANCL	7.726425252	7.594993648	-0.024752326	0.035254569
FANCM	3.916206391	4.062957014	0.053073302	0.009491207
FANK1	4.355005265	4.49123643	0.044438208	0.238416958
SERTAD3	3.273531934	3.039171493	-0.107169968	0.000834947
FAR1	3.140608126	3.170839211	0.013820783	0.614549161
FAR2	3.347476199	3.400483423	0.022666061	0.391559236
FARP1	7.723818106	7.45171738	-0.051741231	0.031643732
FARP2	3.600641384	3.562026155	-0.015555808	0.375742869
FARS2	5.266396132	5.248177866	-0.004999428	0.719286973
FARSA	7.231948636	7.28401857	0.010350169	0.139499145
FARSB	7.425619046	7.496065549	0.013622266	0.218437701
FAS	4.282138881	4.275625859	-0.002195972	0.72704115

SIX4	2.648436662	2.459990324	-0.106488366	0.005054353
FASN	3.756675503	3.886779261	0.049118673	0.09516769
FASTK	9.798249715	9.788392641	-0.001452087	0.608255569
FASTKD1	4.539545834	4.474142472	-0.020936771	0.388895418
FASTKD2	5.646053464	5.684598923	0.009815773	0.56646508
FASTKD3	4.757499013	4.838041648	0.024219831	0.208038954
FASTKD5	7.55009394	7.557064915	0.001331421	0.955988693
FAT1	4.834039046	4.791632507	-0.012711861	0.654858821
FAT2	1.95506894	1.885231648	-0.052477676	0.205064419
FAT3	2.742387305	2.837841817	0.049361839	0.258196805
FAT4	2.965603762	2.867107796	-0.048729703	0.239793135
FATE1	2.061411894	2.036285352	-0.017693055	0.830661379
FAU	12.44882513	12.43239132	-0.001905774	0.479448215
FBF1	3.086534119	3.053577754	-0.015487158	0.336571972
FBL	10.71518132	10.76070287	0.006116053	0.219208231
FBLIM1	5.265388007	5.092884852	-0.048056749	0.344610622
FBLN1	9.271287013	8.657212134	-0.098867112	0.027909308
FBLN2	5.330828616	5.221693049	-0.029842148	0.495073817
FBLN5	6.228730079	5.907452852	-0.076401845	0.119145327
FBLN7	3.19867047	3.226934789	0.012692051	0.518027211

FBN1	5.95661802	5.62342831	-0.083043512	0.223119659
FBN2	2.510542338	2.41511719	-0.055905859	0.111036238
FBN3	2.757135576	2.762856732	0.002990543	0.894081879
FBP1	4.516896536	4.604102803	0.027588179	0.459173521
FBP2	2.395209053	2.535190521	0.081942591	0.255303309
FBRS	9.163253642	9.127656655	-0.00561543	0.190651188
FBXL10	3.623799563	3.698159176	0.029304162	0.313847906
FBXL11	4.83060055	4.775962585	-0.016411024	0.688565414
FBXL12	4.703211106	4.548048148	-0.048398562	0.010675814
FBXL13	3.08792406	3.09775719	0.004586793	0.967534163
FBXL14	5.014391762	5.209782373	0.055148394	0.181696731
FBXL15	9.945998795	10.03546493	0.012919295	0.180344848
FBXL16	6.804515583	7.115022965	0.064375954	0.342150851
FBXL17	10.02469367	9.979096521	-0.006577043	0.333112258
FBXL18	3.419043603	3.461621254	0.017855062	0.470550981
FBXL19	4.453110821	4.518496775	0.021029377	0.532421413
FBXL2	5.579493934	5.67132219	0.023550845	0.141916943
FBXL20	4.049846179	4.047089683	-0.000982293	0.819381696
FBXL21	2.087905563	2.203419028	0.077687422	0.069736979
FBXL22	2.058838185	2.025721704	-0.023394457	0.721352064

FBXL3	7.246201444	7.209161176	-0.007393509	0.872302004
FBXL4	5.236336159	5.131495225	-0.029178455	0.058640542
FBXL5	8.445364179	8.396553239	-0.008362409	0.66034642
FBXL6	4.598073298	4.596914408	-0.00036366	0.934573457
FBXL7	6.459176437	6.170740542	-0.065906593	0.000342269
FBXL8	2.693197636	2.81619407	0.064426653	0.009396418
FBX010	3.808151781	3.809556662	0.000532132	0.856029672
FBX011	6.182358179	6.159988732	-0.005229528	0.486391778
FBX015	5.541573351	5.662144373	0.031052894	0.861989508
FBX016	5.439204179	5.578590275	0.036505012	0.452504489
FBX017	5.623793093	5.625626641	0.000470291	0.961485522
FBX018	5.842525305	5.807586782	-0.00865327	0.764112588
FBX02	8.877278106	8.995963479	0.01916041	0.309229773
FBX021	8.972252801	9.092365162	0.019185356	0.02390959
FBX022	4.534788199	4.548772923	0.004442246	0.798001691
FBX024	4.49231845	4.423357627	-0.022318312	0.447538861
FBX025	7.676629199	7.561427472	-0.021814347	0.002486359
FBX027	2.906850603	2.870183211	-0.018314095	0.532874419
FBX028	4.515276603	4.489188528	-0.008359684	0.652867486
FBX03	4.765171662	4.845863648	0.024225624	0.354919911

<b>FBX030</b>	6.884665384	6.823926944	-0.012784335	0.265528751
<b>FBX031</b>	6.913813841	6.959299803	0.009460401	0.299165423
<b>FBX032</b>	6.846675695	6.945215183	0.020615716	0.224695839
<b>FBX033</b>	7.226369669	7.245710655	0.003856137	0.503835961
<b>FBX034</b>	5.14471051	5.183980662	0.010970437	0.452504543
<b>FBX036</b>	3.619802146	3.765995556	0.057120454	0.093672644
<b>FBX038</b>	5.204899841	5.241642761	0.01014863	0.607295241
<b>FBX039</b>	1.887924768	1.904774239	0.012818739	0.867414361
<b>FBX04</b>	3.156857795	3.166338746	0.004326335	0.600559451
<b>CLIC3</b>	2.987588331	2.775639035	-0.106161407	0.016613212
<b>FBX041</b>	6.275375139	6.412889232	0.031272783	0.370191426
<b>FBX042</b>	7.439087444	7.349909577	-0.017399155	0.008255524
<b>FBX044</b>	5.034735901	5.067917303	0.00947688	0.502517506
<b>FBX045</b>	3.969097404	3.986338162	0.006253132	0.793211264
<b>FBX046</b>	6.990259748	6.911584746	-0.016329523	0.025409757
<b>FBX05</b>	3.758733358	3.655151768	-0.040315265	0.152304793
<b>FBX06</b>	4.851697291	4.886639239	0.01035306	0.50163845
<b>FBX07</b>	9.341011013	9.297206739	-0.00678137	0.596246567
<b>FBX08</b>	5.674366272	5.60861562	-0.016814564	0.247604123
<b>FBX09</b>	7.615439887	7.649349338	0.006409663	0.398843787

FBXW10	2.254754192	2.205426965	-0.031912178	0.599120665
FBXW11	7.396539	7.494269282	0.018937457	0.274515519
FBXW2	3.640031576	3.622661141	-0.006901101	0.746808932
FBXW4	6.835216656	6.888994852	0.011306432	0.288381414
FBXW4P1	4.450141424	4.522321479	0.023212368	0.599120665
FBXW5	8.999409258	8.976553613	-0.003668648	0.607294555
FBXW7	6.342274007	6.425471063	0.018802017	0.775186237
FBXW8	2.564581384	2.583985085	0.010874388	0.905549343
FBXW9	5.154245152	5.242961085	0.02462068	0.275122333
FCAMR	2.195112695	2.251235099	0.036421718	0.19088857
FCAR	2.330446695	2.219928824	-0.070093093	0.09434988
FCER1A	3.147627013	2.89475407	-0.120823808	0.116874606
FCER1G	6.711715914	6.523744627	-0.040981344	0.09326824
FCER2	1.992561351	2.045537894	0.037856118	0.112434597
FCF1	4.82302557	4.756620958	-0.020001393	0.055051047
FCGBP	7.717106874	8.106862704	0.071083624	0.103661553
FCGR1B	6.819643053	6.95171	0.02767167	0.549313294
FCGR2A	4.624214887	4.461869444	-0.051560141	0.283088943
FCGR2B	3.396814	3.466719852	0.029389034	0.440149008
FCGR3A	8.121662662	8.007729204	-0.020381918	0.507807312

FCGR3B	3.542130033	3.587279254	0.018272882	0.775186237
FCGRT	10.40411939	10.17283523	-0.032433037	0.254149878
FCH01	2.945709245	3.005878627	0.02917172	0.281853126
FCH02	5.547862238	5.466981662	-0.021187428	0.358880649
FCHSD1	2.434499775	2.465872521	0.018472851	0.35996554
FCHSD2	5.79060202	5.6743345	-0.029262146	0.155490918
FCN1	4.715024781	4.517710028	-0.06167368	0.20654788
FCN2	2.262726119	2.226102324	-0.023542063	0.213827729
FCN3	5.354232457	5.001306803	-0.098374667	0.140796986
FCRL1	1.970800735	1.971519373	0.000525972	0.952142151
FCRL2	2.264871848	2.320462415	0.034982909	0.85224128
FCRL3	2.070488106	2.02654612	-0.030947907	0.36505632
FCRL4	1.996491642	1.978886937	-0.012777846	0.503396917
FCRL5	2.365428821	2.416165415	0.030617479	0.793743214
FCRLA	2.11419998	2.096190275	-0.012342168	0.921965133
FCRLB	9.555719298	9.555071303	-9.78E-05	0.697729872
FDFT1	9.393411384	9.513288465	0.018294931	0.042684637
FDPS	10.25832044	10.37979898	0.016983961	0.035615348
FDPSL2A	7.832162212	7.952624979	0.022020495	0.020305282
FDX1	6.376540702	6.255399127	-0.02767203	0.073539003

FDX1L	8.516944901	8.481996887	-0.005932063	0.3331137
FDXACB1	2.205950868	2.256558704	0.032723652	0.218696359
FDXR	7.77385849	7.804656585	0.005704307	0.342501632
FECH	4.318542808	4.375473486	0.018894554	0.143987407
FEM1A	4.185417874	4.19545188	0.003454538	0.803866752
FEM1B	4.087052901	3.876396	-0.076344958	0.022898509
FEM1C	2.970951675	2.951784289	-0.009337843	0.990643069
FEN1	4.452318245	4.709902894	0.081140598	0.038172414
FER	2.741840093	2.721214408	-0.010893801	0.436480326
GRASP	8.670690212	8.056816923	-0.105936868	0.011643002
FER1L5	2.228361159	2.13272631	-0.063284236	0.147233063
FERD3L	2.054619086	1.994841845	-0.04259658	0.267607821
FERMT1	2.064333026	2.049719127	-0.0102495	0.834429089
FERMT2	4.503080291	4.415976528	-0.028179698	0.119636294
FERMT3	4.120916053	3.969261472	-0.054094473	0.269997091
FES	6.262479954	5.939847725	-0.076308134	0.044627044
FETUB	1.924510596	1.863817	-0.046231399	0.228405053
FEV	2.244379563	2.295931225	0.032762746	0.167254649
FEZ1	7.441994179	7.5146995	0.014026152	0.596725571
FEZ2	7.131143	7.150356838	0.003881907	0.660346762



FEZF2	4.288405291	4.586591535	0.096981173	0.040882992
FFAR1	2.276767364	2.253986275	-0.014508157	0.482082548
FFAR2	2.367914801	2.249071852	-0.074287421	0.031425586
FFAR3	2.215004344	2.27869607	0.040898984	0.139869236
FGA	1.950072517	1.876786521	-0.055263217	0.082379771
FGB	1.931060331	1.833055704	-0.07514261	0.004790455
FGD1	3.418908609	3.380069592	-0.016482908	0.522952372
FGD2	2.687494033	2.665014958	-0.012117921	0.905002806
FGD3	4.115566927	3.932978683	-0.065468811	0.222596083
FGD4	8.569482901	8.696381986	0.02120716	0.196565064
FGD5	4.458161391	4.209847261	-0.082680954	0.166830931
FGD6	3.855900576	3.636805415	-0.084396115	0.005705777
LVRN	2.127261775	1.977300359	-0.10546554	0.005901756
FGF10	2.327524967	2.238771465	-0.056089379	0.21331976
FGF11	2.319906358	2.375010549	0.033867349	0.434855576
FGF12	5.865499424	6.092604423	0.05480512	0.474804209
FGF13	5.467339483	5.500737796	0.008786176	0.49289568
FGF14	2.601011311	2.659046634	0.031836406	0.548393555
FGF16	1.941811695	1.905604711	-0.027154419	0.653862846
FGF17	2.180086311	2.112835746	-0.045204638	0.167254446

FGF18	2.83035853	2.743288176	-0.045078633	0.072545592
FGF19	1.891372377	1.91174531	0.015456903	0.920869598
FGF2	6.513669185	6.517937859	0.000945147	0.955988693
FGF20	1.883160106	1.856073866	-0.020901536	0.534234413
FGF21	1.965961331	1.930901845	-0.025960117	0.613579843
FGF22	1.941280642	2.004177915	0.046001888	0.091002716
FGF23	1.872754517	1.899754085	0.020650878	0.474804103
FGF3	7.464394695	7.628657718	0.03140396	0.004098656
FGF4	1.991341318	2.017992007	0.019179939	0.768325552
FGF5	1.887001748	1.865536134	-0.016505455	0.295011
FGF6	1.984560298	1.91287107	-0.053079759	0.193239059
FGF7	5.987822132	5.879285725	-0.026390474	0.231080711
FGF8	2.025041079	1.998725866	-0.018870561	0.990092681
FGF9	7.144420437	7.471681493	0.064615973	0.12395904
FGFBP1	2.02655551	2.012298894	-0.010185083	0.979086417
FGFBP2	4.900610397	5.079090479	0.051608719	0.334494929
FGFBP3	5.821412265	5.911290577	0.022103949	0.352056717
FGFR1	5.131006338	5.074645556	-0.015934748	0.306938236
FGFR10P	4.407768358	4.19392957	-0.071745773	0.004883995
FGFR10P2	5.921075901	5.850690641	-0.017252411	0.057543765

FGFR2	4.882134874	4.647300542	-0.071119204	0.28031388
FGFR3	6.347748391	6.154322915	-0.044644801	0.535142714
FGFR4	2.56128194	2.54793581	-0.007537138	0.808673823
FGFRL1	3.96069553	4.161031437	0.071187387	0.003266053
COL1A2	6.665687232	6.197189838	-0.105139462	0.019716844
FGGY	6.476780377	6.515033106	0.008495685	0.643938293
FGL1	2.140124987	2.100312197	-0.027091264	0.533327621
FGL2	5.378103238	5.131524268	-0.067710022	0.188559247
FGR	6.196468848	5.981563211	-0.050923743	0.396535403
FH	7.023538947	7.162212563	0.028207192	0.069949873
FHAD1	2.05633904	2.032511162	-0.016814874	0.535596791
TMEM26	2.556890384	2.377541549	-0.104919759	0.012491543
FHIT	11.04028189	11.049104	0.001152374	0.952690922
FHL1	6.291818391	6.262408908	-0.006759316	0.723419156
FHL2	10.95538575	10.48869597	-0.062804961	0.007973735
FHL3	3.200658344	3.231826838	0.013981216	0.990092686
FHL5	2.265979497	2.14822	-0.076993059	0.154689707
FHOD1	5.917972199	5.735630739	-0.045150773	0.157102984
FHOD3	7.404719272	7.413436282	0.001697376	0.860905323
FIBCD1	2.567635815	2.652594394	0.046963502	0.144746185

FIBIN	3.726901954	3.640879915	-0.033689707	0.552538621
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FICD	7.097414099	7.064846676	-0.006635232	0.69467056
FIG4	4.094452987	4.140815585	0.01624423	0.482942969
FIGF	3.499745689	3.402357915	-0.040715176	0.327631078
FIGN	3.505386457	3.51023069	0.001992341	0.99944958
FIGNL1	4.055241523	4.112558775	0.020248456	0.600079842
FILIP1	4.418448993	4.272195106	-0.048562495	0.642455106
FILIP1L	5.165301285	5.010015303	-0.044037492	0.07221694
FIP1L1	8.073160391	8.042039232	-0.00557218	0.179449492
FIS1	8.379769106	8.421190493	0.007113707	0.590995667
FIT1	2.197024795	2.268386155	0.046115104	0.544721745
FIZ1	4.548873126	4.587024099	0.01204929	0.554385347
FJX1	6.921098854	7.028791218	0.022275491	0.643938333
FKBP10	7.37506345	7.513046634	0.026742596	0.342501977
FKBP11	6.049422921	5.829159472	-0.053509653	0.349563676
FKBP14	5.652681351	5.548575824	-0.026817856	0.088008287
FKBP15	6.908619576	6.834110303	-0.015643939	0.143609212
FKBP1A	4.451444735	4.294763718	-0.051694883	0.145889995
FKBP1B	6.839521258	6.85886193	0.004073869	0.995596659

FKBP2	11.49611927	11.4955713	-6.88E-05	0.845752605
FKBP3	8.360463325	8.344897613	-0.002688548	0.685012762
FKBP4	6.16355306	6.057777592	-0.02497364	0.486392142
FKBP5	6.969233675	6.952106803	-0.003549783	0.865786295
FKBP6	2.174035887	2.132944627	-0.027529243	0.742111592
FKBP7	5.807712285	5.53535919	-0.069293047	0.036410405
FKBP8	4.37564855	4.398984873	0.007673774	0.622816111
FKBP9	8.447016497	8.383864634	-0.010826445	0.261111934
FKBP9L	3.147826205	3.138522915	-0.004270148	0.36615286
FKBPL	2.477046669	2.584910437	0.061493244	0.096266806
FKRP	5.301027788	5.40430493	0.027836976	0.096404962
FKSG2	3.278887874	3.200070789	-0.035102748	0.482512628
FKSG24	8.174615483	8.185234077	0.001872804	0.831737392
FKSG29	1.882061636	1.894351993	0.00939055	0.559016311
FKSG43	2.319590113	2.372946613	0.032809749	0.152304793
FKSG83	1.982789735	2.041523873	0.042114743	0.16810456
FKTN	2.317372358	2.399625838	0.050319595	0.107826544
FLAD1	4.293058795	4.263169373	-0.010079557	0.757281413
FLCN	4.514576583	4.261155239	-0.083346074	0.002842375
FLG	1.997163192	1.961463169	-0.026021977	0.260819827

FLI1	5.875005185	5.478894859	-0.100705207	0.062519419
FLII	7.420265265	7.311158599	-0.021370714	0.059381207
FLJ00049	2.908313099	2.844296521	-0.032110718	0.238966601
FLJ00290	1.964271576	1.921548246	-0.031725207	0.521158527
FLJ10038	8.435815252	8.508146549	0.012317384	0.151318567
FLJ10213	6.011945583	5.780214246	-0.056708983	0.047178132
FLJ10232	2.016468285	2.012253803	-0.003018433	0.820990908
FLJ10246	2.053162172	2.020009648	-0.023485402	0.639492813
FLJ10357	8.815626629	8.780105183	-0.005824899	0.521158229
FLJ10404	3.958110272	3.834530894	-0.045761713	0.014884772
FLJ10490	11.6896213	11.70437331	0.001819497	0.949394537
FLJ11151	4.926363623	4.94137362	0.004389023	0.908282695
FLJ11235	5.384758404	5.484178486	0.026393908	0.020342753
FLJ11292	2.487949397	2.427209768	-0.035658346	0.075786849
FLJ11506	8.449590775	8.589943613	0.02376719	0.032028347
FLJ11710	5.04742404	4.985188021	-0.017899376	0.352770897
FLJ11827	2.030484808	1.978786451	-0.037208307	0.084719469
FLJ11996	2.085447331	2.040349725	-0.031540419	0.178335665
FLJ12078	3.015119795	2.962859634	-0.025225044	0.307592041
FLJ12151	2.024380649	1.977210718	-0.034013956	0.478649784

FLJ12331	4.741438861	4.695603669	-0.01401429	0.492460576
FLJ12529	3.772946212	3.817676796	0.017003437	0.347435292
FLJ12547	2.725195894	2.68414257	-0.021898635	0.574431029
FLJ12616	2.228248596	2.18072769	-0.031100567	0.59385781
FLJ12825	1.939568689	1.892051859	-0.035784237	0.718255274
FLJ12986	3.276144768	3.287998634	0.005210591	0.664850918
FLJ12993	4.984441974	4.979735937	-0.001362757	0.978536191
FLJ13197	4.383365305	4.295624077	-0.029171172	0.380970725
FLJ13224	2.103730285	2.033682028	-0.048855624	0.233778789
FLJ13310	1.91493253	1.809027859	-0.082078936	0.005241223
FLJ13744	1.938438291	1.923150408	-0.011423209	0.614549288
FLJ14082	4.147435728	4.25309531	0.036293561	0.948846014
FLJ14100	2.08677751	2.053702775	-0.02304939	0.553000031
FLJ14107	2.360069139	2.317052669	-0.026538286	0.547015207
FLJ14126	2.181747119	2.099543972	-0.055407889	0.070914136
FLJ14213	3.457287974	3.28094057	-0.075531316	0.171105074
FLJ14327	3.129449927	3.038847746	-0.042384698	0.154090934
FLJ14816	2.001950146	2.025530993	0.016894113	0.284328368
FLJ16165	1.974811285	1.973047338	-0.001289224	0.695690262
FLJ16686	1.861999808	1.84236931	-0.01529064	0.515796558

FLJ20021	6.573485265	6.545709951	-0.006108815	0.675911248
FLJ20184	1.998859126	2.031664866	0.023485643	0.675407102
FLJ20323	5.496654841	5.564672535	0.017742903	0.256746915
FLJ20433	3.991955742	4.068719493	0.027479095	0.158320323
FLJ20464	2.422282444	2.507235563	0.049730452	0.161395107
FLJ20674	3.628334093	3.521827134	-0.042983206	0.215101274
FLJ20712	2.021439927	2.043938408	0.015968393	0.712589976
FLJ21075	2.057093543	1.93649962	-0.087156182	0.011327233
FLJ21272	3.227145126	3.150078317	-0.034870761	0.410121051
FLJ21369	2.171439344	2.121802458	-0.033361308	0.436886581
FLJ21408	2.266623596	2.28442457	0.011285975	0.66685662
FLJ21511	1.900024993	1.925630817	0.019312739	0.704890179
FLJ21865	8.100598795	7.951918585	-0.02672557	0.03213917
FLJ22167	4.167994901	4.213545155	0.015681074	0.427989121
FLJ22184	11.69885862	11.67601215	-0.002820164	0.48293587
FLJ22374	3.043175901	3.082725056	0.018628497	0.481652728
FLJ22536	4.486776371	4.454901472	-0.010285755	0.514905605
FLJ22596	2.130718424	2.099703993	-0.021153995	0.837661677
FLJ22662	6.224267013	5.968061359	-0.060641583	0.219472164
FLJ22763	1.973361	1.946026887	-0.020123259	0.967534148



FLJ22795	7.492281026	7.594732261	0.019594091	0.320859131
FLJ23152	2.102722841	2.135810493	0.022524943	0.475230626
FLJ23185	4.705611331	4.458753838	-0.077741611	0.005207799
FLJ23569	4.121101556	4.082505014	-0.013575359	0.634076904
FLJ23834	2.676768934	2.695601211	0.010114472	0.465896995
FLJ23865	2.223977272	2.229722472	0.003722108	0.692633436
FLJ23867	3.794276722	3.900436739	0.039810774	0.108735855
FLJ25006	5.783449709	5.906910275	0.03047341	0.883725509
FLJ25037	2.088249113	2.149811063	0.041916049	0.315840692
FLJ25328	1.983218907	2.004817155	0.015626734	0.484234719
FLJ25404	2.125293881	2.027115176	-0.068234286	0.049690098
FLJ25694	3.108370689	3.076416789	-0.014907592	0.642455186
FLJ25715	2.058275404	2.063191676	0.003441825	0.808673801
FLJ25758	1.956631841	1.900018493	-0.042358864	0.56180426
FLJ25770	2.020119603	2.069306092	0.034706353	0.309558634
FLJ27352	3.42636149	3.603185923	0.072595728	0.156901082
FLJ30064	4.493377238	4.550534148	0.018235713	0.587665415
FLJ30403	2.507003219	2.621188394	0.064257201	0.157913951
FLJ30430	2.232894523	2.238932254	0.003895772	0.750469116
FLJ30594	4.198066947	4.293680408	0.032489637	0.447126466

FLJ30672	2.042956808	2.112495972	0.048289887	0.046643068
FLJ30679	1.928840907	1.889357479	-0.029838458	0.196087423
FLJ30719	2.007644457	2.086394627	0.055508261	0.043971586
FLJ30851	4.514335371	4.735619049	0.069039429	0.00592667
FLJ31306	6.030544172	5.814745725	-0.052572086	0.008122058
FLJ31356	2.242845762	2.270344986	0.017581125	0.770434558
FLJ31485	2.876074391	2.730779366	-0.074788236	0.055138614
FLJ31713	2.07502604	2.078545915	0.002445177	0.988441573
FLJ31715	3.104285166	3.204240648	0.04572141	0.131551697
FLJ31813	2.490596742	2.555888803	0.037333621	0.101052435
FLJ31958	2.265744238	2.295729535	0.018967669	0.190187529
FLJ32063	1.935281331	1.907806359	-0.020628559	0.309558634
FLJ32065	7.578470285	7.604170542	0.004884219	0.641466457
FLJ32214	3.568502887	3.596296493	0.011193027	0.98348856
FLJ32252	2.009995609	2.033101585	0.016489952	0.892445389
FLJ32255	3.085051689	2.988887613	-0.045686011	0.117843494
FLJ32575	1.942199815	1.950953577	0.006487816	0.477793645
FLJ32679	4.134822298	4.133954549	-0.000302801	0.759381342
FLJ32682	1.80153347	1.876769394	0.059025936	0.239792686
FLJ32742	1.877085715	1.919138289	0.031964142	0.110111483

FLJ32756	1.965907868	1.949390042	-0.012172931	0.795339373
FLJ33360	2.266358404	2.318923366	0.033079116	0.351699971
FLJ33534	2.003102543	2.063511549	0.042865235	0.023910228
FLJ33590	2.070005066	2.065035113	-0.003467986	0.968084132
FLJ33630	3.496561106	3.532905338	0.014918376	0.937316662
FLJ33996	3.224690464	3.497816204	0.1172938	0.064487139
FLJ34047	2.23599951	2.308657965	0.046134577	0.314511439
FLJ34515	1.952563086	1.89258638	-0.045010013	0.250720617
FLJ34651	2.379100503	2.351015507	-0.017132164	0.738985341
FLJ34690	2.059993139	2.027312641	-0.023070942	0.391177748
FLJ35024	2.528032702	2.533612662	0.003180857	0.867957242
FLJ35220	4.285882821	4.328194296	0.014172858	0.484234772
FLJ35390	5.701864424	5.771406732	0.017489271	0.444656476
FLJ35409	1.889661921	1.897440359	0.005926394	0.681467947
FLJ35700	2.040293974	2.031445183	-0.006270601	0.208537637
FLJ35767	1.910726868	1.991093641	0.059439508	0.213066076
FLJ35946	1.981252464	2.001804972	0.014888696	0.559945006
FLJ36000	1.964566901	1.951877401	-0.009348858	0.800666078
FLJ36031	5.387910656	5.375695113	-0.003274611	0.919226672
FLJ36070	3.045966954	3.077395887	0.014809759	0.457918652

FLJ36116	2.363466887	2.352941944	-0.006438928	0.817237455
FLJ36131	1.837152589	1.879137704	0.032599334	0.212559141
FLJ36208	2.940783073	2.929605704	-0.005493862	0.607295284
FLJ36644	2.54519457	2.64518638	0.05559343	0.021963945
FLJ36840	2.890764358	2.949134965	0.028840836	0.226545114
FLJ36848	2.527929894	2.598136549	0.039520802	0.105876418
FLJ37035	2.146010815	2.208893254	0.041666355	0.033608561
FLJ37060	1.958833106	1.890758056	-0.051029718	0.369822968
FLJ37078	6.162563013	6.259174197	0.022441835	0.699773693
FLJ37201	1.886037119	1.996442254	0.082073273	0.0168966
FLJ37396	1.888668232	1.878594148	-0.007715876	0.625745501
FLJ37464	2.980760172	2.937842239	-0.020923377	0.504277345
FLJ37543	2.068581272	2.04514243	-0.01644032	0.879914911
FLJ37644	6.195818781	6.319385937	0.028489429	0.10888815
FLJ37673	1.940168079	2.014428359	0.054188858	0.062422257
FLJ38359	6.442802682	6.342375169	-0.022665192	0.376487291
FLJ38379	2.630882358	2.672441092	0.022611409	0.640973305
FLJ38576	2.252797358	2.23604893	-0.010765789	0.970834206
FLJ38723	4.798079854	4.802784275	0.00141384	0.979086412
FLJ38773	1.983362616	2.007547493	0.01748565	0.646413635

FLJ39005	1.99123651	1.958609606	-0.023834723	0.344610852
FLJ39534	3.38320198	3.454631317	0.030142443	0.4426043
FLJ39582	3.131135821	3.291124768	0.07189463	0.017248807
FLJ39609	3.46987445	3.435692049	-0.014282734	0.864701193
FLJ39632	3.167301007	3.272937711	0.047332165	0.066812825
FLJ39653	3.382666331	3.206902606	-0.076980336	0.056196997
FLJ40113	5.341379185	5.517186246	0.046720378	0.170458776
FLJ40125	7.40015753	7.398845472	-0.000255814	0.680456508
FLJ40142	7.299369026	7.292148408	-0.001427837	0.707453588
FLJ40176	2.252878245	2.289071648	0.022993274	0.17283735
FLJ40235	1.970534311	1.932170852	-0.0283642	0.340401487
FLJ40292	2.167284344	2.170117085	0.001884437	0.717739729
FLJ40330	7.087657172	7.150044451	0.012643388	0.54793347
FLJ40434	1.867685046	1.860611725	-0.005474166	0.503396866
FLJ40473	2.264155954	2.244149049	-0.012804835	0.730669567
FLJ40504	6.522263934	6.352851592	-0.037968506	0.361778511
FLJ40536	1.889012258	1.878930838	-0.007720101	0.829585484
FLJ40606	1.951984543	1.959414613	0.005481076	0.622328651
FLJ40712	1.918428695	1.931849549	0.010057599	0.683999535
FLJ40852	2.524565377	2.534143056	0.005462931	0.5952911

FLJ41603	7.561062874	7.775726246	0.040388377	0.014081577
FLJ42393	2.049061868	2.054577803	0.003878419	0.889173855
FLJ42627	2.593831457	2.653153676	0.032623503	0.215611968
FLJ42709	3.686122795	3.743720092	0.02236844	0.257326203
FLJ42875	7.014803662	6.901635239	-0.023464497	0.973584638
FLJ43093	2.232331947	2.181127254	-0.033477628	0.351343166
FLJ43276	6.046427596	6.044612042	-0.000433261	0.99119345
FLJ43390	2.18722551	2.261758197	0.048342726	0.141916895
FLJ43663	4.455744417	4.358299655	-0.031901089	0.067018257
FLJ43692	3.191395364	3.318842169	0.056492675	0.24816885
FLJ43860	2.111067305	2.080015965	-0.021377974	0.401549493
FLJ44048	2.004403212	1.948506592	-0.040803943	0.402324152
FLJ44253	2.682866172	2.651321092	-0.017063691	0.613095352
FLJ44715	2.256107086	2.283864204	0.017641326	0.649389121
FLJ45055	7.985296053	7.958602887	-0.004830705	0.468855163
FLJ45244	7.017047311	7.063973789	0.0096159	0.935122042
FLJ45248	2.91496306	2.906740077	-0.00407553	0.74994601
FLJ45422	3.23323757	3.204233521	-0.013000223	0.73222645
FLJ45717	6.694395033	6.743202324	0.010480199	0.570675881
FLJ45803	3.710785523	3.585354915	-0.049608679	0.353844631

FLJ46111	2.368303603	2.368372282	4.18E-05	0.719287005
FLJ77644	5.688647881	5.643874056	-0.011399989	0.90063221
FLJ90680	1.897955417	1.803105817	-0.073962039	0.021607316
FLNA	5.868976	5.688343007	-0.045100346	0.284328368
FLNB	5.561148219	5.406244718	-0.040755971	0.18556216
FLNC	2.784506517	2.885332634	0.05131598	0.049931212
FLOT1	6.943950404	6.940828465	-0.000648769	0.823674329
FLOT2	7.037902795	7.062696246	0.005073462	0.746808903
FLRT1	3.328805073	3.453699423	0.053138138	0.073539072
FLRT2	6.608278199	6.289772408	-0.071266608	0.061458417
FLRT3	5.037302464	5.009851099	-0.007883635	0.999449579
FLT1	6.205520609	6.276404134	0.016386	0.380970668
GDPD3	3.552070344	3.304626134	-0.10417309	0.002156686
FLT3LG	2.571688318	2.54862381	-0.012997362	0.308246651
FLT4	2.769169894	2.639887507	-0.068977115	0.014771683
FLVCR1	4.101634205	4.115630563	0.004914651	0.987891213
FLVCR2	3.166858238	3.07425488	-0.042815507	0.414447528
FLYWCH1	5.684769477	5.647927739	-0.009380217	0.514015401
FLYWCH2	5.126101993	5.223575408	0.02717545	0.043826887
FMC1	8.541735921	8.525284373	-0.002781338	0.637028328

FMN1	7.246717788	7.231651141	-0.003002629	0.972484439
FMN2	3.727194556	3.924288176	0.07434086	0.264641867
FMNL1	3.005952689	2.888724	-0.057389933	0.113217599
FMNL2	5.586563934	5.367987486	-0.057579905	0.151712863
FMNL3	2.115862483	2.129602324	0.009338186	0.901178368
FM01	2.908141623	2.82169238	-0.043536814	0.319180753
FM02	5.014596364	4.927492345	-0.02527995	0.753611017
FM03	4.53703755	4.373816162	-0.052858017	0.695690262
FM04	3.53149053	3.381409	-0.062652699	0.126166161
FM05	2.526721868	2.39043057	-0.079996363	0.06107647
FM09P	1.981060748	1.986229972	0.003759552	0.768325605
FM0D	10.67429123	10.52198875	-0.020732867	0.447123919
FMR1	5.802359139	5.858569239	0.013908783	0.123959309
FMR1NB	2.203000649	2.270051796	0.043255296	0.131905175
FN1	5.169614497	4.963452394	-0.058712746	0.265825462
FN3K	2.700807404	2.703717007	0.001553391	0.780475646
FN3KRP	8.232360934	8.269016542	0.00640952	0.30693789
FNBP1	5.710349205	5.642050063	-0.017359506	0.304332629
FNBP1L	5.81629794	5.747321789	-0.017211346	0.255880164
FNBP4	7.403672159	7.338377958	-0.012779801	0.291525702



SERTAD4	3.636335523	3.38595038	-0.102924491	0.005598118
FNDC3A	7.31363053	7.247314007	-0.013141343	0.278167941
FNDC3B	5.861542364	5.666366204	-0.048856492	0.140797128
FNDC4	5.148669702	5.224421246	0.021071505	0.598641359
FNDC5	6.750524609	6.921399021	0.036064055	0.075219602
FNDC7	1.832431974	1.867930232	0.02768093	0.52250349
FNDC8	2.02226602	1.988727268	-0.02412735	0.462108241
FNIP1	2.089846444	2.094710986	0.003354263	0.847375582
FNIP2	5.892527377	5.748868021	-0.035608646	0.018515374
FNTA	8.024847775	7.962072746	-0.011329973	0.267309175
FNTB	4.773846291	4.780072556	0.001880402	0.984038863
FOLH1	3.914784205	4.097011085	0.065639012	0.055051163
FOLR1	5.596671934	5.892943338	0.074419212	0.082745881
FOLR2	6.779379483	6.401624373	-0.082715203	0.054528912
FOLR3	2.564148272	2.428825577	-0.078220799	0.158117237
FOLR4	2.026920325	2.082060049	0.038722299	0.259651791
FOS	8.631403119	8.554087711	-0.012981102	0.211296323
TTY14	4.025940185	3.749239049	-0.102727924	0.010260285
FOSL1	2.297169649	2.235218627	-0.039441457	0.239241926
FOSL2	4.765141093	4.687523077	-0.023693139	0.783124207

FOXA1	1.963457503	1.948447817	-0.011071079	0.882092019
FOXA2	2.181949762	2.217592056	0.02337611	0.147040613
FOXA3	2.500415702	2.538717007	0.021931618	0.15014303
FOXB1	4.59442194	4.582835021	-0.003643006	0.82313759
FOXC1	9.978666861	9.431748458	-0.081321843	0.029622122
FOXC2	5.083165517	5.032131465	-0.014557595	0.400388849
FOXD1	6.289947437	6.196696148	-0.021548733	0.255591566
FOXD2	6.207052364	5.976594993	-0.054584536	0.198485116
FOXD3	4.184455007	4.212366725	0.009591307	0.691615358
FOXD4	2.620850808	2.531649465	-0.049957569	0.193711655
FOXE1	4.580999238	4.615474535	0.010816662	0.532421413
FOXE3	2.625373629	2.589603007	-0.019791808	0.522503738
FOXF1	3.37541096	3.28846769	-0.037647667	0.261991892
MLPH	7.413993689	6.905724979	-0.102458007	0.013239784
FOXG1	2.108170589	2.118459824	0.007024157	0.975785214
FOXH1	2.763595556	2.754788662	-0.004604853	0.76621826
FOXI1	1.965074192	2.050223275	0.061197249	0.037408513
FOXI3	2.232501371	2.233924993	0.000919685	0.534688685
FOXJ1	3.080362934	3.099446085	0.008910066	0.462108241
FOXJ2	4.346815205	4.325283725	-0.007163992	0.467586302

FOXJ3	8.421213742	8.365396937	-0.009594185	0.249299819
FOXK1	4.009321351	3.974366669	-0.012633076	0.601519842
FOXK2	5.841971828	5.900509831	0.014384214	0.180571037
FOXL1	5.423627728	5.166998239	-0.069931765	0.202853748
FOXL2	5.094102503	4.730678803	-0.10678078	0.066607943
FOXM1	2.409676411	2.320894803	-0.054158291	0.10410158
FOXN1	2.118692026	2.107932394	-0.007345295	0.948296713
FOXN2	7.010247291	6.94908493	-0.012642324	0.603923258
FOXN3	9.931164086	9.905143655	-0.003784935	0.547931799
FOXN4	2.250184662	2.284894775	0.022084325	0.532874517
FOXO1	8.135502914	8.02008638	-0.020613757	0.252718144
FOXO3	6.14878843	6.279139761	0.030264757	0.069418835
FOXO4	2.796474344	2.843383521	0.023999611	0.362504933
FOXP1	8.74027494	8.449152	-0.04887211	0.013163149
FOXP2	4.699635815	4.569654472	-0.040463881	0.150142981
FOXP3	1.946905967	1.931730056	-0.011289702	0.900632127
FOXP4	3.331554689	3.196026401	-0.05991625	0.014856416
FOXQ1	11.27096994	11.24303745	-0.003579823	0.37984041
FOXR1	1.933927854	1.952965894	0.014132779	0.877738611
FOXRED1	4.079672364	4.266113585	0.064469083	0.022406672

FOXRED2	4.448860868	4.60297238	0.049129805	0.041361705
FOXSI	4.724961967	4.784225169	0.017982575	0.521606865
FPGS	5.06909847	5.129313197	0.017036476	0.470551087
FPGT	4.371641517	4.294681725	-0.025623883	0.245354384
FPR1	7.266391848	7.105609423	-0.032280777	0.438108568
FPR2	2.777502954	2.774486746	-0.001567534	0.867957273
FPR3	2.923836212	2.794354944	-0.06534721	0.333114853
FRAG1	5.158180046	5.124827155	-0.009358784	0.660346572
FRAP1	5.290675861	5.401165535	0.029818733	0.110881362
FRAS1	3.274700179	3.190117641	-0.037753197	0.362141894
FRAT1	2.140071033	2.168547077	0.01907008	0.549313246
FRAT2	6.899994477	6.831309866	-0.014432973	0.275121818
FREM1	3.273909278	3.241822246	-0.014209356	0.503837182
FREM3	2.122259424	2.132947232	0.007247254	0.562734818
FREQ	5.108183397	5.108039415	-4.07E-05	0.872845511
FRG1	9.31630798	9.238328246	-0.012126526	0.038948255
FRG1B	5.692804987	5.608865268	-0.021430751	0.145126673
FRG2	1.911721861	1.978968676	0.049876138	0.061458417
FRK	2.266963232	2.211072894	-0.036014403	0.107977746
FRMD1	2.395715185	2.365755577	-0.018155377	0.578669557

FRMD3	2.326822079	2.375443986	0.029836288	0.409337343
FRMD4A	5.405967258	5.246236528	-0.043269921	0.096820181
FRMD4B	4.135445265	4.117622232	-0.006231196	0.560874213
FRMD5	3.748803775	3.960020493	0.079077584	0.040274458
FRMD6	3.927129444	3.682151077	-0.092926331	0.094214127
FRMD7	1.944274623	1.926317359	-0.013386604	0.982387981
FRMD8	6.034562232	5.930808021	-0.025020444	0.398459263
FRMPD1	4.181331238	4.227917669	0.015984947	0.723936261
FRMPD2	6.024417914	6.121931894	0.023165142	0.843595137
FRMPD3	3.18961596	3.126298275	-0.0289273	0.186250484
FRMPD4	4.518638821	4.686413176	0.052595909	0.188791242
FRRS1	2.042631272	2.028084739	-0.010310864	0.704377985
FRS2	2.486616656	2.456388042	-0.017645629	0.701307241
FRS3	5.172375503	5.183123676	0.002994803	0.966434237
FRY	7.70714098	7.760718683	0.009994479	0.399230447
FRYL	6.352453219	6.384323268	0.007219858	0.695689883
FRZB	11.88064672	12.24372139	0.043428751	0.0002636
FSCB	1.961031517	1.963799176	0.002034681	0.760431903
FSCN1	3.085648974	3.081481239	-0.001949941	0.789490827
FSCN2	3.510636603	3.713123669	0.0809007	0.14436651

FSCN3	2.134640636	2.206010092	0.047446176	0.088265508
FSD1	4.498206	4.613463373	0.036500471	0.462528416
FSD1L	3.269647053	3.347558613	0.033974406	0.523401403
FSD2	1.961342093	1.913127915	-0.035907851	0.014354132
FSHB	1.927995868	1.851601908	-0.058328005	0.070270147
FSHR	1.986958854	1.968924049	-0.013154537	0.794275091
FSIP1	2.326055821	2.354415063	0.017482958	0.907189233
FST	4.981804901	4.769072859	-0.0629597	0.277862564
FSTL1	9.952660742	9.652094606	-0.044240211	0.072874988
FSTL3	5.056794305	5.009177486	-0.013649365	0.847915956
FSTL4	3.792454464	3.864362908	0.027098728	0.673391392
FSTL5	6.550045272	6.832365486	0.060880274	0.43000156
FTCD	2.317834344	2.360283042	0.026182416	0.676415868
FTH1	12.27759551	12.36231435	0.009920809	0.092317323
FTHL17	8.060446079	8.155245648	0.016868651	0.044847252
FTL	11.08209096	10.97205751	-0.014396024	0.380967885
FTMT	2.106684709	2.089701254	-0.011677706	0.597204399
FTO	7.452672093	7.44241481	-0.001986982	0.599599927
FTSJ1	3.614979801	3.654880528	0.015836662	0.331737824
FTSJ2	4.774216424	4.83332693	0.017752615	0.302064913

FTSJ3	7.715340497	7.671022655	-0.008310906	0.484665632
FTSJD1	3.553411523	3.552589211	-0.0003339	0.577726473
FTSJD2	5.844264755	6.053717915	0.050799915	0.017184288
FUBP1	6.523363152	6.417664599	-0.023567552	0.013420104
FUBP3	5.718470053	5.735716521	0.00434451	0.629170202
FUCA1	6.727438927	6.623580648	-0.022446053	0.458755
FUCA2	5.992103709	6.001144141	0.002174989	0.798001573
FUK	7.602222331	7.596575359	-0.00107204	0.834428934
FUNDC1	6.749228523	6.928444472	0.037808881	0.029986597
FUNDC2	6.416033881	6.399033761	-0.003827682	0.742111444
FURIN	3.22614494	3.285539183	0.026318892	0.142479195
FUS	7.269298013	7.58746719	0.061802321	0.005086886
FUSIP1	6.330235914	6.218058613	-0.025795051	0.008476678
FUT1	4.509535649	4.242495028	-0.088065916	0.00707755
FUT10	3.559146391	3.61789619	0.023619739	0.331051093
FUT11	3.932476159	4.084569979	0.054746181	0.0748809
FUT2	1.955356152	1.977743803	0.016424145	0.658349043
FUT3	5.622296278	5.746478359	0.031518612	0.573961076
FUT4	2.808429338	2.774087859	-0.017750024	0.544721793
FUT5	5.000638179	5.087857831	0.024946136	0.857654299

FUT6	11.63986956	11.54352241	-0.011991374	0.168097356
FUT7	2.25144457	2.265127232	0.00874113	0.947198227
FUT8	6.589696079	6.508242169	-0.017943995	0.204817778
FUT9	2.53064006	2.6203245	0.050243162	0.33830927
FUZ	5.577171219	5.746030662	0.043032129	0.000480623
FXC1	5.492049377	5.407434176	-0.022400398	0.293106457
FXN	3.931055232	3.95034243	0.007061083	0.765691693
FXR1	6.98644898	6.868123106	-0.024643461	0.059660852
FXR2	4.941045225	5.056163183	0.033226765	0.228938567
FXYD1	5.22078102	5.299151718	0.021495786	0.244235104
FXYD2	2.611381377	2.522189042	-0.050136758	0.048972527
FXYD3	5.764559503	6.115694204	0.085305902	0.002353645
FXYD4	1.991490265	2.048330789	0.04060029	0.239242038
FXYD5	5.854956775	5.675299641	-0.044961955	0.228404942
FXYD6	6.455302709	6.362833092	-0.020815472	0.208288296
FXYD7	2.135362377	2.236785028	0.066945689	0.027519384
FYB	5.254507106	5.05656519	-0.055397712	0.297563298
FYC01	7.639063815	7.605513958	-0.006350099	0.481652467
FYN	8.244794126	8.197667662	-0.008269966	0.262872299
FYTTD1	6.31811145	6.271967268	-0.010575356	0.16077646



FZD1	6.508190881	6.32576731	-0.041016077	0.073206774
FZD10	5.096358325	5.068463049	-0.007918383	0.664349762
FZD2	5.362545868	5.196678134	-0.045328377	0.258196749
FZD3	4.98102806	5.239152683	0.072889968	0.030725439
FZD4	6.867008371	6.466743845	-0.086642257	0.05164676
FZD5	6.143993232	6.419650754	0.063318186	0.00360083
FZD6	3.715522106	3.74786088	0.012502449	0.619893053
FZD7	5.601380391	5.592013648	-0.002414524	0.764112697
FZD8	6.33685355	6.33258093	-0.000973064	0.806002281
FZD9	4.527815152	4.73784612	0.065416281	0.010867696
FZR1	3.666369046	3.740573486	0.028907463	0.02244727
HIST1H4F	3.811207212	3.550844134	-0.102086014	0.000800362
G30	1.784692238	1.783078218	-0.001305319	0.831737254
G3BP1	8.200849556	8.118115725	-0.014628465	0.207789666
G3BP2	7.654534728	7.638930035	-0.00294411	0.785775033
G6PC	1.944150351	1.895816049	-0.036320808	0.069312886
G6PC2	2.465599768	2.606118923	0.079964287	0.111500995
G6PC3	3.335976364	3.418686599	0.035333105	0.101627607
G6PD	3.648993159	3.680009254	0.012210948	0.348853163
GAA	10.72539378	10.7607144	0.004743244	0.596721894

<b>GAB1</b>	2.947647397	2.958351655	0.005229597	0.799067155
<b>GAB2</b>	6.125148828	6.026672415	-0.023383251	0.097097961
<b>GAB3</b>	2.828950874	2.775613113	-0.027460637	0.4011625
<b>GABARAP</b>	9.564365079	9.602379373	0.005722736	0.232155048
<b>GABARAPL1</b>	8.290852503	8.396028599	0.018186627	0.348852588
<b>GABARAPL2</b>	9.944747662	10.04178036	0.014008405	0.304655787
<b>GABARAPL3</b>	4.962077046	5.056660113	0.027240674	0.325589817
<b>GABBR1</b>	5.323112629	5.406692451	0.022476202	0.677929906
<b>GABBR2</b>	4.75856655	4.964152099	0.061020272	0.313516514
<b>GABPA</b>	4.038982907	3.927474373	-0.040390179	0.040815013
<b>GABPB1</b>	4.039742	3.845650507	-0.071035501	0.001744856
<b>GABPB2</b>	4.314987291	4.097119521	-0.074746331	0.021024334
<b>GABRA1</b>	5.529956556	5.865632289	0.085018486	0.114004891
<b>GABRA2</b>	3.094068	3.246672887	0.069457132	0.257616386
<b>GABRA3</b>	2.47156106	2.657050289	0.104402985	0.022528754
<b>GABRA4</b>	1.976130689	1.971052908	-0.003711858	0.819917995
<b>GABRA5</b>	1.926847629	2.01152362	0.062046187	0.109498423
<b>GABRA6</b>	1.869410536	1.943326049	0.055944545	0.066097745
<b>C5</b>	3.720303914	3.467067077	-0.101704732	0.001916057
<b>GABRB2</b>	2.435595172	2.528806141	0.054182085	0.101627811

<b>GABRB3</b>	3.783112854	4.100317711	0.116161886	0.0489725
<b>GABRD</b>	3.253315636	3.544721246	0.123761381	0.020719041
<b>GABRE</b>	6.186668748	5.773864296	-0.09962559	0.044553887
<b>GABRG1</b>	3.471196477	3.610624824	0.056815492	0.661846917
<b>GABRG2</b>	5.343469927	5.585585873	0.063931714	0.492460576
<b>GABRG3</b>	3.132515649	3.410032613	0.12246382	0.020156966
<b>GABRP</b>	2.478643589	2.377525549	-0.060089993	0.089690945
<b>GABRQ</b>	1.979082391	1.939683845	-0.029010152	0.094485671
<b>GABRR1</b>	3.503878609	3.831693746	0.129029462	0.021062682
<b>GABRR2</b>	2.463577815	2.591402775	0.072978226	0.118005659
<b>GABRR3</b>	2.32495749	2.317139606	-0.00485937	0.850618763
<b>GAD1</b>	3.896248974	4.163243458	0.095622057	0.066505632
<b>GAD2</b>	4.726658146	5.06134938	0.09870154	0.047640839
<b>GADD45A</b>	6.998213179	7.131617782	0.027242771	0.139130137
<b>GADD45B</b>	10.11506945	10.27003173	0.021934413	0.585290965
<b>GADD45G</b>	5.994728642	6.142079669	0.035032776	0.094757881
<b>GADD45GIP1</b>	9.730061642	9.731563423	0.000222655	0.615031543
<b>GAF1</b>	1.928322325	1.938645275	0.007702627	0.56133919
<b>GAF2</b>	1.94402755	1.894280901	-0.037398381	0.365421243
<b>GAF3</b>	2.087480212	2.164909141	0.052543956	0.063990479

GAGE1	1.863434887	1.85542288	-0.006216372	0.91977425
GAGE3	1.95351194	1.938549697	-0.011092353	0.981837691
GAGE7	3.04081351	3.209803352	0.078027574	0.147618591
GAK	7.626788079	7.626990014	3.82E-05	0.881547577
HUS1	3.350622722	3.123628845	-0.101206209	0.001060265
GAL3ST1	4.522052	4.659220676	0.043111081	0.202365147
GAL3ST2	2.020206417	1.99967912	-0.014734195	0.786836351
GAL3ST3	2.638982583	2.769199725	0.069487281	0.095853567
GAL3ST4	2.250667589	2.208583148	-0.027231847	0.476511349
GALC	6.866725689	6.811011915	-0.011753176	0.341450555
GALE	4.817212669	4.926664782	0.032412695	0.123959129
GALK1	5.630104026	5.732234324	0.025936007	0.317507843
GALK2	6.544194225	6.444755528	-0.022089933	0.111966814
GALM	5.012626391	4.922356718	-0.026217497	0.281544945
GALNAC4S-6ST	7.810718702	7.647315099	-0.030501984	0.506040532
GALNS	4.152795205	4.056233817	-0.03394191	0.062811246
GALNT1	5.645213397	5.889358789	0.061082449	0.021725649
GALNT10	4.722358775	4.537727915	-0.057537546	0.162637539
GALNT11	8.539811404	8.617904141	0.013132842	0.524299412
GALNT12	2.511604576	2.485414127	-0.015123088	0.96753416

GALNT13	2.285445662	2.420510754	0.082835985	0.0638914
GALNT14	8.177575272	7.855625725	-0.057946939	0.022285134
GALNT2	5.344321583	5.458664451	0.030541195	0.242840843
GALNT3	3.104335748	3.012634648	-0.043258877	0.44712652
GALNT4	2.43269806	2.428143993	-0.002703289	0.755707746
GALNT5	2.115549079	2.053136824	-0.043202382	0.14897394
GALNT6	2.585358272	2.563648028	-0.012166016	0.779416891
GALNT7	6.225408821	6.31945931	0.021632546	0.063300307
GALNT8	2.087169093	2.087164169	-3.40E-06	0.886993881
GALNT9	4.458483291	4.222199796	-0.078558161	0.036041985
GALNTL1	6.003386503	6.141737894	0.032870392	0.14379831
GALNTL2	6.923075404	7.245022866	0.065577181	0.00064816
GALNTL4	6.668602252	6.650016873	-0.004026401	0.686534785
GALNTL5	1.973846424	2.060680859	0.062111345	0.078089949
GALP	1.920773311	1.972100437	0.038045765	0.212812663
GALR1	3.013866351	2.939311394	-0.036137234	0.280006385
GALR2	2.097075391	2.108119704	0.007578061	0.91484715
GALR3	10.94485897	10.94891666	0.000534765	0.909375136
GALT	8.400190795	8.308024275	-0.015916665	0.002247988
GAMT	7.334188391	7.425112352	0.017775532	0.100194178

<b>GAN</b>	2.808563272	2.73357219	-0.039044829	0.066505697
<b>GANAB</b>	7.366250185	7.465598521	0.019327529	0.18717127
<b>GAP43</b>	5.273156907	5.230858176	-0.011619271	0.674902919
<b>GAPDH</b>	11.53008559	11.83188937	0.037277245	0.015055028
<b>GAPDHS</b>	3.571693497	3.431311218	-0.057848298	0.345668533
<b>GAPT</b>	2.248739854	2.24158331	-0.004598653	0.968634116
<b>GAPVD1</b>	6.344905424	6.386002873	0.009314542	0.116713182
<b>GAR1</b>	8.592889146	8.632393162	0.00661729	0.457500074
<b>GARNL1</b>	5.964562576	5.976057789	0.00277776	0.987340854
<b>GARNL3</b>	3.481592159	3.524991028	0.017872373	0.340401142
<b>GARNL4</b>	2.667558477	2.684435754	0.00909898	0.378724639
<b>GARS</b>	5.525942318	5.619575042	0.024240534	0.191826302
<b>GART</b>	5.471740768	5.399186282	-0.019257889	0.071671649
<b>GAS1</b>	7.359225623	6.909144148	-0.091046954	0.026516941
<b>GAS2</b>	3.607186768	3.609391549	0.000881533	0.743154684
<b>GAS2L1</b>	8.242516556	8.226200577	-0.002858631	0.97633535
<b>GAS2L2</b>	2.13220504	2.104432901	-0.018914668	0.555310197
<b>TDRD10</b>	3.813251066	3.556420063	-0.100595785	0.015142135
<b>GAS5</b>	8.550579404	8.347633908	-0.034654852	0.037979902
<b>GAS6</b>	6.958943258	6.868570324	-0.018858407	0.395383625

<b>GAS7</b>	3.633500391	3.676185993	0.016849699	0.482082443
<b>GAS8</b>	3.704277093	3.714568824	0.004002736	0.569738763
<b>GAST</b>	2.271665033	2.288224732	0.010478631	0.728595531
<b>GATA1</b>	2.022021921	2.039881134	0.01268645	0.82797241
<b>GATA2</b>	2.908460159	2.725874761	-0.093536262	0.022447302
<b>GATA3</b>	2.956285278	2.89747412	-0.02898972	0.58434392
<b>GATA4</b>	2.062521967	1.968336352	-0.067432713	0.05009249
<b>GATA5</b>	3.15072302	3.011351711	-0.065271715	0.136931343
<b>GATA6</b>	3.282946139	3.271890127	-0.004866779	0.517134561
<b>GATAD1</b>	6.381682252	6.284744725	-0.022082631	0.006932407
<b>GATAD2A</b>	5.419571106	5.330835563	-0.023817003	0.006155273
<b>GATAD2B</b>	2.72326057	2.686075901	-0.019834958	0.82421144
<b>GATC</b>	4.73530896	4.782831092	0.014406284	0.34145067
<b>GATM</b>	6.60767557	6.393648951	-0.04750332	0.020756918
<b>GBA</b>	6.528340146	6.547739366	0.004280668	0.828510088
<b>GBA2</b>	5.860460364	5.881986972	0.00528959	0.787367034
<b>GBA3</b>	2.150099662	2.164764824	0.009806768	0.82045442
<b>GBAP</b>	5.631763411	5.621573472	-0.002612732	0.985689821
<b>GBAS</b>	4.54115957	4.6656105	0.03900514	0.088265546
<b>GBE1</b>	9.252281775	9.358797697	0.016513999	0.122782389

<b>GBF1</b>	8.197950152	8.293024746	0.01663518	0.255014881
<b>GBGT1</b>	3.635049861	3.429862739	-0.083824311	0.053241214
<b>GBL</b>	5.317790881	5.420520923	0.027604459	0.251861168
<b>GBP1</b>	3.658813755	3.755273479	0.037541996	0.68856552
<b>GBP2</b>	6.33011657	6.115058852	-0.049865684	0.341450842
<b>GBP3</b>	5.884932781	5.845197056	-0.009774274	0.731188385
<b>GBP4</b>	7.137505821	7.131603676	-0.001193487	0.591472656
<b>GBP5</b>	4.529619689	4.473954951	-0.017839196	0.859279579
<b>GBP6</b>	7.231224199	7.171763366	-0.01191202	0.241729302
<b>GBP7</b>	2.045707212	2.092309725	0.032496753	0.420390057
<b>GBX1</b>	1.915336788	1.887225345	-0.021331395	0.330708131
<b>GBX2</b>	2.234390225	2.212593542	-0.014142718	0.811347507
<b>GC</b>	1.910036166	1.869258993	-0.031133481	0.452919687
<b>GCA</b>	7.865685636	7.904079789	0.007024983	0.676415686
<b>GCAT</b>	4.504430675	4.587549937	0.02637909	0.239517307
<b>GCC1</b>	6.076247199	6.003012472	-0.017493899	0.153096357
<b>GCC2</b>	5.860543338	5.802785852	-0.014288737	0.219472109
<b>GCDH</b>	6.418792272	6.378999345	-0.008971742	0.474803945
<b>GCET2</b>	1.958336576	1.924848775	-0.024883635	0.858195904
<b>GCG</b>	1.850603166	1.864216331	0.010573722	0.803333



<b>PRRG3</b>	2.590715702	2.416629655	-0.100354308	0.000883945
<b>GCH1</b>	3.110603192	3.155681803	0.020757374	0.881547717
<b>GCHFR</b>	6.572809841	6.600580676	0.006082702	0.876107034
<b>GCK</b>	2.502807934	2.552585993	0.028411982	0.108280444
<b>GCKR</b>	2.081855444	2.086009613	0.002875909	0.795871609
<b>GCLC</b>	5.986208563	6.045754458	0.014279843	0.33242582
<b>GCLM</b>	4.974131318	5.037548514	0.018277232	0.233237674
<b>GCM1</b>	2.369802139	2.385888197	0.00975983	0.682480211
<b>GCM2</b>	1.983598815	2.002928746	0.01399083	0.677929978
<b>GCN1L1</b>	9.732066172	9.685653303	-0.006896767	0.08068783
<b>GCNT1</b>	2.532677212	2.424369366	-0.0630537	0.057816444
<b>GCNT2</b>	2.178361775	2.100421944	-0.052564399	0.254439836
<b>GCNT3</b>	2.064175669	2.04686669	-0.01214861	0.951043313
<b>GCNT4</b>	2.029745252	2.060066958	0.02139256	0.791084693
<b>GCOM1</b>	5.422791073	5.330464225	-0.024774406	0.072107502
<b>GCRG224</b>	1.945459735	1.896051423	-0.037113029	0.230007976
<b>GCS1</b>	8.648451781	8.65136838	0.000486452	0.959836176
<b>GCSH</b>	9.599396344	9.707430951	0.016145855	0.193474428
<b>GCUD2</b>	2.256674623	2.144499894	-0.073557174	0.078557724
<b>GDA</b>	1.959473629	2.018332789	0.042697913	0.37277581

<b>GDAP1</b>	3.047888907	3.187621162	0.064669861	0.293106514
<b>GDAP1L1</b>	5.754216563	5.81252012	0.014544286	0.938962995
<b>GDAP2</b>	3.304751464	3.222613169	-0.036310754	0.163261278
<b>GDE1</b>	6.677682053	6.745977768	0.01468016	0.25329127
<b>GDEP</b>	4.996933517	4.931820958	-0.018922598	0.867957289
<b>GDF1</b>	4.64982851	4.903407866	0.076607261	0.000646522
<b>GDF10</b>	6.333672742	6.476811493	0.032241429	0.56040975
<b>GDF11</b>	6.705748371	6.873187507	0.03558097	0.089952082
<b>GDF15</b>	8.198588093	8.343375359	0.025255673	0.792147797
<b>GDF2</b>	1.999325795	2.053757225	0.038752069	0.230275841
<b>GDF3</b>	2.303864424	2.329440641	0.015927747	0.970284171
<b>GDF5</b>	2.297530126	2.334061768	0.022758962	0.547933899
<b>GDF50S</b>	2.602486821	2.572575	-0.01667772	0.366885104
<b>GDF6</b>	2.289454318	2.244481613	-0.028621501	0.730150904
<b>GDF9</b>	2.06048943	2.102769423	0.029303598	0.639492933
<b>GDI1</b>	8.676941457	8.685445176	0.001413201	0.865243569
<b>GDI2</b>	7.371636199	7.297544697	-0.014573731	0.142855297
<b>GDNF</b>	7.467585828	7.476801563	0.00177933	0.955988693
<b>GDPD1</b>	2.36835253	2.481655549	0.067419043	0.054789446
<b>SNHG3-RCC1</b>	3.036124609	2.833501077	-0.099645252	0.01013849

SFTPC	4.414614397	4.122477204	-0.098775912	0.00863295
GDPD4	2.037647503	1.988546261	-0.035190374	0.354561102
GDPD5	8.102579245	8.158559387	0.009933203	0.593857634
GEFT	3.610845417	3.776293838	0.064634368	0.161188842
GEM	8.944023834	8.81925812	-0.020266732	0.353844229
GEMIN4	6.27356143	6.311218028	0.008633786	0.323556442
GEMIN5	4.825524755	4.764905831	-0.018238135	0.327290071
GEMIN6	7.221556868	7.19615831	-0.005082971	0.737423694
GEMIN7	5.253176775	5.330441563	0.021064914	0.070698937
GEMIN8	4.576590351	4.688094944	0.034728625	0.045513845
GEN1	2.318344106	2.336736324	0.011400233	0.73950595
CPO	2.262583225	2.113089683	-0.098616861	0.004539126
GFER	4.975120384	4.972739965	-0.000690444	0.94280534
GFI1	2.343549934	2.164631873	-0.11457384	0.028404573
GFI1B	2.292206238	2.282484866	-0.00613156	0.815629918
GFM1	5.256239934	5.298950634	0.011675555	0.800666218
GFM2	6.61326347	6.59871457	-0.003177364	0.936219295
GFOD1	8.819503947	8.719413972	-0.016466338	0.111810915
GFOD2	7.007975457	6.962645176	-0.009362218	0.158931765
GFPT1	3.70210157	3.596838077	-0.041615263	0.02310595

GFPT2	6.23001249	6.16638362	-0.014810411	0.240345182
GFRA1	2.650519874	2.715948014	0.035180507	0.108736066
GFRA2	5.816318106	5.921753634	0.025918295	0.270596545
GFRA3	3.773418629	3.556225366	-0.08552541	0.035737401
GFRA4	6.118580007	6.113681394	-0.001155502	0.796936343
GFRAL	1.88929647	1.896103423	0.005188549	0.695690124
GGA1	9.315678483	9.322293507	0.001024088	0.237865129
GGA2	6.669753728	6.76702943	0.02088917	0.071129973
GGA3	6.635884695	6.566907542	-0.015074675	0.110111271
GGCT	8.385396536	8.398521845	0.002256424	0.645422782
GGCX	4.902911874	4.845117613	-0.017107144	0.217407348
GGH	4.286105364	4.344705577	0.019591099	0.611643106
GGN	2.632068702	2.702230303	0.03795349	0.249017712
GGNBP1	1.93786902	1.913388768	-0.018341028	0.948846002
GGNBP2	7.990706788	7.972901585	-0.003218256	0.601038714
GGPS1	7.601232325	7.72849157	0.02395353	0.027085737
GGT1	4.185875318	4.268394627	0.028164225	0.052145898
GGT3P	3.406067464	3.42070707	0.006187555	0.785775133
GGT5	7.195831351	6.929645866	-0.054379748	0.632603227
GGT6	10.99566575	10.90608481	-0.011801677	0.346368589

GGT7	4. 71865704	4. 831496923	0. 034093925	0. 160982476
GGT8P	2. 255554113	2. 268354831	0. 008164436	0. 728595531
GGTA1	5. 658046212	5. 256504873	-0. 106200111	0. 158727935
GGTLC1	4. 045498682	4. 189424606	0. 050434559	0. 021725649
GGTLC2	3. 490475854	3. 534350394	0. 018021344	0. 335532213
GGTLC3	3. 317860616	3. 386073423	0. 029359977	0. 129620587
GH1	2. 410805887	2. 373714556	-0. 022369035	0. 399230391
GH2	3. 167502775	3. 187829725	0. 009228688	0. 50295711
GHDC	4. 782610887	4. 828430958	0. 01375603	0. 527901466
GHITM	8. 472952026	8. 521243718	0. 008199314	0. 609225819
GHR	2. 984971748	2. 859819965	-0. 06179295	0. 188791084
GHRH	2. 021564755	2. 000639331	-0. 015011311	0. 414447305
GHRHR	2. 44054302	2. 40518869	-0. 021052103	0. 129620496
GHRL	3. 114635344	3. 212769754	0. 044754327	0. 014575494
GHRLOS	3. 801206921	3. 577589493	-0. 087469705	0. 000653097
GHSR	2. 751927735	2. 889518944	0. 070386742	0. 022692446
GIF	1. 904019907	1. 918371535	0. 010833595	0. 701818525
GIGYF1	6. 402682007	6. 329052465	-0. 016686832	0. 197283657
GIGYF2	6. 86499043	6. 911633873	0. 009769087	0. 234320404
GIMAP1	6. 664262013	6. 273731261	-0. 087121391	0. 032361677

GIMAP2	4.057810331	3.777057915	-0.103438527	0.035859015
GIMAP4	6.606108887	6.382927669	-0.04958245	0.529707184
GIMAP5	5.815487079	5.51992831	-0.0752505	0.232697058
GIMAP6	5.326002603	4.95813207	-0.103256432	0.073206706
GIMAP7	7.51692653	7.201117331	-0.061922129	0.280313307
GIMAP8	5.225416371	5.012881563	-0.05990585	0.409729198
GIN1	5.270319331	5.239770176	-0.008386844	0.654858706
GIN51	2.007574788	1.897030408	-0.081710929	0.075446132
GIN52	4.190095172	4.29895681	0.037003603	0.328654671
GIN53	4.647726881	4.605232035	-0.013251444	0.301095943
GIN54	2.148273497	2.205748937	0.038090915	0.073650249
GIP	2.156301007	2.074395282	-0.055867754	0.076128681
GIPC1	5.696140689	5.714750169	0.00470565	0.690598116
GIPC2	2.354150093	2.253620592	-0.062961654	0.035798164
GIPC3	2.121426159	2.109600472	-0.008064664	0.937316677
GIPR	4.635461742	4.628777028	-0.002081985	0.937865421
GIT1	3.188518166	3.197808577	0.00419748	0.787366911
GIT2	6.626798656	6.532488789	-0.020679343	0.24200664
GIYD1	5.640910444	5.731532549	0.022992919	0.466741278
GJA1	5.88057402	5.897736225	0.004204312	0.491156967

GJA10	1.909980192	1.946565775	0.027373418	0.426784108
DOK2	3.063015272	2.861277979	-0.098292895	0.014271908
GJA4	6.342105053	5.96793757	-0.087729331	0.13693125
GJA5	2.673968841	2.60638481	-0.036932553	0.228138794
GJA8	2.001427881	1.952966761	-0.035362236	0.476938448
GJA9	2.036747517	2.005180908	-0.022534746	0.839278926
GJB1	3.191990967	3.366683324	0.076871456	0.370928798
GJB2	2.834212987	2.694007042	-0.073194557	0.191826249
GJB3	2.389823404	2.380077915	-0.005895211	0.912111194
GJB4	2.047526411	2.021802296	-0.018240132	0.356356746
GJB5	1.933664318	1.915439817	-0.013661669	0.685013117
GJB6	2.13147549	2.045374472	-0.059487467	0.239241814
GJB7	1.937864616	1.982259007	0.032677697	0.439331862
GJC1	2.748051007	2.659193204	-0.047420182	0.263461626
GJC2	5.236789589	5.151666803	-0.023643353	0.397304397
GJC3	3.099103417	3.036514366	-0.029434704	0.60344235
GJD2	2.738041556	2.833444	0.049412346	0.295647897
GJD3	3.601077325	3.599466655	-0.000645425	0.638013755
GJD4	2.079562265	2.093336007	0.009524019	0.467586514
GK	3.265824338	3.354921549	0.038831838	0.045439206

<b>GK2</b>	1.927665477	1.873348056	-0.041235743	0.158117038
<b>GK5</b>	2.765074351	2.818686	0.027704497	0.162015399
<b>GKAP1</b>	6.526158722	6.509667838	-0.003650145	0.804400526
<b>GKN1</b>	1.920627675	1.918657197	-0.001480901	0.757281497
<b>GKN2</b>	1.900404139	1.885924141	-0.011034608	0.685013259
<b>GLA</b>	8.40651045	8.362581563	-0.007558684	0.47651077
<b>GLB1</b>	8.646168318	8.622723732	-0.003917264	0.438922224
<b>GLB1L</b>	5.009978126	4.919645761	-0.026249867	0.464211085
<b>GLB1L2</b>	3.566843305	3.862295866	0.114810846	0.104838378
<b>GLB1L3</b>	1.982701781	2.022416373	0.028612351	0.165353945
<b>GLCCI1</b>	6.995208464	7.167836106	0.035170599	0.493766194
<b>GLCE</b>	5.233445934	5.168417908	-0.018038466	0.26790544
<b>GLDC</b>	5.643951616	5.880095458	0.059133956	0.103369065
<b>SP7</b>	1.940232543	1.812813493	-0.09799907	0.002131918
<b>GLE1</b>	2.808595212	2.7759195	-0.01688298	0.751515902
<b>GLG1</b>	9.390018404	9.380563824	-0.001453346	0.701305986
<b>GLI1</b>	4.618370325	4.397612345	-0.070663426	0.343906994
<b>MYOZ3</b>	5.209005762	4.867997035	-0.097679743	0.011757785
<b>GLI3</b>	5.751826364	5.685635993	-0.016698387	0.307592099
<b>GLI4</b>	2.465702311	2.431870542	-0.0199322	0.765165153



GLIPR1	4.364843689	4.182958577	-0.061406278	0.220250109
GLIPR1L1	2.024223437	1.904228866	-0.088161662	0.070806285
GLIPR1L2	3.697877503	3.655372472	-0.016679014	0.598641185
GLIPR2	8.501674185	8.553301458	0.008734417	0.523850036
SGCD	4.459012483	4.167721704	-0.097465292	0.01276146
GLIS2	3.829384887	3.880521239	0.01913778	0.171752745
GLIS3	4.807739768	4.745662049	-0.018749442	0.726523512
GLMN	3.524476219	3.752353141	0.090386738	0.134939567
GL01	3.929317199	3.984192775	0.020008818	0.269697249
GL0D4	7.855841523	7.8869395	0.00569975	0.861447325
GLP1R	1.894376954	1.904095606	0.007382484	0.908282684
GLP2R	2.592700642	2.518663683	-0.041797148	0.228138794
GLRA1	2.053236073	2.104178373	0.035357496	0.316506988
SNX31	2.266477788	2.118704373	-0.097269723	0.005480657
GLRA3	2.070616517	2.059561352	-0.007723284	0.829585504
GLRA4	1.983699126	1.891882669	-0.068370606	0.127538973
GLRB	3.866779768	3.991057831	0.045638586	0.347081584
GLRX	8.026094861	7.884372028	-0.025702355	0.179227195
GLRX2	5.250713318	5.093193317	-0.043942951	0.036472119
GLRX3	7.686323073	7.661836106	-0.004603452	0.820454252

GLRX5	9.934515013	9.911844754	-0.003295948	0.790020534
GLRXL	3.304781669	3.213701254	-0.040319141	0.248451635
GLS	8.153617199	8.179126296	0.004506515	0.906642463
GLS2	4.935981119	5.283503092	0.098157913	0.050660612
GLT1D1	6.650877728	6.788469732	0.029541648	0.240898237
GLT25D1	4.583499715	4.428563458	-0.049610792	0.067430715
GLT25D2	3.887187225	4.117282035	0.082965681	0.062422413
GLT8D1	7.791259033	7.821720866	0.005629571	0.354560987
ABCB1	3.970652755	3.713075697	-0.096761471	0.011643102
GLT8D3	4.081433583	4.035717648	-0.016250738	0.211800755
GLT8D4	4.18052343	4.070515387	-0.038472116	0.466741224
GLTP	5.421233768	5.327129852	-0.025262771	0.309230177
GLTPD1	5.903432113	5.952568993	0.011958491	0.405821475
GLTPD2	2.485256907	2.493800268	0.004950928	0.971934359
GLTSCR1	7.090037391	7.078192852	-0.002412166	0.749422644
GLTSCR2	12.34123367	12.36915173	0.003259946	0.423157068
GLUD1	8.402207252	8.463261655	0.010445398	0.047177815
GLUD2	5.988874914	6.00197693	0.003152774	0.996697484
GLUL	9.509051066	9.759778261	0.037546993	0.020492381
GLYAT	1.946917821	1.883323556	-0.047911112	0.086477474

MYOZ1	3.381105868	3.162023592	-0.096647058	0.015228834
GLYATL2	2.094620285	2.07261269	-0.015238189	0.647900596
GLYCAM1	1.927314384	1.878443014	-0.037054574	0.140054352
GLYCTK	3.947907411	3.927136394	-0.00761045	0.867414423
GM2A	3.317191662	3.243709211	-0.032317879	0.034247145
GMCL1	4.911375106	4.91796119	0.001933338	0.555772881
GMCL1L	1.926991868	1.89092431	-0.027258867	0.165353895
GMDS	3.964478874	3.821213613	-0.053100329	0.107977452
GMEB1	6.530716364	6.526070063	-0.001026776	0.819381548
GMEB2	3.621111185	3.654030641	0.013056257	0.337613281
GMFB	5.52922655	5.526649021	-0.00067269	0.808673666
GMFG	8.292849351	8.056061908	-0.041793114	0.415236518
GMIP	4.984703364	4.894227944	-0.026426359	0.950493958
GML	2.128552119	2.118401824	-0.006896147	0.965334419
GMNN	7.112120808	7.095358014	-0.003404349	0.905549355
GMPPA	3.478001702	3.455552627	-0.009342188	0.526098988
GMPPB	5.26626953	5.285880676	0.005362497	0.893536353
GMPR	6.060291132	5.958743739	-0.024378897	0.723936198
GMPR2	8.821378954	8.798183838	-0.003798448	0.322879203
GMPS	6.259682854	6.238845345	-0.004810518	0.570675881

GNA11	7.261648894	7.214255134	-0.009446731	0.340401027
GNA12	5.521742099	5.521788486	1.21E-05	0.814558706
GNA13	5.911094	5.856318063	-0.013431253	0.35924186
GNA14	3.187452795	3.102535106	-0.038956441	0.36323307
GNA15	2.780752298	2.862303437	0.041701383	0.634077066
GNAI1	5.467936788	5.454057254	-0.00366672	0.601999928
GNAI2	5.241220238	5.220425056	-0.005735455	0.790553323
GNAI3	5.523273351	5.437691317	-0.022529273	0.194422166
GNAL	2.512786662	2.449654324	-0.036710009	0.382848506
GNAO1	4.196977444	4.429658894	0.077844899	0.103661718
GNAQ	2.535401252	2.484559937	-0.02922374	0.339354431
GNAS	10.79894666	10.76885822	-0.004025302	0.517131813
GNAT1	10.16040093	10.40837043	0.03478688	0.462523558
GNAZ	9.907077113	10.1143362	0.029870252	0.189720007
GNB1	9.168685656	9.234771683	0.010361357	0.891899708
GNB1L	7.378350921	7.272547218	-0.020837648	0.030618832
GNB2	7.303216861	7.356999232	0.01058537	0.456248684
GNB2L1	10.61478877	10.58097219	-0.004603472	0.867955588
GNB3	7.910071709	8.123395655	0.03839214	0.30013008
GNB4	5.191768119	4.883785634	-0.088226073	0.085219041

<b>GNB5</b>	4.082659325	4.219543232	0.047577647	0.785775158
<b>GNE</b>	7.93882757	7.91200607	-0.004882428	0.518026412
<b>GNG10</b>	7.90494453	7.845136704	-0.010956752	0.67389488
<b>GNG11</b>	9.416235404	9.071316204	-0.053838494	0.286504821
<b>GNG12</b>	3.599721245	3.556944232	-0.017246836	0.528352466
<b>GNG13</b>	7.662015768	7.848603951	0.034712067	0.201389768
<b>GNG2</b>	4.716884066	4.629481986	-0.026983369	0.268800348
<b>GNG3</b>	4.750093589	4.91968207	0.050609147	0.296604678
<b>GNG4</b>	5.244084742	5.134878683	-0.030360807	0.194185205
<b>GNG5</b>	6.990307046	6.939328401	-0.010559783	0.51624231
<b>GNG7</b>	7.188748483	7.310822465	0.02429309	0.04985045
<b>GNG8</b>	2.845912636	2.761420979	-0.043480531	0.193711655
<b>GNGT1</b>	9.27495043	9.416919796	0.021915671	0.914299552
<b>GNGT2</b>	6.477699099	6.476613444	-0.000241814	0.98844157
<b>GNL1</b>	6.383658099	6.487449077	0.023267925	0.301418876
<b>GNL2</b>	6.856339642	6.844704648	-0.002450288	0.885904126
<b>GNL3</b>	7.754370086	7.667845458	-0.016188331	0.14154274
<b>GNL3L</b>	6.911795397	6.875675444	-0.007559065	0.479077879
<b>GPLY</b>	3.512492563	3.434100768	-0.032562797	0.385864897
<b>GNMT</b>	2.696190265	2.840466852	0.075205759	0.010570596

GNPAT	6.743702788	6.690719148	-0.011379668	0.50780716
GNPDA1	4.069092285	4.235944415	0.057976658	0.039806397
GNPDA2	5.770597742	5.859962866	0.022170756	0.056285874
GNPNAT1	4.492743152	4.458433373	-0.011059728	0.156094015
GNPTAB	5.316223854	5.247444408	-0.018786877	0.297243471
GNPTG	9.334652854	9.327456613	-0.001112627	0.851158526
GNRH1	3.907623894	3.78018807	-0.047833603	0.089690754
GNRH2	2.710331093	2.703637	-0.003567638	0.99779832
GNRHR	1.991210086	1.981418796	-0.0071116	0.777300738
GNRHR2	2.438440437	2.426255669	-0.007227149	0.733784221
GNS	3.415768563	3.386143373	-0.012567168	0.598641403
GOLGA1	6.730100649	6.872175486	0.030138797	0.189488068
GOLGA2	7.376702232	7.351369831	-0.004962899	0.976335379
GOLGA2L1	4.505249954	4.469352401	-0.011541346	0.816165664
GOLGA2LY1	2.65618949	2.636354141	-0.010813891	0.898447968
GOLGA3	8.02848402	8.065865035	0.006701669	0.969734117
GOLGA4	8.033693417	8.036927415	0.000580646	0.854405517
GOLGA5	6.35623945	6.284978528	-0.016265659	0.238966489
GOLGA6	2.054632762	2.053493099	-0.000800456	0.787366861
GOLGA7	7.98190551	7.989923056	0.00144841	0.620866269

GOLGA8A	5.608515033	5.630863331	0.005737296	0.973034532
GOLGA8E	3.464036503	3.479669338	0.006496085	0.741590298
GOLGA8F	2.564812205	2.522019901	-0.024273536	0.996147073
GOLGA9P	4.494792205	4.272862465	-0.073051541	0.004500033
GOLGB1	8.450594079	8.40123738	-0.008450935	0.464209966
GOLIM4	6.718440987	6.772635042	0.011590761	0.421983218
GOLM1	4.768836662	4.79923112	0.009165922	0.79374319
GOLPH3	6.878657967	6.766076549	-0.023807622	0.122449249
GOLPH3L	6.823203874	6.788175972	-0.007425359	0.366152574
GOLSYN	8.187959616	8.102525303	-0.015132366	0.505599609
CHORDC1	5.764750881	5.391443021	-0.096586802	0.002326816
GOLT1B	4.139628616	4.139931359	0.000105505	0.76727161
GON4L	6.747144795	6.776338972	0.006228922	0.43282883
GOPC	6.402567185	6.318116444	-0.01915596	0.114004417
GORASP1	2.531712536	2.57668538	0.025402788	0.431212505
GORASP2	7.23388351	7.25593038	0.004390248	0.43688669
GOSR1	6.15762694	6.25547019	0.022743864	0.084222602
GOSR2	5.302033265	5.285268803	-0.004568874	0.61794737
GOT1	8.229100377	8.416192585	0.032432997	0.221811543
GOT1L1	2.006182709	1.933674387	-0.053108123	0.042968199

GOT2	7.972465258	8.142798915	0.03049887	0.087751443
GP1BA	2.253044583	2.175869324	-0.050283946	0.154290427
GP2	1.881626132	1.829420225	-0.040593496	0.275425367
GP5	1.88939447	1.875119732	-0.010941222	0.95434005
GP6	2.117094795	2.205094507	0.05875462	0.04671921
GP9	6.591840384	6.639267852	0.010342847	0.393468644
GPA33	2.030659079	2.043619465	0.009178531	0.686027267
GPAA1	5.829499232	5.935810007	0.026072957	0.056911972
GPAM	6.126555212	6.118462606	-0.001906925	0.816701517
GPATCH1	4.633473086	4.662816155	0.009107557	0.570207299
GPATCH2	3.718856119	3.841157261	0.046682099	0.053241185
GPATCH3	6.598862616	6.627609092	0.00627113	0.496383029
GPATCH4	6.599321563	6.584711162	-0.003197559	0.767271691
GPATCH8	5.224109192	5.237809514	0.003778542	0.616004529
GPBAR1	2.992384338	2.932665866	-0.029082778	0.321869256
GPBP1	8.249159563	8.167450789	-0.014361286	0.309229947
GPBP1L1	6.288666272	6.156713838	-0.030593562	0.000605263
GPC1	8.455890483	8.618265366	0.02744083	0.032585338
GPC2	4.308380887	4.479108063	0.056065675	0.043539195
GPC3	4.34989198	4.541573007	0.062212497	0.03960726



GPC4	4.579263338	4.313068634	-0.086400858	0.064986977
EMP1	8.324811834	7.785783894	-0.096575362	0.015027205
GPC6	6.910064815	6.614420789	-0.063084415	0.00330263
GPD1	3.050501874	3.09575331	0.021243896	0.325929211
GPD1L	6.409545093	6.308424986	-0.022942113	0.25329144
GPD2	4.219184358	4.153466176	-0.022648322	0.29852393
GPER	7.248496351	7.204814641	-0.008720435	0.931831006
GPHA2	2.241658344	2.181557211	-0.039208102	0.152107109
GPHB5	2.495202106	2.551639268	0.03226771	0.132259342
GPHN	3.270729563	3.389021176	0.051256175	0.083604653
GPI	11.85456403	11.98991202	0.016378467	0.186243605
GPIHBP1	6.949397344	6.604696676	-0.073395565	0.21510111
GPKOW	8.333729126	8.366704549	0.005697282	0.320186269
GPLD1	2.63197243	2.733773606	0.054749396	0.073317403
KRT6C	1.966586325	1.839301275	-0.096535705	0.002263564
GPM6B	8.621218768	8.806999444	0.030758739	0.217921977
GPN1	7.853673079	7.832046063	-0.003978295	0.458336478
GPN2	6.363996596	6.344419028	-0.004445005	0.679950986
GPN3	5.342979914	5.346860746	0.00104751	0.934024888
GPNMB	8.151308735	7.938741275	-0.038121431	0.724970313

GPR1	1.889315285	1.916895972	0.02090857	0.433234104
GPR101	1.886700921	1.903406183	0.012717717	0.270296247
GPR107	7.956413623	7.956320458	-1.69E-05	0.711561153
GPR108	5.016367411	5.057054542	0.01165432	0.43974019
GPR109A	2.301909629	2.241663923	-0.038261195	0.286506028
GPR109B	3.531383788	3.390170908	-0.058875615	0.088523374
GPR110	1.913163927	1.902594915	-0.007992067	0.796936343
GPR111	1.915035013	1.871082549	-0.03349756	0.215611804
GPR112	2.277406828	2.279966838	0.001620808	0.919226662
GPR113	2.164485642	2.147376479	-0.011449084	0.449190493
GPR114	2.888449609	2.833489683	-0.027715377	0.34250192
GPR115	1.928036265	1.905613908	-0.01687634	0.334840364
GPR116	3.707375483	3.513959951	-0.07730049	0.087240511
GPR119	2.817282689	2.736523056	-0.04196032	0.123286561
GPR12	3.648634291	3.732664359	0.032849233	0.145698889
GPR120	2.229764139	2.284387345	0.034916185	0.133504801
GPR123	3.183870623	3.151063014	-0.014943107	0.719287133
GPR124	6.767634371	6.684660887	-0.017797253	0.434044375
GPR125	6.090055437	6.073273387	-0.003981048	0.759906484
GPR126	4.34296851	4.090644317	-0.086353392	0.289008723

GPR128	1.993627351	1.880233831	-0.084483676	0.457918491
GPR132	2.550936033	2.584094683	0.01863221	0.34040143
GPR133	3.289301046	3.125997923	-0.073464234	0.130320305
GPR135	3.585255821	3.529335908	-0.022679317	0.497694138
GPR137	3.996391662	3.996240183	-5.47E-05	0.923608656
GPR137B	8.749857695	8.918445535	0.02753272	0.082867783
GPR137C	3.262104437	3.535149986	0.115968455	0.071238059
GPR141	1.918160795	1.911113042	-0.005310547	0.84089693
GPR142	2.201964146	2.22350219	0.014042848	0.758856116
GPR143	7.148151536	6.819974746	-0.067803822	0.176341501
GPR146	4.623671821	4.741024415	0.036159821	0.069843326
GPR149	2.157339093	2.171169387	0.009219326	0.737423754
GPR15	2.128923311	2.032755415	-0.066687343	0.087623682
GPR150	11.07599509	11.07038136	-0.000731398	0.83712106
GPR153	11.97728752	11.97563815	-0.000198684	0.975234542
GPR155	5.825593801	5.996009444	0.041597545	0.165353995
GPR156	4.823908649	4.784277197	-0.011901606	0.612127047
GPR157	3.636311351	3.562882908	-0.029430661	0.320187019
GPR158	5.675623377	5.918177317	0.060374064	0.311203908
GPR160	6.020449464	6.183513338	0.038555582	0.528352466

GPR161	4.414022834	4.382079817	-0.010478331	0.604404122
GPR162	5.828170563	6.023398408	0.047534588	0.492895525
GPR17	2.38566951	2.384812718	-0.000518224	0.892445428
GPR171	3.937730238	3.776649669	-0.060257318	0.308246766
GPR172A	8.161201828	8.159177106	-0.000357964	0.877738351
GPR172B	2.206217026	2.203091859	-0.002045066	0.994495839
GPR173	2.314382126	2.33901481	0.01527391	0.475657306
GPR174	1.909409722	1.952730585	0.032366206	0.572082587
GPR175	4.847362113	4.815788218	-0.009427911	0.494637325
GPR176	2.360115192	2.378625204	0.011270691	0.592903353
GPR177	6.479652768	6.639328718	0.035120879	0.272400664
GPR18	2.221195364	2.168256789	-0.034800663	0.339005833
GPR180	4.519827921	4.546444866	0.00847101	0.618920003
GPR182	2.095412192	2.068687915	-0.018518052	0.987340859
GPR183	4.60482257	4.500563056	-0.033040063	0.540149869
GPR19	3.348820325	3.535182296	0.078131639	0.040951163
GPR20	4.452599649	4.320150528	-0.043566318	0.267310031
GPR21	2.104309119	2.003206965	-0.071035166	0.024916029
GPR22	2.019033656	2.075596225	0.039860858	0.310874243
GPR25	2.903416245	2.902228824	-0.000590145	0.781005023

GPR26	3.411867411	3.55772912	0.060395087	0.320523133
GPR27	2.039214225	1.983882789	-0.039686551	0.353844459
GPR3	2.323752901	2.283703739	-0.025081161	0.127884281
GPR31	2.092114245	2.052977331	-0.027243938	0.778358622
GPR32	2.140588656	2.103303915	-0.025350262	0.630150545
GPR34	3.88815406	3.527001444	-0.140643217	0.022285182
GPR35	2.678640291	2.634523521	-0.023958798	0.870129201
FASLG	2.340346848	2.191389775	-0.094876244	0.001148941
GPR37L1	2.557548914	2.670762669	0.062489948	0.080331073
GPR39	2.187588126	2.212216127	0.016151203	0.394616879
GPR4	5.376037483	5.222462782	-0.041812891	0.619406465
GPR44	2.021478887	1.987095197	-0.024750146	0.766744854
GPR45	2.098249053	1.977435183	-0.085555523	0.041224447
GPR50	2.070242166	2.056562831	-0.009564387	0.637028649
GPR52	2.087522238	2.042368521	-0.03154836	0.806002259
GPR55	1.94347247	1.918738401	-0.018478642	0.676920232
GPR56	8.736607854	8.89454107	0.025846933	0.400001854
GPR6	2.039308079	2.114122014	0.051978902	0.080450258
GPR61	3.017810225	2.99461262	-0.011132696	0.648396511
GPR62	3.622858954	3.765516852	0.055719262	0.056553647

<b>GPR63</b>	2.071559311	2.03050293	-0.028880018	0.768325579
<b>GPR64</b>	2.852655974	2.979484303	0.062756876	0.184419225
<b>GPR65</b>	3.016723662	2.981661479	-0.016866077	0.513571001
<b>GPR68</b>	3.353581371	3.386194423	0.013962202	0.581976487
<b>GPR75</b>	2.293877742	2.385053317	0.056233016	0.044553913
<b>GPR77</b>	2.414783192	2.477694894	0.037104879	0.408554583
<b>GPR78</b>	8.822687225	8.811754634	-0.001788817	0.92086957
<b>GPR81</b>	4.003175715	3.582801239	-0.160056932	0.029059078
<b>GPR82</b>	1.952965828	1.886325697	-0.050087909	0.109040318
<b>GPR83</b>	1.949657464	1.877909148	-0.05409341	0.260235327
<b>GPR84</b>	3.36938602	3.536872789	0.069988607	0.274818955
<b>GPR85</b>	2.612589854	2.733776401	0.065414592	0.12875016
<b>GPR87</b>	1.927960834	1.832600176	-0.073183681	0.075106632
<b>GPR88</b>	3.313715	3.263712275	-0.021935651	0.886449018
<b>GPR89B</b>	4.160121152	4.173442683	0.004612414	0.329337891
<b>GPR97</b>	2.359975013	2.288422268	-0.044418297	0.157508171
<b>GPR98</b>	4.239554079	4.330171401	0.030511604	0.847915956
<b>GPRASP1</b>	8.104936344	8.100690866	-0.000755902	0.878826618
<b>GPRASP2</b>	6.33107896	6.363431528	0.007353571	0.906095914
<b>GPRC5A</b>	2.491839517	2.415704887	-0.044766937	0.304008144

<b>GPRC5B</b>	8.354838007	8.337492394	-0.002998316	0.715163103
<b>GPRC5C</b>	7.74809653	7.639847965	-0.020297999	0.929637551
<b>GPRC5D</b>	2.029006291	2.036472556	0.005299034	0.856571124
<b>GPRC6A</b>	1.946559662	1.888547183	-0.043649736	0.075219637
<b>GPRIN1</b>	4.441922384	4.639552585	0.062801502	0.228938511
<b>GPRIN2</b>	3.952352642	3.939605887	-0.004660363	0.607295455
<b>GPRIN3</b>	2.255938424	2.217739415	-0.024637831	0.343555467
<b>GPS1</b>	7.93921194	7.999448556	0.010904741	0.138210531
<b>GPS2</b>	4.377042331	4.443293366	0.021673061	0.190888518
<b>GPSM1</b>	10.6905011	10.74182427	0.006909547	0.232423184
<b>GPSM2</b>	2.886242272	2.98153681	0.046863743	0.228938511
<b>GPSM3</b>	5.141525974	5.026139739	-0.032745824	0.17024375
<b>GPSN2</b>	8.683755159	8.778490493	0.015653833	0.184418649
<b>GPT</b>	4.721697563	4.887005768	0.049645171	0.012540243
<b>GPT2</b>	3.777817715	3.909511768	0.049435359	0.183963147
<b>GPX1</b>	11.88146371	11.77903105	-0.012491709	0.913749008
<b>GPX2</b>	2.201486457	2.236862768	0.02299878	0.690089792
<b>GPX3</b>	10.72704862	11.1967932	0.061832404	9.07E-05
<b>GPX4</b>	10.29595085	10.36049657	0.00901608	0.279083611
<b>GPX5</b>	2.230403755	2.241284493	0.007020891	0.952142157

<b>GPX6</b>	1.859377026	1.815020761	-0.034833286	0.198244376
<b>GPX7</b>	5.078667642	5.089612761	0.00310583	0.738464672
<b>GOS2</b>	6.420083907	6.012043106	-0.0947368	0.013866864
<b>GRAMD1A</b>	3.841737523	3.913411352	0.026667811	0.386999429
<b>GRAMD1B</b>	3.438157563	3.503466592	0.027147477	0.675911394
<b>GRAMD1C</b>	6.647323457	6.852068169	0.043765948	0.099483896
<b>GRAMD2</b>	2.208058854	2.22665231	0.012097673	0.770434665
<b>GRAMD3</b>	5.673373947	5.605833761	-0.017277997	0.876650937
<b>GRAMD4</b>	6.519343377	6.59362312	0.016344763	0.295329103
<b>GRAP</b>	3.110806477	2.952617704	-0.075294075	0.050660364
<b>GRAP2</b>	2.04801902	2.043307099	-0.003323064	0.532421462
<b>KRTAP1-5</b>	1.940662563	1.817905085	-0.094272412	0.012370503
<b>GRB10</b>	9.406674795	9.401911486	-0.00073073	0.968084056
<b>GRB14</b>	4.200991384	4.157696704	-0.014945307	0.633585638
<b>GRB2</b>	8.03224853	8.028425993	-0.00068674	0.565997089
<b>GRB7</b>	2.511976702	2.466680197	-0.0262524	0.643443753
<b>GREB1</b>	2.394857411	2.445089394	0.029947451	0.309558461
<b>GREM1</b>	1.915079689	1.947564796	0.024266902	0.652370096
<b>GREM2</b>	4.418395	4.6970655	0.088237312	0.211801245
<b>GRHL1</b>	2.073038305	2.013350246	-0.042148606	0.300130253



GRHL2	1.819759285	1.86887419	0.038421827	0.160159507
GRHL3	2.28459898	2.384138718	0.061527231	0.050173361
GRHPR	7.678650616	7.743159148	0.012069489	0.047100913
GRIA1	3.211049331	3.527541979	0.135618422	0.035737423
GRIA2	3.729109477	4.004320359	0.102726248	0.112122757
GRIA3	3.78518651	3.937934838	0.05707485	0.54609747
GRIA4	2.958385265	3.131601282	0.082090595	0.063496982
GRID1	3.068586934	3.155672155	0.040372875	0.28744289
GRID2	4.675215219	4.824645838	0.045390263	0.155491066
GRIK1	6.515638311	6.841358232	0.070376255	0.17370852
GRIK2	2.290896642	2.288455437	-0.001538172	0.679950878
GRIK3	4.102589397	4.375059789	0.092767962	0.02098594
GRIK4	2.261300854	2.342805915	0.051084494	0.211801136
GRIK5	3.012590311	3.076168613	0.030130092	0.394616935
GRIN1	7.637078007	7.74418607	0.020092857	0.234864248
GRIN2A	3.204039755	3.334877521	0.057741729	0.308246824
GRIN2B	2.143500682	2.166417866	0.015342666	0.407381864
GRIN2C	6.132929444	6.422132507	0.066476079	0.082015193
GRIN2D	10.31392577	10.28905923	-0.003482491	0.610190639
GRIN3A	3.393773954	3.445711887	0.0219116	0.590519961

GRIN3B	2.072406397	2.03691488	-0.024921249	0.273305832
GRINA	7.627217079	7.711601268	0.015873697	0.2473219
GRINL1A	2.148695424	2.135470387	-0.008907104	0.595769272
GRIP2	2.426996205	2.336293141	-0.054950548	0.009819876
GRIPAP1	7.289760225	7.358083542	0.013458694	0.318175924
GRK1	3.412835987	3.493004768	0.033497528	0.721868631
GRK4	3.91523294	4.060025789	0.052390747	0.379098553
GRK5	6.695060603	6.306101697	-0.086348678	0.003506565
GRK6	6.608865079	6.764331113	0.033544738	0.01196675
GRK7	1.975849682	1.923211768	-0.038955566	0.37611508
GRLF1	4.981100172	5.0424285	0.017654297	0.502517506
GRM1	3.753486464	3.954674782	0.075327777	0.383601374
GRM2	2.223942464	2.295956486	0.045975836	0.065691922
GRM3	3.00290402	3.258919465	0.118035337	0.045588432
GRM4	2.602187589	2.676461887	0.04060214	0.254439667
GRM5	2.597740192	2.746454866	0.080313434	0.063300434
GRM7	2.32426249	2.408280176	0.051230235	0.163887021
GRM8	4.392650636	4.637314669	0.078197864	0.352413979
GRN	11.29995216	11.19631187	-0.013293087	0.183048692
VASH2	3.365895238	3.153029197	-0.094251745	0.004678374

GRPEL1	5.765182722	5.836442204	0.017722861	0.178780887
GRPEL2	5.27431643	5.224207972	-0.013771797	0.425981627
GRPR	2.146647868	2.147194408	0.000367266	0.661846879
GRRP1	5.951780868	5.692629873	-0.06422611	0.098777276
GRSF1	8.539377099	8.567658021	0.004770059	0.412476238
G RTP1	4.131360146	4.283099937	0.052038509	0.251290469
GRWD1	6.129157305	6.144862366	0.003691965	0.902270801
GRXCR1	2.010670834	2.099845831	0.062606492	0.086477887
GSC	4.53701557	4.26473638	-0.089287045	0.15954514
GSC2	2.050473755	2.042758711	-0.005438474	0.913205433
GSDMA	2.144560808	2.026890852	-0.081413822	0.088652496
GSDMB	4.227515026	3.981230218	-0.086595584	0.003681135
GSDMC	2.013428397	1.945888796	-0.049224902	0.117035506
GSDMD	5.884578682	5.774976613	-0.027124022	0.69671017
GSG1	7.024691331	7.446545437	0.084136459	0.147425417
GSG1L	2.821566821	2.936000401	0.057355649	0.171320965
GSG2	2.214402126	2.224146458	0.006334558	0.66384887
GSK3A	10.52549347	10.56112655	0.004875861	0.587662029
GSK3B	6.296389364	6.368233268	0.016368424	0.442194288
GSN	10.9114707	10.78416139	-0.016931575	0.587188413

<b>GSPT1</b>	3.39810043	3.385664218	-0.005289594	0.876107063
<b>GSPT2</b>	5.737942993	5.865397915	0.031695351	0.053071435
<b>GSR</b>	4.42831794	4.49932981	0.022951316	0.05910244
<b>GSS</b>	7.783195901	7.949380113	0.030479695	0.00375478
<b>GSTA1</b>	2.270879285	2.371696211	0.062668211	0.263167304
<b>GSTA2</b>	2.984388132	2.977668282	-0.003252133	0.506040938
<b>GSTA3</b>	2.710013934	2.637329704	-0.039222329	0.36032778
<b>GSTA4</b>	6.358563444	6.352276613	-0.001427125	0.815094301
<b>GSTA5</b>	2.428444477	2.527431134	0.057639281	0.249017543
<b>GSTCD</b>	2.62180957	2.677343824	0.03023952	0.172620031
<b>GSTK1</b>	5.599497523	5.589948923	-0.002462271	0.957087921
<b>GSTM1</b>	4.403592735	4.360088972	-0.014323473	0.55023365
<b>GSTM2</b>	4.40946643	4.309882162	-0.032955668	0.176783114
<b>GSTM3</b>	8.958451146	8.822765613	-0.022018363	0.104248171
<b>GSTM4</b>	4.032959146	4.053433697	0.007305754	0.669366792
<b>GSTM5</b>	6.713679344	6.77229188	0.01254052	0.481223326
<b>GSTO1</b>	9.681478172	9.553737796	-0.019162053	0.201631839
<b>GSTO2</b>	3.741996252	3.84515231	0.039232632	0.196326457
<b>GSTP1</b>	13.47435467	13.55666736	0.008786385	0.226391753
<b>GSTT1</b>	6.57305796	6.185986951	-0.087560917	0.002227425

GSTT2	6.027175232	6.226864303	0.04702383	0.030459902
GSTTP1	1.89485757	1.876637211	-0.013939632	0.655356751
GSTZ1	5.154764768	5.425029099	0.073724282	0.010199248
GSX1	2.292187828	2.276971394	-0.0096091	0.979086422
GSX2	2.59268506	2.635682803	0.023729788	0.590043812
GTDC1	5.388615887	5.359807606	-0.007733537	0.507807262
GTF2A1	3.29823449	3.391112965	0.040064872	0.021372424
GTF2A1L	2.068225053	2.086124627	0.012432168	0.538326346
GTF2A2	7.817448841	7.846902134	0.005425334	0.362504418
GTF2B	6.844265199	6.852819683	0.001802064	0.629660088
GTF2E1	5.609924066	5.664266739	0.013907963	0.341800761
GTF2E2	4.558915007	4.526762423	-0.010210921	0.524749233
GTF2F1	8.49828745	8.500852958	0.000435463	0.943354198
GTF2F2	8.197075119	8.242248831	0.0079288	0.565997877
GTF2H1	5.864487742	5.884293106	0.004864016	0.634076985
GTF2H2D	6.007690245	5.908564599	-0.024002739	0.076701335
GTF2H3	2.960170709	2.883020803	-0.038099129	0.436480271
CHRNA10	3.364663656	3.152196507	-0.09410482	0.003460249
GTF2H5	7.919952642	7.970449035	0.009169201	0.328996022
GTF2I	8.914247801	9.015035465	0.016220101	0.104689347

GTF2IRD1	7.708895397	7.735930873	0.005050751	0.742111592
GTF2IRD2	5.79213651	5.776441838	-0.003914507	0.686534395
GTF3A	9.09207447	9.177915901	0.013557086	0.148196949
GTF3C1	4.445440205	4.467038176	0.006992297	0.61067552
GTF3C2	6.248813166	6.352914979	0.023836506	0.02850431
GTF3C3	6.041110815	5.996954042	-0.010583934	0.449190276
GTF3C4	4.705481245	4.706596937	0.000342029	0.769907053
GTF3C5	7.763414815	7.770192585	0.001258981	0.735343242
GTF3C6	9.816187947	9.871782824	0.008147784	0.098915526
GTPBP1	8.215968397	8.401384732	0.032196503	0.018687764
GTPBP10	5.837452099	5.839081021	0.000402523	0.884270047
GTPBP2	5.328885603	5.316358458	-0.00339548	0.811347352
GTPBP3	5.739139675	5.641910662	-0.024650665	0.013840227
GTPBP4	7.777478026	7.767943979	-0.001769617	0.86850003
GTPBP5	4.983318053	4.99183769	0.002464371	0.95543911
GTPBP6	9.335818351	9.219914923	-0.018023052	0.001876159
GTPBP8	7.548291305	7.540294782	-0.001529175	0.804400366
GTSE1	2.25439353	2.295811556	0.026264852	0.861989524
GTSF1	2.137048755	2.037304246	-0.068958377	0.007717171
GTSF1L	1.892354291	1.924999401	0.024675778	0.400775394

GUCA1A	7.345167854	7.396611528	0.010069047	0.906095936
GUCA1B	7.859403517	7.951113662	0.016737119	0.927992882
GUCA1C	5.935621238	5.982128007	0.011259748	0.977435772
GUCA2A	1.983456795	1.979884676	-0.002600573	0.737944123
GUCA2B	5.164788808	5.407165451	0.066163144	0.446714287
GUCY1A2	2.440938616	2.474601866	0.019760416	0.588616295
GUCY1A3	8.048693497	7.887252063	-0.029231867	0.029314068
GUCY1B2	2.018678815	2.010398563	-0.005929841	0.963134932
GUCY1B3	5.475138815	5.510286592	0.009231813	0.82260079
GUCY2C	1.963998053	1.925049246	-0.028898146	0.738464612
GUCY2D	4.010193265	4.050568915	0.014452787	0.569270779
GUCY2F	4.001954947	4.12141119	0.042433482	0.590043857
GUCY2G	2.153293841	2.103380803	-0.033835141	0.431616518
GUF1	4.279856404	4.319049796	0.013151557	0.926348555
GUK1	12.22525616	12.31787365	0.01088854	0.511780307
GULP1	7.191903881	7.064966944	-0.025690929	0.18034677
GUSB	9.928291808	9.910153796	-0.002638072	0.882635849
GUSBL1	7.487668411	7.409266225	-0.015185874	0.238141967
GUSBL2	6.736547669	6.660034204	-0.016479845	0.071562618
GVIN1	2.634714311	2.572855183	-0.03427628	0.465896836

<b>GYG1</b>	6.833561536	6.984720535	0.031564711	0.00242472
<b>GYG2</b>	3.975159775	3.856824993	-0.043599164	0.296604448
<b>GYLTL1B</b>	5.748766424	5.898012986	0.036976585	0.175021238
<b>GYPA</b>	2.019650881	1.949935317	-0.050679661	0.183281092
<b>GYPB</b>	2.017039894	1.974682824	-0.030618674	0.300773932
<b>GYPC</b>	6.347263788	6.443065655	0.021612495	0.383224628
<b>GYPE</b>	2.411549391	2.329591754	-0.049883204	0.051481355
<b>GYS1</b>	7.407615768	7.458027282	0.009784806	0.532421169
<b>GYS2</b>	1.959534265	1.965361345	0.004283786	0.562269516
<b>GZF1</b>	4.413887735	4.479094739	0.021157246	0.186250431
<b>GZMA</b>	4.88255043	4.601423669	-0.085554649	0.258196862
<b>GZMB</b>	5.224218722	4.996267155	-0.064364678	0.302065029
<b>GZMH</b>	4.883862748	4.650831528	-0.070533976	0.409729198
<b>GZMK</b>	4.271998848	3.974930563	-0.103981599	0.07797376
<b>GZMM</b>	3.862621079	3.892125697	0.010978146	0.876650864
<b>H19</b>	5.621731046	5.473622746	-0.03851843	0.528804007
<b>H1F0</b>	6.784733159	6.941111683	0.032874666	0.06857578
<b>H1FNT</b>	2.785536252	2.834004437	0.024886925	0.078674907
<b>H1F00</b>	2.076564536	1.996359859	-0.056826908	0.069843393
<b>H1FX</b>	7.432656232	7.449884585	0.003340192	0.845754894



H2AFB2	2.212087517	2.196440007	-0.010241369	0.929637635
H2AFJ	9.975787669	9.79721269	-0.026059398	0.122447555
H2AFV	9.034076477	8.897031739	-0.022053028	0.020605168
H2AFX	9.836581106	9.833419	-0.000463849	0.79800096
H2AFY	10.75825361	10.83395873	0.010116596	0.333800424
H2AFY2	3.551678894	3.537460042	-0.005787302	0.877194694
H2AFZ	9.974122914	9.858069155	-0.01688488	0.047638797
H2BFXP	2.330327874	2.368426232	0.023395784	0.615034411
H3F3A	12.30759708	12.32093894	0.001563084	0.804928806
H3F3B	11.87890335	11.86042201	-0.002246311	0.88808166
H6PD	3.540635252	3.63596019	0.038328175	0.507807363
HAAO	3.270173907	3.121423014	-0.067163476	0.101916292
HAB1	3.459630424	3.507439951	0.019800475	0.707966616
TGFB1I1	4.103164603	3.845216331	-0.093672264	0.012786275
HABP4	6.398735907	6.387821866	-0.002462842	0.838739824
HACE1	5.986256543	6.068933261	0.019788848	0.320859188
HACL1	8.125586861	8.202694894	0.013625954	0.219471834
HADH	7.445277106	7.389215859	-0.010904271	0.337613223
HADHA	6.511749318	6.485104289	-0.005915386	0.801199417
HADHB	10.00369613	9.958716366	-0.006501438	0.325925576

HAGH	9.458959715	9.518533303	0.009057761	0.276641449
HAGHL	5.460599099	5.56675319	0.027776878	0.227075142
HAL	1.927729543	1.917425465	-0.007732161	0.595291144
LYG1	3.497922874	3.279486479	-0.093028553	0.010037974
HAND1	2.14816157	2.098824958	-0.033520656	0.604885934
HAND2	3.140580536	3.049070979	-0.042661531	0.308246709
HA01	1.964386821	2.030665148	0.047873313	0.265825404
HA02	1.918280523	1.895935176	-0.016904073	0.443013986
HAP1	2.216212146	2.176343711	-0.026189569	0.056642993
HAPLN1	2.988918503	2.934857669	-0.026333022	0.263756288
HAPLN2	2.589176146	2.666615592	0.042516749	0.113689407
HAPLN3	3.300063583	3.414838817	0.049323662	0.082136585
HAPLN4	3.226006715	3.277022394	0.02263609	0.382848506
HAR1A	5.665199742	5.83535881	0.042694545	0.417610708
HARBI1	3.951914033	4.008047599	0.020348078	0.344258636
HARS	7.761872934	7.75669412	-0.000962905	0.730669259
HARS2	7.301396543	7.303695641	0.000454211	0.953241006
HAS1	2.301821795	2.417562648	0.07077713	0.245915681
HAS2	2.145765596	2.125390014	-0.013764881	0.773073324
HAS3	2.374482596	2.472249873	0.058211384	0.007717171

HAT1	8.380901881	8.414950479	0.005849279	0.411297614
HAVCR1	1.948090841	1.862711007	-0.06465709	0.055665753
HAVCR2	4.695851404	4.576011831	-0.037295974	0.406601447
HAX1	9.590869762	9.566882761	-0.003612735	0.55530581
HBA1	11.26597915	11.09635813	-0.021886452	0.392320291
HBA2	10.28403748	10.03876685	-0.034824713	0.203097374
HBB	12.52707844	12.13476409	-0.045903927	0.253753761
HBBP1	2.09207106	2.079414099	-0.008754767	0.823674453
HBD	8.948343722	8.421595986	-0.087527008	0.158727488
HBE1	2.143769278	2.079786634	-0.043714116	0.247040297
HBEGF	4.048394073	4.022494254	-0.00925937	0.793211336
HBG1	4.833027656	4.411998937	-0.131494807	0.033321705
HBM	4.840279066	4.504277556	-0.103794499	0.153493875
HBP1	4.806102179	4.772247761	-0.010198376	0.406211377
HBQ1	3.826632815	3.643880521	-0.070599818	0.23000792
HBS1L	5.04010555	5.042628423	0.000721974	0.981287404
HBXIP	10.69935285	10.68263463	-0.002256039	0.84143499
HBZ	4.432771735	4.583652648	0.048288647	0.399230616
HCCA2	7.907144583	7.815125352	-0.016887791	0.09723695
HCCS	5.503017748	5.400052894	-0.027249443	0.054528854

HCFC1	2.467875954	2.533253387	0.037721509	0.308246651
HCFC1R1	9.596201377	9.600696979	0.000675711	0.80493389
HCFC2	5.728964073	5.766126993	0.009328321	0.453750621
HCG18	5.611414344	5.643359148	0.008189722	0.786305568
HCG22	1.891449397	1.868577007	-0.017552159	0.9071892
HCG26	2.847684861	2.805614317	-0.021472802	0.54885321
HCG27	2.165670172	2.176523697	0.007212188	0.597204486
TRAF1	4.906247232	4.600399577	-0.09286076	0.000135875
HCG4P6	2.016228788	1.949907958	-0.04825333	0.05001181
HCG8	2.644117417	2.604100028	-0.022001378	0.258486986
HCG9	2.177246351	2.119649077	-0.038679218	0.414841995
HCK	4.052072881	3.880395479	-0.062456427	0.183281144
HCLS1	8.910412536	8.795373366	-0.018747406	0.638998981
HCN1	6.785184517	6.929319134	0.030325553	0.920321886
HCN2	13.61142345	13.56879474	-0.004525371	0.783055046
HCN3	4.497057642	4.496871986	-5.96E-05	0.702842108
HCN4	12.65303601	12.63439377	-0.002127149	0.814014857
HCP5	4.29283651	4.477768937	0.060848854	0.035495361
HCP5P10	2.061458351	2.037269958	-0.01702815	0.807070647
HCRT	6.213090967	6.263815148	0.011730461	0.147618301

HCRR1	3.132210199	3.148085	0.007293462	0.495509998
HCRR2	2.115384483	2.081520887	-0.02328187	0.401549493
HCST	7.801090325	7.644571486	-0.029240143	0.369823025
HDAC1	8.299825576	8.165221965	-0.023588913	0.019499947
ALDH1L2	2.295792497	2.153001838	-0.0926427	0.016272478
HDAC11	4.202448728	4.255404394	0.018066021	0.716193418
HDAC2	8.717304464	8.652582979	-0.010751227	0.136021944
HDAC3	4.196909503	4.358930338	0.054646792	0.018412473
HDAC4	4.94247204	4.92483412	-0.005157673	0.834428953
HDAC5	8.006974775	8.057511254	0.009077037	0.974684892
HDAC6	6.972002444	6.979398732	0.00152968	0.968084128
HDAC7	7.810067185	7.660738718	-0.027851442	0.403099818
HDAC8	3.820451901	3.844284613	0.008971853	0.414447249
HDAC9	2.590645377	2.616789148	0.014486137	0.576313025
HDC	5.308204497	5.295899197	-0.003348289	0.917036611
HDDC2	7.541984013	7.521454282	-0.003932457	0.891354551
HDDC3	7.107439099	7.196811915	0.018028123	0.217664526
HDGF	7.912560033	7.969576655	0.01035855	0.384354239
HDGF2	4.659702596	4.78024281	0.036846023	0.039408899
HDGFL1	2.083713086	2.050719662	-0.023026356	0.323894973

HDGFRP3	7.583096232	7.469175218	-0.021838089	0.032028552
HDHD1A	4.94408	5.127851162	0.0526523	0.00102962
HDHD2	9.074721391	9.105570437	0.00489605	0.67893976
HDHD3	3.10089206	3.128223606	0.012660333	0.613579927
HDLBP	7.533492033	7.426863944	-0.02056561	0.040006264
HDX	3.027131477	3.038694711	0.005500402	0.61067569
HEATR1	4.74841898	4.638475577	-0.033796492	0.094349801
HEATR2	5.622609563	5.62150712	-0.000282902	0.95818719
HEATR3	6.313235914	6.363539204	0.011449708	0.330365457
HEATR4	2.122767728	2.060044176	-0.043271246	0.148391765
HEATR5A	4.772975325	4.759710113	-0.004015168	0.814023437
HEATR5B	4.318199543	4.388486958	0.023293708	0.432829434
HEATR6	4.478033735	4.504670493	0.008556183	0.567866916
HEATR7A	4.122930212	4.22337743	0.034727141	0.159954586
HEATR7B2	1.92108455	1.967767739	0.03463893	0.157508221
HEBP1	10.45011281	10.23149399	-0.030501696	0.037661164
HEBP2	9.583959874	9.588979514	0.00075542	0.745763171
HECA	8.741716536	8.570802408	-0.02848632	0.001610504
HECTD1	9.476682258	9.487025092	0.001573696	0.745762352
HECTD2	4.617381225	4.673054077	0.017290882	0.333459483

HECTD3	3.020051603	3.032607479	0.005985576	0.492895473
ACRC	4.448164424	4.172407042	-0.09233021	0.006608838
HECW2	2.363956159	2.441329739	0.046463887	0.294057838
HEG1	8.375545132	8.221652437	-0.026754709	0.050092243
HEL308	3.816443344	3.816132401	-0.000117548	0.77835857
HELB	3.740585841	3.716977141	-0.009134423	0.95104336
HELLS	2.784950709	2.725647859	-0.031052608	0.44712652
HELZ	6.353101576	6.288460577	-0.014754199	0.133862103
HEMGN	2.211661146	2.057824761	-0.104010232	0.0283051
HEMK1	3.717337881	3.59146081	-0.049699052	0.012250544
HSPA1A	10.2032722	9.572965613	-0.091994068	8.52E-05
HEPACAM2	2.12901802	2.083992641	-0.030837978	0.212306383
HEPH	6.39140198	6.427725345	0.008175857	0.510463108
HEPN1	2.261522642	2.36837331	0.06660206	0.054355768
HERC1	6.881344576	6.83681107	-0.009366929	0.501638399
HERC2	6.606233053	6.603016479	-0.000702619	0.773601408
HERC2P2	6.452218695	6.257662711	-0.04417144	0.048107381
HERC2P4	2.544181927	2.462137373	-0.047290579	0.346021322
HERC3	2.05189345	2.026735979	-0.017797655	0.385109258
HERC4	4.675138411	4.494515324	-0.05684353	0.002359047

HERC5	3.785001179	3.669010873	-0.044902569	0.174802076
HERC6	4.075325682	4.102121077	0.009454717	0.976335398
HERPUD1	11.92448095	11.59844037	-0.03999565	0.003713367
HERPUD2	4.285040848	4.265170197	-0.006705645	0.872845436
HERV-FRD	1.890636788	1.890485169	-0.000115701	0.982938262
HES1	9.797314106	9.966747514	0.024736487	0.085468618
HES2	2.693104728	2.860693937	0.087094819	0.075900724
HES4	8.603598589	8.54361288	-0.010093937	0.175900144
HES5	6.583279762	6.752963345	0.036714219	0.215356704
HES6	4.262510742	4.173538169	-0.030432505	0.309558461
HES7	12.74726612	12.7439738	-0.000372662	0.654839495
HESX1	2.316179424	2.333289908	0.010618555	0.430808601
HEXA	6.756538728	6.759710162	0.000677024	0.898447968
HEXB	7.668464483	7.612708965	-0.0105278	0.43000189
HEXDC	5.804033887	5.786264007	-0.004423793	0.647404681
HEXIM1	7.066000755	6.950978338	-0.023677854	0.023441787
HEXIM2	8.651004974	8.682758908	0.005285787	0.677929253
HEY1	7.42404651	7.351311986	-0.014203998	0.323556903
HEY2	4.404948139	4.265890965	-0.046277943	0.02786073
HEYL	7.479007272	7.380416803	-0.019144493	0.520710736



HFE	2.39878506	2.392509211	-0.003779413	0.984038871
HFE2	1.908537503	1.906779507	-0.001329511	0.239241814
HFM1	2.332083603	2.381774014	0.030417026	0.429196387
HGC6.3	2.929999834	2.976402155	0.022668885	0.920869617
HGD	6.079844126	6.160255085	0.018955755	0.614549372
HGF	3.466691742	3.649087141	0.073976045	0.033036778
HGFAC	2.233933854	2.305418613	0.045442267	0.30400826
HGS	9.579178285	9.568977239	-0.001537171	0.511790578
HGSNAT	6.112792662	6.108694803	-0.00096747	0.620866644
HHAT	5.193252808	5.140237063	-0.014803561	0.373516082
HHATL	7.513210503	7.631387296	0.022515822	0.355997079
HHEX	3.75365751	3.511858951	-0.09606212	0.124635278
HHIP	4.087294106	3.790421063	-0.108787937	0.03236176
HHIPL1	4.876061947	4.982850197	0.031254747	0.033207357
HHIPL2	2.365007212	2.414624556	0.029954303	0.58387004
HHLA1	2.014365152	1.971532986	-0.031007382	0.238691444
HHLA2	1.961988914	1.929083613	-0.024401214	0.609225861
HHLA3	2.662733868	2.611964775	-0.027772802	0.233507814
HIAT1	5.148131166	5.194837951	0.013029935	0.373516082
HIATL1	5.072163861	5.037072465	-0.010015868	0.495946077

HIBADH	6.390825464	6.435872873	0.010133542	0.298523757
HIBCH	7.59685394	7.422764648	-0.033445457	0.003186903
HIC1	3.801173954	3.644988817	-0.060530661	0.184191055
HIC2	4.943887046	4.942532134	-0.000395437	0.95763754
HICE1	5.859351815	5.79187612	-0.016710331	0.036164393
HIF1A	7.552252278	7.659332958	0.020311797	0.211800755
HIF1AN	3.207436881	3.174635951	-0.014829714	0.800666172
HIF3A	3.848773589	3.732727993	-0.044168423	0.219213398
HIG2	8.230204828	8.756832423	0.089480767	0.001032139
HIGD1A	9.145954907	9.155681542	0.001533477	0.606329861
HIGD1B	4.119200629	3.956602824	-0.058102145	0.183963356
HIGD2A	6.874325258	6.902269592	0.00585271	0.697220261
HILS1	5.568709874	5.416982373	-0.039853735	0.257036702
HINT1	11.58477186	11.66508231	0.009966854	0.007061795
HINT2	7.41101502	7.543270085	0.025518933	0.010760704
HINT3	3.752216616	3.69799438	-0.021000085	0.320186904
HIP1	3.978504417	3.866905979	-0.041046514	0.285260185
HIP1R	7.992953662	8.036507979	0.007840033	0.182147859
HIPK1	7.707212709	7.673925282	-0.00624449	0.521158726
HIPK2	9.821970185	9.823908014	0.000284609	0.63998413

HIPK3	2.691998523	2.649652514	-0.022874447	0.194659552
HIPK4	1.958603556	1.918796007	-0.029624067	0.282779616
HIRA	7.504842152	7.605143479	0.019153738	0.57772661
HIRIP3	3.963635709	3.972604549	0.003260815	0.696710307
HISPPD1	6.193113397	6.164558275	-0.006667341	0.583396158
HISPPD2A	5.348737444	5.514509169	0.044034094	0.330022897
HIST1H1A	2.829972212	2.796058049	-0.017393574	0.917036572
HIST1H1B	2.200138152	2.252580754	0.03398471	0.781005074
HIST1H1C	10.38513849	10.21307488	-0.024103167	0.017972105
HIST1H1D	6.261212735	6.093970092	-0.039059701	0.103369024
HIST1H1E	6.836062325	6.713922317	-0.026009706	0.06438749
HIST1H1T	1.947950543	1.933054401	-0.011074809	0.537870912
HIST1H2AA	2.493668735	2.47169631	-0.012768332	0.658848235
HIST1H2AB	4.043188781	3.966133261	-0.027760414	0.048107221
HIST1H3F	2.824103967	2.650571239	-0.091489885	0.003047494
HIST1H2AD	8.954164358	8.6278995	-0.053549428	0.013471971
HIST1H2AE	6.502326391	6.265702106	-0.053479795	0.000226079
HIST1H2AG	7.878501199	7.659238451	-0.040720245	0.059941771
HIST1H2AH	7.902642305	7.734192099	-0.031084511	0.057816474
HIST1H2AJ	6.08341102	5.895323176	-0.045309579	0.064986945

HIST1H2AK	8.232011331	7.994228845	-0.042286096	0.028654728
HIST1H2AL	2.31365402	2.300702514	-0.00809869	0.740547946
HIST1H2AM	7.767167881	7.604731239	-0.030491387	0.1434204
HIST1H2BA	1.857459159	1.905624289	0.036933217	0.550233555
HIST1H2BB	4.775642722	4.498173937	-0.08635546	0.006181168
HIST1H2BC	3.408292311	3.244362986	-0.071113833	0.025682806
HIST1H2BD	5.566677225	5.320311007	-0.06530585	0.004648191
HIST1H2BE	6.181481689	5.856406831	-0.077936913	0.004668297
HIST1H2BF	7.07373947	6.749392063	-0.067715524	0.008563212
HIST1H2BG	3.704086576	3.506776718	-0.078972244	0.10572776
HIST1H2BH	6.889301861	6.57063343	-0.068325335	0.014027655
HIST1H2BI	5.228786179	4.985876352	-0.06862897	0.006142374
HIST1H2BJ	3.480596775	3.310815211	-0.072148197	0.002300273
HIST1H2BK	5.987358212	5.624926275	-0.090085399	0.027374248
HIST1H2BL	7.926794834	7.61264769	-0.058339324	0.006595074
HIST1H2BM	5.515766245	5.278224225	-0.063508678	0.010199212
HIST1H2BN	4.632043808	4.402471373	-0.073335275	0.019285282
HIST1H2BO	6.65435806	6.372747852	-0.062383918	0.007925416
HIST1H3A	8.373598265	8.347847303	-0.004443493	0.54106204
HIST1H3B	6.194764583	6.123219746	-0.016758999	0.059848152

HIST1H3C	9.956678013	9.922162739	-0.005009856	0.588138586
PPARG	3.872623682	3.635174338	-0.09128676	0.016028556
HIST1H3E	6.23813602	6.200932366	-0.008629856	0.457083427
WDR27	3.295577066	3.093942606	-0.091084674	5.37E-05
HIST1H3G	6.580648901	6.537340782	-0.009525947	0.358519037
HIST1H3H	2.787987543	2.624766908	-0.087034805	0.006129487
HIST1H3I	3.164254894	3.127453641	-0.016877321	0.29152576
HIST1H3J	3.038194795	2.931935648	-0.051360933	0.039343029
HIST1H4A	2.722848775	2.529393641	-0.106325282	0.075446132
HIST1H4B	8.168984232	8.211751683	0.007533304	0.705402507
HIST1H4C	12.62081301	12.71219404	0.010408201	0.409307342
HIST1H4D	5.556032007	5.613283817	0.014790096	0.560874494
HIST1H4E	5.804724603	5.906967923	0.025190156	0.026990334
SLC18A1	1.914046974	1.797358359	-0.090748153	0.00386357
HIST1H4G	1.972006424	1.90716019	-0.048238225	0.197283604
HIST1H4H	4.450864808	4.260465296	-0.063074681	0.007121614
HIST1H4I	4.188450954	3.940391606	-0.088077764	7.90E-05
HIST1H4J	5.605403728	5.398730373	-0.05419812	0.070270114
HIST1H4K	5.367122	5.230382099	-0.037232338	0.211548866
HIST1H4L	10.48305952	10.51008851	0.003714984	0.878826203

HIST2H2AA4	9.741192636	9.384975324	-0.053745464	0.009472037
HIST2H2AB	6.292536278	6.108234162	-0.042886259	0.064586884
HIST2H2AC	8.73167704	8.639000493	-0.015394364	0.226279961
HIST2H2BE	6.045633503	5.902864768	-0.034478232	0.171536906
HIST2H3A	6.713956033	6.704177359	-0.002102773	0.97853618
HIST2H3D	10.18828263	10.13664294	-0.007330948	0.280925426
HIST2H4B	4.822621642	4.56439657	-0.079393485	0.001047391
HIST3H2A	8.420504225	8.214040197	-0.035814618	0.040951067
HIST3H2BB	5.37902502	5.117649958	-0.071863228	0.000676599
HIST3H3	11.96955535	11.96317304	-0.000769467	0.996697417
HIST4H4	2.03516247	2.038691387	0.002499428	0.864158705
HIVEP1	4.80719704	4.774040493	-0.009985135	0.563200306
HIVEP2	7.830709808	7.74625493	-0.015644104	0.186710642
HIVEP3	5.829701391	5.923030972	0.022913643	0.166619401
HJURP	2.009401444	1.947579662	-0.045083478	0.170243546
HK1	9.109600987	9.226213521	0.018350818	0.150337454
HK2	8.296833205	8.647604845	0.059739817	0.191356617
HK3	3.532566815	3.420473859	-0.046520643	0.369087363
HKDC1	5.055528298	5.438039838	0.10522486	0.048185421
HKR1	6.190514967	6.29221057	0.023507525	0.536051354

HLA-A	8.83937055	8.87679762	0.006095667	0.718770979
HLA-B	11.49318368	11.58303742	0.011235132	0.475226308
HLA-C	12.31362633	12.41837058	0.012220195	0.439311615
HLA-DMA	6.314400662	6.255223754	-0.013584314	0.64839655
HLA-DMB	5.905666636	5.822720683	-0.020406507	0.617947621
HLA-DOA	5.649580172	5.686270887	0.009339166	0.759906623
HLA-DOB	2.55016904	2.654248373	0.057710498	0.125654052
HLA-DPA1	8.342980669	8.274170754	-0.011948172	0.666856508
HLA-DPB1	9.779817775	9.762883803	-0.002500224	0.915394242
HLA-DPB2	3.431960894	3.33796388	-0.04006477	0.241729414
HLA-DQA1	3.723163026	3.893023289	0.064362186	0.129446091
TAGAP	2.691852192	2.528345148	-0.090405773	0.013163323
HLA-DQB1	4.365985344	4.232690254	-0.044732371	0.589567841
HLA-DQB2	4.754288411	4.651017634	-0.031683015	0.478649994
HLA-DRA	8.098511967	8.0455045	-0.00947396	0.746286666
HLA-DRB1	9.685407563	9.472209641	-0.032111748	0.136748903
HLA-DRB3	6.743723146	6.51404593	-0.049991418	0.159749814
HLA-DRB4	7.49650904	7.435291359	-0.011829644	0.955439142
HLA-DRB5	8.723969391	8.656094845	-0.011268401	0.889718839
HLA-DRB6	2.028660954	2.01556181	-0.009345744	0.842515588

HLA-E	10.60829383	10.64146413	0.00450402	0.414838601
HLA-F	9.769470748	9.819006451	0.007296643	0.647899696
HLA-G	10.79182437	10.92935747	0.018269814	0.309554941
HLA-H	10.2157032	10.33493195	0.016740374	0.328652998
HLA-J	11.32151856	11.45624684	0.017067003	0.261107498
HLCS	7.344089735	7.458046401	0.022214086	0.14646456
HLF	7.829281788	8.0802725	0.045523978	0.049529717
HLTF	7.302801437	7.374517585	0.014098672	0.171536651
HLX	3.11321057	3.073047894	-0.018732908	0.714133664
HM13	6.579840715	6.571030141	-0.0019331	0.806536351
HMBX1	7.986179887	7.956623394	-0.005349254	0.570675605
HMBS	8.53269502	8.521649261	-0.00186881	0.981287404
HMCN1	2.527258483	2.506410648	-0.011950424	0.65984719
HMCN2	2.628468589	2.652789486	0.013287699	0.82045442
HMG20A	4.425676338	4.525412	0.032151197	0.036657797
HMG20B	5.543403768	5.444545725	-0.025960414	0.085846581
HMGA1	5.676818338	5.770372373	0.023581847	0.184190846
HMGA2	2.054617384	2.038360408	-0.011460596	0.478649732
HMGB1	9.765618795	9.767138169	0.000224443	0.830122903
HMGB1L1	9.696736298	9.712664901	0.002367937	0.724452798



<b>HMG B2</b>	9.780461298	9.767578373	-0.001901585	0.754133703
<b>HMG B3</b>	3.939844722	3.988758838	0.017801129	0.450017766
<b>CD163L1</b>	4.048450907	3.802568732	-0.090395658	0.005914216
<b>HMG B4</b>	2.034436742	2.039675782	0.003710423	0.631131212
<b>HMGCL</b>	6.924398437	6.999160106	0.015493069	0.153294724
<b>HMGCLL1</b>	4.012300285	4.091111676	0.028063337	0.514015602
<b>HMGCR</b>	8.645440245	8.740393261	0.015758762	0.250151723
<b>HMGCS1</b>	6.437115987	6.618237915	0.040032691	0.06994974
<b>HMGCS2</b>	4.311979523	4.053550007	-0.089164386	0.070484308
<b>HMG N1</b>	9.555152795	9.655143542	0.015018765	0.628190101
<b>HMG N2</b>	11.38568083	11.3780344	-0.000969215	0.447120613
<b>HMG N3</b>	7.913640689	7.922486958	0.001611817	0.926896568
<b>HMG N4</b>	6.345254649	6.293666239	-0.011777391	0.384731834
<b>HMGXB4</b>	5.276925848	5.277663155	0.000201563	0.957087891
<b>HMH B1</b>	2.889925093	2.878850324	-0.005539316	0.61067569
<b>HMMR</b>	3.164783603	3.175630768	0.004936323	0.92634859
<b>HMOX1</b>	8.762875371	8.639541063	-0.020449663	0.596725571
<b>HMOX2</b>	8.19699455	8.243405028	0.008145343	0.315174739
<b>HMP19</b>	6.188869616	6.288865486	0.023123849	0.840896949
<b>HMX1</b>	5.433265662	5.762953958	0.084988904	0.051812805

HMX2	2.469316642	2.394398225	-0.044448732	0.244794323
HN1	8.818716185	8.816440641	-0.000372315	0.742110762
HN1L	5.881492179	5.759712514	-0.03018542	0.459173468
HNF1A	3.635892881	3.743247373	0.041980696	0.004045323
HNF1B	2.022823589	1.997101014	-0.018463201	0.538326006
HNF4A	2.016836689	2.038715993	0.015566544	0.493330679
HNF4G	1.908802258	1.860867211	-0.036692544	0.252432543
HNMT	4.576856199	4.430249204	-0.046969111	0.222334405
HNRNPA0	6.168056874	6.284478838	0.026977041	0.021567996
HNRNPA1	10.96745372	11.00048551	0.004338581	0.377972545
HNRNPA1L2	9.619174139	9.605863979	-0.001997656	0.679949183
HNRNPA2B1	7.492531132	7.530072056	0.007210497	0.484234772
HNRNPA3	8.553831331	8.515727	-0.00644106	0.295645938
HNRNPAB	4.704648868	4.884047986	0.053990324	0.102931503
HNRNPC	9.698487503	9.60725669	-0.013635239	0.031370262
HNRNPCL1	4.286529927	4.219586063	-0.022708737	0.218438031
HNRNPD	9.014216185	9.062740289	0.007745292	0.533779455
HNRNPF	8.857243384	8.830416014	-0.004376356	0.699262031
HNRNPH1	8.246664517	8.113425972	-0.023499483	0.002166619
HNRNPH2	8.602942106	8.645104972	0.007053353	0.391558727

HNRNPH3	7.946551821	7.796183613	-0.027560911	0.002797789
HNRNPK	8.824144781	8.937071437	0.018345694	0.010178665
HNRNPL	7.167663404	7.192371049	0.004964561	0.908282597
HNRNPM	10.10199094	10.13258501	0.004362626	0.950493758
HNRNPR	7.798670649	7.868930239	0.012939293	0.382096543
HNRNPU	7.325276662	7.295747345	-0.005827479	0.561803887
HNRNPUL1	6.023840225	6.133083282	0.025929037	0.003624714
HNRNPUL2	4.577369589	4.695270831	0.036689594	0.020156921
HNRPDL	8.334426709	8.405878268	0.012315598	0.223905956
HNRPLL	5.12938649	5.08536907	-0.012433798	0.472249701
HOMER1	6.839670907	7.027464873	0.039077426	0.044994659
HOMER2	4.166262695	4.329703415	0.055514395	0.058548584
HOMER3	10.84873558	10.97255368	0.016372423	0.264639189
HOMEZ	4.37692802	4.360570042	-0.005401913	0.621353731
HOOK1	5.180058159	5.465046394	0.077265448	0.109498381
HOOK2	5.85127504	5.8524575	0.000291519	0.895718719
HOOK3	4.069971762	4.037496056	-0.011557934	0.544721697
HOPX	6.28144145	6.307343817	0.005936914	0.882092103
HORMAD1	1.921132934	1.89041407	-0.023255078	0.273608011
HORMAD2	2.198653755	2.235577585	0.024027189	0.487256824

HOTAIR	1.859977225	1.858591444	-0.001075285	0.465896836
HOXA1	2.010360662	1.983006697	-0.019764797	0.845754894
HOXA10	1.931940682	1.948323535	0.01218247	0.979636644
HOXA11	1.854531464	1.895046331	0.031178376	0.796936319
HOXA11AS	1.955366371	2.012883458	0.041824699	0.177004436
HOXA13	1.950578894	1.975300986	0.018170149	0.475657306
HOXA2	1.899389073	1.872696359	-0.02041846	0.852782322
HOXA3	12.41560434	12.40571414	-0.001149701	0.990642752
HOXA4	2.070140457	2.086627451	0.011444386	0.839818293
HOXA5	2.158277172	2.089845944	-0.046483556	0.167042512
HOXA6	2.020440947	1.966479225	-0.03905524	0.472249437
HOXA7	2.028713874	1.933056662	-0.069681478	0.117519644
HOXA9	2.030187868	1.992950092	-0.026707654	0.515796608
HOXB1	1.941920656	1.95957831	0.013058973	0.948845983
HOXB13	2.06485445	2.078439824	0.009460888	0.527901663
HOXB2	3.010506364	2.904604958	-0.051664205	0.41959508
HOXB3	2.306261656	2.260354444	-0.029007185	0.43526134
HOXB4	2.492134225	2.477387486	-0.008562236	0.788959774
HOXB5	2.203349126	2.175243444	-0.018521241	0.839278983
HOXB6	2.620703623	2.596752944	-0.013245446	0.922512873

HOXB7	2.599610556	2.598607718	-0.000556648	0.750992595
HOXB8	1.885847404	1.857811099	-0.021609126	0.259068878
HOXB9	2.046284238	2.029275887	-0.012041538	0.742633094
HOXC10	1.92930057	1.928603465	-0.000521376	0.354202523
HOXC11	1.881721821	1.879935514	-0.001370192	0.918131534
HOXC12	1.885737457	1.891701908	0.004555939	0.993945432
HOXC13	1.937807106	1.944025915	0.004622483	0.790553372
HOXC4	1.90379345	1.91488481	0.008380645	0.637521122
HOXC5	1.969729775	2.00772131	0.027561302	0.500322081
HOXC6	1.870552623	1.89019112	0.015067562	0.947198227
HOXC8	2.023873921	2.032691359	0.006271757	0.995046249
HOXC9	2.018846583	2.105503303	0.060633858	0.152304646
HOXD1	2.008632848	2.02919607	0.01469439	0.650382275
HOXD10	1.965255881	1.952244035	-0.009583762	0.522952422
HOXD11	1.918381987	1.901556549	-0.012709174	0.75570769
HOXD12	1.943559238	1.864506127	-0.059907543	0.185104097
HOXD13	2.013611589	1.978083176	-0.025682334	0.749422846
HOXD3	1.960049709	1.906823197	-0.039719161	0.428391158
HOXD4	1.892081702	1.914394965	0.01691412	0.514460654
HOXD8	1.939190225	1.923397493	-0.011797388	0.841436464

HOXD9	2.155721391	2.104198951	-0.034899617	0.409337176
HP	6.64097947	6.831791282	0.040867861	0.185104411
HP1BP3	8.746333477	8.675436528	-0.011742003	0.053240106
HPCA	3.614900113	3.688964176	0.029259996	0.34814397
HPCAL1	7.65536406	7.615532085	-0.007526149	0.510462654
HPCAL4	2.467207762	2.624047915	0.088914855	0.064387458
HPD	2.58120857	2.753695592	0.093322365	0.061842588
HPDL	7.404326689	6.989667077	-0.08314481	0.188559036
HPGD	5.109183609	4.831418415	-0.080645983	0.242007033
HPN	3.180848166	3.295053549	0.050890403	0.022610383
HPR	3.054040868	3.19439731	0.064824394	0.406601614
HPRT1	7.559869013	7.810733155	0.047096736	0.098074668
HPS1	5.353714947	5.250894169	-0.027977208	0.195134534
HPS3	3.839037331	3.876805401	0.014123731	0.517134212
HPS4	7.878502272	7.866361817	-0.00222485	0.869585934
HPS5	5.954565649	6.001614915	0.011354478	0.782064413
HPS6	9.308823894	9.398858535	0.013886652	0.155289508
HPSE	2.186074861	2.230608423	0.029094468	0.264051178
HPSE2	1.970418457	1.946040535	-0.017960286	0.262873267
HPX	2.419613086	2.351620493	-0.041121113	0.332769991

HPX-2	2.194867682	2.12066293	-0.049618641	0.080450366
HR	5.953623596	6.012833796	0.014277067	0.552538336
HR44	1.910179934	1.909552204	-0.000474181	0.680456292
HRAS	6.982593497	7.061903789	0.01629418	0.147040565
HRASLS	6.823969861	7.067813254	0.050652647	0.05349669
HRASLS2	2.407335503	2.371344324	-0.02173206	0.551615989
HRASLS5	6.607010967	6.666734049	0.012982437	0.470126617
HRC	3.925304755	3.833823183	-0.034020866	0.284328368
HRCT1	3.558806437	3.453062014	-0.043517223	0.369454909
HRG	2.07026498	2.006799479	-0.044918966	0.314511093
HRH1	3.410583404	3.24724607	-0.07080183	0.147233256
HRH2	2.419652338	2.394973296	-0.014790202	0.596725878
HRH3	2.305661437	2.387159408	0.050114226	0.065087231
HRH4	1.865246477	1.900327923	0.02688211	0.685013259
HRK	7.543181086	7.545720528	0.000485607	0.691615114
HRSP12	6.310481338	6.470859648	0.036207333	0.05181261
HS1BP3	5.234567106	5.204531401	-0.008301959	0.825822809
HS2ST1	11.61356431	11.61913526	0.000691885	0.869041318
HS3ST1	5.821430603	5.852557127	0.007693376	0.662847573
HS3ST2	3.183108391	3.262241915	0.035427487	0.30400826

HS3ST3A1	2.454903384	2.510022577	0.032034095	0.336918729
HS3ST3B1	3.994805768	4.172505042	0.062788434	0.240345295
HS3ST4	3.542595013	3.885480415	0.133286443	0.03230602
HS3ST5	3.047715205	3.126336592	0.036745016	0.468432492
HS6ST1	7.459257497	7.49339681	0.006587821	0.871215518
HS6ST2	3.156717987	3.194698155	0.017254248	0.698241437
HS6ST3	4.071623444	4.182048246	0.038605563	0.722902241
HSAJ2425	5.665459927	5.757137352	0.023158552	0.066301333
HSBP1	9.611230609	9.558442077	-0.00794567	0.216121783
HSCB	4.938677616	4.905994563	-0.009579161	0.542890622
HSD11B1	6.573116834	6.438070817	-0.029949182	0.393851145
HSD11B1L	5.47287649	5.608744549	0.035378578	0.11384702
HSD11B2	2.439874722	2.325990718	-0.068961733	0.051895855
HSD17B1	5.28268098	5.304537669	0.005956726	0.74471981
HSD17B10	8.578850192	8.563802317	-0.002532805	0.847375403
HSD17B11	7.651944318	7.616501993	-0.006697808	0.745764342
HSD17B12	7.106238868	7.083878845	-0.004546646	0.539692937
HSD17B13	1.871666993	1.829527408	-0.032852745	0.175900557
HSD17B14	5.669395073	5.691528049	0.005621229	0.904456348
MT4	1.933778477	1.816454951	-0.090296951	0.009415274



HSD17B3	2.186966397	2.154748535	-0.021411541	0.826897437
HSD17B4	7.270709589	7.186775908	-0.01675147	0.184418963
HSD17B6	4.129398066	4.023133239	-0.03761198	0.400775618
HSD17B7	3.999500079	3.944462563	-0.019990935	0.293740424
HSD17B7P2	3.183919589	3.124154718	-0.027337999	0.857654266
HSD17B8	6.140085642	6.293010514	0.035491575	0.17261998
HSD3B1	1.958535311	1.925884676	-0.024253824	0.253291497
HSD3B2	2.038994914	2.028498958	-0.007445615	0.853323346
HSD3B7	2.687087536	2.604150754	-0.045230352	0.099909711
HSDL1	3.568524192	3.716487338	0.05861214	0.261112617
HSDL2	4.210028053	4.29946281	0.030326569	0.316506988
HSF1	10.20025205	10.17860996	-0.003064249	0.413259831
HSF2	6.462611927	6.490548246	0.006222984	0.915941786
HSF2BP	2.02785306	2.106685641	0.055021935	0.075445993
HSF4	5.391696556	5.367071993	-0.006604064	0.783124131
HSF5	1.95410653	1.92376007	-0.02258024	0.338657293
HSFX1	2.265774325	2.408597732	0.088189291	0.005550878
HSFY2	1.962060245	1.94452038	-0.012954985	0.320523133
HSH2D	3.173535755	3.033294197	-0.065205666	0.1060257
HSP90AA1	11.26263856	11.09976911	-0.021015188	0.454580369

HSP90AB1	8.384886384	8.234313845	-0.026142798	0.14588961
HSP90AB3P	7.280698377	7.102786218	-0.03569178	0.132969702
HSP90AB6P	1.972604331	1.941298655	-0.023079523	0.330708131
HSP90B1	11.78468704	11.4850697	-0.037153834	0.000683355
HSPA12A	8.081360093	8.21603812	0.023844756	0.291841394
HSPA12B	5.544063536	5.337572599	-0.054760004	0.289008781
HSPA13	6.051120285	6.129003303	0.018450219	0.160570793
HSPA14	5.537249907	5.587085676	0.012926309	0.148585275
ETV3L	1.891460543	1.776749824	-0.090260125	0.006090986
HSPA1L	3.594738411	3.435878958	-0.065207577	0.50032203
HSPA2	6.382156795	6.220718408	-0.036962851	0.061267135
HSPA4	9.464765821	9.429584803	-0.005372562	0.68907258
HSPA4L	3.573610854	3.476858817	-0.039598056	0.98348857
HSPA5	8.206262404	8.131201669	-0.01325671	0.585291637
HSPA6	5.877851159	5.373081324	-0.129539153	0.036534012
HSPA8	12.17129307	12.07725663	-0.011189666	0.463781635
HSPA9	6.872099159	6.856135401	-0.003355252	0.782064337
HSPB1	10.94872705	10.51236475	-0.058675905	0.001915882
HSPB11	8.006661424	8.034142035	0.004943166	0.478649469
HSPB2	8.275218616	8.009329465	-0.047115959	0.086477737

HSPB3	3.304817662	3.498780986	0.082281683	0.160570843
HSPB6	3.533485808	3.585935106	0.021257266	0.202365039
GAS2L3	2.801169728	2.631438077	-0.090177956	0.011873479
HSPB8	5.852492166	6.150940768	0.071755985	0.001383154
HSPB9	3.131745238	3.045098585	-0.040477921	0.176783269
HSPBAP1	5.854544828	5.705157768	-0.037290228	0.002520641
HSPBP1	7.840883219	7.912785007	0.013169387	0.104542717
HSPC072	2.074150993	2.084734063	0.007342437	0.788428697
HSPC152	11.07359667	10.99569927	-0.010184525	0.051807051
HSPC157	4.683748907	4.701926401	0.005588221	0.705402574
HSPC159	8.804703901	8.97562693	0.027738224	0.261991607
HSPD1	10.38791414	10.17974453	-0.029204639	0.022365146
HSPD1P5	1.987211358	1.936330944	-0.037419776	0.462528363
HSPD1P6	6.196326424	6.069179824	-0.029911581	0.547015112
HSPE1	11.60731497	11.38434661	-0.027982792	0.017870693
HSPG2	2.851754623	2.700093099	-0.078840699	0.016241796
HSPH1	9.166040682	8.679412655	-0.078701272	0.021489529
HTATIP2	4.606642152	4.340699451	-0.085787998	0.012961009
HTATSF1	10.3064175	10.25988156	-0.006528865	0.606811458
HTN1	1.910126159	1.915129465	0.003773995	0.984038865

HTRN3	1.953559821	1.894443817	-0.044331079	0.267310031
HTR1A	2.043855854	1.943590993	-0.0725688	0.011506781
HTR1B	2.219112252	2.198568317	-0.013418284	0.445067627
HTR1D	2.051168199	2.0263655	-0.01755138	0.878282658
HTR1E	2.336176808	2.484468289	0.088787662	0.063398597
HTR1F	2.131042132	2.270437993	0.09141152	0.021725602
HTR2A	2.554649159	2.682356641	0.070375895	0.116874519
HTR2B	3.02006645	2.888077176	-0.064470999	0.344258866
HTR2C	2.031636046	2.064291458	0.023004703	0.333114449
HTR3A	2.652782848	2.587388296	-0.036010005	0.444245705
HTR3B	1.906354775	1.89046969	-0.012071913	0.752563146
HTR3C	1.982026503	1.919254401	-0.046430297	0.211548975
HTR3D	1.931770351	1.902602317	-0.021949557	0.840357508
HTR3E	2.080063404	2.055344901	-0.017246996	0.690598221
HTR4	2.488840079	2.509597042	0.011982201	0.585292084
HTR5A	3.000215795	3.222773056	0.103236327	0.078675014
HTR6	2.03393496	1.955689437	-0.056596258	0.144176839
HTR7	3.749349404	3.673535669	-0.029470995	0.461688493
HTR7P	3.442699232	3.352013908	-0.038512012	0.277252036
HTRA1	11.79895283	12.01833617	0.026578357	0.024780524

HTRA2	7.16741698	7.138574606	-0.005817256	0.579613454
HTRA3	6.063964735	5.812525183	-0.061096302	0.328654671
HTRA4	3.704146609	3.591647592	-0.0444954	0.466741224
HTT	6.614722934	6.620084915	0.001168994	0.87284539
HUMBINDC	2.059542159	2.02879643	-0.021699547	0.716708705
HUNK	2.122070272	2.079569268	-0.029187691	0.257036588
OGT	5.957259245	5.596905775	-0.090019283	0.001576599
HUS1B	2.82952243	2.742737275	-0.04494214	0.187402373
HUWE1	5.695005086	5.752183585	0.014412591	0.115432151
HVCN1	3.932944046	3.877237211	-0.020580659	0.710020217
HYAL1	4.440337583	4.367418014	-0.023888743	0.573491123
HYAL2	8.243793854	8.104441113	-0.024595729	0.591472656
HYAL3	4.21340906	4.212122965	-0.000440433	0.99339503
HYAL4	1.982155424	1.899993754	-0.061075415	0.134939381
HYDIN	2.512041901	2.611869739	0.056222419	0.111190987
HYI	8.536095146	8.510847246	-0.004273499	0.638998941
HYLS1	3.608493536	3.659097627	0.020091238	0.528352614
HYOU1	3.895690596	3.827693782	-0.025403682	0.427587138
HYPK	11.15631168	11.11751008	-0.005026432	0.223636936
IAH1	8.844622225	8.854135683	0.001550959	0.732225713

IAPP	2.500622046	2.386445528	-0.067423613	0.141169674
IARS	7.799164695	7.797591127	-0.000291109	0.746286462
IARS2	7.61004802	7.656055725	0.008695773	0.216636251
SRrp35	3.499008093	3.724281282	0.090016037	0.013163334
IBTK	7.39664194	7.462811239	0.012848757	0.092329677
ICA1	4.900384377	4.881989359	-0.005425766	0.860363271
ICA1L	3.426160993	3.617237648	0.07829544	0.018106917
ICAM1	6.297481252	6.561160014	0.059175984	0.311863468
ICAM2	9.248514987	8.842857113	-0.064709157	0.078674159
ICAM3	6.355351364	6.177170606	-0.041025712	0.296923873
ICAM4	2.33355798	2.251977887	-0.051338652	0.053071548
ICAM5	2.690645993	2.734711239	0.023435917	0.436480052
ICK	6.689390589	6.69901838	0.002074924	0.979086422
ICMT	4.476226311	4.627953	0.048091234	0.086604634
ICOS	2.25726206	2.221944479	-0.022751152	0.620866852
ICOSLG	3.382310139	3.343876979	-0.016487181	0.81616575
ICT1	9.298232305	9.332878092	0.005365581	0.236497332
ID1	10.89234791	10.44536801	-0.060451647	0.03309234
ID2	8.074690152	7.965470852	-0.019647256	0.264937325
ID3	8.489027139	8.294198592	-0.033496637	0.182148276

<b>ID4</b>	6.733505377	6.816536592	0.017681159	0.303359346
<b>IDE</b>	6.108263543	6.211407359	0.024157877	0.012835959
<b>IDH1</b>	7.743567384	7.793256296	0.009227908	0.590519828
<b>IDH2</b>	5.874583232	5.927008951	0.012817732	0.638999741
<b>IDH3A</b>	5.129180033	5.205784683	0.021387431	0.314843291
<b>IDH3B</b>	8.218692576	8.252995169	0.006008887	0.23323667
<b>IDH3G</b>	7.801865086	7.861183634	0.0109275	0.304332514
<b>IDI1</b>	8.002713358	8.147054324	0.025789293	0.047718242
<b>IDI2</b>	5.424768808	5.430456859	0.001511921	0.599599884
<b>IDO1</b>	4.069773132	4.017921866	-0.018498865	0.491156967
<b>IDO2</b>	2.033724099	1.977655549	-0.0403328	0.346021207
<b>IDS</b>	5.275214377	5.292378239	0.004686449	0.401549156
<b>IDUA</b>	4.267529556	4.236387486	-0.010566592	0.947198221
<b>IER2</b>	11.74177352	11.58655366	-0.019198824	0.064684522
<b>IER3</b>	7.763761675	7.891040077	0.023459635	0.567867008
<b>IER3IP1</b>	6.249845808	6.206375831	-0.010069534	0.369454738
<b>IER5</b>	9.676908517	9.564802366	-0.016811064	0.100906751
<b>IER5L</b>	8.47493657	8.373249697	-0.017414922	0.463789792
<b>IFFO1</b>	9.537199113	9.49147407	-0.006933475	0.629169098
<b>IFFO2</b>	7.698540576	7.69375319	-0.000897428	0.886993828

<b>IFI16</b>	7.563291192	7.407729042	-0.029982836	0.319515771
<b>IFI27</b>	9.785082483	9.679088606	-0.015712804	0.30759106
<b>IFI27L1</b>	9.19503902	9.321111317	0.019646275	0.061075976
<b>IFI27L2</b>	11.01642764	11.07822686	0.008070519	0.318506961
<b>IFI30</b>	8.929394596	8.810851141	-0.019280973	0.646412967
<b>IFI35</b>	5.064436887	4.949385127	-0.033152558	0.601519929
<b>IFI44</b>	6.053228636	5.750299225	-0.074067813	0.219472439
<b>IFI44L</b>	5.316634781	5.007343711	-0.086467878	0.123959488
<b>IFI6</b>	7.813080583	7.810199725	-0.000532052	0.94555071
<b>IFIH1</b>	5.715761106	5.693680211	-0.005584154	0.78789789
<b>IFIT1</b>	8.452377126	8.405703831	-0.007988513	0.873932313
<b>IFIT2</b>	5.474736404	5.381533803	-0.024772087	0.333804229
<b>IFIT3</b>	4.216216947	4.357536915	0.047563783	0.358880706
<b>IFIT5</b>	6.470665417	6.467942817	-0.000607157	0.798534258
<b>IFITM1</b>	11.45618645	11.28238983	-0.022054187	0.368344159
<b>IFITM2</b>	11.49778152	11.43210912	-0.00826393	0.790550737
<b>IFITM3</b>	12.51105846	12.43582807	-0.008701273	0.696167124
<b>IFITM4P</b>	9.982478146	9.947045831	-0.005129885	0.966434113
<b>IFITM5</b>	11.52990403	11.50856461	-0.002672598	0.893534674
<b>IFLTD1</b>	1.841864053	1.851326592	0.007392842	0.843595063



IFNA10	1.924757901	1.849697063	-0.057387982	0.036595815
IFNA16	1.922705404	1.873129479	-0.037687102	0.308246651
IFNA2	1.906520344	1.901396732	-0.00388234	0.646909197
IFNA21	1.951278788	1.888287775	-0.047341269	0.39653529
IFNA4	2.481141662	2.568681162	0.050023717	0.029830239
IFNA5	1.967562669	1.964796394	-0.002029769	0.938414149
IFNA6	1.879309219	1.873996824	-0.004083957	0.599120534
IFNA8	1.913859927	1.921850268	0.006010695	0.499445215
IFNAR1	5.007641212	5.103769162	0.027431879	0.290895296
IFNAR2	2.564631285	2.561156859	-0.001955811	0.706427832
IFNB1	1.914330464	1.898672056	-0.011849157	0.964234633
IFNE	1.961776073	1.975176028	0.009820858	0.941707356
IFNG	2.111054265	2.060530127	-0.034948107	0.1523045
IFNGR1	9.331200166	9.161675303	-0.026451217	0.025912018
IFNGR2	5.812697007	5.719185563	-0.023397993	0.319851482
IFNK	1.907700517	2.017937141	0.08104653	0.04694816
IFNW1	1.821007437	1.916691373	0.073881238	0.031046834
IFRD1	6.07472	5.865620472	-0.050534186	0.000107584
IFRD2	6.710736947	6.636561218	-0.016035314	0.423580079
IFRG15	3.043943437	3.082627303	0.018218924	0.580558073

IFT122	7.15980549	7.161210092	0.000282998	0.938962959
IFT140	6.258556079	6.289683007	0.007157459	0.531063321
IFT172	9.548565146	9.553122754	0.000688446	0.965334311
IFT20	6.23992755	6.190836	-0.011395037	0.2459154
IFT52	2.764959245	2.764251718	-0.000369219	0.687042054
IFT57	7.993499278	8.013356662	0.003579487	0.749945693
IFT74	4.299491225	4.347927704	0.016162002	0.480793662
IFT80	4.552703232	4.557424465	0.001495325	0.882636502
IFT81	2.506526768	2.53297719	0.015144444	0.678434815
IFT88	5.53195053	5.564914627	0.0085713	0.691106895
IGBP1	7.652083682	7.620055268	-0.006051189	0.498568704
IGDCC3	3.616051755	3.647583338	0.012525614	0.784714487
IGDCC4	3.610216947	3.659696303	0.019638398	0.465896995
IGF1	4.327512503	4.416056162	0.029220532	0.352056717
IGF1R	6.814755874	6.875244725	0.012749091	0.348498135
IGF2	9.896342623	9.557170732	-0.050311857	0.20555716
IGF2AS	4.199524	3.90228731	-0.105905811	0.031643834
IGF2BP1	2.178578285	2.09617693	-0.055626462	0.4591732
IGF2BP2	5.022437	5.027833887	0.001549424	0.849537484
IGF2BP3	3.512518464	3.52668143	0.005805452	0.910470149

IGF2R	6.098969702	6.096055289	-0.000689561	0.659347693
IGFALS	4.828998358	5.222629451	0.113052374	0.022043886
IGFBP1	2.002387702	1.878489662	-0.092148159	0.032361719
IGFBP2	9.541140596	9.59880057	0.0086924	0.495072582
IGFBP3	5.650507768	5.625464676	-0.006408246	0.784184327
IGFBP4	5.298803212	5.221192979	-0.021287067	0.749946067
IGFBP5	8.97726447	8.897454077	-0.012883316	0.427988404
IGFBP6	8.578908391	8.399207394	-0.030540894	0.719286652
IGFBP7	11.35250286	11.04647822	-0.03942391	0.216619534
IGFBPL1	2.132112079	2.169944239	0.025374692	0.16577489
IGFL2	2.129348318	2.185012451	0.037229536	0.225751203
IGFN1	2.271880219	2.276536725	0.00295396	0.897902
IGH@	9.415427543	9.485062162	0.010630621	0.669366532
IGHA1	4.331698536	4.448516662	0.038391514	0.782064463
IGHD	2.116324179	2.094546852	-0.014922481	0.640973225
IGHG1	2.917647464	3.234238021	0.148620282	0.028106866
IGHM	7.790475099	7.915186641	0.022912056	0.775714687
IGHMBP2	3.753612272	3.698085937	-0.021500884	0.610192258
IGHV1-69	2.638076132	2.724604549	0.046560651	0.621353939
IGJ	5.130529523	5.341820676	0.058223811	0.736903445

IGK@	4.719178874	4.928024634	0.062473612	0.544264001
IGKC	3.904521397	4.065077056	0.058136981	0.468432545
IGKV1-5	3.691265411	4.030510838	0.126847227	0.184647499
IGKV1D-8	2.208142682	2.189267761	-0.012384981	0.934573457
IGKV2-24	2.461779192	2.514944423	0.030825153	0.78312403
IGLL1	6.413071305	6.465961028	0.011849364	0.897356128
IGLL3	7.286183364	7.374138972	0.017311303	0.792679482
IGLON5	4.224601358	4.502030958	0.091760765	0.024386868
IGLV6-57	3.115082629	3.093573951	-0.009995911	0.623304068
IGSF1	3.312534947	3.340549049	0.012149567	0.894081854
IGSF10	2.054597338	1.97592393	-0.056328274	0.153891686
IGSF11	3.894739126	3.995228683	0.036751386	0.226280293
IGSF2	1.998676788	1.984644331	-0.010164704	0.756756858
IGSF21	9.60112645	9.827244662	0.033583294	0.122782925
IGSF22	3.073164623	3.046396852	-0.012621158	0.420390112
IGSF3	5.456330675	5.541820254	0.022428838	0.260819941
IGSF5	2.534492914	2.467271782	-0.038780486	0.484234772
IGSF6	3.258100854	3.118828444	-0.063027066	0.335878742
IGSF8	5.659569709	5.652782169	-0.001731267	0.895173056
IGSF9	9.703639411	9.767745056	0.009499605	0.493329545

IK	9.582380536	9.593220669	0.001631136	0.954339876
IKBKAP	8.00527747	7.928642493	-0.013877534	0.332081765
IKBKB	5.472599093	5.362121486	-0.029422267	0.021450536
IKBKE	2.34557755	2.375659775	0.018385038	0.894081854
IKBKG	5.656286728	5.656052592	-5.97E-05	0.831199276
IKIP	3.444345457	3.355853106	-0.037550281	0.365056263
IKZF1	2.615891788	2.490971908	-0.07059411	0.116392166
IKZF2	4.708720238	4.705208866	-0.001076243	0.951043342
IKZF3	1.96505496	1.887362042	-0.05819847	0.111655998
IKZF4	4.909701563	4.982634683	0.02127347	0.193948085
IKZF5	5.105615457	5.082791556	-0.006463814	0.666354905
IL10	2.472325921	2.438280401	-0.020004898	0.586715557
IL10RA	5.851002517	5.689631366	-0.040348656	0.183735552
IL10RB	5.35368106	5.333480289	-0.005453943	0.655356712
IL11	3.54719004	3.433219507	-0.047114524	0.088136841
IL11RA	8.028814119	7.85670757	-0.031262049	0.053071378
IL12A	1.948406728	1.872365134	-0.057433065	0.182600913
IL12B	1.922747788	1.894264958	-0.021531393	0.647900675
IL12RB1	2.40941147	2.398993458	-0.006251569	0.371666851
IL12RB2	2.55134255	2.41972919	-0.076411018	0.057544003

IL13	2.029448344	1.957032648	-0.052419796	0.351699856
IL13RA1	8.81325157	8.882522775	0.011295096	0.975785168
IL13RA2	2.866497384	2.815505732	-0.025894874	0.41208433
IL15	6.725841768	6.652902352	-0.01573098	0.493330731
IL15RA	4.769551934	4.592588754	-0.054546139	0.450017874
IL16	3.239943841	3.100239049	-0.063589345	0.114796314
IL17A	2.042037437	2.085562697	0.030427368	0.495509793
IL17B	2.399452278	2.546538085	0.085832173	0.093537752
IL17C	2.014774325	1.999245415	-0.011162671	0.871215534
IL17D	6.915800623	6.761799268	-0.032489089	0.122449294
IL17F	2.001138609	2.085906458	0.059853363	0.029519588
IL17RA	6.547758781	6.482705662	-0.014405103	0.632603309
IL17RB	2.879558265	2.902434655	0.011416073	0.750469087
IL17RC	4.870716483	5.022834493	0.044367729	0.156497129
IL17RD	3.447562556	3.392154021	-0.023375053	0.632603471
IL17RE	3.654360152	3.758195683	0.040421363	0.040679271
IL18	3.344770623	3.271702408	-0.031865749	0.46927937
IL18BP	4.098720762	4.027778155	-0.025189481	0.407772771
IL18R1	3.541584159	3.409292697	-0.054922361	0.253005104
IL18RAP	4.432945258	4.133562338	-0.100879903	0.168957711

IL19	1.965792424	1.972522056	0.004930443	0.750992509
IL1A	1.930443411	1.914268275	-0.012139233	0.184190951
IL1B	3.790035768	4.121389739	0.120919435	0.290580236
IL1F10	2.26868355	2.256331634	-0.007876257	0.481223326
IL1F5	1.967973053	1.943295535	-0.018205145	0.449190493
IL1F6	2.013368914	2.076681669	0.04466854	0.123790775
IL1F7	2.180107609	2.162441627	-0.011738159	0.834967674
IL1F8	1.942683728	1.898150479	-0.033456679	0.753610875
IL1F9	1.983745808	1.973054197	-0.007796589	0.781534655
IL1R1	4.011898722	3.816191289	-0.072151697	0.180571193
IL1R2	5.464957225	5.383599563	-0.021639099	0.806002349
IL1RAP	3.264041689	3.226290254	-0.016783247	0.243955747
IL1RAPL1	2.299470146	2.296092394	-0.00212077	0.863616329
IL1RAPL2	1.965103583	1.983853718	0.01370029	0.660346875
IL1RL1	3.708513987	3.894860718	0.070730528	0.599600145
IL1RL2	2.093086589	2.094510796	0.000981324	0.710020151
IL1RN	2.238737921	2.239960704	0.000787775	0.903909822
IL2	1.891220132	1.904395113	0.010015533	0.881003345
IL20	1.919201053	1.933821021	0.010948422	0.470550981
MEGF10	3.592152305	3.824315401	0.090352991	0.013947061

<b>IL20RB</b>	3.271493046	3.195109648	-0.034083763	0.559945193
<b>IL21</b>	2.00397606	2.049989444	0.032751207	0.406991516
<b>IL21R</b>	3.814700728	3.638558972	-0.068202686	0.12771165
<b>IL22</b>	1.918793119	1.862868338	-0.042673459	0.190420945
<b>ABHD12B</b>	4.459245219	4.747780282	0.090453634	0.018618778
<b>IL22RA2</b>	2.070109974	2.113321542	0.029804878	0.26052772
<b>IL23A</b>	3.094115742	3.143770408	0.022968696	0.280313823
<b>IL23R</b>	1.951220093	2.008059979	0.041425842	0.287130469
<b>IL24</b>	1.990970113	1.953795099	-0.02719239	0.175240708
<b>IL25</b>	2.025084695	2.029943077	0.003457025	0.590996021
<b>IL26</b>	2.197620245	2.276132732	0.050642585	0.178781302
<b>IL27</b>	4.676260199	4.652070183	-0.007482345	0.603442307
<b>IL27RA</b>	4.252961159	4.130762162	-0.042059683	0.359241745
<b>IL28A</b>	2.664995536	2.719715648	0.029322706	0.079381177
<b>IL28B</b>	1.933128954	1.943663718	0.007840755	0.629660333
<b>IL28RA</b>	3.812211689	4.012049937	0.07371133	0.008122073
<b>IL29</b>	2.11609151	2.085962359	-0.020688893	0.655356828
<b>IL2RA</b>	3.416460808	3.360531944	-0.02381296	0.72135216
<b>IL2RB</b>	3.271386503	2.991879035	-0.128850372	0.06569205
<b>IL2RG</b>	2.301430477	2.289653296	-0.007401702	0.660346951



IL3	1.935490563	1.93686788	0.001026273	0.825285536
IL31	1.895867576	1.907752613	0.009015905	0.37574304
IL31RA	1.932563338	1.971440979	0.028734822	0.354561102
IL32	4.457113907	4.362423324	-0.030980057	0.470550981
IL33	6.528662364	6.485421951	-0.009586992	0.840896986
IL34	3.207111311	3.25487262	0.021326657	0.396535177
IL3RA	5.762597371	5.53095381	-0.059190929	0.080809327
IL4	1.997447232	1.928974972	-0.050322966	0.000407036
IL4I1	4.807012523	5.101597261	0.08580845	0.056375191
IL4R	9.11577147	8.868219394	-0.039720295	0.245073172
IL5	1.939398768	1.965893894	0.019575984	0.684506344
IL5RA	1.997134788	1.953394423	-0.031948422	0.257036815
IL6	5.317470755	5.503559479	0.049624803	0.774657865
IL6R	5.421942623	5.271501451	-0.040595911	0.351343281
IL6ST	6.085126517	6.057578831	-0.006545984	0.606813131
IL7	2.887774808	2.922481662	0.017235729	0.551616178
IL7R	5.648031523	5.129498345	-0.138930401	0.106623284
IL8	2.13550253	2.196349331	0.040531927	0.573021306
IL8RA	2.540759907	2.399660063	-0.082430005	0.023824471
IL8RB	2.808686934	2.714013768	-0.049467786	0.183963199

IL8RBP	2.542956781	2.397534585	-0.084955317	0.044480704
IL9	1.913681132	1.939412472	0.019269206	0.456248845
IL9R	2.502014053	2.537115451	0.020099278	0.560409657
ILDRI	10.34242639	10.27246051	-0.009792906	0.286814426
ILF2	9.195795192	9.156970563	-0.00610395	0.413656251
ILF3	7.806280629	7.819255739	0.002395967	0.90063208
ILK	7.568502768	7.481118613	-0.016753924	0.07879209
ILKAP	5.171602669	5.062954697	-0.030631863	0.033378836
ILVBL	8.433554404	8.451405697	0.003050523	0.928541043
IMMP1L	4.897794046	5.039392549	0.041117732	0.057453297
IMMP2L	5.401783868	5.4292205	0.007309161	0.551615989
IMMT	8.909856762	8.951342141	0.006701774	0.350628465
IMP3	8.310951219	8.269450042	-0.007222222	0.60296114
IMP4	5.933298576	6.001781021	0.016556298	0.347435234
IMP5	1.935266623	1.93354119	-0.001286842	0.885904113
IMPA1	6.856075318	7.011367789	0.032312957	0.009209318
IMPA2	7.795498781	7.786405641	-0.001683829	0.949944597
IMPACT	4.879668252	4.910725535	0.009153123	0.756756717
IMPAD1	4.980094576	5.057075697	0.022130233	0.038494384
IMPDH1	10.09408409	10.21675659	0.017427262	0.400773877

IMPDH2	6.276824185	6.258403296	-0.00424017	0.437700948
IMPG1	5.54713396	5.612278556	0.01684405	0.954340061
IMPG2	4.676184901	4.89322888	0.06545479	0.25645798
INA	7.936764722	8.194239472	0.046059017	0.616489273
INADL	2.81755055	2.890825901	0.037040232	0.100336897
INCENP	4.693627556	4.833062056	0.042234152	0.021450551
INE1	5.514861868	5.443588866	-0.018766641	0.266418538
INF2	5.775018795	5.732522141	-0.01065562	0.464632057
ING1	5.324473126	5.233095493	-0.024974188	0.057092049
ING2	6.934887411	6.932922655	-0.000408795	0.847375457
ING3	7.531821205	7.497809218	-0.006529636	0.534688393
ING4	6.600942596	6.480813113	-0.02649722	0.026942432
ING5	5.127992788	5.033865993	-0.026727422	0.024960475
INGX	2.03947394	1.960649627	-0.056865328	0.505158787
INHA	2.446414278	2.479947275	0.019640716	0.518920957
INHBA	5.96447357	5.973295965	0.002132396	0.952691598
INHBB	5.559791172	5.717646007	0.040390606	0.223381943
INHBC	2.750049735	2.756594254	0.003429221	0.95763754
INHBE	2.184665589	2.226985873	0.027679946	0.234592717
INMT	2.619010219	2.500282542	-0.066930554	0.232697113

IN080	5.734356675	5.724834324	-0.0023977	0.764112615
IN080B	2.486148954	2.535974817	0.028627683	0.333459195
IN080C	4.909904411	4.9754525	0.019132802	0.273608011
IN080D	2.68792047	2.657661331	-0.016333181	0.508691636
IN080E	6.751796801	6.676194542	-0.016245491	0.048185288
INPP1	4.671529947	4.792614155	0.036917679	0.385864727
INPP4A	3.388486861	3.433562592	0.019065086	0.744198219
INPP4B	4.655330272	4.457282155	-0.062719234	0.028057411
INPP5A	5.561148225	5.610236239	0.012678731	0.690089687
INPP5B	2.806550907	2.713321134	-0.048738421	0.066301333
INPP5D	5.978047179	5.689648993	-0.071334631	0.084222602
INPP5E	7.040330695	7.02362588	-0.003427196	0.83766162
INPP5F	5.46777106	5.609731627	0.036978916	0.334840422
INPP5J	3.530814921	3.707299563	0.070367496	0.07973633
INPP5K	10.52624422	10.53118458	0.000676952	0.885359017
INPLL1	7.084292828	7.098358711	0.002861635	0.742111592
INS	2.249985702	2.1749965	-0.048902754	0.146656289
INSIG1	7.491347331	7.761032458	0.051023375	0.006194134
INSIG2	4.899282225	4.881363549	-0.005286198	0.603442134
INSL3	3.055045265	3.043328451	-0.005543711	0.840897005

INSL4	1.97140002	1.932307423	-0.028895906	0.802799524
INSL5	2.05306598	2.097565711	0.030936015	0.261112446
INSL6	1.906233874	1.836213838	-0.053991054	0.295647494
INSM1	2.322118417	2.350567401	0.017567505	0.526099185
INSM2	2.834048503	3.025076979	0.094107406	0.156699081
INSR	5.358618351	5.413979732	0.014828418	0.587665771
INSRR	1.99879753	1.973893042	-0.018088522	0.569270364
INTS1	2.396238556	2.437891211	0.024862206	0.265825519
INTS10	9.087687444	9.098914275	0.00178119	0.989542267
INTS12	4.978559887	5.021866507	0.012495194	0.349563503
INTS2	2.629797682	2.614377979	-0.008484076	0.880459128
INTS3	5.478719066	5.316307873	-0.043413973	0.001262547
INTS4	5.391527007	5.369942782	-0.00578722	0.532420875
INTS5	3.246729232	3.29926719	0.023158546	0.112278399
INTS6	5.314816589	5.289135521	-0.006987965	0.280313422
INTS7	3.563997033	3.484023535	-0.032741766	0.468009238
INTS8	4.719273722	4.592029352	-0.039432988	0.025728574
INTS9	8.110093278	8.049653387	-0.010791845	0.017119796
INTU	5.736232543	5.610351211	-0.032012424	0.255591793
INVS	5.05939945	4.984311627	-0.021571877	0.349563446

IP6K1	4.476628159	4.471819697	-0.001550469	0.808139304
IP6K2	6.545209351	6.536083993	-0.002012815	0.742111562
IP6K3	3.885540099	3.874066408	-0.004266466	0.892445428
IPMK	2.46502596	2.505101451	0.02326619	0.449190439
IP011	2.767539099	2.718283528	-0.025907756	0.398459038
IP013	4.548259536	4.64578493	0.030607787	0.114637667
IP04	5.349665391	5.365647415	0.004303599	0.843595119
IP05	6.559462411	6.515140648	-0.009781258	0.280313307
IP07	5.509676715	5.528997556	0.005050264	0.731707141
IP08	3.349529642	3.36293193	0.005761058	0.624279899
IP09	5.503846927	5.600346627	0.025075777	0.120293558
IPP	5.461941768	5.547975239	0.022547416	0.289322521
IPPK	4.753115523	4.647737908	-0.032344751	0.021646667
IPW	4.762242828	4.68516969	-0.023539885	0.245915625
IQCA1	5.495658576	5.60332607	0.027991071	0.25559168
IQCB1	5.876322748	5.797683317	-0.019437104	0.085720805
IQCC	3.397673768	3.470323669	0.030522889	0.244514686
IQCD	5.024427722	5.079098923	0.015613289	0.506040633
IQCE	6.332245464	6.292954099	-0.008979761	0.695690193
IQCF1	2.001633503	2.003581683	0.001403485	0.911017164

<b>IQCF2</b>	2.009813517	1.982157915	-0.019989741	0.489421244
<b>IQCF3</b>	2.035160934	2.082219	0.032978931	0.809742995
<b>IQCF5</b>	1.823267305	1.834298451	0.008702306	0.90390989
<b>IQCF6</b>	1.991377656	1.918880937	-0.05350165	0.17656205
<b>IQCG</b>	3.501183695	3.637003049	0.054907378	0.133683336
<b>IQCH</b>	2.531065046	2.609287458	0.043911306	0.114479323
<b>IQCK</b>	6.948994728	6.997877725	0.01011317	0.445478669
<b>IQGAP1</b>	5.028031444	4.87366843	-0.044985568	0.346021379
<b>IQGAP2</b>	6.51041606	6.488439697	-0.004878155	0.859821417
<b>IQGAP3</b>	3.910137755	3.856247852	-0.020021654	0.502517353
<b>IQSEC1</b>	5.941798046	6.105011352	0.039094407	0.191357093
<b>IQSEC2</b>	7.267643185	7.281967197	0.002840652	0.795339158
<b>IQSEC3</b>	2.16443551	2.174084648	0.006417297	0.848996773
<b>IQUB</b>	2.613312861	2.708464563	0.051595363	0.152898332
<b>IQWD1</b>	4.839974901	4.767684246	-0.021710874	0.169385527
<b>IRAK1</b>	5.59534753	5.685450169	0.023046844	0.15954514
<b>IRAK1BP1</b>	4.442285709	4.469844852	0.008922573	0.917584024
<b>IRAK2</b>	2.078975669	2.047163296	-0.022246688	0.57819797
<b>IRAK3</b>	3.788810245	3.567296275	-0.086913846	0.09034505
<b>IRAK4</b>	4.115744305	4.154118817	0.013389125	0.238691612

IREB2	3.113509384	3.103386937	-0.004698041	0.945001551
IRF1	4.506020497	4.515786324	0.003123347	0.806002395
IRF2	4.550951291	4.493422211	-0.018353518	0.321532336
IRF2BP1	5.43080357	5.46268043	0.008443345	0.439331862
IRF2BP2	10.05157972	9.977791127	-0.010629882	0.373514258
IRF3	6.790680358	6.606410338	-0.039689544	0.002176676
IRF4	3.089301828	2.960223359	-0.061574794	0.28869504
IRF5	5.014370192	4.942717042	-0.020764191	0.618920045
MYO5C	3.641667325	3.877587296	0.090560126	0.013681347
IRF7	7.69101955	7.618527669	-0.013662646	0.658349043
IRF8	2.367506967	2.337673859	-0.018295005	0.827972471
IRF9	5.538063947	5.503821937	-0.008947917	0.793743117
IRGC	2.207498483	2.226576148	0.012414505	0.694161193
IRS1	4.486643848	4.481803803	-0.001557172	0.825822748
IRS2	7.091063722	7.099448387	0.001704874	0.703353663
IRS4	1.858694887	1.89294331	0.02634124	0.274213112
IRX1	2.932758735	2.866985028	-0.032724021	0.44014879
IRX2	7.062954172	6.87172262	-0.039599933	0.268502046
IRX3	7.095902437	6.95558019	-0.028815314	0.175460589
IRX4	4.155066013	4.158525725	0.001200759	0.917584014



IRX5	7.463240709	7.400623106	-0.012155472	0.701307207
IRX6	2.673344768	2.632554	-0.022182782	0.200418143
ISCA1	4.113404099	4.146374225	0.011517522	0.430001945
ISCA2	8.783869099	8.817256634	0.005473296	0.566930848
ISCU	10.2215014	10.07719954	-0.020512355	0.019862021
ISG15	7.619778152	7.404383732	-0.04136933	0.293106514
ISG20	8.441773583	8.310347908	-0.022637259	0.70181839
ISG20L2	5.626357066	5.579223063	-0.01213688	0.446714016
ISL1	3.825449285	4.229454458	0.14484239	0.06174636
ISL2	2.281290781	2.274687887	-0.004181744	0.769907213
ISLR	8.059909417	7.891990549	-0.030374396	0.187863997
ISLR2	5.790452934	5.757416042	-0.008254733	0.680962317
S100A2	3.198224861	3.405417239	0.090560196	0.014603388
ISM2	2.480507325	2.391492352	-0.05272404	0.114320848
ISOC1	6.538764887	6.588142387	0.010853586	0.598162184
ISOC2	8.02707255	8.111312725	0.01506148	0.373515626
ISX	1.882921815	1.849839056	-0.02557334	0.321868852
ISY1	5.096559669	5.153326141	0.015980187	0.519368054
ISYNA1	6.279679815	6.05886069	-0.051644467	0.196804524
ITCH	5.196917662	5.378987669	0.04967848	0.003498797

ITFG1	6.448871033	6.513121768	0.014302581	0.025139414
ITFG2	4.971041762	4.840304176	-0.038450511	0.003158552
ITFG3	8.138591166	8.103933	-0.006156831	0.947747398
ITGA1	5.03036304	4.732871592	-0.087946742	0.332769933
ITGA10	3.069375563	3.076347908	0.003273487	0.779946217
ITGA11	3.605880371	3.571805923	-0.013697842	0.601999972
ITGA2	2.942246623	2.993717585	0.02501995	0.531063321
ITGA2B	2.635288636	2.552224049	-0.046206002	0.019572101
ITGA3	4.243139464	4.330336007	0.029346875	0.120129066
ITGA4	2.66394357	2.678452817	0.00783636	0.703353865
ITGA5	3.916365483	3.628332613	-0.110208691	0.026516941
ITGA6	6.891319689	6.826327204	-0.013670717	0.991193449
ITGA7	9.000311629	8.979712739	-0.003305661	0.88917375
ITGA8	5.096119993	4.796579049	-0.087393414	0.223906951
ITGA9	3.786644073	3.608827317	-0.069389709	0.110881745
ITGAD	2.019740795	2.043914472	0.017164672	0.776243216
ITGAE	5.458790185	5.397897035	-0.016183789	0.346374398
ITGAL	2.859899424	2.759570542	-0.051520646	0.180796031
ITGAM	4.157508159	3.846340077	-0.112232769	0.023867391
ITGAV	9.514361728	9.553570451	0.005933135	0.559944538

ITGAX	3.602047411	3.522042923	-0.032404679	0.677930015
ITGB1	8.808389185	8.591669275	-0.035939754	0.390795806
ITGB1BP1	8.403817735	8.132899831	-0.047275028	0.000651443
HABP2	1.985667914	2.114641021	0.090788409	0.016960183
FER1L4	4.425694848	4.714471739	0.091192144	0.001656818
ITGB2	6.851152576	6.75442181	-0.020514437	0.606331021
ITGB3	3.314095046	3.275955127	-0.016699383	0.472674961
ITGB3BP	5.411115887	5.472002951	0.016142869	0.230007976
ITGB4	7.576939649	7.761038077	0.034634376	0.003705514
ITGB5	8.417153252	8.26196419	-0.026847578	0.153096259
ITGB6	1.973859974	1.890038944	-0.062603687	0.623303985
ITGB7	6.437491258	6.463077134	0.005722642	0.731188446
ITGB8	5.656654225	5.857324944	0.050292946	0.279392885
ITGBL1	4.347740384	4.23283319	-0.03864216	0.703353933
ITIH1	2.480030411	2.559494415	0.045501047	0.086731607
ITIH2	1.974311841	1.929777676	-0.032915232	0.718771236
ITIH3	5.171390113	4.887527472	-0.08144733	0.332770395
ITIH4	6.706748391	6.564979134	-0.030823054	0.065087199
ITIH5	4.84468494	4.809011254	-0.010662545	0.93018593
ITIH5L	2.047255974	2.09881631	0.035884409	0.309558576

ITK	2.550996417	2.411840472	-0.080926388	0.163053015
ITLN1	2.342202921	2.43803612	0.057853428	0.041914658
ITLN2	2.000086298	1.988239155	-0.008570948	0.607295284
ITM2A	8.921456007	8.651089648	-0.044397322	0.019499904
ITM2B	7.996011603	8.023395923	0.004932425	0.499883137
ITM2C	9.364694172	9.458069106	0.014313803	0.386241527
ITPA	8.06371947	8.127775359	0.011415079	0.259359852
ITPK1	9.266900152	9.377130197	0.017059637	0.001223495
ITPKA	4.944552768	5.136377338	0.054911156	0.018861969
ITPKB	6.312384086	5.989482063	-0.075753739	0.105727801
ITPKC	7.662484901	7.68811488	0.004817568	0.774129414
ITPR1	6.295178397	6.065024444	-0.053733803	0.369087135
ITPR2	3.389985934	3.374583106	-0.006570004	0.812417607
ITPR3	6.035740331	5.839388056	-0.047713551	0.086477962
ITPRIP	7.649967298	7.446811887	-0.038830666	0.610675605
ITPRIPL1	2.758139682	2.650540782	-0.057408784	0.045142578
ITPRIPL2	6.047824921	5.844598683	-0.049312409	0.547474386
ITSN1	5.532181483	5.601943028	0.018078826	0.388895361
ITSN2	6.129609	6.043870493	-0.020322302	0.12927155
IVD	4.321424828	4.30333588	-0.006051617	0.713104485

IVL	1.962309384	1.937137965	-0.018625812	0.359242146
IVNS1ABP	6.999359411	6.853535901	-0.03037439	0.093402703
IWS1	3.852601424	3.88942643	0.01372448	0.577726473
IYD	1.992270589	1.916682	-0.05580261	0.171753103
IZUM01	1.990909907	1.951683894	-0.028708533	0.351699913
JAG1	7.149643113	6.981154134	-0.034405665	0.027958987
JAG2	4.981452543	4.938780549	-0.012411614	0.449190601
JAGN1	8.745932689	8.788582887	0.007018312	0.205309817
JAK1	7.133243298	7.067129599	-0.013433816	0.197523383
JAK2	5.04725996	5.091438028	0.012572794	0.720319375
JAK3	6.510127735	6.408845486	-0.022621363	0.733264729
JAKMIP1	6.868356636	7.201746528	0.068381871	0.154889789
JAKMIP2	3.658311325	3.694201641	0.014084761	0.804934392
JAKMIP3	3.160664344	3.32415431	0.072759522	0.042123506
JAM2	6.916418609	6.818690324	-0.020530524	0.394233928
JAM3	5.88961304	5.922262915	0.007975691	0.410905483
JARID1A	8.123959477	8.086569197	-0.006655288	0.327971218
JARID1B	6.923571675	7.046722246	0.025435874	0.419595024
JARID1C	6.167385649	6.172301106	0.001149382	0.857654232
FGF1	2.856782536	3.043850873	0.091506459	1.53E-05

JARID2	7.391116954	7.465319176	0.014411541	0.697220501
JAZF1	4.700969179	4.632250014	-0.0212451	0.339354085
JCLN	2.001988298	2.054256324	0.037182667	0.414052837
JDP2	9.903574954	9.839765493	-0.009325465	0.501197772
JHDM1D	5.829120795	5.931842803	0.025202068	0.234864416
JMJD1A	5.673130457	5.777795141	0.026374012	0.699773591
JMJD1B	7.125824397	7.104222775	-0.004380109	0.53514247
JMJD1C	4.983645987	5.0647655	0.023293883	0.206547988
JMJD2A	7.017920709	7.012708408	-0.001071906	0.902817145
JMJD2C	5.549927649	5.55339812	0.000901862	0.886993868
NEBL	4.216231868	4.492392683	0.091529831	0.019536046
JMJD3	2.799425768	2.777324775	-0.011435032	0.894081866
JMJD4	4.557008377	4.70336481	0.045606214	0.060129864
JMJD5	3.448281046	3.47620131	0.011634269	0.299165769
JMJD6	5.111975483	4.982668092	-0.036962442	0.088008173
JMJD7	8.659604033	8.698797972	0.006515	0.220249339
JMJD7-PLA2G4B	8.435223954	8.370521648	-0.011108838	0.344258175
JMJD8	5.565557901	5.55447838	-0.002874878	0.519815449
JMY	4.093473291	4.092079352	-0.000491361	0.644927769
JOSD1	7.328366987	7.247729162	-0.015962707	0.086985401

JOSD2	5.111504722	5.091940521	-0.005532486	0.448777126
JPH1	2.000686642	1.955198866	-0.033179869	0.299165769
JPH2	3.109900702	3.026753873	-0.039097152	0.28154506
JPH3	4.30269251	4.472399711	0.055809389	0.427989011
JRK	2.879138444	2.857917261	-0.010673013	0.514015351
JRKL	4.371642921	4.244233028	-0.042671696	0.038044195
JSRP1	2.419947576	2.353349845	-0.040259989	0.234321408
JTB	10.02493574	9.954162296	-0.010221174	0.184187549
JTV1	6.330999503	6.416713289	0.01940124	0.062035106
JUB	4.50135098	4.44334688	-0.018711286	0.594335545
JUN	11.70008307	11.67334733	-0.00330046	0.755180391
JUNB	10.16517987	10.31583637	0.021225051	0.324908315
JUND	10.24640257	10.22672054	-0.002773898	0.476081882
JUP	5.823015205	5.878397296	0.013656482	0.511793598
KAAG1	2.086866344	2.01427693	-0.051076161	0.956538302
KAL1	4.742694437	5.05865957	0.093048233	0.048577676
KALRN	3.992917662	3.764386324	-0.085028629	0.058273157
KANK1	8.41538647	8.309864965	-0.018204494	0.187863839
KANK2	9.256139543	9.002844923	-0.040029645	0.023273112
KANK3	5.990399901	5.863475092	-0.030896359	0.915394433

KANK4	4.458661536	4.388222831	-0.0229739	0.423580189
KARS	5.854103874	5.901637	0.011666841	0.513126249
KAT2A	8.975559099	8.737634465	-0.038759057	0.017739281
KAT2B	6.278125682	6.417478056	0.031672547	0.004394057
KAT5	7.724313728	7.811195838	0.01613667	0.098776914
KATNA1	7.766741305	7.775336951	0.001595784	0.882636433
KATNAL1	6.731807523	6.785872514	0.011540399	0.694161193
ANGPTL4	7.980932132	8.506660613	0.092035641	0.01427185
KATNB1	5.060893172	5.146995303	0.024338444	0.062131707
KAZALD1	6.348044113	5.972341458	-0.088015502	0.048341981
KBTBD10	4.76011643	4.807356704	0.014246993	0.829585584
KBTBD11	9.653600715	9.898267063	0.036108811	0.090738358
KBTBD2	4.716572662	4.674251789	-0.013003444	0.347081412
KBTBD3	3.499781099	3.593506423	0.038127576	0.318510713
KBTBD4	4.753919497	4.873726282	0.035907756	0.124466028
KBTBD5	2.086211748	2.042242085	-0.030731706	0.556235705
KBTBD6	4.230708715	4.270151141	0.013387775	0.538781731
KBTBD7	6.005248033	5.960276838	-0.010844493	0.811882491
KBTBD8	2.321973384	2.380334669	0.035812992	0.203098829
KCMF1	7.725535623	7.74409381	0.003461469	0.490287632



KCNA1	2.332593397	2.382334944	0.030441415	0.28869504
KCNA10	1.903975695	1.898027437	-0.004514215	0.788428722
KCNA2	3.754923132	3.838076352	0.031600037	0.596725965
KCNA3	2.068067894	2.058409324	-0.006753653	0.731188354
TTMA	2.573409046	2.743227282	0.092193364	0.011506781
KCNA5	5.082080437	5.320525465	0.066149526	0.228405164
KCNA6	1.974630311	1.971946585	-0.001962105	0.730669475
KCNA7	1.937593185	1.930627634	-0.005195762	0.651872976
KCNAB1	3.934009139	4.015758106	0.02967206	0.478221898
KCNAB2	5.198292954	5.19726138	-0.000286324	0.981837686
TGFB2	5.988461185	6.384310218	0.092345424	0.001656808
KCNB1	9.568034702	9.664037028	0.01440336	1
KCNB2	2.816039815	2.887313542	0.036060051	0.418007061
KCNC1	6.203256417	6.461465923	0.058835747	0.271497549
KCNC2	4.526247179	4.796371035	0.083627894	0.335878858
KCNC3	7.10646245	7.361072352	0.050784377	0.239517531
KCNC4	3.231043205	3.137396437	-0.042432205	0.119636603
KCND1	2.092403325	2.136756197	0.030261339	0.355278604
KCND2	2.923908695	2.957887056	0.016668705	0.615034284
SLC4A8	2.369348119	2.527030775	0.09295305	0.007225366

HSPB7	3.672630477	3.917284183	0.093040048	0.006719804
KCNE1L	3.036808874	3.182356085	0.067539159	0.013214323
KCNE2	2.640982305	2.58426788	-0.03131901	0.44671407
KCNE3	4.82851657	4.840094282	0.003455122	0.917036601
KCNE4	8.586960225	8.141487585	-0.076855086	0.130319801
KCNF1	2.302863821	2.396965521	0.057780056	0.052733375
KCNG1	4.243690397	4.093767113	-0.051890375	0.034718142
KCNG2	1.994002801	1.970766915	-0.016910279	0.918131564
KCNG3	2.361336007	2.307983028	-0.03297073	0.35851961
KCNG4	2.396400967	2.477057289	0.047757915	0.040341625
KCNH1	2.001413914	1.972791063	-0.020781393	0.514905504
KCNH2	5.387705642	5.731234965	0.089175013	0.157103083
KCNH3	2.566649192	2.570261282	0.002028902	0.957087921
KCNH4	2.129479417	2.112915303	-0.011265848	0.89681028
KCNH5	2.701562199	2.670106697	-0.016896505	0.527901417
KCNH6	5.303261629	5.516150592	0.05678192	0.270596487
KCNH7	2.04106606	2.018547951	-0.016005018	0.886449004
KCNH8	2.943476596	2.996367176	0.025693266	0.448364299
KCNIP1	2.281053815	2.404185007	0.075847436	0.053326373
KCNIP2	3.372271325	3.547071676	0.072907867	0.205558025

KCNIP3	6.574840106	6.356308077	-0.048766759	0.057453387
KCNIP4	2.709694099	2.885104366	0.090493515	0.058364876
KCNJ1	2.057782351	2.033186106	-0.017348121	0.490288718
KCNJ10	4.117708464	4.513015204	0.132249949	0.046113276
KCNJ11	2.243760079	2.256857901	0.008397165	0.946649044
KCNJ12	5.260045265	5.243404331	-0.004571415	0.728077332
KCNJ13	9.059365093	8.878730289	-0.029056568	0.551154861
KCNJ14	9.37480655	9.361295732	-0.002080688	0.610674201
KCNJ15	2.879661245	2.739678359	-0.071892578	0.216380277
CLDN10	4.843710126	5.169996141	0.094050675	0.019862669
KCNJ2	6.968026179	7.052093979	0.017301657	0.569738671
KCNJ3	3.78460747	3.875413923	0.034206734	0.48639235
MAP7	4.694937596	5.014355908	0.094958417	0.01584772
KCNJ5	3.232282656	3.264570711	0.014339927	0.458754785
KCNJ6	2.955258424	3.110084556	0.073669512	0.186710799
KCNJ8	5.90489506	5.842526725	-0.015318992	0.713618895
KCNJ9	2.31187147	2.397847317	0.052678605	0.379098723
KCNK1	7.609365285	7.699837817	0.017051938	0.576312888
KCNK10	1.987913007	2.010315993	0.016167666	0.691615463
KCNK12	3.635346325	3.662108289	0.010581642	0.75990665

KCNK13	2.058357775	2.071380514	0.009098835	0.307265139
KCNK15	4.677195702	4.683228218	0.001859549	0.920869598
KCNK16	1.934670695	2.032151549	0.070919973	0.091664267
KCNK17	4.585009464	4.140504113	-0.147118283	0.022447318
KCNK18	1.846199834	1.861855465	0.012182361	0.802265978
KCNK2	1.884463232	1.89529038	0.008265256	0.514015351
KCNK3	3.814977821	4.057196873	0.08880864	0.076014597
KCNK4	2.570333801	2.630848289	0.033572326	0.44137573
KCNK5	4.21406655	4.221848613	0.00266175	0.976885577
KCNK6	3.795523709	3.658110838	-0.053200175	0.215867944
KCNK7	4.626371709	4.722206141	0.029579837	0.013840159
KCNK9	2.282601695	2.227791275	-0.035065067	0.249301061
KCNMA1	5.438378669	5.601262599	0.042575458	0.307919116
KCNMB1	5.055760497	4.895700268	-0.046412888	0.282779846
KCNMB2	2.333945073	2.238367908	-0.060323425	0.118982066
KCNMB3	2.712072172	2.624453831	-0.047378353	0.332426051
KCNMB4	8.340827735	8.178610796	-0.028334752	0.00239168
KCNN1	2.502303689	2.408947662	-0.054853842	0.223381777
KCNN2	4.95830804	5.079161204	0.03474236	0.27664248
KCNN3	2.576261841	2.533893796	-0.023923173	0.821527396

KCNN4	4.589951199	4.539866373	-0.015828981	0.591472656
KCNQ1	5.899975232	5.837628141	-0.015326584	0.689581572
KCNQ1DN	2.032946503	2.099731789	0.046632804	0.120623338
KCNQ10T1	6.806079503	6.480888838	-0.070632315	0.034247209
KCNQ2	4.140001927	4.306009197	0.056719962	0.238966601
KCNQ3	2.496137305	2.572155246	0.043280427	0.163053215
KCNQ4	2.236691106	2.244288965	0.004892414	0.843055307
KCNQ5	2.163437603	2.146463092	-0.011364146	0.962585108
KCNRG	2.143922497	2.082237169	-0.04211835	0.150926318
KCNS1	2.170026139	2.191249394	0.014041271	0.534234656
KCNS2	2.28791006	2.342939162	0.034289154	0.36396172
KCNS3	6.351596033	6.218751275	-0.030494243	0.738464702
KCNT1	2.016967642	2.040361732	0.016637009	0.269697478
KCNV1	1.940452927	1.91272557	-0.020763539	0.288381356
KCNV2	9.539612245	9.590787479	0.00771865	0.801198651
KCTD1	6.283146768	6.213760218	-0.01602071	0.182600444
KCTD10	6.198310483	6.079579711	-0.027903432	0.42638262
KCTD11	6.356338894	6.4192935	0.014218479	0.190187
KCTD12	5.530960576	5.183217148	-0.093682223	0.066301527
KCTD13	2.390740411	2.445501951	0.032673126	0.25214694

KCTD14	2.870063384	2.882605042	0.006290582	0.81348808
KCTD15	4.620088152	4.475335528	-0.04592453	0.004080845
KCTD16	4.231965437	4.413046761	0.060447189	0.25157596
KCTD17	4.221636503	4.373051134	0.050837855	0.02269243
KCTD18	3.265666477	3.240722599	-0.011061922	0.4426043
KCTD19	2.889792007	2.860898162	-0.014497515	0.848456346
KCTD2	5.575732523	5.679862775	0.02669472	0.14493619
KCTD20	5.596890881	5.559311556	-0.009719384	0.664850842
KCTD21	2.293709073	2.200282845	-0.059993423	0.098354998
KCTD3	7.829437934	7.890909472	0.011282847	0.234049541
KCTD4	3.931760841	4.021022092	0.032386693	0.774129571
KCTD5	5.997838305	6.018263303	0.004904598	0.365786852
KCTD6	6.298526477	6.302447803	0.000897911	0.695690055
KCTD7	2.851810815	3.010101282	0.077933752	0.022528754
KCTD8	4.724929093	4.879681768	0.046494385	0.358880706
KCTD9	6.130337503	6.075550507	-0.012951366	0.249300609
KDELC1	4.436065391	4.301253817	-0.044523365	0.028106848
KDELC2	2.50187443	2.50423357	0.001359747	0.788959774
KDELR1	7.256268934	7.225489148	-0.006132669	0.477365863
KDELR2	7.689050662	7.548677211	-0.026581628	0.108128569

<b>KDELR3</b>	2.928622126	2.856288944	-0.036080127	0.558552689
<b>KDR</b>	5.372246007	5.432822655	0.016176583	0.431616298
<b>KDSR</b>	7.037017185	7.084401415	0.009681924	0.714133468
<b>KEAP1</b>	8.655638007	8.707460761	0.008611902	0.153889869
<b>KEL</b>	2.021743603	1.996597408	-0.018056588	0.366518639
<b>KERA</b>	1.955287636	1.902576127	-0.039426672	0.5082495
<b>KGFLP1</b>	7.286438219	7.078309049	-0.04180901	0.022244759
<b>KGFLP2</b>	3.908142596	4.005028599	0.035329437	0.271497378
<b>KHDC1</b>	5.155379126	5.191319141	0.010022654	0.845754966
<b>KHDRBS1</b>	8.425026702	8.44268619	0.003020832	0.588140455
<b>KHDRBS2</b>	4.622243689	4.814514373	0.058796963	0.545180161
<b>KHDRBS3</b>	6.41216404	6.41908212	0.001555684	0.89735614
<b>KHK</b>	5.420861106	5.559223768	0.036361412	0.177891217
<b>KHSRP</b>	9.479957894	9.527950451	0.007285259	0.807070105
<b>KIAA0020</b>	7.073133046	6.889795831	-0.037888167	0.162222612
<b>KIAA0040</b>	2.82209904	2.770135479	-0.026812083	0.680962246
<b>KIAA0087</b>	2.449216391	2.631878169	0.103772464	0.049051771
<b>KIAA0090</b>	5.368461861	5.467966465	0.0264956	0.213319651
<b>KIAA0100</b>	8.436375523	8.35818981	-0.013432793	0.029109569
<b>KIAA0101</b>	3.056532914	2.827448127	-0.112395546	0.047951407

KIAA0114	5.044204185	5.065115739	0.005968559	0.984038865
KIAA0125	1.984885066	2.016759063	0.022983268	0.153692633
KIAA0141	5.970401715	5.854186746	-0.028359238	0.191591248
KIAA0146	5.82296549	5.820768887	-0.000544332	0.850077965
KIAA0174	8.668402397	8.576663155	-0.015349666	0.01485613
KIAA0182	5.466561623	5.468531183	0.000519698	0.873388852
KIAA0195	5.325849603	5.340775627	0.004037587	0.545180257
KIAA0196	7.432751364	7.406416789	-0.005120611	0.621841067
KIAA0226	6.503049464	6.448462007	-0.012161286	0.271196624
KIAA0232	7.800468046	7.877503077	0.014177721	0.386620761
KIAA0240	7.630622311	7.643827465	0.002494494	0.808673622
KIAA0247	9.029173603	9.007302725	-0.003498801	0.270595002
KIAA0256	4.033365642	4.037509556	0.001481476	0.780475467
KIAA0284	10.17723828	10.16536383	-0.00168427	0.90500257
KIAA0317	5.601736987	5.663227458	0.015750228	0.595291012
KIAA0319	2.799528199	3.046993042	0.122202494	0.028906949
KIAA0319L	6.101967278	6.165323099	0.014902059	0.171320709
KIAA0323	6.362468901	6.252396739	-0.025177373	0.091399293
KIAA0329	8.392390834	8.518999444	0.02160213	0.001815775
KIAA0355	8.475352755	8.366609401	-0.018630332	0.036719689



KIAA0368	6.115060391	6.092351239	-0.005367627	0.479077984
KIAA0391	3.821893364	3.784855415	-0.014049337	0.409728974
KIAA0406	3.088852874	3.093674606	0.002250306	0.850618728
KIAA0408	3.772016397	3.878789662	0.040270596	0.537415768
KIAA0409	9.122588172	9.083462711	-0.006200817	0.248731937
KIAA0415	5.692962556	5.630798	-0.015840214	0.289322521
KIAA0427	7.650911305	7.714072415	0.011861091	0.902270812
KIAA0430	8.796178391	8.716154056	-0.013185167	0.020567291
KIAA0467	6.671790901	6.653656049	-0.003926784	0.555772126
KIAA0484	2.890237483	2.815773521	-0.037656741	0.290580006
KIAA0485	4.449599801	4.183794979	-0.088863429	0.132082236
KIAA0492	1.892000589	1.930516824	0.029074589	0.201876866
KIAA0494	8.233703338	8.210664838	-0.004042424	0.513570197
KIAA0495	3.149221132	3.138049732	-0.005126848	0.770434611
KIAA0513	8.106709132	8.233628437	0.022411965	0.685520068
KIAA0528	6.771900179	6.758058099	-0.002951954	0.853323346
KIAA0556	4.438336735	4.526849831	0.02848832	0.23134963
KIAA0562	6.111521536	6.185450106	0.017346981	0.107223032
KIAA0564	3.439077921	3.489071592	0.020821396	0.435667377
KIAA0574	4.071603364	4.278519662	0.071514693	0.198725802

KIAA0586	5.707869768	5.768533873	0.015252273	0.358518979
KIAA0644	3.718483762	3.830899634	0.042968757	0.163887122
KIAA0649	6.412757815	6.464407824	0.011573294	0.675407029
KIAA0652	6.381222384	6.524734296	0.03208634	0.054442211
KIAA0664	4.60324198	4.776504641	0.053304983	0.006168196
KIAA0746	8.23900255	8.438682669	0.034548114	0.045887553
KIAA0748	2.262585576	2.116588106	-0.096231815	0.045663123
KIAA0753	6.522945556	6.407519669	-0.025757585	0.007796625
KIAA0754	2.91906951	2.859786789	-0.029600974	0.395383456
KIAA0774	3.623018166	3.934817599	0.119104721	0.128750114
KIAA0776	7.271076066	7.284716493	0.002703938	0.964234646
KIAA0802	5.485697993	5.80349107	0.081245811	0.072326241
KIAA0831	2.578353987	2.623601803	0.025098424	0.296285368
KIAA0841	2.419065265	2.355009246	-0.038716969	0.233778901
KIAA0859	7.359977993	7.308377732	-0.010150251	0.043038827
KIAA0892	6.815271967	6.779355951	-0.007623008	0.404653725
KIAA0894	2.248947199	2.15206293	-0.063529524	0.082258269
KIAA0895	2.548315768	2.690645676	0.078408362	0.041155964
KIAA0895L	7.309085887	7.330736134	0.004267091	0.774657708
KIAA0907	4.91176343	4.874581437	-0.010962732	0.691106755

KIAA0913	2.481212629	2.496001852	0.008573632	0.807604987
KIAA0922	2.361839901	2.282132176	-0.049528822	0.124635143
KIAA0947	5.27459243	5.254185676	-0.005592436	0.860905323
KIAA0999	5.973197305	6.004597394	0.00756414	0.521158577
KIAA1009	3.99223396	3.947159246	-0.016381545	0.323218371
KIAA1012	5.897004742	5.971826437	0.018189882	0.156497228
KIAA1024L	1.913990007	1.932106056	0.013590991	0.759906567
KIAA1033	7.20023106	7.117024662	-0.016768969	0.336918845
KIAA1045	4.692355073	4.977012275	0.084967758	0.176562463
KIAA1107	4.38574045	4.570202261	0.05943758	0.140983141
KIAA1109	7.097114623	7.172961085	0.015336197	0.219471615
KIAA1128	7.410863722	7.460675563	0.009664577	0.308246363
KIAA1143	5.063522781	5.121058824	0.016300689	0.200660647
KIAA1147	5.283345	5.410593021	0.034335107	0.117681547
KIAA1161	2.000898543	1.980243028	-0.014970518	0.563666492
KIAA1191	9.002655795	9.047439106	0.007158831	0.44260245
KIAA1199	4.99402202	4.560058592	-0.131149821	0.092330027
KIAA1210	2.122650265	1.998042563	-0.087279371	0.233237562
KIAA1211	4.35522447	4.36851812	0.004396897	0.997247901
KIAA1217	4.546893914	4.662262577	0.036148915	0.057725561

KIAA1219	6.442630563	6.490249479	0.010624066	0.3115334
KIAA1239	2.57142053	2.58347219	0.006745786	0.913752645
KIAA1244	3.99352804	3.973664585	-0.007193743	0.662346867
KIAA1257	2.489729245	2.508234218	0.010683213	0.901724538
KIAA1267	7.632986894	7.572372486	-0.011502335	0.321532048
KIAA1274	4.402904689	4.214385211	-0.063133426	0.101771909
KIAA1279	6.053176205	6.109629211	0.013392479	0.423580023
KIAA1303	7.578252265	7.609012289	0.005844027	0.580085583
KIAA1305	3.156503079	3.05240462	-0.048380943	0.065187709
KIAA1310	9.714182874	9.681909634	-0.004801017	0.537412274
KIAA1324	2.606917464	2.649360592	0.023299308	0.522055302
KIAA1324L	4.206306172	4.194537718	-0.004042047	0.990643067
KIAA1328	3.082012821	3.123501148	0.019291197	0.440148572
KIAA1333	3.269185748	3.255959373	-0.005848652	0.918679074
KIAA1370	6.73778645	6.756933655	0.004093986	0.51981525
KIAA1377	4.266898523	4.247355148	-0.006623054	0.480793767
KIAA1383	2.651101675	2.710122338	0.031765976	0.34566813
KIAA1407	5.802483212	5.972796817	0.041736201	0.098074828
KIAA1409	3.082407305	3.129049535	0.021666988	0.543348319
KIAA1429	8.12829647	8.083865232	-0.007907753	0.327289436

KIAA1430	7.627491106	7.625769162	-0.000325732	0.988441563
KIAA1432	3.758245351	3.738075528	-0.007763535	0.653364992
KIAA1462	8.927944629	8.836879669	-0.01479104	0.197522474
KIAA1466	2.926554113	2.880101549	-0.023083274	0.463789792
KIAA1467	3.677138444	3.881199261	0.077919008	0.05691215
KIAA1468	5.493262728	5.485122725	-0.002139394	0.880459086
KIAA1486	2.111829285	2.141348704	0.020026533	0.560874353
KIAA1522	6.550432801	6.486213134	-0.014213801	0.77835857
KIAA1524	2.336134993	2.34904419	0.007950211	0.882092061
KIAA1529	4.521396457	4.458764106	-0.020124551	0.199691325
KIAA1530	3.721338298	3.692119831	-0.011372171	0.552077115
KIAA1539	3.408851828	3.439033746	0.012717381	0.935670642
KIAA1543	4.546491126	4.72321238	0.055014871	0.089690831
KIAA1545	8.017178974	8.101649866	0.015121056	0.133326034
KIAA1549	5.398389596	5.379162134	-0.005147624	0.543348271
KIAA1586	2.721209762	2.738798394	0.009294902	0.546097278
KIAA1598	5.781428649	5.996573063	0.05271222	0.091664383
KIAA1602	6.883364967	6.794136106	-0.018823886	0.006155248
KIAA1609	5.501257099	5.516783148	0.004065944	0.915394393
KIAA1614	6.437731662	6.501023282	0.014114377	0.478221793

KIAA1618	6.951361642	6.898802662	-0.010949609	0.692124415
KIAA1627	5.707649404	5.63492969	-0.01849911	0.282779616
KIAA1632	2.565406179	2.536008162	-0.016627876	0.305633563
KIAA1648	1.915565424	1.91125393	-0.003250832	0.995596657
KIAA1652	5.528759808	5.276201901	-0.067456124	0.014856488
KIAA1654	2.034799291	2.026520162	-0.005881968	0.921965114
KIAA1655	2.248153536	2.165579148	-0.053987666	0.168104662
KIAA1656	2.217069821	2.259060077	0.027068433	0.207292552
KIAA1659	2.447249483	2.466460007	0.011280711	0.769379922
KIAA1661	2.063596172	2.080266444	0.011607647	0.992294236
KIAA1683	6.752768013	6.703640465	-0.01053422	0.869043098
KIAA1688	4.378156358	4.474637824	0.031447437	0.295966172
KIAA1704	4.034457272	3.929433275	-0.038053357	0.001811556
KIAA1712	3.64032006	3.708918056	0.026933095	0.295329103
KIAA1715	4.86725206	4.974076606	0.031321237	0.089300156
KIAA1731	5.434804881	5.488973169	0.014308046	0.196804257
KIAA1737	7.699648868	7.748427782	0.009110951	0.999449579
KIAA1751	2.015095152	1.968152585	-0.034005892	0.157508072
KIAA1755	3.636833682	3.433974155	-0.082803769	0.13530002
KIAA1772	2.200039728	2.228290986	0.018408066	0.306938179

KIAA1787	6.905217364	6.981399465	0.015829434	0.102495332
KIAA1797	7.813097265	7.809393282	-0.000684106	0.86904299
KIAA1804	1.959229722	1.997087218	0.027610776	0.379472295
KIAA1826	5.594371338	5.758692535	0.041765278	0.245915681
KIAA1841	2.864527834	2.992074415	0.0628487	0.134579624
KIAA1853	6.02334706	6.166834972	0.033964851	0.926348582
KIAA1875	4.761701166	4.830041704	0.020558563	0.300130196
KIAA1881	2.897266629	2.956991789	0.029437778	0.347789631
KIAA1908	4.708465404	4.745406493	0.011274745	0.491591246
KIAA1919	4.673194788	4.652775697	-0.006317534	0.807604807
KIAA1949	7.41084696	7.191195359	-0.043406829	0.08225816
KIAA1958	3.391767397	3.460389725	0.028897295	0.472675014
KIAA1967	4.110960086	4.083855289	-0.009543619	0.362868945
KIAA1984	2.299233536	2.353150162	0.033440376	0.332082053
KIAA2013	7.783643053	7.782278831	-0.00025288	0.894081477
KIAA2018	4.30722243	4.369363683	0.020665365	0.084098643
KIAA2022	2.881836338	3.041333303	0.077715526	0.054269268
KIAA2026	3.893774623	3.998160077	0.038166854	0.041087552
KIDINS220	6.357963026	6.325468056	-0.00739239	0.581503188
KIF11	2.319884152	2.308685556	-0.006981073	0.625745542

KIF12	1.978082662	1.902162085	-0.056462532	0.055051076
KIF13A	3.013680152	2.975693697	-0.018300279	0.975235065
KIF13B	6.997348411	7.101866331	0.021389879	0.20878714
KIF14	1.901012788	1.911940507	0.008269395	0.911564127
KIF15	2.625595768	2.589627951	-0.019899976	0.321532106
KIF16B	4.755938603	4.682481056	-0.022456933	0.129795128
KIF17	3.709359146	3.655663014	-0.021036872	0.491591194
KIF18A	2.230650139	2.24420131	0.008737839	0.755707775
KIF18B	2.088878834	2.104959359	0.011063568	0.915941716
KIF19	3.788041457	3.902502007	0.042947254	0.269099335
KIF1A	6.547184748	6.719828169	0.037549653	0.34566836
KIF1B	7.164059848	7.225916261	0.012403146	0.737943942
KIF1C	10.42501925	10.28425334	-0.019612992	0.354199997
KIF20A	2.068598543	2.020451387	-0.033976045	0.0430392
KIF20B	2.103143477	2.098054824	-0.003494897	0.723419124
KIF21A	8.665559238	8.877660394	0.034886663	0.25443893
KIF21B	6.993195099	7.021364028	0.005799573	0.904456337
KIF22	5.603704629	5.777325634	0.0440209	0.016519656
KIF23	3.021777358	2.923831852	-0.047537023	0.109804615
KIF24	2.066440252	1.990566528	-0.053968561	0.04353922



KIF25	6.127410609	5.841668528	-0.068897034	0.011394284
KIF26A	4.206204775	4.182930148	-0.008005182	0.51624251
KIF26B	2.432357404	2.41271957	-0.011694989	0.549773282
KIF27	5.331889278	5.414237521	0.022111358	0.382472269
KIF2A	6.478667311	6.419846211	-0.013158338	0.401162275
KIF2B	1.880984616	1.830199063	-0.039487476	0.104986084
KIF2C	3.442365768	3.482880254	0.016880473	0.781534578
KIF3A	7.823495788	7.881081838	0.010580289	0.811882271
KIF3B	6.208823159	6.309083648	0.023110638	0.099909509
KIF3C	5.082083861	5.146982049	0.018306569	0.834967732
KIF4A	2.482847589	2.567028007	0.048103332	0.173272654
KIF5A	4.78404953	4.911850042	0.03803419	0.656353723
KIF5B	4.374209623	4.325829627	-0.016045514	0.446302053
KIF5C	7.59124404	7.817108458	0.042298723	0.486824198
KIF6	3.188481576	3.391840049	0.089198593	0.025184466
KIF7	2.980064669	2.817366134	-0.080996575	0.063006633
KIF9	7.15190645	7.168985275	0.003441063	0.886993881
KIFAP3	9.155370497	9.196114134	0.006406102	0.810812411
KIFC1	2.255768656	2.310348268	0.034491226	0.638013875
KIFC2	4.664501318	4.743228204	0.02414643	0.46001067

KIFC3	6.060864755	6.199703627	0.0326756	0.346374341
KIN	5.815772179	5.822595204	0.001691568	0.969184096
KIR2DL2	2.456702344	2.338753099	-0.070983506	0.042826443
KIR2DL4	2.288475901	2.288063972	-0.00025971	0.954889596
KIR2DL5A	2.012372609	1.930307761	-0.060066575	0.11041907
KIR2DS1	1.987149874	1.953007345	-0.025003312	0.331394632
KIR2DS2	2.317316589	2.214573261	-0.065426433	0.060981137
KIR2DS4	2.336272172	2.323757275	-0.007748974	0.696710238
KIR3DL1	2.317777848	2.333243634	0.009594664	0.631621627
KLHL14	2.375338589	2.536959908	0.094967546	0.016303147
KIR3DL3	2.088303351	2.081555338	-0.004669383	0.862531658
KIR3DX1	1.927029762	1.843050282	-0.064283422	0.1073739
KIRREL	4.109842377	4.058137831	-0.018265198	0.574901164
RNF215	3.209542543	3.428482366	0.095202418	0.000215884
KIRREL3	4.845650344	5.120613986	0.079626501	0.129097647
KISS1	2.365447483	2.384185852	0.01138357	0.890264177
KISS1R	6.987139993	7.059432866	0.01485024	0.266418139
KIT	5.85001043	5.629289521	-0.055486347	0.167042765
KITLG	4.355007219	4.293454739	-0.020536127	0.810277781
KL	2.637990517	2.56795193	-0.038821182	0.372036277

<b>KLB</b>	2.04033255	1.982964782	-0.041145258	0.083481468
<b>KLC1</b>	8.615003576	8.570381423	-0.007491983	0.351341673
<b>KLC2</b>	3.654896139	3.723764141	0.026931287	0.333804287
<b>KLC3</b>	12.63605303	12.58399117	-0.005956334	0.42356222
<b>KLC4</b>	3.30987696	3.303441669	-0.002807718	0.833890641
<b>KLF1</b>	2.123219232	2.178668697	0.037193484	0.211801299
<b>KLF10</b>	5.23194653	5.10761719	-0.034697396	0.26434658
<b>KLF11</b>	4.268309603	4.218922423	-0.016790267	0.514905655
<b>KLF12</b>	7.374643795	7.294807359	-0.015703487	0.480364521
<b>KLF13</b>	7.512600536	7.499719415	-0.002475771	0.817237284
<b>KLF14</b>	4.081628338	4.099607444	0.006340951	0.882636488
<b>KLF15</b>	4.723895517	4.55061188	-0.053916511	0.023399647
<b>KLF16</b>	10.31623456	10.31087069	-0.000750317	0.816164824
<b>KLF17</b>	2.179837834	2.07258081	-0.072792459	0.069418769
<b>KLF2</b>	8.764378517	8.399238634	-0.061393235	0.176783114
<b>KLF3</b>	7.06074004	6.993235824	-0.013859245	0.202853802
<b>KLF4</b>	3.942861993	3.712709627	-0.086770729	0.176341604
<b>KLF5</b>	2.900705007	2.831475458	-0.03484956	0.240345351
<b>KLF6</b>	9.450284272	9.378755951	-0.010961159	0.218178824
<b>KLF7</b>	3.789892755	3.632951972	-0.061014731	0.028106848

GTF2H4	4.101746278	4.382394437	0.095481086	0.000488123
KLF9	10.63015065	10.57476081	-0.007537011	0.672886875
KLHDC1	4.31335	4.345189599	0.010610343	0.812417498
KLHDC10	4.329383854	4.224096444	-0.035518945	0.07443158
KLHDC2	8.742147238	8.816953549	0.012292582	0.213826636
KLHDC3	5.967506887	5.969521021	0.000486852	0.995046248
KLHDC4	3.166284364	3.326244754	0.0711035	0.02540995
KLHDC5	5.112718411	5.187945387	0.021072723	0.222334019
KLHDC6	2.764019596	2.874622676	0.056604756	0.062325314
KLHDC7A	2.092638225	2.125087599	0.022199392	0.774129624
KLHDC7B	2.87196853	2.937407599	0.032503529	0.454999009
KLHDC8A	6.28525696	6.514386162	0.051657515	0.293423584
KLHDC8B	6.479531834	6.396297225	-0.018652598	0.321195532
KLHDC9	8.144127755	8.367276908	0.038997988	0.024960596
KLHL1	3.012692775	3.2041335	0.0888807	0.184190951
KLHL10	2.076777285	2.062123683	-0.010215643	0.807604874
KLHL11	2.689200563	2.726169148	0.019697722	0.534234705
KLHL12	5.36801096	5.36953388	0.000409239	0.975235038
KLHL13	3.249711868	3.272388254	0.010032119	0.981837684
ADORA1	3.743278	4.000289085	0.095802065	0.015579818

KLHL15	5.643332007	5.669663077	0.006715777	0.578669467
KLHL17	3.049401265	3.039905824	-0.004499375	0.736383287
KLHL18	5.34464247	5.391050232	0.01247291	0.663848908
KLHL2	4.817628815	4.776658845	-0.012321401	0.393086199
KLHL20	4.952629589	4.919491049	-0.009685657	0.609708868
KLHL21	8.549992305	8.512579923	-0.006326683	0.44506703
KLHL22	4.289196305	4.456234507	0.05511781	0.028856264
KLHL23	3.786353563	3.822871239	0.013847475	0.631131212
KLHL24	5.962574291	5.879490937	-0.020244089	0.036103078
KLHL25	8.563115464	8.412377669	-0.025622158	0.067121119
KLHL26	3.278475689	3.394996486	0.050384884	0.011620243
KLHL28	2.107377762	2.120629451	0.009043603	0.575842253
KLHL29	7.287477384	7.381745415	0.018542481	0.271196853
KLHL3	6.032628338	6.005818056	-0.006425933	0.6135798
KLHL30	1.97602349	2.011119085	0.025398413	0.310874243
KLHL32	2.419103497	2.51782057	0.057702981	0.18214838
KLHL33	2.089418192	2.084195951	-0.003610351	0.736383227
KLHL34	6.385354536	6.691646437	0.067594495	0.110727379
KLHL35	4.325222464	4.465703866	0.046113247	0.198484848
KLHL36	5.830810682	5.787334796	-0.010797375	0.264641411

KLHL4	2.388562881	2.531631648	0.083924651	0.03424723
KLHL5	3.262253616	3.306872204	0.019598348	0.451259808
KLHL6	3.757748808	3.644507761	-0.044144659	0.288068477
KLHL7	4.169630291	4.256846549	0.029865615	0.170028419
KLHL8	6.402327616	6.564912345	0.036179245	0.144366462
KLHL9	8.252828583	8.221541641	-0.005479732	0.568334486
KLK1	2.18588357	2.129964408	-0.037387235	0.106923138
KLK10	3.858219053	4.030591141	0.063056389	0.089170427
KLK11	4.009743305	4.409725662	0.137179024	0.055226209
KLK12	1.887270629	1.872322683	-0.01147222	0.61697574
KLK13	2.020151411	1.995171711	-0.017950512	0.490288822
KLK14	2.962090722	2.929717556	-0.015854241	0.91484713
KLK15	2.307855563	2.289389901	-0.011589749	0.687549712
KLK2	2.118307139	2.112487563	-0.003968937	0.923060723
KLK3	9.077767874	9.082144401	0.000695377	0.979636612
KLK4	2.128056265	2.088986732	-0.026732966	0.492460421
KLK5	2.078464086	2.058135232	-0.01418004	0.789490851
KLK6	1.997865503	1.974515852	-0.016960514	0.811347396
KLK7	2.182292623	2.098576204	-0.056433713	0.137661292
KLK8	2.508953669	2.676982704	0.093521988	0.085846656

KLK9	3.218662126	3.253222352	0.015408291	0.183053966
KLKB1	3.103423146	3.138539951	0.016233154	0.680962138
KLKBL4	2.05981357	1.988290458	-0.05098524	0.078909594
KLRA1	2.114440821	2.200089028	0.057285722	0.048972419
KLRAQ1	4.368182954	4.384134331	0.005258721	0.639492813
KLRB1	4.240298166	3.947348641	-0.103281767	0.219472384
KLRC1	2.866911258	2.839763042	-0.013726696	0.591949467
KLRC2	2.407111258	2.496870268	0.052818038	0.237319679
KLRC3	2.184689013	2.14195269	-0.028501314	0.655855103
KLRC4	3.028340748	2.922910697	-0.051121795	0.354561274
KLRD1	2.450876921	2.436247366	-0.00863741	0.858737725
KLRF1	2.569518808	2.432711296	-0.078933095	0.073650318
KLRG1	3.773624272	3.552954901	-0.086931409	0.000268655
KLRG2	2.076829437	2.091956387	0.010470037	0.862531739
KLRK1	1.982579563	2.040036838	0.04121644	0.166830678
KMO	2.319852331	2.321515986	0.001034241	0.646909119
KNCN	2.130006179	2.116439458	-0.009218396	0.890809435
KNDC1	2.939458675	3.014242859	0.036245164	0.431212505
KNG1	2.022587252	1.970520056	-0.037625506	0.260235214
KNTC1	3.360833689	3.372706746	0.00508773	0.994495837

KPNA1	2.729402046	2.759317845	0.015726728	0.468432439
KPNA2	8.512952199	8.525000225	0.002040343	0.853864285
KPNA3	4.081641894	4.180824261	0.03463779	0.230275618
KPNA4	7.923991411	7.893293951	-0.005599839	0.604404079
KPNA5	4.098579344	4.194239845	0.033285436	0.466318924
KPNA6	5.700139106	5.715191662	0.003804754	0.577726337
KPNB1	9.850773583	9.968438592	0.017130521	0.00157645
KPTN	4.603332768	4.591059338	-0.003851658	0.782064438
KRAS	6.876171245	6.86780407	-0.001756593	0.598641272
KRBA1	8.174374715	8.300860993	0.022152607	0.050905389
KRCC1	6.881039245	6.847492627	-0.007050664	0.528352564
KREMEN1	6.855238848	6.854186838	-0.000221414	0.993395027
KREMEN2	4.52389345	4.674641866	0.047290891	0.492895628
KRI1	9.257675775	9.293130908	0.005514694	0.266713649
KRIT1	4.100321132	4.053668514	-0.016508786	0.322205598
KRR1	6.964932603	6.967735218	0.000580409	0.906642507
KRT1	2.701692437	2.70993981	0.004397362	0.57208277
KRT10	9.828883583	9.725645204	-0.015233594	0.026516257
KRT12	1.835967424	1.857610394	0.016907489	0.896264518
KRT13	2.037429967	2.074553866	0.026050647	0.559945006



KRT14	2.591643848	2.55537569	-0.020332061	0.140425386
KRT15	3.595098775	3.431684613	-0.06711444	0.271497606
KRT16	2.156947411	2.195061648	0.025270456	0.274212941
KRT17	2.163979331	2.13257307	-0.021091545	0.504277548
KRT17P3	2.081053954	2.099963585	0.013049941	0.495073611
KRT18	7.417006954	7.222016028	-0.038435499	0.319515944
KRT18P19	4.607635781	4.504917831	-0.032525889	0.54380592
KRT18P24	1.961693735	1.988902796	0.019872947	0.446714233
KRT18P28	4.384886775	4.361982965	-0.007555455	0.710020283
KRT18P30	8.555840377	8.361734683	-0.033107299	0.266714904
KRT18P33	6.000669748	5.835919373	-0.04016358	0.431616408
KRT18P34	4.551012649	4.375876754	-0.056615491	0.266121886
KRT18P40	2.86546302	2.941915141	0.037987355	0.430001945
KRT18P42	6.046284377	5.889436282	-0.037919285	0.502957212
KRT18P44	1.87526196	1.818553775	-0.044300557	0.115911595
KRT18P46	1.975669159	1.964483887	-0.008191042	0.790553299
KRT18P49	4.553400589	4.433954007	-0.038350582	0.576313161
KRT18P50	2.008991987	1.960702789	-0.035100947	0.360327723
KRT19	5.341609185	5.279190648	-0.016957659	0.844134985
TFAP2E	3.004961318	3.211292218	0.095807533	0.012084285

KRT2	1.897355974	1.90527107	0.006005894	0.917584024
KRT20	1.912390245	1.91340481	0.000765178	0.645918189
KRT222P	6.042472868	6.175890148	0.031508001	0.499883444
KRT23	3.027012927	3.242691268	0.099296837	0.059010122
KRT24	2.445799007	2.605471289	0.091238507	0.086604409
KRT25	1.989183132	1.96046719	-0.020978605	0.36032778
KRT26	1.847840265	1.872858768	0.01940206	0.530611145
KRT27	2.610866192	2.647131873	0.019901547	0.518027411
KRT28	1.955741212	2.009664845	0.039239439	0.137844106
KRT3	3.581813517	3.568827085	-0.005240225	0.980186899
KRT31	2.654900477	2.633358711	-0.011753724	0.729632302
KRT32	2.263422298	2.265348739	0.001227383	0.711561613
KRT33A	2.040457384	2.005005563	-0.02528634	0.747331634
KRT33B	2.041565675	2.090628845	0.034260981	0.143420447
KRT34	1.96282106	1.937340655	-0.018851001	0.903909833
KRT35	1.968250086	1.986426894	0.013262158	0.379472579
KRT36	2.017064947	2.083066127	0.046451101	0.28775508
KRT37	1.854477172	1.818581542	-0.028198894	0.316173696
KRT38	2.033139636	2.022980042	-0.007227216	0.850618799
KRT4	2.207988053	2.11246681	-0.063803691	0.057272511

ZAN	2.393506404	2.557885197	0.095825849	0.001618155
KRT5	2.168412583	2.071089585	-0.066249325	0.09113478
KRT6A	2.073200748	2.00795062	-0.046136029	0.333114507
KRT6B	1.865742927	1.935104761	0.052661454	0.515350956
SERAC1	2.120677821	2.267122155	0.096336668	0.009339942
KRT7	1.948957113	1.98826631	0.028808661	0.326949525
KRT71	2.101232166	2.03900243	-0.04337208	0.323218832
KRT72	2.034844748	2.012567218	-0.015881757	0.537415331
KRT73	1.935179159	1.889798718	-0.034234556	0.379846491
KRT74	2.017035318	1.926713465	-0.066094311	0.066301463
KRT75	1.885829325	1.836204261	-0.038472558	0.352056544
KRT76	2.117782252	2.105959641	-0.008076472	0.839279002
KRT77	2.003750444	1.936537134	-0.049223674	0.091531664
KRT78	1.834295801	1.753347261	-0.06511455	0.051729671
KRT79	1.944980338	1.976788493	0.023402947	0.599600145
KRT8	5.984847205	5.883932211	-0.02453379	0.203588935
KRT80	1.963253119	2.041734246	0.056548907	0.018653321
KRT81	5.31931757	5.346799937	0.007434526	0.864701049
KRT82	1.871343854	1.881515507	0.007820506	0.669366829
KRT83	2.011958007	1.922040021	-0.065961817	0.09313362

KRT85	3.023964616	2.997598866	-0.012633921	0.673391392
KRT86	3.364608907	3.363511676	-0.000470553	0.947198196
KRT8P15	2.182652417	2.196407549	0.009063373	0.782594297
KRT9	2.702277801	2.719314028	0.009066769	0.817773286
KRTAP1-1	2.059744576	2.040489042	-0.01355048	0.723418935
KRTAP1-3	7.019637497	6.965034493	-0.011266032	0.550233698
SEC14L4	2.718163967	2.907129085	0.096962647	0.004309133
KRTAP10-10	3.728291066	3.681558831	-0.018197739	0.308574359
KRTAP11-1	2.351344656	2.258241486	-0.058286252	0.175021392
KRTAP12-1	2.014130536	1.986479592	-0.019943216	0.884270115
KRTAP12-2	1.936317563	1.920516915	-0.011820908	0.920869617
KRTAP13-1	1.954091934	1.928478711	-0.019035123	0.460010724
KRTAP13-2	2.032728099	1.976837225	-0.040223168	0.082258087
KRTAP13-3	1.934822166	1.869828387	-0.049295105	0.21535643
KRTAP13-4	2.348615503	2.347143718	-0.000904364	0.734303925
KRTAP15-1	1.902604781	1.927102408	0.018457331	0.596725703
KRTAP17-1	1.931660616	1.836556873	-0.072838068	0.040408935
KRTAP19-1	2.386298636	2.326638239	-0.036527693	0.106623159
KRTAP2-1	2.539564649	2.547249732	0.004359208	0.855488236
KRTAP2-4	7.181555934	7.186911021	0.001075377	0.982938253

KRTAP3-1	2.027592132	2.061333092	0.023810178	0.373886816
KRTAP3-2	1.98929004	1.899251592	-0.066822607	0.071562855
KRTAP3-3	2.01921455	2.025446049	0.004445446	0.881003345
KRTAP4-1	7.502628397	7.476370761	-0.005057988	0.656852152
KRTAP4-11	3.430241503	3.398243458	-0.013520938	0.49681921
KRTAP4-12	2.200606325	2.222531042	0.014302491	0.697730729
KRTAP4-2	1.948675232	1.901445338	-0.035397204	0.556698717
KRTAP4-3	1.876500384	1.815935021	-0.047332005	0.336225098
KRTAP4-4	1.865927172	1.911775486	0.035020428	0.303359115
KRTAP4-5	2.053582212	2.096160789	0.02960668	0.314843234
KRTAP4-7	4.803461596	4.83449457	0.009290616	0.860905323
KRTAP5-8	3.866386709	3.77578269	-0.034210206	0.305307869
KRTAP5-9	3.198186934	3.246325303	0.021553308	0.3208589
KRTAP6-3	2.483728318	2.593271683	0.062265984	0.057634648
KRTAP7-1	1.943848258	1.995667458	0.037955738	0.240345238
KRTAP8-1	2.195044967	2.146989401	-0.031935425	0.409337511
KRTAP9-2	1.912275589	1.928880183	0.012473076	0.955988677
KRTAP9-3	1.930326325	1.860773866	-0.052942018	0.087751632
KRTAP9-4	1.887669609	1.829430042	-0.04521203	0.146081148
KRTAP9-8	1.909596735	1.89786869	-0.008887826	0.638506588

KRTAP9-9	1.963903113	1.927524197	-0.026974786	0.456248899
KRTCAP2	9.745874073	9.692420352	-0.007934607	0.28712817
KRTCAP3	3.167688556	3.243086894	0.033937181	0.222857595
KRTDAP	2.392495649	2.25838638	-0.083223968	0.045439412
KSR1	2.472121185	2.414763669	-0.033867467	0.102060797
KSR2	2.521728172	2.641961915	0.0671969	0.072875569
KTELC1	4.63220855	4.576951725	-0.017313132	0.353486452
KTI12	3.347699649	3.369425014	0.009332322	0.918131554
KTN1	10.33271407	10.32754947	-0.000721282	0.79640109
KY	2.294624748	2.317039577	0.014024445	0.617947621
KYNU	4.50663296	4.361588239	-0.047196378	0.240345407
L1CAM	3.04763257	3.078677915	0.014621965	0.642455186
OLFM2	3.371373974	3.606078296	0.097094052	0.014575529
L2HGDH	3.229078444	3.377354634	0.064771187	0.178781353
L3MBTL	4.024181709	3.881028958	-0.052256253	0.028106829
L3MBTL2	6.074612722	6.057265592	-0.004125764	0.401548651
L3MBTL3	5.042042298	5.020845	-0.006078033	0.99449584
L3MBTL4	2.216546781	2.158576063	-0.038233881	0.450845578
LACE1	3.977995715	3.999533958	0.007790179	0.628191167
LACRT	1.958476325	1.986893148	0.020782601	0.105134079

LACTB	3.229214616	3.146587035	-0.037395478	0.114162805
LACTB2	4.865492589	4.886944246	0.006346773	0.923060751
LAD1	2.458884967	2.597906472	0.079345249	0.161808435
LAG3	5.424595649	5.571658099	0.038591128	0.049051798
LAGE3	10.16224562	10.116657	-0.006486603	0.093264139
LAIR1	4.279472073	4.186461324	-0.031701536	0.411691196
LAIR2	2.121228311	2.086804789	-0.02360426	0.291210356
LALBA	1.92280455	1.906484	-0.012297699	0.870672299
LAMA1	2.391581702	2.343639563	-0.029214368	0.331737939
LAMA2	4.111718477	4.049980303	-0.021826597	0.541062571
LAMA3	3.207898669	3.17636369	-0.014252462	0.391559123
LAMA4	6.703781589	6.396784486	-0.067628268	0.069101652
LAMA5	4.676172768	4.594312113	-0.025479364	0.459592042
LAMB1	7.931966781	7.630845521	-0.055835715	0.30693789
LAMB2	10.88126105	10.81999578	-0.008145826	0.749944338
LAMB2L	2.360667113	2.362273627	0.000981469	0.93731667
LAMB3	4.221378722	4.149007085	-0.024948146	0.464210712
LAMB4	1.914063444	1.930082324	0.012023734	0.654858475
LAMC1	6.418083583	6.257434894	-0.036571203	0.48337331
LAMC2	2.475351073	2.413245148	-0.036658675	0.471824652

LAMC3	6.09692143	5.782442493	-0.076401941	0.24062157
LAMP1	11.45541161	11.34333713	-0.014184165	0.035916836
LAMP2	7.036742053	7.062983444	0.005370086	0.691615323
LAMP3	2.887329927	2.78988957	-0.049527951	0.357437062
LANCL1	4.662120099	4.775632775	0.034705734	0.352413864
LANCL2	2.766292417	2.858690944	0.047400989	0.06528841
LANCL3	2.74134706	2.778623958	0.019485614	0.850618781
LAP3	8.220124404	8.265744366	0.007984518	0.654360699
LAPTM4A	10.74600063	10.60790603	-0.018659927	0.380216937
LAPTM4B	10.26809863	10.5325132	0.036680666	0.049449256
LAPTM5	5.326628914	5.240279366	-0.023579052	0.5655316
LARGE	6.470539013	6.550562232	0.01773284	0.490722584
LARP1	7.820357808	7.790789056	-0.005465164	0.155690356
LARP2	5.531042748	5.600854648	0.018095496	0.259359852
LARP4	5.300583397	5.313496599	0.003510398	0.981837689
LARP5	7.074513603	7.072442683	-0.000422381	0.847375385
LARP6	9.016850252	9.061064711	0.007057021	0.70079453
LARP7	7.957730232	7.962385514	0.000843732	0.657350542
LARS	7.110675007	7.126866338	0.003281348	0.883180902
LARS2	6.748259053	6.678516246	-0.01498774	0.135119398



LAS1L	9.19311398	9.221924141	0.00451417	0.959286379
LASP1	7.085563927	7.040251127	-0.009255788	0.339005603
LASS2	6.811465497	6.724262915	-0.018589095	0.267607707
LASS3	1.810148748	1.858212479	0.037807222	0.572551764
LASS4	6.527598603	6.644193824	0.025541815	0.054096784
LASS5	3.319321921	3.308669944	-0.004637171	0.858737708
LASS6	7.304733026	7.200043246	-0.020825974	0.139129901
LAT	6.201727576	6.051502775	-0.035376701	0.00949119
LAT2	5.538654199	5.413961169	-0.032850928	0.315840865
LATS1	3.236132033	3.210772493	-0.011350027	0.848456329
LATS2	6.731958788	6.434734345	-0.065145756	0.043181551
LAX1	2.420890808	2.445960423	0.014863051	0.479935641
LAYN	5.650514093	5.71387381	0.016087043	0.2541522
LBA1	3.781301868	3.700863366	-0.031021154	0.184190898
LBH	7.080567086	7.15435181	0.014956152	0.320522787
LBP	2.214494411	2.230075014	0.010114884	0.765165153
LBR	8.100929371	8.044235634	-0.010132087	0.48898779
LBX1	12.2125153	12.22839915	0.00187518	0.815625016
LBX2	2.179163272	2.143706972	-0.023666579	0.4820826
LCA5	6.562584616	6.556615373	-0.001312854	0.963684787

LCA5L	2.775598914	2.902677775	0.06458532	0.088136993
LCAT	4.21420043	4.102067268	-0.038907781	0.150926367
LCE1A	8.517779675	8.529064697	0.00191013	0.925252291
LCE1B	1.785254219	1.778444676	-0.005513432	0.846294979
LCE1C	8.281811834	8.316952352	0.006108542	0.514460152
LCE1D	10.95308235	10.9606272	0.000993434	0.505595243
LCE1E	1.941055907	1.97642862	0.02605418	0.36032778
LCE1F	2.848581934	2.878576859	0.01511183	0.268800576
LCE2A	3.273471762	3.199061789	-0.033172676	0.141356065
LCE2B	1.983525609	1.954855444	-0.021005096	0.398074121
LCE2C	2.823091358	2.815421415	-0.003924934	0.839818161
LCE2D	4.178999377	4.141741972	-0.012919866	0.437293819
LCE3A	2.091403576	2.065825662	-0.017752976	0.811882491
LCE3B	2.236856921	2.239069366	0.001426245	0.906642518
LCE3C	2.024534762	2.01076793	-0.00984383	0.406991571
LCE3D	2.065512033	2.109671415	0.03051885	0.445890578
LCE3E	5.14990957	5.204928634	0.015331283	0.144936238
LCE4A	2.160029437	2.222731204	0.04128252	0.238142135
LCE5A	12.69822793	12.67776749	-0.002326465	0.818837159
IRF6	2.711682106	2.900494268	0.097110709	0.010654714

LCLAT1	5.411681861	5.41507243	0.000903605	0.867414361
LCMT1	8.622679278	8.671402908	0.0081292	0.144745419
LCMT2	5.444955483	5.55896112	0.029895038	0.161395207
LCN1	2.156407788	2.195438845	0.025879323	0.515351107
LCN12	2.611226298	2.763092796	0.081556522	0.006761883
LCN2	2.458497238	2.358639155	-0.059822015	0.840357621
LCN6	2.24426245	2.183596986	-0.039534788	0.648396746
LCN8	2.227321172	2.165628761	-0.040523652	0.25043665
LCOR	5.596383609	5.631289923	0.008970572	0.916489169
LCORL	2.320425272	2.324932437	0.002799555	0.59672579
LCP1	8.243747093	8.117638606	-0.022240132	0.426382454
LCP2	4.658973318	4.526289613	-0.04168317	0.252718654
LCT	2.030661179	1.99727231	-0.023918498	0.733264821
LDB1	3.813132603	3.832619211	0.007353965	0.537870621
LDB2	4.399859331	4.158953873	-0.081236716	0.010321729
LDB3	3.270055298	3.238397817	-0.01403481	0.923608665
LDHA	10.05066121	10.31133619	0.03694088	0.025500171
SOX9	4.453255603	4.764603817	0.097495837	0.001182851
LDHAL6A	1.98899649	1.895484028	-0.06947443	0.091002601
LDHAL6B	1.83316051	1.875173056	0.032690633	0.49900719

LDHB	12.3040076	12.3245143	0.002402493	0.601509088
LDHC	2.820595079	2.899279697	0.039694949	0.13530002
LDHD	6.433918093	6.527168746	0.020759768	0.496819929
LDLR	7.316572636	7.276431	-0.007936993	0.959836267
LDLRAD1	1.912433377	1.99843593	0.06346183	0.035194681
LDLRAD3	2.229841556	2.194118746	-0.023299595	0.93128262
LDLRAP1	4.018647199	4.006153676	-0.004492163	0.905549366
LDOC1	3.871912609	3.996724423	0.04577171	0.088781846
LDOC1L	6.885421735	6.919004937	0.007019547	0.635551992
LEAP2	5.237344199	5.14380693	-0.025998929	0.253865016
TLCD1	3.40481494	3.643595331	0.097786351	4.31E-06
LECT2	1.893172503	1.831194923	-0.048020506	0.066505535
LEF1	5.525925205	5.235809458	-0.07780344	0.130671261
LEFTY1	3.242506675	3.230220528	-0.005476883	0.97743578
RGS1	6.823379146	7.302105141	0.097826059	0.018861912
LELP1	1.972517808	1.929780197	-0.031601792	0.350986879
RTDR1	3.958697212	4.237003183	0.098018488	0.000587063
LEMD2	8.078154808	8.038140465	-0.007164005	0.578197698
LEMD3	6.772988722	6.877891296	0.022173721	0.293740424
LENEP	2.034953576	2.057774746	0.016089184	0.682480068

LENG1	4.113365252	4.089971324	-0.008228456	0.777829474
LENG8	8.227364013	8.219263204	-0.001421203	0.734303743
LENG9	2.511376536	2.548874261	0.021381854	0.806002327
LE01	7.441079755	7.460071782	0.00367753	0.605367228
LEP	2.022630338	1.998494768	-0.017318877	0.349563274
LEPR	5.631389298	5.071588218	-0.151053276	0.025319533
LEPRE1	6.879078828	6.754307521	-0.026407521	0.399230503
LEPREL1	9.040209781	9.029147535	-0.001766466	0.979086385
LEPREL2	8.00789998	7.978564254	-0.005294799	0.617946615
LEPROT	8.483277735	8.432195732	-0.008713439	0.853864268
LEPROTL1	8.749642265	8.756050887	0.001056306	0.880458888
LETM1	5.128305735	5.050945831	-0.021928704	0.194659605
LETM1P2	2.265701768	2.283394486	0.011222152	0.317507901
LETM2	2.635583861	2.670584887	0.019033145	0.529707184
LETMD1	7.453421954	7.500004261	0.008988479	0.275425539
LFNG	5.680750503	5.778756782	0.024677609	0.098918182
LGALS1	11.27811484	11.0518518	-0.029237818	0.010362185
LGALS12	3.404952868	3.607608958	0.08340814	0.028805885
LGALS13	2.028985781	2.13807343	0.075552646	0.021528817
LGALS14	1.944929212	1.911208092	-0.025232781	0.738464582

LGALS2	3.088698192	3.105888021	0.008006909	0.57819797
LGALS3	9.739729093	9.837053183	0.014344557	0.770433787
LGALS3BP	5.666581272	5.692634838	0.00661796	0.719803158
LGALS4	2.451465192	2.427748739	-0.01402516	0.785775208
LGALS7	2.949067815	3.060859965	0.053678045	0.048577569
LGALS7B	2.477716775	2.451694577	-0.015232019	0.856029723
LGALS8	5.378275305	5.374839683	-0.000921883	0.945001558
LGALS9	3.36932345	3.382141063	0.005477902	0.814023459
LGALS9C	7.802266868	7.686820592	-0.021506348	0.438516297
LGI1	6.288882715	6.120163986	-0.039233421	0.66786031
LGI2	4.689895212	4.627329528	-0.019375847	0.574901346
LGI3	6.16485894	6.041558725	-0.029147071	0.170458674
LGI4	7.954236927	8.109819873	0.027946336	0.07465586
LGMN	5.696550311	5.640062683	-0.014377327	0.644928045
LGR4	6.45633243	6.615984887	0.035241075	0.232697058
LGR5	2.093049623	2.01744357	-0.053078195	0.186250747
LGR6	2.888264212	2.861312401	-0.013525701	0.808673599
LGSN	1.929678212	1.91568331	-0.010501205	0.709506429
LGTN	5.295926331	5.206379387	-0.024602609	0.180795823
LHB	3.393546503	3.404641232	0.004708998	0.667358148

LHCGR	1.905093298	1.856164162	-0.037537342	0.551155099
LHFP	8.958618477	8.970517007	0.001914867	0.886993667
LHFPL1	1.93445604	2.003826239	0.050829467	0.048420314
LHFPL2	6.464712788	6.384128077	-0.018096681	0.783654065
LHFPL3	3.874836828	4.115051648	0.086774979	0.26405152
LHFPL4	7.892402874	8.156618458	0.047506567	0.273909103
LHFPL5	2.258876517	2.202372169	-0.036547123	0.416027231
LHPP	8.344346298	8.355464113	0.001920934	0.638506348
LHX1	4.635263682	4.72828693	0.028666176	0.348498308
LHX2	7.984717649	8.448176859	0.081398644	0.000221828
LHX3	1.959623947	2.01063357	0.037073354	0.508249601
LHX4	2.45419094	2.450819972	-0.001982985	0.97578522
LHX5	1.992900159	1.903497296	-0.066216915	0.097934682
OR7E91P	2.629002079	2.814183289	0.098201012	0.002176671
LHX9	2.119460351	2.176096338	0.03804545	0.27664248
LIAS	4.377235497	4.443538683	0.021689044	0.452504219
LIF	3.022425424	3.174019683	0.070604332	0.046339672
LIFR	9.008597344	8.795085	-0.034604973	0.018861813
LIG1	7.254553536	7.321680831	0.013288055	0.517580612
LIG3	3.26679657	3.260501486	-0.002782741	0.940060628

LIG4	2.309478483	2.338037458	0.017730938	0.323556788
LILRA1	2.719954669	2.653231373	-0.035832117	0.363232956
LILRA2	2.637495066	2.612927535	-0.01350128	0.756756717
LILRA3	3.130628291	3.066240085	-0.02998156	0.463790005
LILRA4	3.195106113	3.159199056	-0.016305003	0.27029659
LILRA5	2.692140477	2.643593761	-0.026253196	0.590996287
LILRB1	2.504144371	2.532605099	0.0163044	0.427989176
LILRB2	6.434519404	6.265398246	-0.038426183	0.434044375
LILRB3	6.825172775	6.754068359	-0.015108786	0.73950607
LILRB4	2.147112225	2.176372049	0.019527606	0.863074002
LILRB5	5.21554247	4.852422127	-0.104112255	0.092463636
LILRP2	3.208895073	3.226700542	0.007983077	0.755183274
LIM2	2.136562954	2.103557366	-0.022460664	0.639492773
LIMA1	7.557891	7.385915056	-0.033207042	0.058364786
LIMCH1	9.320983007	9.274650613	-0.007189177	0.626722445
LIMD1	2.363234	2.381820725	0.011302341	0.928541153
LIMD2	3.457221397	3.386105507	-0.029986069	0.557162011
LIME1	3.775912099	3.77433288	-0.000603512	0.866328879
LIMK1	4.615085954	4.77576907	0.04937556	0.031208772
LIMK2	7.365637066	7.410778669	0.008814826	0.400388736



LIMS1	5.672945834	5.689300183	0.004153114	0.969184126
LIMS2	7.012413815	6.704860676	-0.064703781	0.099342105
LIMS3	4.365093788	4.324401127	-0.0135123	0.831199435
LIN28	1.951407808	1.886666106	-0.048676183	0.220509863
LIN28B	2.221052285	2.269121437	0.030890465	0.444656585
LIN37	6.880916344	6.892018465	0.002325863	0.985689823
LIN52	4.131090139	4.276698415	0.049974935	0.005621863
LIN54	2.694634987	2.672351408	-0.011980128	0.750992567
LIN7A	4.985019954	5.042829514	0.016634173	0.636536216
LIN7B	8.061224709	8.188499746	0.022600115	0.380221142
LIN7C	4.541477967	4.527751232	-0.004367186	0.960935766
LIN9	4.280647444	4.317348225	0.012316442	0.630640512
LINCR	2.299106629	2.386511162	0.053829706	0.091664422
LING01	8.467007331	8.509660817	0.007249491	0.655356751
LING02	4.999089172	5.210619803	0.05978973	0.216124028
LING04	2.280436762	2.301755521	0.013424443	0.794275067
LINS1	3.57949653	3.584082901	0.001847327	0.826897315
LIPA	7.574101841	7.446433021	-0.024525306	0.329338295
LIPC	2.410611298	2.374042732	-0.022053137	0.386242773
LIPE	8.842843795	8.884105831	0.006716174	0.80279927

LIPF	1.807568099	1.837060852	0.023349415	0.568802057
LIPG	4.829169642	4.957461176	0.03782633	0.472249807
LIPH	2.902016583	2.945809965	0.021608601	0.685013259
LIPI	2.013273675	1.991586676	-0.01562503	0.824748447
LIPT1	4.001715344	3.972151775	-0.010697798	0.665853227
LITAF	6.383192371	6.441326972	0.0130798	0.84791592
EDIL3	5.709847636	6.112509211	0.098312486	0.00247509
LIX1L	4.989922728	4.90051112	-0.026085246	0.114796054
LL22NC03-75B3.6	3.142606947	3.327258451	0.082372092	0.14436651
LLGL1	2.377483735	2.316878796	-0.037252898	0.270896499
LLGL2	5.547745093	5.604431289	0.014666482	0.451260239
LLPH	5.049153212	4.988678739	-0.01738369	0.311863411
LMAN1	3.980481066	3.961975063	-0.006723	0.318511002
LMAN1L	2.661528457	2.723730542	0.033328993	0.089952082
LMAN2	8.584573444	8.591830873	0.001219144	0.6306399
LMAN2L	6.886665212	6.719530542	-0.0354451	0.07309611
LMBR1	4.000652351	4.089911183	0.031834247	0.283708226
LMBR1L	6.346895497	6.261391683	-0.019567736	0.27908642
LMBRD1	9.262875093	9.300781225	0.005891842	0.184874095
LMBRD2	3.002371033	3.010886887	0.004086234	0.774657682

LMCD1	9.214865901	9.247350662	0.005076926	0.805467916
LMF1	3.991335848	4.103236303	0.039890562	0.024299563
LMF2	3.786047139	3.760534754	-0.009754544	0.659846771
LMLN	4.886131338	4.884748408	-0.000408386	0.486392298
LMNA	9.145739086	8.994749394	-0.024016675	0.390795524
LMNB1	4.019979205	4.280237683	0.090502874	0.024782845
LMNB2	5.023349596	4.940755965	-0.023917882	0.115273333
LMO1	7.639644682	7.724953655	0.016020737	0.623791694
LMO2	8.600521576	8.296218254	-0.051970306	0.08385128
LMO3	4.987174146	4.854145	-0.039005377	0.590519961
LMO4	7.449144649	7.422748507	-0.005121288	0.689581467
DDX25	3.831010834	4.101308486	0.098359156	0.009761171
LMOD1	8.124313272	8.022251021	-0.018238761	0.153294577
LMOD2	2.171220073	2.087466986	-0.056752583	0.30368389
LMOD3	2.338193252	2.364656986	0.01623675	0.390416351
LMTK2	3.534136523	3.604149845	0.028301221	0.6126112
LMTK3	3.839426079	3.94357181	0.038612242	0.152304695
LMX1A	2.315083219	2.291483134	-0.014782387	0.358880362
LMX1B	2.146158093	2.080109021	-0.04509721	0.05349669
LNPEP	3.015107795	2.967331042	-0.023043695	0.755183303

LNX1	2.932679642	3.041419944	0.052525546	0.231349797
LNX2	5.613821781	5.702881901	0.022707893	0.143420447
LOC100009676	2.843221192	2.881177056	0.019131981	0.454582306
LOC100125556	2.088307576	2.106998697	0.012855207	0.441375567
LOC100126784	2.751036821	2.864995134	0.058557239	0.091664422
LOC100127955	2.204516113	2.186029704	-0.012149017	0.929637627
LOC100127972	1.916755742	1.858908944	-0.044210398	0.386620648
LOC100127980	5.070288278	5.083792486	0.003837367	0.700795787
LOC100127983	2.972739252	2.862676725	-0.054428166	0.175680676
LOC100127984	3.239497834	3.199283641	-0.018021289	0.818845567
LOC100127993	11.55414556	11.45193523	-0.012819159	0.039735641
LOC100127998	3.872993099	4.134031394	0.094100414	0.202854017
LOC100128003	2.413397523	2.46076919	0.028043776	0.265529322
LOC100128056	3.761393967	3.671575204	-0.034868271	0.133683383
LOC100128079	4.11663196	4.151804035	0.012273877	0.738985311
LOC100128098	2.033406325	2.015394937	-0.012835953	0.809208409
LOC100128116	2.372633159	2.425154176	0.03158741	0.608259975
LOC100128139	2.400191073	2.423416437	0.013893077	0.550694304
LOC100128140	8.374187907	8.422969324	0.008379621	0.314843234
LOC100128164	3.289904748	3.246383613	-0.019212327	0.479506761

LOC100128175	1.878295841	1.959268915	0.060891113	0.154689707
LOC100128176	1.929874033	1.885354007	-0.033671244	0.317507728
LOC100128180	2.08106396	2.048723514	-0.022596008	0.643938293
LOC100128185	1.834742563	1.807000887	-0.021980435	0.180571089
LOC100128203	2.005289291	2.044041077	0.027613808	0.523401551
LOC100128219	1.925489841	1.896534514	-0.021859885	0.525199102
LOC100128239	4.617676	4.527959831	-0.02830579	0.53151579
LOC100128244	2.845612861	2.86129231	0.007927491	0.415632098
LOC100128252	4.460439384	4.574127585	0.036310774	0.229205545
LOC100128262	1.879806185	1.924967366	0.034250065	0.614549288
LOC100128266	1.929486636	1.951477246	0.01634959	0.335878685
LOC100128286	1.916697854	1.920421056	0.002799729	0.654858744
LOC100128288	2.955672093	3.037162528	0.03923789	0.241175241
LOC100128295	7.043327252	7.041417958	-0.000391136	0.394616371
LOC100128311	1.852050073	1.808601169	-0.034248803	0.490288667
LOC100128328	2.59752855	2.627233317	0.016404722	0.391559066
LOC100128343	3.129373947	2.959006176	-0.080761357	0.008971184
LOC100128361	2.628836702	2.710710887	0.044246722	0.107826502
LOC100128364	4.705882325	4.758200049	0.015950683	0.334839961
LOC100128398	4.028745119	3.989055106	-0.014283482	0.562269656

LOC100128416	3.270581126	3.35524381	0.036870604	0.521606915
LOC100128439	4.303436768	4.201415099	-0.03461394	0.186250694
LOC100128485	7.273281132	7.168516444	-0.020931764	0.053667518
LOC100128496	1.929110411	1.905700014	-0.017614682	0.807604852
LOC100128548	7.853377517	7.816554162	-0.006780498	0.59194929
LOC100128588	1.942513801	1.87109169	-0.054044591	0.021489653
LOC100128616	1.925313682	1.926396718	0.000811323	0.887538812
LOC100128626	2.159179841	2.173562514	0.009578177	0.834967674
LOC100128661	2.901253689	3.025939303	0.060706597	0.145317348
LOC100128663	1.991296113	1.890405986	-0.075011668	0.029934367
LOC100128701	1.944057821	1.946017007	0.00145319	0.755707605
LOC100128731	9.412370417	9.297739246	-0.017678132	0.090475077
LOC100128737	5.210429583	5.171418345	-0.010842306	0.760432042
LOC100128760	7.390036967	7.579226563	0.036469052	0.003027079
LOC100128809	2.759759596	2.752653831	-0.003719408	0.958187205
LOC100128822	6.231798013	6.486502423	0.057792301	0.0701633
LOC100128836	6.452381424	6.517848845	0.014564171	0.394233815
LOC100128840	1.862090238	1.895868521	0.025935928	0.762008603
LOC100128842	2.636898344	2.587327915	-0.027379043	0.559016733
LOC100128868	2.063086033	2.15306438	0.061587475	0.08711305

LOC100128893	1.940554834	1.972045373	0.023223546	0.61746145
LOC100128909	2.267692139	2.192238725	-0.048819884	0.21689332
LOC100128918	4.240697795	4.377790915	0.045901377	0.497256828
LOC100128922	2.106107444	1.984786627	-0.085595118	0.044480704
LOC100128942	5.464379377	5.486893873	0.005932022	0.784184151
LOC100128961	4.773787735	4.847169817	0.022008208	0.404265053
LOC100128974	2.457670841	2.4612675	0.002109757	0.79693639
LOC100128977	7.501229755	7.534493592	0.006383418	0.477793645
LOC100128979	2.037978424	2.003172204	-0.024852329	0.930185905
LOC100128988	2.001250046	1.918494289	-0.060926966	0.299808529
LOC100128993	1.872686993	1.989077535	0.086989731	0.03448201
LOC100129014	2.001581325	1.885613725	-0.086106069	0.011282725
LOC100129038	1.974647914	1.937628528	-0.027303428	0.209037403
LOC100129058	1.929478166	1.888195106	-0.031202873	0.888083756
LOC100129094	1.906062854	1.879394669	-0.020327633	0.803333046
LOC100129104	6.451961722	6.412642366	-0.008818929	0.82582283
LOC100129113	3.465308576	3.627511648	0.065996421	0.02289846
LOC100129115	3.103788166	3.049150768	-0.025622609	0.380595621
LOC100129122	10.16745009	10.14624393	-0.003012159	0.627210486
LOC100129138	4.76351749	4.744299803	-0.005832106	0.839818198

LOC100129166	1.920312477	1.800938761	-0.092591964	0.122449294
LOC100129196	2.616681636	2.575235183	-0.023034214	0.447951472
LOC100129198	1.888289086	1.866096859	-0.017055779	0.780475543
LOC100129253	2.218080967	2.215811415	-0.001476928	0.965334411
LOC100129291	2.019318722	1.976072993	-0.0312324	0.533781017
LOC100129292	5.035992675	5.046454176	0.002993869	0.880459086
LOC100129312	1.928085781	1.929969056	0.001408477	0.871215488
LOC100129366	2.14146043	2.225062634	0.055250928	0.078323641
LOC100129385	2.240993093	2.290620479	0.031600244	0.300451978
LOC100129387	4.817268675	4.748448324	-0.020759237	0.276337788
LOC100129395	3.386812477	3.377562232	-0.003945757	0.970284163
LOC100129397	2.136787205	2.035162035	-0.070299579	0.072765554
LOC100129424	11.457295	11.43385523	-0.002954544	0.825820786
LOC100129434	2.657008921	2.691884	0.01881317	0.415631986
LOC100129447	2.161761722	2.234651521	0.047842358	0.313516629
LOC100129449	1.861585517	1.85194619	-0.007489711	0.44055728
LOC100129455	2.25952945	2.232778218	-0.017182405	0.538326297
LOC100129476	1.904992523	1.933263007	0.021252584	0.347081412
LOC100129478	2.416089702	2.456671225	0.024030777	0.400389073
LOC100129488	1.832717801	1.85041631	0.013865228	0.903909879



LOC100129490	1.976709596	1.929751289	-0.034686015	0.19608785
LOC100129500	4.251758093	4.495197028	0.080324836	0.000224856
LOC100129502	2.195242748	2.223437289	0.018411234	0.620379807
LOC100129503	2.905076934	2.810829408	-0.047580472	0.499006986
LOC100129510	2.123858126	2.044613563	-0.054859201	0.105430692
LOC100129515	1.923290364	1.958358535	0.02606833	0.673391245
LOC100129522	2.218786497	2.277124472	0.037442304	0.311863295
LOC100129553	9.634858033	9.585032972	-0.007480014	0.383597459
LOC100129566	3.046749583	3.053078366	0.002993694	0.741069003
LOC100129572	2.107158642	2.118382373	0.007664088	0.777300764
LOC100129620	1.890842914	1.902827056	0.009114931	0.73326479
LOC100129631	2.15803951	2.220383556	0.041087636	0.141169769
LOC100129637	4.052994907	3.945552225	-0.038761126	0.030993202
LOC100129648	2.319322139	2.243743754	-0.047795293	0.287755425
LOC100129720	2.11125206	2.077614239	-0.023171023	0.499007139
LOC100129742	11.02322156	10.95722539	-0.008663393	0.44177665
LOC100129743	2.141702417	2.100573979	-0.02797444	0.471399707
LOC100129754	2.138301755	2.0875895	-0.034627408	0.20953809
LOC100129775	1.944366232	1.941264627	-0.002303189	0.93621931
LOC100129781	2.439348987	2.358857915	-0.048407652	0.107524725

LOC100129788	2.420351636	2.431309451	0.006516866	0.871215564
LOC100129857	1.901167854	1.929602676	0.0214179	0.263461455
LOC100129858	2.13100045	2.126218965	-0.00324072	0.756232105
LOC100129884	1.841097954	1.859936676	0.014687118	0.930185914
LOC100129917	2.577924841	2.530339662	-0.026879144	0.243955859
LOC100129946	2.585950748	2.606320035	0.011319448	0.815094431
LOC100129969	2.228201656	2.1973985	-0.020083277	0.826360083
LOC100129973	2.261782113	2.242726803	-0.012206065	0.645918346
LOC100130054	2.581525258	2.734071042	0.082827017	0.077973795
LOC100130078	2.061435589	2.070942317	0.006637986	0.705402674
LOC100130107	3.71229449	3.709020831	-0.001272791	0.907735959
LOC100130127	3.292301603	3.231233599	-0.027011452	0.126508167
LOC100130152	6.98382806	6.972029944	-0.002439275	0.605367185
LOC100130155	7.091534106	7.457375979	0.072570321	0.243397481
LOC100130171	1.978527126	1.885633268	-0.069377728	0.02087114
LOC100130173	2.735136457	2.784822451	0.025972539	0.639492653
LOC100130176	2.330839987	2.350777408	0.012287973	0.403876492
LOC100130193	2.031213801	2.013121803	-0.012907638	0.392703754
LOC100130211	2.061029199	2.173351542	0.076556607	0.006961237
LOC100130233	7.851042709	7.800182254	-0.00937644	0.383224685

LOC100130264	1.858349523	1.847149915	-0.008720912	0.556698576
LOC100130274	2.729474848	2.635423514	-0.05058858	0.100908906
LOC100130285	2.220119967	2.181006408	-0.025643627	0.183054227
LOC100130288	2.203983291	2.242593239	0.025054682	0.428793746
LOC100130289	9.014763762	9.020606106	0.000934688	0.937316558
LOC100130315	1.962707993	1.998836711	0.026315072	0.180122243
LOC100130332	3.872272768	3.839277324	-0.012345807	0.601039625
LOC100130357	3.292113901	3.160004211	-0.05908777	0.116552936
LOC100130360	4.961474834	4.920540915	-0.011952116	0.488554855
LOC100130401	2.854441795	2.801299387	-0.027112466	0.651873092
LOC100130433	2.248107702	2.246742507	-0.000876363	0.899539988
LOC100130456	2.712658219	2.705048437	-0.004052859	0.742633094
LOC100130464	1.993095205	1.950463261	-0.031193802	0.261991835
LOC100130476	2.783326099	2.906039697	0.062244463	0.13711355
LOC100130507	2.08438894	2.190005514	0.071309997	0.080330893
LOC100130518	2.967612093	3.153174817	0.087502633	0.045962785
LOC100130557	6.723268007	6.716364268	-0.001482182	0.896264506
LOC100130564	3.803554139	3.860962549	0.02161242	0.603923128
LOC100130600	2.388128258	2.378673585	-0.005723011	0.470551034
LOC100130605	1.798722066	1.787383437	-0.009123122	0.486823782

LOC100130623	3.022713821	2.864348669	-0.077637278	0.047254876
LOC100130644	1.924498205	1.901103063	-0.01764558	0.220769947
LOC100130654	1.837171205	1.858371718	0.016553027	0.699773557
LOC100130691	3.126061046	3.143202225	0.007889142	0.499883546
LOC100130700	1.983887026	1.909676768	-0.055001405	0.051729699
LOC100130703	1.946294914	2.051893592	0.076225584	0.016613174
LOC100130713	2.391926781	2.430021183	0.022795662	0.479935694
LOC100130716	2.067550583	2.041634134	-0.018198271	0.933476358
LOC100130729	2.649190331	2.797541761	0.078608169	0.033036778
LOC100130741	1.993292232	2.007617648	0.010331297	0.624768309
LOC100130744	3.147576934	3.092299408	-0.025561628	0.374628737
LOC100130776	3.188582841	3.268411754	0.035674382	0.066199636
LOC100130794	5.45966143	5.440327549	-0.005117973	0.851700395
LOC100130797	1.920796609	1.873417662	-0.03603219	0.372405587
LOC100130815	1.911504238	1.856601261	-0.042044396	0.280313536
LOC100130856	5.556496636	5.497885718	-0.015298634	0.09462158
LOC100130868	2.234378013	2.322656768	0.055902692	0.217922306
LOC100130886	6.370349828	6.353648021	-0.00378743	0.704889978
LOC100130890	5.589366954	5.599207063	0.002537639	0.949944603
LOC100130892	11.56473928	11.57283401	0.00100946	0.375733018

LOC100130897	2.054141682	2.073080028	0.013240117	0.573960802
LOC100130910	4.245291417	4.311139218	0.022205561	0.349563446
LOC100130920	2.741591742	2.739733845	-0.000978004	0.782594196
LOC100130924	1.993748589	1.996984352	0.00233953	0.676920341
LOC100130950	3.067724424	3.022185465	-0.021576692	0.509577171
LOC100130958	11.14388613	11.23385908	0.011601189	0.217145344
LOC100130964	1.877191119	1.907476683	0.023089881	0.791616063
LOC100130967	2.086007013	2.09914338	0.009056704	0.95379052
LOC100130990	2.27328851	2.31532469	0.026433732	0.181922399
LOC100130998	2.018583523	1.989847493	-0.020685419	0.526999957
LOC100131004	5.371387166	5.339627394	-0.008555641	0.421982996
LOC100131014	2.177298649	2.176902965	-0.000262207	0.923608646
LOC100131053	3.755846609	3.763526908	0.002947143	0.984589189
LOC100131067	2.483458735	2.40429793	-0.046735096	0.335878627
LOC100131110	5.46962347	5.503826613	0.0089935	0.408554415
LOC100131112	1.887056391	1.893998817	0.005297894	0.768852657
LOC100131117	2.059067437	2.061610077	0.001780414	0.774657813
LOC100131138	2.681624901	2.669100606	-0.006753765	0.940060635
LOC100131149	2.352988391	2.398748099	0.02778746	0.160982227
LOC100131150	1.980766523	1.949357556	-0.023060099	0.5265493

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LOC100131170	3.992424881	4.004842838	0.004480365	0.951043342
LOC100131176	3.218411854	3.01395843	-0.094689438	0.092999391
LOC100131195	1.950319477	1.961327028	0.00811964	0.547933708
LOC100131206	2.315564669	2.294653	-0.013088045	0.898447932
LOC100131232	2.161972245	2.089830373	-0.048962155	0.130846853
LOC100131262	6.597403291	6.638879754	0.009041523	0.371297482
LOC100131289	1.91423457	1.948249937	0.025411141	0.347435407
LOC100131298	1.93334957	1.836370718	-0.074245182	0.114320546
LOC100131310	9.771289934	9.679446486	-0.013624479	0.113845166
LOC100131316	2.286336252	2.258851232	-0.017448338	0.744720074
LOC100131323	4.398767377	4.466639324	0.022090455	0.104395713
LOC100131336	4.739901358	4.718349077	-0.006574878	0.85548827
LOC100131342	1.974997179	1.983777937	0.006399948	0.628191003
LOC100131360	4.941460861	4.929578099	-0.003473436	0.558088833
LOC100131401	2.304977967	2.243466042	-0.039023613	0.464632217
LOC100131419	2.191980404	2.104426331	-0.058807894	0.216636634
LOC100131479	1.907137821	1.875712394	-0.023970471	0.791084718
LOC100131482	8.070758841	8.063303352	-0.001333328	0.78100487
LOC100131496	1.95890055	1.948847725	-0.007422787	0.681974079

LOC100131508	1.882764715	1.85222757	-0.023591357	0.93183095
LOC100131510	1.965843881	2.01487957	0.035544858	0.057272392
LOC100131532	2.188964974	2.080056077	-0.073626446	0.109804785
LOC100131575	1.985484079	1.888757338	-0.072053432	0.017607355
LOC100131576	3.22776004	3.305526796	0.034346881	0.12616598
LOC100131581	3.678502285	3.68772512	0.003612635	0.433233665
LOC100131582	7.504172172	7.510285042	0.001174735	0.806536306
LOC100131601	4.648184629	4.379203401	-0.085998914	0.016960183
LOC100131606	4.45074555	4.389491887	-0.019993076	0.57490121
LOC100131642	2.193275397	2.103846239	-0.060057706	0.120129066
LOC100131646	4.763847331	4.920136	0.046571015	0.318510944
LOC100131650	2.150168954	2.140865683	-0.006255742	0.730669289
LOC100131662	2.109862384	2.089162648	-0.014224087	0.781005125
LOC100131699	3.085867166	3.076091697	-0.004577451	0.693651756
LOC100131707	7.180366132	7.161963232	-0.003702298	0.619893094
LOC100131720	2.09028194	2.019288239	-0.049850688	0.214081849
LOC100131721	2.721245861	2.817412746	0.050103624	0.240345351
LOC100131727	4.609128278	4.849064113	0.073212408	0.068576011
LOC100131733	4.051637642	4.088299282	0.012995659	0.834429206
LOC100131737	2.262947947	2.248931817	-0.008963478	0.740026739

LOC100131744	2.312413252	2.347809796	0.02191629	0.710533873
LOC100131756	1.869291854	1.866885599	-0.001858313	0.945001584
LOC100131785	4.53148743	4.535441944	0.001258454	0.949395302
LOC100131840	1.961915841	1.957621613	-0.003161222	0.993945434
LOC100131845	2.220537656	2.2024515	-0.011798787	0.762008795
LOC100131860	1.795466113	1.880112599	0.066460642	0.034071878
LOC100131864	1.901844483	1.899013486	-0.002149129	0.971934346
LOC100131883	1.896641066	1.857989345	-0.02970445	0.434044155
LOC100131929	2.087982702	1.972991986	-0.081724664	0.024960526
LOC100131938	1.996096801	1.923403824	-0.053519994	0.096820181
LOC100131971	6.84825757	6.876892127	0.006019751	0.620866685
LOC100131998	5.536264881	5.363475049	-0.04574493	0.047640786
LOC100132005	2.128975305	2.050141387	-0.054435807	0.122616489
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LOC100132014	1.928120358	1.954659225	0.019722	0.197523543
LOC100132050	2.925540636	2.969800514	0.021662769	0.165354046
LOC100132053	6.474899887	6.399462697	-0.016907106	0.306938236
LOC100132086	2.024639344	1.975676831	-0.03531796	0.470975397
LOC100132116	1.938687265	1.875533563	-0.047779016	0.078909665
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LOC100132218	2.393078576	2.339743268	-0.032517532	0.396919534
LOC100132247	11.25287379	11.11441811	-0.017861069	0.053664978
LOC100132273	4.176198477	4.154479085	-0.007522685	0.346727646
LOC100132288	3.075656662	3.12399212	0.022496351	0.426784163
LOC100132317	2.837448139	2.837013887	-0.000220811	0.952691609
LOC100132319	2.028416424	2.03331238	0.003478014	0.908282695
LOC100132338	2.342949113	2.22141081	-0.076849402	0.022815815
LOC100132357	3.811528483	3.683135282	-0.049435269	0.028554519
LOC100132363	2.238300205	2.16759712	-0.046306911	0.117196798
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LOC100132439	4.725602689	4.594269099	-0.040662976	0.130495577
LOC100132456	2.379203808	2.466995711	0.052276346	0.036103167
LOC100132460	1.924859616	1.943665162	0.014026474	0.945001571
LOC100132593	1.801512497	1.871379782	0.054893712	0.097515684
LOC100132640	2.932157596	2.993069782	0.029663268	0.269099106
LOC100132656	3.439227715	3.279892261	-0.068436216	0.269398264
LOC100132658	1.913238232	1.964798324	0.038364709	0.234049709
LOC100132661	1.862963477	1.884245063	0.016387222	0.908282662
LOC100132673	11.91879062	11.82728422	-0.011119015	0.194177653
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LOC100132738	2.241469656	2.328688493	0.055072695	0.177891114
LOC100132761	2.944681947	2.948644627	0.00194014	0.711047727
LOC100132763	5.392222258	5.247911352	-0.039136613	0.055665753
LOC100132769	2.028937483	1.997927528	-0.02222016	0.425179917
LOC100132779	2.878940384	2.825132592	-0.027219336	0.361778511
LOC100132815	4.031228033	4.195034803	0.057463386	0.070270047
LOC100132816	3.322315371	3.412322641	0.038565035	0.365056034
LOC100132831	5.606895344	5.641583007	0.008897893	0.503837386
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LOC100132853	1.851371331	1.862067042	0.00831073	0.581503188
LOC100132911	4.414920821	4.275988162	-0.046129705	0.040341673
LOC100132941	3.183832609	3.444623972	0.113582014	0.093537634
LOC100133019	2.241350046	2.155122359	-0.0565982	0.124635188
LOC100133036	3.750366437	3.885850838	0.051198959	0.226545059
LOC100133039	4.697906682	4.439277007	-0.081693322	0.001440476
LOC100133056	2.134466689	2.201784613	0.044797698	0.205064527
LOC100133075	3.100534603	3.148576768	0.022182853	0.552999841
LOC100133118	3.860545093	4.015257754	0.056688038	0.063104388
LOC100133121	4.737597212	4.62190938	-0.035666573	0.037661711
LOC100133130	2.011274609	2.013594725	0.001663269	0.920321943

LOC100133131	2.108070497	1.989065549	-0.083832293	0.030459862
LOC100133154	2.405897477	2.421672507	0.009428611	0.325589702
LOC100133224	4.221607205	4.290043092	0.023199788	0.435667596
LOC100133236	2.118883113	1.997276014	-0.085270284	0.015228822
LOC100133287	2.02841502	2.057090514	0.020252413	0.801199324
LOC100133315	10.29176487	10.39228283	0.014022198	0.213825271
LOC100133319	2.054293391	2.074074	0.013825129	0.792147773
LOC100133469	1.892473728	1.899224373	0.005137082	0.680962246
LOC100133528	2.05581102	2.055113528	-0.000489558	0.932927907
LOC100133602	2.748269073	2.671419275	-0.040916838	0.465475225
LOC100133616	2.120927689	2.137075261	0.010942282	0.879370751
LOC100133627	3.284410742	3.295864472	0.00502236	0.870672344
LOC100133746	1.899747788	1.922408232	0.017106834	0.713104518
LOC100133752	1.90635449	1.882048317	-0.01851275	0.962035324
LOC100133781	3.398013735	3.353371197	-0.019079495	0.310544981
LOC100133788	6.787420331	6.775340775	-0.002569849	0.836583776
LOC100133869	2.052604185	2.075904077	0.01628433	0.657351078
LOC100133897	3.364751781	3.384051085	0.008251266	0.342501977
LOC100133920	3.077931795	3.040325176	-0.017735628	0.324911258
LOC100133991	1.926422351	1.960303796	0.025153216	0.632112529

LOC100134141	1.995657152	1.97399562	-0.015745103	0.736903445
LOC100134167	7.016894238	7.050876761	0.006970047	0.276642251
LOC100134228	4.958284483	4.96276293	0.00130249	0.908829464
LOC100134231	8.101610325	8.049183901	-0.009366178	0.423579747
LOC100134282	5.725119861	5.575515528	-0.038200691	0.137113644
LOC100134317	2.361497119	2.393688169	0.019533446	0.742633005
LOC100134331	2.971521046	3.135837768	0.077649324	0.344610679
LOC100134400	2.079883079	2.04387169	-0.0251978	0.329680394
LOC100134713	3.954989119	3.911986007	-0.015772516	0.36286883
LOC100137724	2.464938543	2.512249965	0.02742834	0.231887968
LOC100144595	1.924551166	1.85590107	-0.052402218	0.118492767
LOC100144602	5.177560576	5.310847345	0.036669534	0.209037566
LOC100147773	2.820658272	2.916766106	0.048337811	0.212306601
LOC100169752	1.832695404	1.841325824	0.006777907	0.789490753
LOC100170939	8.772439377	8.584310535	-0.031275807	0.060506778
LOC100189589	1.876193437	1.943530824	0.05087141	0.026990243
LOC100190890	7.400559285	7.370058211	-0.00595829	0.38927527
LOC100190938	2.187468132	2.094622803	-0.062571531	0.044334846
LOC100190939	6.496148801	6.510272303	0.003133208	0.775714583
LOC100190986	3.693045477	3.574946035	-0.046889564	0.202365093

LOC100192204	7.411970536	7.465490345	0.010379875	0.284949082
LOC100192378	2.256499768	2.333019331	0.048111631	0.243955803
LOC100192379	2.090364238	2.158885958	0.046532687	0.53514247
LOC100216479	3.595847192	3.683897556	0.034901229	0.27633796
LOC113230	3.705934722	3.777654162	0.027653162	0.108280402
LOC114227	1.836566669	1.880285662	0.033940592	0.128056821
LOC116236	3.346201119	3.37122231	0.010747607	0.717223992
LOC116349	3.860394728	4.021940366	0.059143319	0.02184453
LOC119358	10.02354909	9.999325134	-0.003490787	0.536048047
LOC120364	3.196644695	3.204680627	0.003622189	0.886993841
LOC120376	3.670997636	3.385768528	-0.11668884	0.050497775
LOC122589	9.814425583	9.779088711	-0.005203802	0.819380934
LOC123688	4.366084596	4.504783563	0.045117708	0.190187423
LOC124220	3.68614953	3.608669775	-0.030647466	0.631621789
LOC126075	4.301945285	4.292723042	-0.00309608	0.749945923
LOC126235	2.00637245	2.016012134	0.006914878	0.951043296
LOC126536	1.901966126	1.908331486	0.004820244	0.786836252
LOC127099	8.129144199	8.113070711	-0.002855417	0.871215351
LOC128192	6.639294457	6.64148457	0.000475825	0.885359329
LOC129293	3.850887444	3.618413134	-0.089833818	0.057816534

LOC130728	3.157670391	3.193174915	0.016130998	0.541976332
LOC131054	9.075489669	9.032552345	-0.006841776	0.357435571
LOC131055	7.497901245	7.490302282	-0.001462882	0.877194665
LOC131691	6.233023768	6.259634451	0.006146195	0.637028408
LOC133874	3.28595845	3.306248239	0.008880811	0.821527334
LOC136242	1.98202453	1.952619648	-0.021563865	0.447951201
LOC137107	3.800734881	3.793938465	-0.002582115	0.697220432
LOC139431	2.132158881	2.135693317	0.002389546	0.951592732
LOC142937	2.960763781	2.844892923	-0.05759504	0.124466028
LOC144438	5.842062967	5.776411225	-0.016304456	0.144556037
LOC144486	2.166495331	2.142088225	-0.016345227	0.812417607
LOC145694	4.456788344	4.478775225	0.007099816	0.703353562
LOC145757	2.181792272	2.308370993	0.081361358	0.04433477
LOC145758	4.136015821	4.103893704	-0.01124834	0.397304059
LOC145783	4.624744113	4.536210331	-0.027886008	0.052986644
LOC145814	2.415559232	2.426375141	0.006445393	0.837122727
LOC146346	6.081674543	6.117720415	0.008525563	0.990092681
LOC146429	2.278906934	2.323766817	0.028123297	0.930734267
LOC147080	2.002520106	1.988647627	-0.010029064	0.994495835
LOC147645	7.10774506	7.122200289	0.002931072	0.871215518

LOC147710	1.994635722	1.906007937	-0.065571166	0.180795823
LOC147804	2.760181364	2.703285697	-0.030049074	0.092730891
LOC148003	1.86789449	1.890216296	0.017138365	0.227606276
LOC148413	5.213565338	5.368882831	0.042351612	0.016457551
LOC148709	5.351497106	5.457022641	0.028171481	0.051646788
LOC149134	4.27212402	4.331244725	0.019828161	0.432829488
LOC149351	3.036459238	3.125444585	0.041671421	0.025912089
LOC149478	2.14571794	2.086842211	-0.040138922	0.188327252
LOC149501	4.687443927	4.547796873	-0.043633615	0.246477596
LOC149703	2.199108722	2.158194711	-0.027093901	0.226280293
LOC150166	4.339743358	4.285920908	-0.0180045	0.454582521
LOC150568	1.972888808	1.954275007	-0.013676149	0.413264622
LOC150759	4.728128179	4.620829887	-0.033117169	0.253004877
LOC150763	4.980003755	4.917983486	-0.01807994	0.510020215
LOC151146	3.959869695	3.984696577	0.009016914	0.920321905
LOC151162	3.058183132	2.997010901	-0.02915047	0.506481962
LOC151300	1.918873245	1.926459704	0.005692595	0.263756459
LOC151438	2.507670437	2.616235866	0.061144854	0.067121315
LOC151658	1.846365563	1.845633979	-0.000571751	0.806002191
LOC151878	3.640451146	3.583105697	-0.022906647	0.555772833

LOC152024	3.887602338	3.966201155	0.028877196	0.084844316
LOC152217	9.053238828	9.09758438	0.007049513	0.38889423
LOC152663	8.734016755	8.722724359	-0.001866498	0.807604492
LOC152719	2.473470735	2.482460317	0.005233826	0.738464702
LOC153328	1.99817055	2.078576493	0.056916114	0.057907596
LOC153346	4.971286026	5.046958437	0.021795093	0.954340045
LOC153364	1.977933066	1.983804345	0.00427614	0.944452492
LOC153546	5.348837272	5.376570028	0.007460789	0.776771899
LOC153811	4.675351609	4.771850373	0.02947394	0.700795957
LOC154761	2.236759073	2.249763599	0.008363545	0.891900016
LOC154822	3.37595	3.426546577	0.021461761	0.45583209
LOC157562	6.162619351	6.092589958	-0.016488035	0.581976487
LOC157627	7.49942447	7.651304486	0.028925854	0.393851202
LOC157740	3.308493523	3.41541743	0.045887459	0.013265475
LOC157860	2.028693437	2.01791157	-0.007687917	0.893536214
LOC158301	1.985022881	2.016839873	0.022940909	0.307592041
LOC158345	9.24729298	9.294324296	0.007318886	0.20481659
LOC158381	3.015703583	3.042048225	0.012548393	0.526549547
LOC158402	2.473609642	2.48074769	0.004157162	0.798001573
LOC158435	1.890098576	1.963044556	0.05463144	0.256168817



LOC158830	2.773795404	2.642044958	-0.070206362	0.303359461
LOC158863	2.553321954	2.593300718	0.022414049	0.334840537
LOC158960	5.609303517	5.595442697	-0.003569371	0.46463211
LOC161527	4.24916098	4.242819451	-0.002154714	0.813488015
LOC161635	6.254335318	6.253542789	-0.000182825	0.915941736
LOC162632	4.643789146	4.590200261	-0.01674537	0.365056091
LOC170082	4.223894411	4.3237735	0.033717179	0.22233446
LOC196913	1.970803026	2.006485	0.025886779	0.316173754
LOC196993	1.950787311	1.867728838	-0.062771478	0.178335613
LOC197350	1.993937113	1.976180359	-0.012905286	0.621353855
LOC199725	2.150076444	2.133051704	-0.011469018	0.809208387
LOC199800	4.137948563	4.086979831	-0.017880588	0.274515977
LOC199899	2.291644563	2.2561375	-0.022528302	0.628680643
LOC200261	1.941142497	1.955563394	0.010678277	0.861447375
LOC200383	2.015848026	1.98798419	-0.020080595	0.877194752
LOC200810	5.016513278	5.112306042	0.027289235	0.043324225
LOC201175	5.667648795	5.612516718	-0.014102525	0.264051235
LOC201229	7.434883305	7.688839296	0.048455728	0.03804408
LOC202051	2.708893033	2.707572225	-0.000703604	0.793211192
LOC202181	4.278294053	4.243282056	-0.011855065	0.488554648

LOC202227	6.739939636	6.759390923	0.004157583	0.497256777
LOC202451	5.369220245	5.499504796	0.034589131	0.130320121
LOC203510	1.998003086	1.960598831	-0.027264444	0.320187077
LOC204010	8.957147662	8.922897507	-0.005527121	0.461687798
LOC219731	2.255864258	2.367687	0.069798115	0.038624054
LOC220077	2.145159086	2.167958915	0.015252774	0.41681861
LOC220115	2.081846662	2.04751231	-0.023991686	0.41484194
LOC220429	2.023233053	1.96229469	-0.044120795	0.215611968
LOC220433	11.25942968	11.28039419	0.00268373	0.617942675
LOC220594	4.086526536	4.045761782	-0.014463728	0.605848996
LOC220729	6.473651987	6.451919254	-0.004851428	0.967534152
LOC220906	7.321501821	7.479136232	0.030732051	0.020605424
LOC221272	2.329747914	2.387143254	0.035111287	0.386999429
LOC221442	3.975837523	3.835723866	-0.051759936	0.07026998
LOC221710	3.705071921	3.74104519	0.013939846	0.540606172
LOC221814	1.899352894	1.895726113	-0.002757435	0.518027261
LOC222159	2.521586411	2.531028577	0.005392132	0.757806305
LOC222699	3.172130338	3.260053958	0.039443793	0.296604448
LOC23117	10.15210458	10.0601681	-0.013124424	0.056017838
LOC253039	6.392512377	6.480806134	0.019790229	0.824211378

LOC253264	2.773788927	2.576246972	-0.106587105	0.104690671
LOC253482	2.157953159	2.063096007	-0.06485259	0.047563488
LOC253805	2.079617179	2.092425042	0.008857964	0.667860235
LOC254057	3.01990796	2.833901831	-0.091714797	0.079027418
LOC254128	5.738120219	5.696293521	-0.010554706	0.236499344
LOC254559	2.053960715	2.098944993	0.03125577	0.399616319
LOC255177	1.863014656	1.847390521	-0.012150153	0.641467093
LOC255374	5.490131272	5.619774239	0.03367153	0.02684752
LOC255411	1.998731007	1.924714282	-0.054440026	0.100194462
LOC255480	2.046576656	2.090179338	0.030414027	0.289322348
LOC255783	11.76917585	11.72979444	-0.004835567	0.283081077
LOC256021	2.09106357	2.02978781	-0.042908003	0.244514573
LOC257039	3.543916788	3.501166852	-0.017508913	0.521158577
LOC257358	2.108213702	2.03962331	-0.047718384	0.226015471
LOC257396	3.990783669	4.005804289	0.005419861	0.818309459
LOC25845	4.826037358	4.83786938	0.003532735	0.64294937
LOC26010	8.252041967	8.016553092	-0.041769109	0.000327216
LOC282992	1.856069437	1.870750739	0.011366661	0.691615393
LOC282997	2.079326325	2.043788486	-0.024870291	0.466741278
LOC283079	2.110770927	2.115583887	0.003285875	0.714648204

LOC283089	1.888715106	1.957280873	0.051445698	0.244235104
LOC283174	5.26810855	5.463652775	0.052580728	0.242562776
LOC283177	3.007623285	3.034279655	0.012730182	0.349563331
LOC283278	2.413324901	2.435651887	0.013285797	0.645423097
LOC283412	10.21893482	10.17033796	-0.006877202	0.441780898
LOC283454	3.241365391	3.368627007	0.055559033	0.180122607
LOC283523	2.114150305	2.070461275	-0.030125729	0.206548042
LOC283587	2.574422437	2.572245359	-0.001220541	0.617947579
LOC283588	2.050739437	2.067964246	0.012067045	0.945001551
LOC283624	2.068790305	2.08525762	0.011438211	0.782594272
LOC283658	3.647889278	3.619519768	-0.011263646	0.438923971
LOC283663	4.87445696	4.809853444	-0.019248568	0.376114966
LOC283665	1.902631099	1.860431704	-0.032358434	0.470126617
LOC283701	3.235462152	3.276846697	0.018336379	0.629170407
LOC283767	4.17432251	4.096439521	-0.027171553	0.474377949
LOC283788	8.461899669	8.380112676	-0.014011938	0.089430266
LOC283859	1.975715715	1.942825148	-0.024219307	0.896810195
LOC283861	2.873126152	2.899510359	0.013187953	0.76200874
LOC283868	1.999158225	1.987172585	-0.008675485	0.877194665
LOC283904	2.032466185	1.962326042	-0.050666584	0.57255181

LOC284067	2.118434993	2.117842901	-0.000403282	0.810812522
LOC284072	2.067666344	2.015408958	-0.036930786	0.486392246
LOC284112	4.098280762	4.119273577	0.007371122	0.677424997
LOC284120	5.950094914	6.407296796	0.106803138	0.124635233
LOC284230	10.38835754	10.36120362	-0.003775968	0.6242787
LOC284232	2.221952437	2.131138394	-0.060203651	0.037788879
LOC284242	2.240366868	2.179040782	-0.0400418	0.267607707
LOC284244	2.479216629	2.486713563	0.004356001	0.912658335
LOC284288	2.430799238	2.417196655	-0.008095894	0.860905323
LOC284296	2.210222947	2.19945338	-0.007046881	0.993945434
LOC284297	3.032717974	2.967308549	-0.031456391	0.193475172
LOC284344	1.919773358	1.930714789	0.00819906	0.853864492
LOC284402	2.535993106	2.5581885	0.01257175	0.706427832
LOC284422	6.219932841	6.218433021	-0.000347921	0.930185922
LOC284441	4.936217887	4.977585746	0.012040092	0.388515621
LOC284454	4.975522768	4.692276923	-0.084559956	0.066812987
LOC284542	7.775438219	7.738143958	-0.006936418	0.730150749
LOC284600	2.40515347	2.295078127	-0.067585688	0.043467472
LOC284648	1.925027278	1.890370979	-0.026209503	0.468855693
LOC284801	1.861816795	1.883423261	0.016646136	0.670874904

LOC284861	1.970549861	2.001407507	0.02241669	0.312523892
LOC284912	2.066556609	2.038188317	-0.01994153	0.275122161
LOC284998	2.026692113	2.156340655	0.089458174	0.032083963
LOC285033	4.249470437	4.362861887	0.037991738	0.011238352
LOC285074	6.187388079	6.16582238	-0.005037194	0.468855534
LOC285216	2.232577099	2.194355141	-0.024912963	0.538326346
LOC285389	1.991005603	1.96315512	-0.020323108	0.311203735
LOC285412	2.465437338	2.464829697	-0.000355616	0.713619058
LOC285441	1.878693199	1.876036324	-0.002041724	0.495509947
LOC285535	5.510719603	5.518395965	0.002008257	0.805468348
LOC285548	1.882916768	1.836478549	-0.036027184	0.131728114
LOC285550	3.827621768	3.843564634	0.005996654	0.65685219
LOC285708	1.958676252	1.934550754	-0.017880376	0.766218124
LOC285733	1.930629344	1.948429486	0.013240509	0.772017575
LOC285735	1.896387629	1.880886746	-0.011840904	0.419992374
LOC285827	1.980777437	1.906782232	-0.054926699	0.017119968
LOC285908	4.364227192	4.145887697	-0.07404517	0.003361893
LOC285944	1.999504497	1.942343352	-0.041844274	0.087751632
LOC285957	2.080442371	2.082400627	0.001357325	0.760431931
LOC285986	2.264583722	2.266367106	0.001135691	0.565064999

LOC286002	2.141658742	2.028187099	-0.078537869	0.037535044
LOC286071	1.789675338	1.831717697	0.033499279	0.876107005
LOC286126	1.919051212	1.833804183	-0.065553618	0.032697684
LOC286161	3.467173265	3.552435444	0.035048498	0.275729718
LOC286254	4.740979702	4.763260535	0.006764245	0.92634859
LOC286260	3.644246808	3.817277092	0.066923244	0.018722616
LOC286272	3.65457049	3.713463014	0.023063348	0.502957263
LOC286359	1.881261351	1.869590986	-0.008977603	0.915941746
LOC286382	2.205994748	2.260832937	0.035425032	0.413658646
LOC286434	2.635118126	2.543207528	-0.051218444	0.237867816
LOC286467	4.546725384	4.564609711	0.005663641	0.710533675
LOC286528	1.880078258	1.838740613	-0.032074739	0.178335665
LOC338579	1.928339166	1.893156592	-0.026565074	0.453335046
LOC338620	4.176159695	4.041406197	-0.047319519	0.165143875
LOC338651	1.927385603	1.964392683	0.02743812	0.243397818
LOC338756	8.052519397	7.974423218	-0.014060057	0.064586597
LOC338799	7.993149543	7.83293057	-0.02921191	0.059474342
LOC338809	1.86190753	1.85651862	-0.00418164	0.451674522
LOC338864	1.973086788	1.992872979	0.014395343	0.553461488
LOC339240	2.273307503	2.231278852	-0.026922022	0.344258636

LOC339260	1.843291947	1.896829134	0.041305139	0.596247487
LOC339316	1.894970682	1.89530531	0.000254739	0.947747417
LOC339344	9.726956742	9.714322838	-0.001875069	0.76411166
LOC339483	7.895199185	7.569016042	-0.060869899	0.026423021
LOC339524	2.120892656	2.152180944	0.021127773	0.307919173
LOC339760	1.938957384	1.905334077	-0.025237116	0.148198206
LOC339803	4.77206845	4.86483612	0.027776469	0.128576484
LOC339843	3.927272636	3.93591419	0.003171013	0.711561646
LOC340073	1.912926523	1.978540599	0.048655209	0.349563331
LOC340508	4.795962278	4.766481176	-0.008895713	0.563666306
LOC340888	2.360943841	2.240967859	-0.075241768	0.132969933
LOC340947	5.152469318	5.287625401	0.037355965	0.059848244
LOC341230	5.77108147	5.717401768	-0.013482024	0.665853339
LOC341378	1.935406199	1.873619289	-0.046808554	0.195134374
LOC341965	2.410621702	2.434561951	0.014256945	0.323895262
LOC342994	12.8418182	12.79186487	-0.005622876	0.348106078
LOC343052	1.963315828	1.976770415	0.009853055	0.732745544
LOC343495	2.583936775	2.589723697	0.003227412	0.929637635
LOC343515	7.07005243	7.187720423	0.02381338	0.014799825
LOC344178	1.95850253	1.878900711	-0.059862161	0.021765203



LOC344328	4.661793954	4.635142423	-0.008271572	0.87230214
LOC344332	2.299757623	2.32611619	0.016441342	0.361415472
LOC344382	3.259110219	3.412384817	0.066302207	0.054702602
LOC344593	2.781947066	2.70472931	-0.040610753	0.337613396
LOC344595	4.180423146	4.273263725	0.031689376	0.37537134
LOC344887	2.882802331	2.658153148	-0.11704769	0.053582161
LOC344967	4.865686967	5.046887768	0.052750497	0.164724087
LOC345630	8.214372907	8.199841838	-0.00255436	0.925252478
LOC345645	5.772513841	5.868328683	0.023749951	0.111811428
LOC346887	9.215870212	8.993607246	-0.035220517	0.271496863
LOC348021	2.238948219	2.23266412	-0.004054933	0.794807184
LOC348174	2.165482238	2.136995831	-0.019104246	0.840896968
LOC348262	10.6656639	10.67090935	0.000709353	0.968083599
LOC348751	3.039673735	3.085354486	0.021519775	0.451674576
LOC348761	1.847835053	1.874418662	0.020607243	0.327971968
LOC348840	1.984093682	2.004214831	0.014557012	0.956538281
LOC348926	4.869447219	4.878471627	0.002671231	0.908282684
LOC349160	1.814511371	1.882070669	0.052739703	0.031808213
LOC349196	3.518669709	3.585952092	0.027326117	0.168957609
LOC349408	1.846216669	1.854920197	0.006785245	0.870672299

LOC374491	3.263501113	3.261324732	-0.000962433	0.715163265
LOC374890	1.870069914	1.854218951	-0.012280596	0.461687691
LOC375196	2.389933053	2.355698542	-0.020815276	0.383224571
LOC376693	9.889161887	9.840644556	-0.007095443	0.374625661
LOC387761	2.117966669	2.190248493	0.048414674	0.124128066
LOC387763	11.81694558	11.64544389	-0.021091548	0.399990444
LOC387895	2.092636417	2.089828444	-0.001937159	0.748899884
LOC387924	2.39090806	2.36875769	-0.013428026	0.714648269
LOC388002	1.975965338	2.064281866	0.063082337	0.052649007
LOC388122	9.726697583	9.717373028	-0.001383711	0.556696647
LOC388152	6.378626166	6.426583	0.010806135	0.330022608
LOC388242	5.191601675	5.307226944	0.031778544	0.13208219
LOC388333	2.020594523	1.959634796	-0.044195028	0.11057314
LOC388401	11.10599056	11.10024547	-0.000746493	0.648391779
LOC388494	7.544478854	7.585645683	0.007850739	0.73274536
LOC388503	1.99436943	2.015239338	0.015018515	0.661846803
LOC388532	6.372412642	6.376031099	0.000818975	0.956538281
LOC388564	4.040586881	4.186667014	0.051237324	0.068575945
LOC388588	3.93524157	3.993824958	0.021318903	0.482942865
LOC388621	11.14523801	11.12534943	-0.002576776	0.772014534

LOC388796	6.011034861	5.770062465	-0.05902645	0.000437829
LOC388885	10.57246967	10.4840037	-0.012122653	0.08534165
LOC388889	1.895078742	1.932434732	0.028161894	0.214081357
LOC388965	7.656217424	7.664932789	0.001641341	0.773601224
LOC389023	3.677913583	3.878658141	0.076670042	0.215101274
LOC389033	5.918786649	5.855034965	-0.015623668	0.743154655
LOC389043	1.958465	1.933219746	-0.01871771	0.348498538
LOC389127	10.9716254	10.92078225	-0.006701071	0.443420518
LOC389199	4.911225086	4.940250768	0.008501331	0.757806221
LOC389332	2.158458417	2.141359366	-0.011474368	0.788959676
LOC389386	2.324037457	2.472327662	0.089236638	0.013576347
LOC389458	2.930689424	2.962390063	0.015521527	0.661846803
LOC389517	3.21532	3.249166676	0.015107426	0.718771075
LOC389634	4.862846232	5.080731451	0.063235238	0.000186291
LOC389641	2.424790881	2.458838641	0.020116731	0.624280271
LOC389705	6.909621166	6.943074549	0.006968048	0.450431294
LOC389791	2.332029762	2.400165542	0.041547713	0.344610967
LOC389831	4.134708781	4.222273592	0.030234344	0.470126829
LOC389842	2.262190874	2.340365655	0.049013289	0.191826037
LOC389857	1.997485556	2.02763262	0.021611208	0.602480621

LOC389895	2.733279801	2.794104148	0.031752643	0.318176097
LOC389904	1.985358013	1.991492014	0.004450507	0.82582283
LOC389992	1.966417556	2.01551488	0.035578733	0.208038954
LOC390183	6.500677285	6.557048514	0.012456533	0.354919681
LOC390213	1.957631801	1.961665711	0.002969769	0.85548827
LOC390282	8.357050728	8.346824965	-0.001766376	0.967534101
LOC390413	5.527513722	5.535017754	0.001957243	0.496382824
LOC390414	9.127284914	9.114985211	-0.001945451	0.91758372
LOC390424	7.643562828	7.669655683	0.004916546	0.83712265
LOC390595	9.591119576	9.421974789	-0.02566976	0.012810844
LOC390612	8.076037497	8.030383324	-0.008178754	0.542890285
LOC390705	6.674733199	6.632468613	-0.009164228	0.695180239
LOC390760	1.971141298	1.94187407	-0.021581552	0.565531369
LOC390876	10.1589497	10.13592691	-0.003273228	0.464206715
LOC391081	2.008218497	2.008812493	0.000426661	0.555772975
LOC391126	10.54738225	10.39002782	-0.021685464	0.011734075
LOC391132	7.266972556	7.220232937	-0.009309076	0.514905254
LOC391160	7.251710536	7.211901092	-0.007941728	0.536505867
LOC391282	7.65241094	7.492846338	-0.030400484	3.16E-05
LOC391334	8.103131695	8.065912373	-0.006641855	0.548393269

LOC391358	8.624253225	8.594100049	-0.005052967	0.561338443
LOC391504	10.90820365	10.80295737	-0.013987227	0.065184535
LOC391532	6.498765238	6.518579275	0.00439193	0.721351873
LOC391655	11.41124976	11.37197232	-0.004974311	0.20332445
LOC391656	10.9127542	10.80737069	-0.013999685	0.093397935
LOC391769	11.71981305	11.71568935	-0.000507713	0.978535684
LOC391777	9.893101384	9.97622869	0.012071675	0.118492196
LOC392288	4.30470304	4.336784275	0.010711964	0.728595562
LOC392335	2.751857437	2.758592768	0.003526765	0.694161227
LOC392382	2.362002947	2.307558944	-0.033643265	0.443424813
LOC392425	9.641200987	9.584037887	-0.00857926	0.26081761
LOC392522	8.17179545	8.087525254	-0.01495478	0.076242658
LOC392787	2.396188682	2.429945951	0.02018271	0.576783887
LOC399491	6.687980656	6.462894782	-0.04939017	0.000930993
LOC399851	4.321663887	4.357926915	0.012055129	0.477365863
LOC399881	3.024529901	3.048646063	0.011457745	0.757281469
LOC399900	2.583551742	2.545780704	-0.021247628	0.772017548
LOC399959	4.691216649	4.502288577	-0.059303598	0.049370042
LOC400013	3.670644086	3.598552211	-0.028616644	0.238141911
LOC400027	5.54163351	5.598208099	0.014653813	0.416422476

LOC400036	4.967906808	4.955837923	-0.003509105	0.988441576
LOC400061	4.024431444	3.985524437	-0.014015405	0.518920708
LOC400084	1.945887417	1.987582746	0.030586681	0.372405872
LOC400099	6.868041464	7.234689099	0.075032271	0.000350492
LOC400236	4.512353139	4.44003912	-0.02330759	0.443014476
LOC400299	6.180812053	6.152508845	-0.006621569	0.485960243
LOC400464	2.610928318	2.516324859	-0.053244662	0.289950977
LOC400573	2.205350013	2.22363781	0.011914173	0.955439137
LOC400581	2.192134914	2.082177606	-0.074243458	0.013973834
LOC400590	6.949324119	6.865950366	-0.017413242	0.136567257
LOC400604	4.430167166	4.457257035	0.008795021	0.787367109
LOC400620	1.914859417	1.872116106	-0.032568567	0.498569268
LOC400642	5.187543192	5.205685613	0.005036742	0.465053083
LOC400655	1.818243225	1.793505528	-0.019763009	0.503836826
LOC400657	2.647084053	2.782099345	0.071769932	0.018687976
LOC400684	2.929772477	2.762673352	-0.084723637	0.001845808
LOC400750	2.02141347	1.9462125	-0.054695207	0.259069049
LOC400756	2.291245026	2.360837979	0.043167286	0.25732609
LOC400794	2.082933974	2.032473268	-0.035380731	0.491591297
LOC400831	2.108585887	2.086611817	-0.015113554	0.588140944

LOC400960	5.641590682	5.457804282	-0.047781337	0.059381298
LOC400986	5.36797704	5.328092613	-0.010759341	0.375371283
LOC401010	2.411721437	2.443686901	0.018996171	0.781534781
LOC401021	1.786107788	1.843138775	0.045345552	0.364326072
LOC401022	2.248188	2.223735866	-0.015777247	0.332769991
LOC401052	1.93921147	2.017183676	0.056872318	0.040006311
LOC401076	3.06233155	3.079707592	0.00816289	0.50339707
LOC401097	2.196290079	2.181126761	-0.009994996	0.770434638
LOC401098	1.811285576	1.785948845	-0.020323269	0.350986419
LOC401127	3.387728642	3.309441042	-0.03373075	0.099200556
LOC401176	2.094252576	2.137414845	0.029431496	0.689073388
LOC401218	4.246423848	4.427105768	0.060115463	0.012274447
LOC401317	2.316477629	2.356415148	0.024660982	0.357076881
LOC401351	1.991834834	1.997122923	0.003825111	0.760431959
LOC401357	7.245155172	7.220716655	-0.004874557	0.803333
LOC401397	7.113093318	7.112589401	-0.000102209	0.571144049
LOC401504	6.36882557	6.496067352	0.028539231	0.001393101
LOC401577	4.411467278	4.222371345	-0.063205119	0.056553677
LOC401588	5.537309146	5.535780056	-0.000398445	0.730669413
LOC401602	2.107262159	2.018430845	-0.062135649	0.165353945

LOC401648	8.080845636	8.005154331	-0.013577058	0.437293273
LOC401650	12.2531533	12.23054247	-0.002664674	0.552064928
LOC401717	7.88922943	7.911938085	0.004146742	0.838739596
LOC401847	2.244008219	2.327335965	0.052601528	0.101195964
LOC401913	2.967868709	2.987301563	0.009415611	0.650382353
LOC402026	7.412501801	7.468032134	0.010767585	0.440148626
LOC402176	10.1651281	10.14434235	-0.002953057	0.694667966
LOC402198	1.950212987	1.974054437	0.017530082	0.629660047
LOC402360	2.909746285	2.879229423	-0.015210613	0.564132352
LOC402377	2.258191735	2.214324746	-0.028301166	0.476511349
LOC404266	2.376516325	2.371566317	-0.0030081	0.588616384
LOC407835	8.041679695	8.068436204	0.004792209	0.708992738
LOC414300	1.940876053	1.989361852	0.035597728	0.236226085
LOC415056	1.907618921	1.956100697	0.036207643	0.260235214
LOC439911	4.611950192	4.691520606	0.024678669	0.502517404
LOC439914	2.194076185	2.184528718	-0.00629155	0.880459072
LOC439938	2.714831238	2.788640563	0.038699474	0.19608785
LOC439949	5.867239	5.815494979	-0.012779771	0.852782305
LOC439951	10.25599046	10.20769351	-0.006809909	0.314840752
LOC439990	2.063459868	2.085930514	0.015625721	0.671377841



LOC440040	2.955038325	3.130854824	0.083379772	0.043039275
LOC440061	1.855731225	1.829015261	-0.02092066	0.178558017
LOC440093	12.02817434	12.02441255	-0.000451271	0.833888005
LOC440104	4.763786768	4.738904507	-0.007555248	0.741590179
LOC440173	2.122531517	2.125197401	0.001810878	0.849537396
LOC440180	3.256902596	3.324649246	0.029701569	0.109651477
LOC440181	4.590984007	4.756732493	0.051167488	0.316506815
LOC440288	3.559364887	3.555675444	-0.001496195	0.815630069
LOC440292	4.964803861	5.139092676	0.049776945	0.000875233
LOC440295	7.20883349	7.218921789	0.002017548	0.960386009
LOC440311	12.31965066	12.367677	0.0056132	0.154670226
LOC440330	2.789299768	2.811510585	0.011442488	0.882092047
LOC440335	2.001844278	2.003814394	0.001419131	0.433639102
LOC440337	2.034265338	2.015217021	-0.013572656	0.482512576
LOC440338	2.188323219	2.219366951	0.020322381	0.405432132
LOC440348	6.884198755	6.746009035	-0.0292545	0.025274325
LOC440350	6.963051305	6.911668739	-0.010685579	0.36871936
LOC440354	3.840565768	3.921817908	0.030203697	0.103808023
LOC440356	4.028916139	4.210851887	0.063720355	0.097934762
LOC440396	2.441809543	2.425386887	-0.009735779	0.769907213

LOC440419	3.142811715	3.208306641	0.029756194	0.255302856
LOC440461	10.81045929	10.7672262	-0.005781181	0.423573886
LOC440498	5.875350695	5.846674676	-0.007058649	0.468009132
LOC440731	4.061510126	3.908272338	-0.05548524	0.086351364
LOC440737	11.16076958	11.10980739	-0.006602705	0.210030183
LOC440792	2.173101026	2.164877092	-0.005470126	0.916489169
LOC440863	1.932196695	1.895951056	-0.027320245	0.301096346
LOC440888	2.59895145	2.667033887	0.037306472	0.269398207
LOC440894	2.760616695	2.829392021	0.035501493	0.273305775
LOC440895	3.126826762	3.019905754	-0.050195765	0.125313667
LOC440900	1.94192357	1.974099528	0.023708308	0.407381752
LOC440917	8.350597675	8.435578451	0.014607542	0.341450036
LOC440934	3.26807353	3.204478824	-0.028350707	0.363232956
LOC440957	9.114406086	9.254991472	0.02208301	0.093402312
LOC440983	8.339308828	8.263180063	-0.01323071	0.036595255
LOC441016	3.698093914	3.719505866	0.00832911	0.475656938
LOC441046	1.971806079	1.986135401	0.010446305	0.731188354
LOC441052	2.825945424	2.855864606	0.01519398	0.853864509
LOC441073	12.91370518	12.80555368	-0.012133363	0.021438507
LOC441108	3.188354026	3.019311014	-0.078592457	0.024782828

LOC441131	6.431535046	6.386065873	-0.010235679	0.303359461
LOC441150	6.754184033	6.85004112	0.020331159	0.119472639
LOC441178	1.94610245	1.886077204	-0.045198929	0.264346409
LOC441208	2.991869755	3.14742269	0.07312357	0.068785892
LOC441245	2.858433735	2.832220007	-0.013291507	0.344962607
LOC441251	3.464069536	3.385552627	-0.033076545	0.307265197
LOC441294	2.775781887	2.765954359	-0.005116859	0.985139505
LOC441376	3.566883351	3.533842894	-0.013426133	0.621354022
LOC441377	11.6870146	11.69877132	0.001450571	0.764110431
LOC441383	2.103912397	2.061778	-0.029185635	0.291841567
LOC441455	4.52635047	4.587600796	0.019391561	0.349563388
LOC441461	5.092152371	5.302315908	0.058347038	0.018722631
LOC441601	1.893273291	1.853905923	-0.030314642	0.675406956
LOC441666	2.675919762	2.768347789	0.048990344	0.131198816
LOC441768	5.035814921	5.005857718	-0.008607975	0.381720987
LOC441795	3.255535391	3.417625014	0.070099289	0.10454313
LOC441876	12.65536895	12.6167352	-0.004410932	0.093906598
LOC441896	10.56351385	10.55351828	-0.001365775	0.970833945
LOC442075	2.896908801	2.890081401	-0.003404139	0.673894917
LOC442160	5.264422245	5.300982838	0.009984662	0.289008435

LOC442175	2.200771033	2.153518986	-0.031313013	0.190888518
LOC442211	7.722476152	7.765609317	0.008035617	0.448364191
LOC442240	2.518227523	2.51163381	-0.003782499	0.772545397
LOC442245	2.263729026	2.247270923	-0.010527214	0.674398845
LOC442249	5.24552696	5.115890789	-0.036102245	0.622816402
LOC442270	10.67425097	10.60670807	-0.00915787	0.282776459
LOC442308	4.86190804	4.870482394	0.002542064	0.927992942
LOC442421	6.301123788	6.157158134	-0.033344531	0.046643042
LOC442459	1.975287536	1.948753655	-0.019510948	0.536960721
LOC442461	2.389544252	2.362298317	-0.016544322	0.611643149
LOC442572	3.214602583	3.07644638	-0.063375542	0.14436651
LOC442590	3.636889762	3.719451859	0.032384828	0.373886759
LOC474358	1.930950669	1.957441613	0.019657968	0.967534152
LOC492303	4.910541722	4.951794359	0.012069214	0.354919452
LOC492311	6.488948172	6.478138606	-0.002405307	0.87012914
LOC493754	10.1057443	10.0815501	-0.003458104	0.34425242
LOC494150	7.076436901	6.990099711	-0.017710088	0.061746049
LOC497190	5.897886636	6.12337807	0.054129669	0.00937757
LOC497257	5.378783424	5.457704908	0.021014492	0.607777651
LOC51057	3.212078722	3.263066521	0.022721148	0.474804103

LOC51145	1.911955821	1.877648817	-0.026121932	0.381345714
LOC51152	2.878493305	2.812745592	-0.033334788	0.439740354
LOC51190	1.879299318	1.876712275	-0.001987382	0.698241129
LOC51233	7.31463004	7.26521493	-0.009779419	0.763586318
LOC51336	1.987532768	1.950335979	-0.027255972	0.399616263
LOC541467	1.93824755	1.926600746	-0.008695211	0.995046246
LOC541469	2.807306775	2.835193408	0.014260429	0.595768921
LOC541471	4.916910636	4.90380331	-0.00385102	0.94664905
LOC541472	2.972238808	3.009605352	0.018024284	0.395767195
LOC541473	2.073741728	2.120397092	0.03209824	0.3317384
LOC54492	5.571821709	5.277425451	-0.0783148	0.10424875
LOC550643	6.387323013	6.379900838	-0.00167741	0.867957227
LOC552889	6.043262245	6.057780317	0.003461712	0.893536328
LOC553137	1.873391563	1.838049021	-0.027477229	0.350986591
LOC553158	2.566958106	2.448427458	-0.068204298	0.068996366
LOC554174	1.92663996	1.856683528	-0.053359065	0.075672661
LOC554201	1.890671656	1.907922479	0.013103715	0.386620931
LOC554203	5.719505563	5.687422486	-0.008115457	0.945001578
LOC554206	3.309593046	3.380858394	0.030735759	0.256747142
LOC554207	1.988419311	2.058446873	0.049934195	0.032139334

LOC554234	8.314101642	8.233620359	-0.014033456	0.048341687
LOC554235	2.262906728	2.258259106	-0.002966095	0.874476072
LOC554248	4.510193106	4.591393077	0.025742745	0.414841995
LOC55908	2.58042306	2.633100627	0.029155042	0.135480223
LOC57228	2.864525331	2.721293049	-0.07400377	0.023526397
LOC572558	5.081255013	5.210194592	0.036152385	0.45001782
LOC57399	1.826953881	1.83523819	0.006527103	0.981837689
LOC595101	5.718414901	5.74430819	0.006517855	0.869043067
LOC63920	5.116693801	5.183211732	0.018634428	0.671377989
LOC641298	4.820024755	4.740063627	-0.024134131	0.291525702
LOC641467	2.257751848	2.304581852	0.029618083	0.209287556
LOC641518	2.313859695	2.249343169	-0.040797606	0.300452093
LOC641746	7.070355291	7.153294803	0.016825186	0.132258927
LOC641784	10.62451166	10.57529651	-0.006698416	0.492021238
LOC641844	3.385088781	3.322047493	-0.027120974	0.325589875
LOC642006	2.156826457	2.130182261	-0.017933225	0.761482908
LOC642076	10.49598783	10.33272113	-0.022617713	0.030884498
LOC642236	3.022589596	2.909673035	-0.05492806	0.289636432
LOC642413	3.611228364	3.619443444	0.003278218	0.636044145
LOC642424	4.29046249	4.449223845	0.052420513	0.416818665

LOC642550	5.761783901	5.681236092	-0.020310695	0.263167077
LOC642738	11.40435856	11.43000457	0.003240676	0.495498429
LOC642826	7.328222212	7.470820725	0.027803492	0.649388731
LOC642864	1.953755795	1.882006472	-0.053978563	0.010362806
LOC642897	1.961489901	2.013540746	0.03778476	0.466318818
LOC642929	1.858246106	1.829970873	-0.022120899	0.856029655
LOC643014	1.92794206	1.899242246	-0.021637763	0.31021566
LOC643015	1.88222006	1.881746225	-0.000363233	0.887538772
LOC643037	2.07146251	2.06305788	-0.005865413	0.565531647
LOC643100	2.023545444	2.040417444	0.011979091	0.72135216
LOC643143	2.128922841	2.139983021	0.007475687	0.844674851
LOC643201	2.13498696	2.155602937	0.013864199	0.16810451
LOC643205	2.044471311	2.015367725	-0.020684721	0.66284746
LOC643220	4.80017894	4.827892148	0.00830526	0.621353814
LOC643313	2.253387219	2.313615106	0.038053631	0.198484848
LOC643401	1.906467662	1.902494873	-0.003009494	0.822064072
LOC643441	1.910410589	1.828172458	-0.063480567	0.05098744
LOC643454	4.127744364	4.126649859	-0.000382593	0.952142145
LOC643562	3.294296841	3.326404577	0.01399309	0.514905504
LOC643648	2.206641258	2.128844873	-0.051781279	0.527450712

LOC643650	1.918431497	1.89833338	-0.015193873	0.599599884
LOC643668	4.515089205	4.594706183	0.025218117	0.335878742
LOC643669	3.519263205	3.577363514	0.023623308	0.445067573
LOC643684	2.462223556	2.59715557	0.076970678	0.035374845
LOC643733	4.543133351	4.32491469	-0.071015977	0.126166116
LOC643779	10.7453077	10.7479812	0.000358906	0.780473554
LOC643783	2.847394503	2.853089211	0.002882468	0.772017522
LOC643837	3.388326159	3.473973077	0.036013819	0.135661124
LOC643905	2.244993616	2.256410901	0.00731847	0.47097508
LOC643932	12.82439234	12.7747713	-0.005593004	0.998348565
LOC643960	9.008763437	8.887810211	-0.019501082	0.315840461
LOC643981	5.693123079	5.652946838	-0.01021716	0.589567486
LOC643988	5.546333901	5.569595444	0.006038067	0.865786248
LOC643997	6.067269795	6.124507268	0.013546315	0.326609152
LOC644029	10.16335695	10.14900794	-0.00203829	0.876649886
LOC644063	7.871201974	7.975989387	0.019079531	0.109345539
LOC644096	8.183342722	8.228022711	0.007855502	0.617460989
LOC644135	1.941084861	1.90292838	-0.028641927	0.645918386
LOC644189	4.566791947	4.757780676	0.059107703	0.000908308
LOC644192	3.577466265	3.287197542	-0.122080006	0.0514813



LOC644214	5.897699212	5.842400556	-0.013590972	0.311203677
LOC644215	7.766426106	7.817060359	0.009375314	0.303034571
LOC644236	12.21681048	12.14006437	-0.00909161	0.149148386
LOC644246	6.552404113	6.203882915	-0.078852877	0.030038905
LOC644297	5.039922245	4.815314873	-0.065771337	0.007607108
LOC644384	9.584389146	9.486864507	-0.014755143	0.082622221
LOC644387	3.010117715	3.004001599	-0.002934326	0.67288783
LOC644415	4.307384146	4.258213415	-0.016563736	0.518027411
LOC644422	3.477697166	3.356988352	-0.050964778	0.095991129
LOC644450	4.74890153	4.837882049	0.026781754	0.388895474
LOC644456	5.616496675	5.709905669	0.023796391	0.07785725
LOC644489	1.899975093	1.902797627	0.002141625	0.680962246
LOC644538	6.250787291	6.0983575	-0.035617183	0.196804631
LOC644563	8.641828477	8.681469451	0.006602662	0.249583505
LOC644613	4.827917675	4.816766845	-0.003335984	0.880459043
LOC644617	4.306142709	4.217623704	-0.029965748	0.149557613
LOC644656	4.649901523	4.665533944	0.004842036	0.975235062
LOC644662	3.366250265	3.420926894	0.023244836	0.378724526
LOC644936	10.1121435	10.16703161	0.007809687	0.256454463
LOC644937	11.84379833	11.81036735	-0.004077992	0.536954359

LOC644950	10.13259762	10.09296047	-0.005654666	0.303357558
LOC644996	1.914608887	1.874901289	-0.03023507	0.304332572
LOC645000	8.273615318	8.159378148	-0.020058677	0.090082688
LOC645015	2.681185669	2.825748408	0.075761893	0.004905001
LOC645158	2.156572026	2.224928972	0.04501938	0.098777356
LOC645166	7.221264093	6.961882831	-0.052773871	0.04353922
LOC645195	3.048307881	2.924127134	-0.060002586	0.104395754
LOC645212	5.897828391	5.97531143	0.018830063	0.177004281
LOC645231	3.395388815	3.376644838	-0.007986349	0.896810292
LOC645251	7.971009589	7.989972366	0.003428049	0.92086957
LOC645277	3.616846252	3.434875465	-0.074474478	0.241175241
LOC645294	2.055137166	2.058746634	0.002531604	0.748899884
LOC645332	2.763790026	2.778117268	0.007459484	0.672887757
LOC645427	2.127755464	2.215496746	0.058297852	0.110573182
LOC645431	2.568412695	2.525485669	-0.02431618	0.141169579
LOC645478	2.059495192	2.029075359	-0.021468311	0.400775113
LOC645581	1.968868947	1.922389528	-0.03446639	0.294375079
LOC645591	2.073372073	2.063936732	-0.006580288	0.928541145
LOC645638	2.835307629	2.722638246	-0.058499969	0.34285293
LOC645676	5.080873834	5.303760127	0.061938888	0.011128209

LOC645683	11.74343289	11.72146002	-0.002701923	0.603914152
LOC645693	11.50679189	11.47284395	-0.004262605	0.863071786
LOC645722	9.723285305	9.844871725	0.017928554	0.157709921
LOC645726	3.314994338	3.403820754	0.03814866	0.230007754
LOC645733	2.226547	2.220236662	-0.0040946	0.424379584
LOC645884	9.977579344	9.942072127	-0.005143277	0.683997503
LOC645904	2.200509881	2.289660796	0.057296035	0.211044869
LOC645955	5.422825212	5.382861845	-0.010671272	0.584343786
LOC645961	2.001931252	2.001790183	-0.000101665	0.584817846
LOC645984	1.900757291	1.866670704	-0.026106878	0.970284156
LOC646048	2.534765722	2.552334944	0.009965256	0.498131344
LOC646074	2.095524007	1.994974754	-0.07094056	0.147040758
LOC646093	2.572953497	2.569225359	-0.002091941	0.881003331
LOC646119	9.319973623	9.257126739	-0.009761398	0.314842252
LOC646241	2.329209695	2.40540631	0.046440079	0.14135616
LOC646262	2.154507702	2.224069535	0.045843639	0.1147964
LOC646346	10.23115762	10.21263424	-0.002614349	0.984038705
LOC646446	2.00075247	2.05201543	0.036498889	0.254151917
LOC646470	2.139890748	2.087563908	-0.035716777	0.19159146
LOC646471	1.905280159	1.870391232	-0.02666308	0.23513617

LOC646547	7.732839245	7.762842521	0.005586799	0.435261011
LOC646548	2.344542722	2.401770697	0.034791852	0.606813088
LOC646576	2.304861113	2.291974148	-0.008089047	0.906642596
LOC646609	4.078325053	4.113430915	0.012365447	0.980186899
LOC646626	3.471476371	3.362028831	-0.046217255	0.185562317
LOC646627	1.910364272	1.871171789	-0.029905744	0.331738227
LOC646644	4.942856503	4.863488099	-0.023353637	0.25790617
LOC646652	2.250653185	2.219822387	-0.019899514	0.611159164
LOC646672	10.93991432	10.81549869	-0.016501252	0.010631931
LOC646719	3.268323563	3.290969204	0.009961709	0.571144462
LOC646753	10.78903803	10.81685454	0.003714799	0.560406383
LOC646791	6.965482907	6.934344817	-0.006463799	0.575371709
LOC646808	5.516971556	5.457681894	-0.015588234	0.309886859
LOC646875	11.4470333	11.40316672	-0.005539224	0.523395904
LOC646890	6.835610974	6.715652394	-0.025542736	0.067845391
LOC646891	1.872652417	1.805556204	-0.052639816	0.062034982
LOC646903	2.269010132	2.286691542	0.011198719	0.77730079
LOC646909	5.309141424	5.28400169	-0.006847644	0.871758814
LOC646936	2.210892768	2.185253077	-0.016828684	0.756756633
LOC646949	10.30385223	10.28558891	-0.00255941	0.7515151

LOC646960	4. 82103557	4. 830990599	0. 002975971	0. 820990825
LOC646973	2. 810959179	2. 830196451	0. 009839695	0. 600559538
LOC646976	2. 278241788	2. 315609852	0. 023471333	0. 584343786
LOC646982	1. 881434755	1. 839772465	-0. 032305909	0. 571144508
LOC646993	1. 888560636	1. 896075634	0. 005729409	0. 76200852
LOC646999	1. 901634232	1. 903383451	0. 001326454	0. 824211378
LOC647065	4. 375306238	4. 245832542	-0. 043336526	0. 038236615
LOC647107	1. 782614344	1. 82922819	0. 037240438	0. 288068132
LOC647121	5. 61779206	5. 621632261	0. 000985858	0. 982938272
LOC647131	4. 689527901	4. 702345718	0. 003937918	0. 977435769
LOC647157	2. 00491851	1. 955349451	-0. 036117137	0. 120458581
LOC647195	3. 767890808	3. 751154035	-0. 006422651	0. 911564148
LOC647211	2. 612206219	2. 673422197	0. 033418898	0. 396535403
LOC647500	2. 98746147	2. 882846634	-0. 051426018	0. 020268245
LOC647946	2. 006453199	1. 949665493	-0. 041420885	0. 133862242
LOC647954	2. 868253987	2. 838003204	-0. 015296564	0. 589091957
LOC648232	3. 390537464	3. 366007296	-0. 010475682	0. 601039495
LOC648294	11. 92092005	11. 83753565	-0. 010126816	0. 080205365
LOC648556	1. 916211377	1. 902722014	-0. 010191913	0. 668864631
LOC648740	2. 384666026	2. 522807408	0. 081242845	0. 009800264

LOC648795	2.577145675	2.488136958	-0.050708189	0.164514569
LOC649294	5.840168066	5.842453958	0.000564573	0.732745452
LOC649395	2.992482629	3.072666183	0.038148167	0.074881177
LOC649839	9.794609543	9.719524845	-0.011102194	0.340399875
LOC650024	1.825001921	1.786702352	-0.030598667	0.374257435
LOC650157	2.005210821	1.987103549	-0.01308687	0.415236908
LOC650293	2.784116351	2.827861092	0.022491751	0.501199558
LOC650392	6.577606232	6.596802099	0.004204181	0.737944033
LOC650405	3.90406904	4.027927155	0.045059027	0.434044539
LOC650656	1.960182675	1.962173028	0.001464157	0.899539976
LOC651721	1.916875894	1.949348627	0.024235195	0.382848449
LOC652005	3.355172523	3.455104176	0.042342259	0.204818048
LOC652147	3.865648272	3.833442775	-0.012069732	0.494637686
LOC652494	3.381674874	3.592884366	0.087404543	0.132436679
LOC652679	2.090042344	2.030084148	-0.041992643	0.410513239
LOC653071	2.296078139	2.225047472	-0.045335623	0.318176212
LOC653080	5.582944795	5.464536415	-0.030927181	0.2289384
LOC653113	5.26236394	5.347959894	0.023277619	0.227606498
LOC653284	3.453390974	3.366875535	-0.036603288	0.509134227
LOC653314	12.12501319	12.08934199	-0.004250593	0.578657372

LOC653390	2.820119272	2.719511451	-0.05240868	0.251860998
LOC653653	2.232290272	2.250653739	0.011819479	0.879370765
LOC653773	9.385636444	9.341490859	-0.006801762	0.65784901
LOC653884	5.912751033	5.784215394	-0.031708254	0.277251979
LOC654170	10.7411439	10.65809911	-0.01119749	0.019678217
LOC654340	2.129465166	2.151441479	0.014812468	0.788428746
LOC654350	10.96548891	10.96508173	-5.36E-05	0.82635727
LOC654433	3.951870344	4.12486488	0.061811246	0.161395107
LOC654780	2.555014132	2.548385915	-0.003747502	0.846295088
LOC723809	2.155134675	2.19010331	0.023220898	0.651873053
LOC727805	2.366940656	2.364914535	-0.001235488	0.690598081
LOC727820	4.488050735	4.395587514	-0.030032976	0.426783887
LOC727834	3.374053987	3.418093394	0.018708759	0.703353865
LOC727835	11.3627574	11.30535068	-0.007307233	0.321187971
LOC727842	3.96790049	3.967551113	-0.000127036	0.985139503
LOC727865	12.80060483	12.7401812	-0.006826183	0.49068705
LOC727869	2.859384675	2.787732711	-0.036612478	0.354561159
LOC727916	2.123883444	2.063610824	-0.041533676	0.459173414
LOC727933	1.873534377	1.807039169	-0.052134672	0.148004695
LOC727941	1.927032417	1.869063049	-0.044065605	0.293106284

LOC727982	1.967321894	1.925516366	-0.030987646	0.56927064
LOC727992	2.019164046	2.050554254	0.022255788	0.556235799
LOC727997	12.37789503	12.29246317	-0.009991959	0.219458858
LOC728003	4.910043623	4.862862577	-0.01393002	0.315840518
LOC728012	1.955472291	1.913086803	-0.031614759	0.401936598
LOC728034	3.162912291	3.20066538	0.017118305	0.738985251
LOC728126	8.706339417	8.702434993	-0.000647133	0.651872549
LOC728131	11.87710174	11.85060299	-0.003222363	0.609214976
LOC728137	1.920773232	1.87794107	-0.032535411	0.199691647
LOC728142	2.931821132	3.035821761	0.050290001	0.089690907
LOC728148	2.092156801	2.043314077	-0.034080004	0.430405135
LOC728153	2.300121318	2.262557225	-0.023755675	0.735343394
LOC728154	2.147436272	2.101178732	-0.031416431	0.816165728
LOC728175	1.886311126	1.864919296	-0.016454453	0.320859188
LOC728179	12.27749121	12.24655034	-0.003640367	0.527433719
LOC728198	2.836331205	2.894504394	0.029290337	0.388136277
LOC728199	2.758754132	2.927144958	0.085477307	0.01807318
LOC728218	1.990123278	2.011653585	0.015524087	0.586715378
LOC728257	1.980999596	1.948123239	-0.02414364	0.359603643
LOC728295	2.88887406	2.973043739	0.041433377	0.643443911



LOC728323	7.690326298	7.64389012	-0.008737773	0.405042676
LOC728324	9.923080987	9.933365197	0.001494425	0.770432429
LOC728344	1.859978868	1.82430062	-0.027942745	0.590519784
LOC728361	2.424814417	2.396946901	-0.016676385	0.679445428
LOC728368	7.129444119	7.135381232	0.001200918	0.687549677
LOC728380	11.65725395	11.66265586	0.000668382	0.763049986
LOC728395	1.890765728	1.838635063	-0.040335461	0.205557809
LOC728411	7.018141662	6.899736704	-0.02454776	0.116231831
LOC728428	11.13123007	11.12550705	-0.000741939	0.963133961
LOC728448	6.590033371	6.574859077	-0.003325798	0.792679362
LOC728449	5.778379656	5.865981859	0.021707613	0.22103014
LOC728450	2.514601325	2.522829951	0.004713279	0.920869607
LOC728460	1.924789768	1.860980225	-0.048638153	0.168530756
LOC728485	2.281079377	2.394027979	0.069723362	0.038753908
LOC728516	1.970634126	1.965674937	-0.003635183	0.927444755
LOC728533	7.320860424	7.210445683	-0.021924783	0.028255231
LOC728537	5.034336444	5.032600479	-0.000497563	0.92415656
LOC728543	1.82322406	1.823150676	-5.81E-05	0.736383045
LOC728564	1.991489709	2.011308408	0.014286293	0.641467133
LOC728611	4.274874775	4.290856817	0.005383601	0.757281385

LOC728613	3.469280934	3.367378711	-0.043010689	0.091002716
LOC728640	4.578519914	4.544224887	-0.010847064	0.429196167
LOC728698	7.190079046	7.252884704	0.012547284	0.512237799
LOC728705	5.307603523	5.352833486	0.012242169	0.955439126
LOC728723	9.664822	9.655112099	-0.001450153	0.880458676
LOC728732	9.999805166	9.946324162	-0.007736535	0.215098265
LOC728763	4.425731874	4.136498472	-0.097506001	0.051979184
LOC728769	5.687381801	5.850711535	0.040847431	0.064986849
LOC728774	2.45530055	2.513324606	0.033697379	0.273003938
LOC728820	7.519552377	7.479464915	-0.007711721	0.573491032
LOC728853	4.284741775	4.477937627	0.063626172	0.002907131
LOC728855	6.884410629	6.803613718	-0.017031918	0.157913752
LOC728875	10.60995872	10.5606198	-0.006724534	0.228667813
LOC728904	1.94179853	1.9450985	0.002449693	0.92744479
LOC728927	2.283197026	2.227573254	-0.035582486	0.330708362
LOC728971	12.82388512	12.80984973	-0.001579855	0.8209742
LOC729029	3.88853147	3.830946007	-0.021524722	0.740026829
LOC729046	7.964590682	7.944914352	-0.003568553	0.911564032
LOC729082	9.772445371	9.803856493	0.004629752	0.833351506
LOC729085	4.796182411	4.900065303	0.030914447	0.254152087

LOC729088	5.185623623	5.219487303	0.009390604	0.704378019
LOC729090	9.816174642	9.755577718	-0.008933606	0.54793261
LOC729111	2.237589603	2.15952819	-0.051229306	0.274818955
LOC729121	1.967653053	1.910791317	-0.042305633	0.445067681
LOC729127	2.139073457	2.22785138	0.058666968	0.093268084
LOC729141	1.964294351	1.971842542	0.005533218	0.831199237
LOC729170	2.777949576	2.780957944	0.001561514	0.8435951
LOC729173	2.529873464	2.518998169	-0.006215154	0.600079885
LOC729234	2.813655801	2.821345345	0.003937417	0.707453622
LOC729259	10.82868641	10.79411939	-0.004612695	0.90937462
LOC729279	3.145268914	3.172823655	0.012583969	0.458754839
LOC729298	5.214798755	5.147275106	-0.018802686	0.324571805
LOC729313	8.414893424	8.407030542	-0.001348685	0.907735729
LOC729314	4.528135841	4.394930669	-0.043076832	0.225751369
LOC729332	2.028603272	1.97222893	-0.040659724	0.21331976
LOC729356	1.950816238	1.945604141	-0.003859682	0.742633094
LOC729409	1.982568139	1.960820338	-0.015913098	0.415631875
LOC729449	11.06261226	11.07479396	0.001587763	0.566924558
LOC729484	12.32055486	12.34730081	0.003128465	0.500283236
LOC729497	2.101811272	2.134445056	0.022227895	0.320859188

LOC729556	2.81765894	2.870149345	0.026628815	0.488554959
LOC729595	2.254439974	2.297478986	0.027282568	0.317174149
LOC729602	5.672147795	5.662491704	-0.002458093	0.616004655
LOC729603	2.335693702	2.221814845	-0.0721125	0.143987407
LOC729608	6.086134689	6.194441014	0.025447838	0.092597127
LOC729611	8.63643706	8.590456176	-0.007701511	0.611642639
LOC729621	8.958328967	8.852862655	-0.017085606	0.008255494
LOC729652	1.957662894	1.936969028	-0.015331471	0.965884332
LOC729680	5.568730636	5.609486775	0.010520271	0.466318924
LOC729683	3.309780795	3.253571676	-0.024711335	0.406991627
LOC729684	3.878936026	3.808981549	-0.026255683	0.977435777
LOC729742	11.46039319	11.39596284	-0.008133719	0.366879217
LOC729760	8.915107967	8.903649232	-0.001855512	0.970284149
LOC729768	5.783564821	5.620032634	-0.041380494	0.059848183
LOC729779	1.935673589	1.904447951	-0.023462834	0.462108027
LOC729792	1.926075305	1.943767099	0.013191256	0.742633094
LOC729798	11.22721043	11.14508396	-0.010592027	0.133499705
LOC729806	2.81401798	2.646998754	-0.088274031	0.016770126
LOC729858	8.853860603	8.912620486	0.009543015	0.440556735
LOC729887	6.62800604	6.886675754	0.055232835	0.003339543

LOC729911	1.955508993	1.959112204	0.002655856	0.815629983
LOC729915	3.157242139	2.999949268	-0.073726806	0.090476268
LOC729956	3.570972603	3.641971169	0.028402436	0.253577775
LOC729970	3.410597106	3.363377331	-0.020113698	0.522952571
LOC729983	2.640480272	2.573084535	-0.037301507	0.382096543
LOC730038	4.269208358	4.130627972	-0.047607446	0.017055899
LOC730070	13.44490325	13.36859178	-0.008211871	0.010326557
LOC730079	1.89319451	1.893976401	0.000595712	0.909923261
LOC730091	4.754306808	4.881820641	0.038184284	0.158116989
LOC730092	5.027028868	4.85875288	-0.049119916	0.009839541
LOC730101	3.58884651	3.619538535	0.012285554	0.93621931
LOC730102	5.541645576	5.657885683	0.029948583	0.204325681
LOC730107	2.663148735	2.756079486	0.049484492	0.028755353
LOC730125	5.691617318	5.934074746	0.060184435	0.238416902
LOC730134	1.855818225	1.841469845	-0.011197635	0.373886588
LOC730144	7.840893305	7.716655493	-0.02304233	0.052313115
LOC730167	1.954702232	1.988028768	0.024389781	0.434855466
LOC730168	2.575014126	2.621856204	0.026008217	0.315175605
LOC730227	2.080131192	2.067509437	-0.008780607	0.868500124
LOC730232	1.87121851	1.909969894	0.02957186	0.12379073

LOC730235	4.264462623	4.222571697	-0.014242035	0.265825062
LOC730286	5.857887901	5.82324238	-0.008557916	0.38360075
LOC730392	2.607165715	2.573452021	-0.0187774	0.528352614
LOC730405	2.492812821	2.588396345	0.054283986	0.304657575
LOC730747	10.3355527	10.31054598	-0.003494809	0.456243849
LOC730834	1.836419656	1.79227243	-0.035105832	0.228404775
LOC730961	1.965573894	2.060319042	0.067917156	0.030143619
LOC731275	4.268127159	4.277220218	0.00307033	0.864701129
LOC731312	1.88962953	1.870628106	-0.014580647	0.733264821
LOC731688	11.24358764	11.23388305	-0.001245759	0.998348708
LOC731724	2.024982331	2.082304796	0.040271938	0.50339707
LOC731789	2.029704318	1.970903768	-0.042412238	0.136385891
LOC731852	2.07599853	2.022718317	-0.037509997	0.116231918
LOC732199	7.957677662	7.912281155	-0.00825377	0.552077115
LOC732215	3.78742647	3.830388352	0.01627279	0.651872976
LOC732275	1.974061748	1.951701655	-0.016434584	0.525199152
LOC751071	4.348078146	4.290096803	-0.019367668	0.412870988
LOC780529	1.904719517	1.964089451	0.04428207	0.070914102
LOC791120	5.716634927	5.628996077	-0.022288518	0.232157554
LOC79999	2.81620645	2.772892507	-0.022361408	0.502957161

LOC81691	2.733126596	2.832544859	0.051546518	0.109192907
LOC85391	2.834174636	2.556259289	-0.148894476	0.053838974
LOC90246	3.08825757	2.885762148	-0.097840689	0.059288376
LOC90379	3.118720364	3.229197979	0.050221693	0.084844168
LOC90499	4.148892901	4.071880937	-0.027031039	0.223119549
LOC90586	2.073810662	2.143005796	0.047351569	0.111500739
LOC90826	4.439748907	4.394400599	-0.014811693	0.460429833
LOC90834	2.06848598	2.055294352	-0.009230153	0.888628766
LOC90835	5.55571294	5.780025796	0.057103873	0.012986156
LOC91316	7.820256291	7.712880894	-0.019946057	0.048656034
LOC91431	3.478669709	3.602335514	0.050396852	0.055665753
LOC92249	8.308609642	8.295222761	-0.002326354	1
LOC92270	5.473358576	5.582244803	0.028419019	0.19159146
LOC92659	7.015617954	7.016979077	0.000279875	0.921965133
LOC92973	3.985369848	4.195608803	0.074166553	0.127539291
LOH12CR1	5.881244457	5.878558732	-0.00065897	0.945001571
LOH12CR2	5.045326603	5.122388775	0.02186909	0.255880277
LOH3CR2A	3.750552384	3.891048317	0.053055803	0.238416678
LONP1	10.24756925	10.30280494	0.007755426	0.1787784
LONP2	6.880692272	6.710225493	-0.036192475	0.003332142

LONRF1	5.912193709	5.701263204	-0.052411933	0.015579657
LONRF2	6.605121934	6.815634141	0.0452627	0.237867816
LONRF3	3.148987007	3.047630113	-0.047199989	0.033493456
LOR	2.232030629	2.256977282	0.016035072	0.597204574
LOX	3.635935179	3.50451043	-0.053113562	0.380595848
LOXHD1	1.961922391	1.966812106	0.003591167	0.769379842
LOXL1	8.048006828	7.84772038	-0.036357891	0.809208253
LOXL2	3.901660305	3.86331431	-0.01424912	0.172837299
LOXL3	5.733815503	5.86652362	0.033010362	0.112903833
LOXL4	3.195930722	3.374209606	0.078313461	0.004027701
LPA	2.145095358	2.175607915	0.020376797	0.422382337
LPAL2	2.154037781	2.151269338	-0.001855394	0.940609544
LPAR1	3.118580364	2.968097859	-0.071350778	0.149168369
LPAR2	3.638203881	3.542208296	-0.038577342	0.179004327
LPAR3	1.964289623	2.020652493	0.04081357	0.198725855
LPAR4	1.986360735	1.997110479	0.007786495	0.556698764
LPAR5	2.437390543	2.415476704	-0.013029494	0.639492853
LPCAT1	4.679280424	4.795828225	0.035493296	0.727041369
LPCAT2	3.698672079	3.708774549	0.003935173	0.660346837
LPCAT3	3.530938623	3.621501528	0.036536241	0.585292039



LPCAT4	3.063736033	3.060958289	-0.001308617	0.523850581
LPGAT1	7.392628338	7.51423431	0.023538719	0.072326105
LPHN1	8.522998735	8.672374563	0.02506595	0.053326202
LPHN2	4.399093987	4.346839127	-0.017239721	0.457918598
LPHN3	5.034298589	5.040247507	0.001703794	0.634077066
LPIN1	7.625995497	7.410642113	-0.041327125	0.004883974
LPIN2	4.920880801	4.912403232	-0.002487582	0.678434815
LPIN3	2.25560006	2.281370373	0.016389396	0.859821417
LPL	9.670789192	9.199128852	-0.072136381	0.048893013
LPO	1.937784762	1.907761296	-0.022527664	0.3614153
LPP	6.287428841	6.093055387	-0.045304312	0.525649119
LPPR2	3.350808305	3.404195352	0.022804675	0.377604773
LPPR4	4.585568444	4.857907232	0.083234354	0.26760765
LPXN	3.759377914	3.695829641	-0.024595693	0.316506873
LQK1	4.876814987	5.049881901	0.050310407	0.215612132
LRAT	6.178598113	6.062211641	-0.027435317	0.710533939
LRBA	6.381162589	6.504272669	0.027568445	0.056822214
LRCH1	3.525562616	3.782144761	0.101351079	0.142291715
LRCH2	3.915640272	3.816851796	-0.036865062	0.191591301
LRCH3	3.737404987	3.803504479	0.025292401	0.598162009

LRDD	6.456335404	6.402542718	-0.012070554	0.324911085
LRFN1	5.527068437	5.507025127	-0.005241285	0.722385357
LRFN2	6.253983424	6.462361711	0.047286108	0.343906994
LRFN3	7.16548296	7.294842683	0.025812919	0.019320759
LRFN4	6.761470252	6.757828366	-0.000777279	0.66886452
LRFN5	2.546791675	2.541971317	-0.002733202	0.750469173
LRG1	4.715911417	4.758261965	0.012898082	0.870129247
LRGUK	2.066358185	2.057941535	-0.005888358	0.941707376
LRIG1	7.249777576	7.381911465	0.026057701	0.027909774
LRIG2	4.217614987	4.200933401	-0.005717487	0.626723144
LRIG3	4.486470033	4.288264465	-0.065186893	0.200660916
LRIT1	3.226198146	3.328579789	0.045071703	0.329680625
LRIT2	2.30629447	2.40522419	0.060594644	0.118655984
LRMP	4.534383377	4.290800113	-0.07965968	0.139684309
LRP1	5.105343371	5.102591232	-0.000777924	0.849537396
LRP10	7.019635775	7.001621542	-0.003707094	0.786305544
LRP11	3.763432609	3.776820155	0.005122949	0.701307072
LRP12	5.590722146	5.75549807	0.041906136	0.026423021
LRP1B	2.891713311	3.040862049	0.072555841	0.157914
LRP2	3.630115344	3.730866254	0.039495253	0.16077651

LRP2BP	3.679099656	3.795988366	0.045122816	0.396535403
LRP3	8.735710662	8.70824507	-0.004543064	0.616489483
LRP4	6.44947651	6.543715486	0.020927958	0.478221741
LRP5	4.173185795	4.04825481	-0.043849052	0.140797176
LRP5L	4.027024079	3.891668352	-0.04932533	0.071238126
LRP6	6.74584543	6.654860493	-0.019590839	0.478649837
LRP8	7.055818172	7.009094908	-0.009585224	0.737423664
LRPAP1	9.897971669	9.907845901	0.001438517	0.656850351
LRPPRC	6.476484609	6.546434282	0.015498371	0.141729651
LRRC1	5.214539934	5.248561831	0.009382188	0.68602748
LRRC14	6.584712371	6.723985261	0.030196139	0.065489942
LRRC15	1.972991305	2.068459423	0.068172058	0.207043859
LRRC16A	2.577637424	2.531939507	-0.025806409	0.447951472
LRRC16B	3.341806841	3.442956718	0.043019698	0.158524104
LRRC17	3.255219457	3.066729796	-0.08605375	0.037788947
LRRC18	2.282172331	2.341825437	0.037225803	0.086224879
LRRC19	1.977672026	1.952982324	-0.0181243	0.482082548
LRRC2	3.027259238	3.107373317	0.037683351	0.859279563
LRRC20	5.890246689	6.085565563	0.04706329	0.012811101
LRRC23	5.41111949	5.453770282	0.011326834	0.787897816

<b>LRRC25</b>	4.341890073	4.273998183	-0.022736906	0.75938137
<b>LRRC27</b>	3.827219662	3.850397035	0.008710511	0.956538276
<b>LRRC28</b>	3.503251907	3.524845049	0.008865107	0.529255153
<b>LRRC29</b>	2.344577305	2.343983127	-0.000365663	0.984589183
<b>LRRC3</b>	2.256027609	2.201644761	-0.035203017	0.342502035
<b>LRRC31</b>	1.902973649	1.926180585	0.017487382	0.552538479
<b>LRRC32</b>	7.492973808	7.182589232	-0.061034397	0.276337788
<b>LRRC33</b>	2.752272669	2.619157077	-0.071520821	0.061458541
<b>LRRC34</b>	5.113338695	5.287547148	0.048333033	0.142667246
<b>LRRC36</b>	4.263286351	4.374877542	0.037276675	0.437294147
<b>LRRC37A2</b>	5.05884851	5.123859423	0.018421857	0.32525048
<b>LRRC37A3</b>	2.850361543	2.877896303	0.013869685	0.873932463
<b>LRRC37A4</b>	4.321858411	4.517024627	0.063720971	0.019644386
<b>LRRC37B</b>	4.754449119	4.807885965	0.016124487	0.715163298
<b>LRRC37B2</b>	5.811552046	5.881341754	0.017221821	0.311533342
<b>LRRC38</b>	3.767953331	3.959192254	0.071425028	0.376859671
<b>LRRC39</b>	6.523040993	6.427633585	-0.021257006	0.371666794
<b>LRRC3B</b>	2.469741285	2.654819423	0.104253812	0.036533945
<b>LRRC4</b>	2.766154768	2.840869901	0.038450886	0.183963251
<b>LRRC40</b>	4.857655728	5.022665092	0.048192833	0.101916047

LRRRC41	3.348220278	3.387504359	0.016828358	0.264641753
LRRRC42	6.836475887	6.847118366	0.002244126	0.905002727
LRRRC43	2.41766647	2.452536915	0.020659621	0.428391323
LRRRC45	5.013156735	5.048248817	0.010063679	0.470974921
LRRRC46	3.866536762	4.074453289	0.075564561	0.050173333
LRRRC47	7.091958967	7.089920472	-0.000414744	0.898447835
LRRRC48	4.491759636	4.626334599	0.042588884	0.341100808
LRRRC49	7.257594914	7.380711099	0.024268286	0.535596742
LRRRC4B	2.481573152	2.580974092	0.056660676	0.127194754
LRRRC4C	4.915119583	5.139552148	0.064416134	0.193948457
LRRRC50	2.190082563	2.273516521	0.05394023	0.10934575
LRRRC55	1.870428444	1.924093162	0.04080988	0.062908751
LRRRC56	6.432674914	6.570389063	0.03056002	0.049290339
LRRRC57	3.906041	3.988328754	0.030077242	0.329680452
LRRRC58	5.029421159	5.121738204	0.026241144	0.025912054
LRRRC59	6.624081424	6.652776958	0.00623626	0.889718996
LRRRC6	4.23659147	4.163463408	-0.025119873	0.131198632
LRRRC61	3.908457079	3.888630796	-0.00733693	0.691615463
LRRRC63	2.083624238	2.094910254	0.007793315	0.762534517
LRRRC68	7.102336748	7.187630289	0.017222437	0.288380781

LRRC7	2.074811695	2.110934493	0.024901402	0.189255758
LRRC8A	9.537399272	9.565268127	0.004209495	0.580556042
LRRC8B	4.892263748	5.014992521	0.035745366	0.232696891
LRRC8C	2.963082788	2.870434303	-0.045829899	0.165564317
LRRC8D	6.483472993	6.527160549	0.009688699	0.532421218
LRRC8E	2.417013477	2.54229281	0.072904686	0.010824777
LRRCC1	4.466393861	4.395165542	-0.023192973	0.326949814
LRRFIP1	4.951259351	4.821844965	-0.038210256	0.044627044
LRRFIP2	6.460083947	6.464294246	0.000939957	0.960385972
LRRIQ1	3.766670603	3.904887472	0.0519911	0.37537134
LRRIQ3	3.334035861	3.45327169	0.050694222	0.175680625
LRRK1	2.979306252	2.977687908	-0.000783877	0.815094431
LRRK2	4.697325291	4.668848007	-0.008772881	0.99944958
LRRN1	3.548586709	3.785925232	0.093401361	0.033321599
LRRN2	6.92314	7.232517465	0.063071379	0.001532387
LRRN3	4.946660305	5.160332134	0.061009094	0.223906895
LRRN4	1.955798689	1.932188085	-0.017522344	0.499007088
LRRTM1	3.35769204	3.281538521	-0.033097547	0.21180119
LRRTM2	3.90075051	3.938244303	0.013800882	0.7894909
LRRTM3	1.987417947	2.028709704	0.029667141	0.337960843

LRRTM4	3.003693848	3.066609845	0.029906856	0.582449606
LRSAM1	4.006824126	3.966496613	-0.014593869	0.691106825
LRTM1	5.311618046	5.60850257	0.078464226	0.267012696
LRTM2	3.775438351	3.987818951	0.078955752	0.222072891
LRTOMT	5.177428066	5.262672232	0.02355994	0.271798302
LRWD1	8.531215113	8.601246655	0.011794536	0.080211311
LSAMP	4.190879126	4.425162542	0.078477537	0.089821552
LSDP5	4.772732086	4.719142894	-0.016290497	0.965334435
LSG1	5.81241906	5.809472141	-0.000731637	0.924704465
LSM1	8.781222868	8.7273905	-0.008871512	0.196086729
LSM10	6.644462629	6.66187193	0.003775093	0.896810305
LSM11	3.38631855	3.356605697	-0.012714621	0.530610949
LSM12	7.715826113	7.827571345	0.020744122	0.011711698
LSM14A	9.048736728	9.032065056	-0.002660518	0.876650529
LSM14B	4.745143291	4.762428866	0.00524589	0.962585112
LSM2	4.895865616	4.933409387	0.011021052	0.401936486
LSM3	8.80705843	8.829006472	0.003590863	0.451671447
LSM4	8.376692305	8.433996366	0.009835719	0.260819372
LSM5	7.896052483	7.889016289	-0.001286163	0.835506085
LSM6	7.266645536	7.205490479	-0.012192896	0.229472578

LSM7	10.43034001	10.43026059	-1.10E-05	0.857651847
LSM8	7.871991762	7.874137366	0.00039317	0.83604496
LSMD1	11.07710696	11.10308891	0.003379956	0.593851383
LSP1	7.054570735	6.929074845	-0.025895559	0.651375972
LSR	6.957535291	7.051336803	0.01932047	0.379472579
LSS	7.513736517	7.63227557	0.022582736	0.105430567
LST-3TM12	1.833541669	1.8360985	0.002010403	0.353128675
LST1	5.535835477	5.530022085	-0.001515825	0.857654299
LTA	2.192782947	2.197354176	0.003004413	0.563666306
LTA4H	9.893009517	9.853180796	-0.005819935	0.361049796
LTB	6.708499384	6.446735655	-0.05742126	0.200660969
LTB4R	3.267580503	3.355925106	0.038487739	0.154090639
LTB4R2	3.052730404	3.041912366	-0.005121595	0.932927852
LTBP1	3.456436881	3.391454655	-0.027381377	0.621354022
LTBP2	4.784178854	4.630810852	-0.047006494	0.191356987
LTBP3	7.168959768	7.158625873	-0.002081113	0.814023393
LTBP4	6.603852623	6.513593423	-0.019854254	0.633094372
LTBR	5.924140079	5.848783648	-0.018469131	0.768325579
LTC4S	4.154918132	4.049116042	-0.037213061	0.395767251
LTF	3.438075775	3.523134725	0.035258303	0.546097374



GPM6A	8.161728636	8.739040908	0.098600212	0.003081811
LTV1	6.351253212	6.232710944	-0.027181483	0.174582862
LUC7L	6.602949636	6.493273099	-0.024164753	0.077393087
LUC7L2	7.201396709	7.129232669	-0.014529939	0.045439283
LUM	4.152187781	4.365212669	0.072180252	0.289322463
LUZP1	2.982784351	2.972820169	-0.004827483	0.64938916
LUZP2	3.075807351	3.077103331	0.000607746	0.823674494
LUZP4	1.897397742	1.961420711	0.047876882	0.233779012
LUZPP1	1.912475079	1.942869324	0.022747921	0.281544716
RHPN2	3.498192642	3.746366718	0.098882387	0.016089236
LXN	7.314428901	7.057174585	-0.051654525	0.609709081
LY6D	2.200844166	2.238586873	0.02453131	0.99944958
LY6E	4.318791159	4.187999268	-0.044366365	0.168530705
LY6G5B	2.319546033	2.275907486	-0.027400564	0.414841995
LY6G5C	2.334656265	2.359375268	0.015194748	0.959836263
LY6G6C	2.299739397	2.181930845	-0.07586501	0.00736075
LY6G6E	1.996265709	1.995254211	-0.000731191	0.975785217
LY6G6F	2.190575192	2.130405021	-0.040182002	0.177225861
LY6H	3.487629026	3.717046937	0.091910315	0.037094179
PDE1A	2.155918457	2.309142021	0.099054295	0.000949527

LY75	2.963558642	2.977761972	0.006897831	0.753087082
LY86	6.052082815	5.917343155	-0.032482168	0.310545096
LY9	2.14757094	2.232443852	0.055918102	0.148391862
LY96	5.71851906	5.362701317	-0.092681674	0.071780511
LYAR	6.515507503	6.430664648	-0.018909701	0.160982576
CXADR	3.137947702	3.361517197	0.099291222	0.005705742
LYG2	3.047882066	3.105517218	0.027026486	0.846835317
LYL1	4.757157596	4.515997613	-0.075055097	0.076816434
LYN	7.495017086	7.601667817	0.020384216	0.205805206
LYNX1	7.828826079	7.921488993	0.016975644	0.180122295
LYPD1	5.330212583	5.398615415	0.018396374	0.48423498
LYPD2	1.992946556	1.924583366	-0.050356858	0.365056149
LYPD3	4.442106371	4.533030944	0.029232069	0.024474257
LYPD4	2.074682139	2.019745211	-0.038717009	0.213065967
LYPD5	4.815554152	4.947780944	0.039079802	0.314179644
LYPD6	3.823984801	4.015047268	0.070340183	0.019178704
LYPD6B	2.438607828	2.589041218	0.086360168	0.028906834
LYPLA1	6.894056642	6.957417704	0.013198787	0.694160985
LYPLA2	3.168852331	3.18200031	0.005973545	0.590519784
LYPLA2P1	4.278686715	4.367413676	0.029611139	0.254439893

LYPLAL1	7.576434715	7.793741486	0.040796968	0.00095186
LYRM1	5.621536974	5.676358641	0.014001115	0.313847848
LYRM2	5.843889338	5.914799979	0.017400523	0.042123384
LYRM4	7.043988974	7.062570535	0.00380072	0.432828117
LYRM5	4.076678861	4.146515838	0.024505289	0.189023342
LYRM7	6.177758483	6.230050141	0.012160304	0.48639209
LYSMD1	5.119512556	5.082109542	-0.010578981	0.520710537
LYSMD2	7.382761152	7.261566113	-0.023879755	0.017972462
LYSMD3	6.420227993	6.394817232	-0.005721404	0.756756464
LYSMD4	4.831668033	4.808493704	-0.006936306	0.722385389
LYST	7.907774556	7.952868352	0.008203548	0.566465172
LYVE1	4.733204907	4.292780873	-0.140904848	0.066608008
LYZ	3.349803623	3.213471641	-0.059943782	0.353128847
LYZL1	2.640227245	2.492713437	-0.082945069	0.019107848
LYZL2	2.066545947	2.00574138	-0.043085843	0.07059159
LYZL4	2.824075126	2.873765028	0.025163638	0.6643498
LYZL6	1.935619238	1.853572641	-0.062486529	0.270296418
LZIC	7.016908623	7.057081845	0.008236167	0.406210929
LZTFL1	5.904489166	5.89705981	-0.001816422	0.982938262
LZTR1	5.144606033	5.067535789	-0.021776229	0.204079902

LZTS1	9.219172808	9.147369655	-0.011280357	0.638013154
LZTS2	9.430166907	9.363156613	-0.010288316	0.21230551
M6PR	5.243143914	5.290375803	0.012938063	0.387378039
M6PRBP1	5.478734675	5.407993761	-0.018749251	0.548853353
MAB21L1	3.906380497	4.212665831	0.108900999	0.042826443
MAB21L2	3.281191291	3.267295923	-0.006122577	0.984589187
MACC1	2.01684755	1.954922211	-0.044990835	0.036906574
MACF1	7.392893391	7.416793437	0.00465648	0.885904153
MACROD1	4.070773517	4.134524739	0.022418545	0.274818955
MACROD2	3.858662325	4.086311937	0.082698542	0.082379844
MAD1L1	6.562816113	6.624073106	0.013403585	0.393086086
MAD2L1	3.704464457	3.81464193	0.04228265	0.231349741
MAD2L1BP	6.686688013	6.686154127	-0.000115194	0.831737471
MAD2L2	6.001605907	5.988246289	-0.003215029	0.698752007
MADCAM1	3.546823735	3.568168239	0.008656005	0.872845496
MADD	9.178180351	9.291652838	0.017727096	0.515350305
MAEA	9.220119497	9.143901289	-0.011975619	0.031424069
MAEL	2.836960662	3.010051387	0.085441971	0.057272481
MAF	5.912765152	5.836306317	-0.018777371	0.407381864
MAF1	4.894249046	4.86799319	-0.007760366	0.543348223

<b>MAFA</b>	4.997821669	4.995289106	-0.000731247	0.983488554
<b>MAFB</b>	7.209542523	7.003701408	-0.041790139	0.281236707
<b>MAFF</b>	5.801600325	5.821730239	0.00499708	0.670875051
<b>MAFG</b>	8.023185106	7.921602486	-0.018382775	0.145698648
<b>MAFK</b>	5.027376364	5.018083979	-0.002669083	0.703865791
<b>MAG</b>	2.839960265	2.717942528	-0.063355794	0.084098754
<b>MAGEA1</b>	1.817503947	1.855157014	0.0295828	0.262872641
<b>MAGEA10</b>	1.883646166	1.859890944	-0.018309957	0.33691896
<b>MAGEA11</b>	1.916925424	1.907842472	-0.006852157	0.993945435
<b>MAGEA12</b>	2.022921232	2.025575648	0.00189182	0.951592738
<b>MAGEA2B</b>	1.944630722	1.989994944	0.033268546	0.390035539
<b>MAGEA4</b>	1.971668861	2.001625204	0.021754588	0.617461492
<b>MAGEA5</b>	2.077601914	2.050296951	-0.019086373	0.861447424
<b>MAGEA6</b>	2.355109828	2.404819366	0.030134193	0.06589464
<b>MAGEA8</b>	1.86021494	1.941208127	0.061485476	0.147040613
<b>MAGEA9</b>	1.853955841	1.784074113	-0.055431333	0.286505626
<b>MAGEB1</b>	2.020491417	1.992120845	-0.020401057	0.297243413
<b>MAGEB10</b>	1.935943517	1.844907035	-0.06948874	0.086731419
<b>MAGEB18</b>	1.863232265	1.861824669	-0.001090309	0.640973185
<b>MAGEB2</b>	2.055423205	2.107969345	0.036418416	0.396151158

<b>MAGEB3</b>	1.897307298	1.891399366	-0.004499346	0.869586088
<b>MAGEB4</b>	1.932780232	1.931071873	-0.001275743	0.893536353
<b>MAGEB6</b>	1.894022139	1.899667887	0.004294025	0.770962222
<b>MAGEC1</b>	2.058154265	2.109193444	0.035340297	0.178558432
<b>MAGEC2</b>	2.024073629	1.9791545	-0.032377533	0.558552643
<b>MAGEC3</b>	1.995293748	1.932690183	-0.045990769	0.081410484
<b>MAGED1</b>	9.100190179	9.209173852	0.017175044	0.078908736
<b>MAGED2</b>	8.911118901	8.839461754	-0.011648067	0.488120933
<b>MAGED4B</b>	5.976842026	5.846588514	-0.031788354	0.144176935
<b>MAGEE1</b>	4.565420013	4.819195056	0.078044603	0.018653307
<b>MAGEE2</b>	2.746440742	2.925295028	0.09101897	0.065793297
<b>MAGEF1</b>	8.50980994	8.561091585	0.008667849	0.546555501
<b>MAGEH1</b>	9.59524943	9.518595887	-0.011571537	0.038948581
<b>MAGEL2</b>	5.607429854	5.683117218	0.019342804	0.67389499
<b>MAGI1</b>	4.607081629	4.839775176	0.071086871	0.425981462
<b>MAGI2</b>	5.508351172	5.714747606	0.053069244	0.107524767
<b>MAGI3</b>	6.210440775	6.372542176	0.037173352	0.242840731
<b>MAGIX</b>	3.988563371	4.085359352	0.034593785	0.267905269
<b>MAGOH</b>	7.155191007	7.097457901	-0.011687893	0.395383569
<b>MAGOHB</b>	5.807367583	5.730545232	-0.019211943	0.156497179

<b>MAGT1</b>	6.750904543	6.562333563	-0.040871892	0.148973697
<b>MAK</b>	6.106645788	6.172613197	0.015501224	0.785775233
<b>MAK10</b>	7.556852265	7.590188824	0.006350358	0.668864594
<b>MAK16</b>	5.718636934	5.647297507	-0.018110678	0.319516002
<b>MAL</b>	9.087613921	9.023549366	-0.010206523	0.479934541
<b>MAL2</b>	3.427622649	3.693387225	0.107736237	0.087880035
<b>MALAT1</b>	10.9356479	10.66480487	-0.036181128	0.014381175
<b>MALL</b>	4.804727159	4.509287479	-0.09155502	0.26287321
<b>MALT1</b>	3.418068199	3.556188204	0.057150495	0.006351809
<b>MAMDC2</b>	2.597788662	2.647967275	0.027601224	0.561804353
<b>MAMDC4</b>	4.740933464	4.593752324	-0.045498071	0.012346434
<b>MAML1</b>	7.006118523	6.950062113	-0.011589523	0.124804258
<b>MAML2</b>	2.454878397	2.444005246	-0.00640418	0.907735959
<b>MAML3</b>	1.966956728	1.91131512	-0.041399564	0.385109088
<b>MAMLD1</b>	6.015030715	5.975592528	-0.009490329	0.600079842
<b>MAN1A1</b>	3.277245901	3.10021638	-0.080115014	0.055226209
<b>MAN1A2</b>	5.038113338	5.028675063	-0.002705243	0.893536252
<b>MAN1B1</b>	6.042302278	6.082312345	0.009521545	0.350274704
<b>MAN1C1</b>	8.83885847	8.742731345	-0.015775992	0.15428969
<b>MAN2A1</b>	5.231472709	5.269047176	0.010324961	0.575842435

MAN2A2	8.689958364	8.717069768	0.004493992	0.616489315
MAN2B1	8.595694583	8.534105246	-0.01037432	0.800132715
MAN2B2	6.350501728	6.318646141	-0.007255104	0.631130927
MAN2C1	6.658044417	6.60075319	-0.01246784	0.34250192
MANBA	5.666025556	5.624227746	-0.010682093	0.271196624
MANBAL	7.453048364	7.530612859	0.014936658	0.03766162
MANEA	4.29699647	4.29719643	6.71E-05	0.588140811
MANEAL	5.636718768	5.834920937	0.049857518	0.35241375
MANSC1	4.018413179	4.003890634	-0.005223344	0.809742883
MAOA	7.276843285	7.300593296	0.004700971	0.718771172
MAOB	5.365447636	5.674696746	0.080844758	0.000363654
MAP1A	5.909908291	5.972331993	0.015158622	0.669869435
MAP1B	8.117858384	8.193546711	0.013388909	0.81777335
MAP1D	2.747548053	2.76662419	0.009981973	0.628191003
MAP1LC3A	5.857211377	5.966074451	0.026568021	0.193475118
MAP1LC3B	7.69285647	7.736104472	0.008087886	0.596247049
MAP1LC3C	2.290184742	2.206520021	-0.053691143	0.147233208
MAP1S	4.784587358	4.804545739	0.006005527	0.633094413
MAP2	4.760409722	4.873296479	0.033812245	0.898993924
MAP2K1	6.182749252	6.300674394	0.027257759	0.017574448



MAP2K2	7.796620079	7.82624169	0.005470829	0.597204355
MAP2K3	8.534558278	8.407405014	-0.021655911	0.230275396
MAP2K4	8.371295172	8.429052162	0.009919563	0.264345611
MAP2K5	3.251977801	3.294562282	0.018769391	0.55762507
MAP2K6	4.394504689	4.378512958	-0.005259585	0.754134866
MAP2K7	2.84575755	2.804982972	-0.020820741	0.789490876
MAP3K1	4.177215272	4.38664638	0.070576917	0.057634737
MAP3K10	7.275132768	7.309482444	0.006795681	0.638999701
MAP3K11	6.142163404	6.021002366	-0.028743209	0.572082633
MAP3K12	4.674426265	4.577247577	-0.030308973	0.106025575
MAP3K13	3.058348563	3.074601197	0.007646451	0.91484712
MAP3K14	6.018142881	6.085192127	0.015984455	0.211800973
MAP3K15	2.026468914	2.041669937	0.010781609	0.823137549
MAP3K2	4.405794	4.393902042	-0.003899334	0.856570989
MAP3K3	8.038277675	7.907722408	-0.023624187	0.151712424
MAP3K4	5.052892305	5.00921562	-0.012524718	0.420787627
MAP3K5	7.379416854	7.392487859	0.002553155	0.926348547
MAP3K6	9.328194278	9.225235986	-0.016012019	0.430806622
MAP3K7	6.928758735	6.874838127	-0.011271177	0.106174357
MAP3K7IP1	5.657586762	5.773970275	0.029376876	0.02540988

MAP3K7IP2	9.162352775	9.088330528	-0.011702807	0.165143321
MAP3K7IP3	3.784023477	3.800041606	0.006094175	0.869043098
MAP3K8	3.787411205	3.648770606	-0.053801612	0.048893283
MAP3K9	4.324028921	4.490334345	0.054446698	0.401936654
MAP4	6.473962358	6.549301887	0.016692156	0.235408147
MAP4K1	5.818260053	5.853937035	0.008819448	0.91484711
MAP4K2	4.702144596	4.720321085	0.005566093	0.819917953
MAP4K3	3.277856146	3.306386169	0.012502693	0.430001725
MAP4K4	4.542838199	4.603019352	0.018986586	0.338308579
MAP4K5	5.562089272	5.528545641	-0.00872689	0.204325141
MAP6	7.95846057	8.075266662	0.021020509	0.567866823
MAP6D1	6.068218152	6.254659317	0.043658353	0.015817718
JMJD2D	3.226652503	3.458678845	0.100182845	0.017120008
MAP7D1	9.508725523	9.505138655	-0.000544314	0.813487229
MAP7D2	3.409883636	3.572574669	0.067241658	0.243955803
MAP7D3	4.605654563	4.454166099	-0.048250851	0.219472384
MAP9	6.987090775	7.098015845	0.022723911	0.219731315
MAPK1	4.552874689	4.543570655	-0.002951238	0.661846539
MAPK10	4.496802689	4.508278662	0.00367711	0.904456314
MAPK11	8.078199755	8.096986134	0.003351186	0.884814695

MAPK12	3.232617775	3.260427732	0.01235831	0.979086412
MAPK13	3.299265397	3.286607465	-0.005545676	0.811347573
MAPK14	5.846121099	5.764238627	-0.020349653	0.222334019
MAPK15	2.162376675	2.167460338	0.003387739	0.512237749
MAPK1IP1L	7.584740344	7.573521648	-0.00213549	0.660846334
MAPK3	5.24279845	5.30047469	0.015784483	0.354561217
CSRNP3	2.579630589	2.765249563	0.100245207	0.006207143
MAPK6	6.578833437	6.631146873	0.011426623	0.406211433
MAPK7	6.601033338	6.592929296	-0.001772275	0.923060714
MAPK8	3.997715616	4.04481119	0.016896513	0.649389199
MAPK8IP1	3.489479629	3.61095538	0.049368684	0.179004275
MAPK8IP2	5.593386384	5.751871254	0.04030939	0.247604067
MAPK8IP3	2.760258179	2.758348423	-0.000998511	0.863074018
MAPK9	3.60461294	3.64814238	0.017317684	0.335878742
MAPKAP1	4.183095795	4.270464986	0.029822128	0.206547826
MAPKAPK2	5.646842371	5.600665218	-0.011846166	0.352056544
MAPKAPK3	5.91708149	5.990883049	0.017882906	0.766744935
MAPKAPK5	6.018646801	6.086132683	0.01608663	0.429196002
MAPKBP1	6.948939596	6.970743641	0.004519731	0.783653915
MAPKSP1	5.182568146	5.195060923	0.003473486	0.816165621

MAPRE1	6.523928252	6.488651275	-0.007822284	0.84305527
MAPRE2	5.10971445	5.155871366	0.0129736	0.363597309
MAPRE3	3.586724437	3.703735514	0.046314169	0.16874431
MAPT	8.074943166	8.307836845	0.041020778	0.225750373
1-Mar	3.056575775	3.051459486	-0.002416897	0.929637618
10-Mar	2.013191272	1.935141401	-0.05704526	0.162845352
11-Mar	3.247483795	3.428859676	0.078406538	0.179004327
2-Mar	5.147879596	5.093587845	-0.015296084	0.448364299
3-Mar	5.436114179	5.599339873	0.042680994	0.208039062
4-Mar	2.281892166	2.296225528	0.00903373	0.51624226
5-Mar	6.233326881	6.151108704	-0.019155899	0.079617683
6-Mar	7.169874517	7.194143352	0.004875037	0.807604919
7-Mar	5.020258616	4.987437845	-0.009462824	0.377232109
8-Mar	2.253282338	2.168188401	-0.055537973	0.076128821
9-Mar	7.663021669	7.759998113	0.018142916	0.607777394
MARCKS	11.23134855	11.08925843	-0.018368271	0.017409889
MARCKSL1	5.03514545	5.170771796	0.038346181	0.007300267
MARCO	6.079027828	6.25959719	0.042229199	0.432829488
MARK1	5.457305132	5.514776577	0.015113728	0.964234663
MARK2	6.458843404	6.42386157	-0.007835038	0.386242263

MARK3	6.007248815	6.054557423	0.011317085	0.350274819
MARK4	5.138583583	5.294244359	0.04305404	0.017023937
MARS	7.007867563	6.975265394	-0.006727401	0.903363443
MARS2	1.880920007	1.838511134	-0.032900581	0.189721063
MARVELD2	4.659694934	4.599059923	-0.018896511	0.632112407
MARVELD3	3.000217589	2.98317088	-0.008220516	0.949395284
MAS1	1.883887894	1.825996338	-0.045029244	0.122616445
MAS1L	2.304598013	2.384018183	0.048880113	0.090870768
MASP1	2.078241113	2.086458577	0.005693237	0.875563351
MASP2	2.28576653	2.263173739	-0.014330711	0.580085764
MAST1	7.242563815	7.349973218	0.021238502	0.926348529
MAST2	6.227141682	6.16438012	-0.014614277	0.496819724
MAST3	3.561987437	3.479038134	-0.033993936	0.35420235
MAST4	6.34327602	6.291136669	-0.011907417	0.424779806
MASTL	2.465089483	2.435584908	-0.017371739	0.415236741
MAT1A	3.010890556	3.193662035	0.085021382	0.074431615
MAT2A	11.03161378	10.99964837	-0.004186448	0.632109279
MAT2B	8.330163775	8.339040155	0.001536475	1
MATK	3.298183232	3.338130718	0.0173689	0.682480175
MATN1	2.200786629	2.229284148	0.018561237	0.531515742

<b>MATN2</b>	4.296838967	4.243927042	-0.017875855	0.629170448
<b>MATN3</b>	2.428768185	2.327561021	-0.061405807	0.458336746
<b>MATN4</b>	4.914891437	4.601023528	-0.095204716	0.088781884
<b>MATR3</b>	8.027402139	8.06837957	0.007345784	0.493765936
<b>MAX</b>	8.240085265	8.147008669	-0.016388823	0.01050754
<b>MAZ</b>	3.862728338	3.840761092	-0.008227992	0.522952372
<b>MB</b>	1.928915788	2.057193239	0.092887158	0.027616565
<b>MBD1</b>	4.205326424	4.200466155	-0.001668346	0.827434934
<b>MBD2</b>	7.394815821	7.267994415	-0.024956904	0.182600444
<b>MBD3</b>	6.750354278	6.733527669	-0.003600696	0.729632209
<b>MBD3L1</b>	1.978291265	1.979296528	0.000732915	0.875019682
<b>MBD3L2</b>	1.923391788	1.912134162	-0.008468913	0.712075664
<b>MBD4</b>	5.969056689	5.875850852	-0.022705179	0.020909244
<b>MBD5</b>	2.560117152	2.465926211	-0.0540802	0.065288346
<b>MBD6</b>	7.426681483	7.421726599	-0.000962849	0.95433999
<b>MBIP</b>	6.057267755	5.984967148	-0.017323857	0.098777075
<b>MBL1P1</b>	2.741232364	2.665547704	-0.040392624	0.422382282
<b>MBL2</b>	1.919645689	1.887162697	-0.024621249	0.39308603
<b>MBNL1</b>	7.445074013	7.372849549	-0.014063873	0.255014994
<b>MBNL2</b>	8.476062344	8.413146197	-0.010748785	0.445478126

<b>MBNL3</b>	2.623359556	2.711491401	0.047671039	0.04952969
<b>MBOAT1</b>	3.954170139	3.69748938	-0.096828945	0.034013733
<b>MBOAT2</b>	6.725146563	6.695478796	-0.006378482	0.504277497
<b>MBOAT4</b>	1.890519656	1.87980212	-0.008202047	0.878282629
<b>MBOAT7</b>	7.380092205	7.321740014	-0.011452295	0.285259725
<b>MBP</b>	6.058391079	6.007206099	-0.012240548	0.50648186
<b>MBTD1</b>	3.489593046	3.531357	0.017163876	0.479078089
<b>MBTPS1</b>	8.125960762	8.149750225	0.004217446	0.604885503
<b>MBTPS2</b>	2.318519993	2.381962218	0.038946362	0.313848021
<b>MC1R</b>	6.304509609	6.271464204	-0.007581847	0.617461073
<b>MC2R</b>	2.02334957	2.012528507	-0.007736374	0.572551901
<b>MC3R</b>	2.029444106	1.916472239	-0.082631506	0.024343173
<b>MC4R</b>	2.182838126	2.268193775	0.055338749	0.131551559
<b>MC5R</b>	2.211784675	2.274908465	0.040597556	0.193711708
<b>MCAM</b>	8.179611285	8.165109317	-0.002560083	0.910470096
<b>M CART1</b>	3.013293106	2.944928254	-0.033108526	0.133683244
<b>M CART2</b>	2.383556801	2.372139697	-0.006927032	0.814558902
<b>M CART3P</b>	3.016048265	2.914143711	-0.04958749	0.111036153
<b>MCAT</b>	5.498110126	5.553095218	0.01435633	0.314843407
<b>MCC</b>	4.824586093	4.853866915	0.008729376	0.325249903

MCCC1	8.510370152	8.430088697	-0.013674072	0.04492056
MCCC2	3.219630954	3.247579317	0.012469431	0.427587083
MCCD1	2.235534152	2.219213859	-0.010570884	0.833352231
MCEE	7.058898113	7.026754444	-0.006584515	0.738464402
MCF2	4.427868934	4.365716479	-0.020394078	0.429598974
MCF2L	6.752944192	6.779066261	0.005569937	0.847375511
MCF2L2	2.279414775	2.316897465	0.023530729	0.41129834
MCFD2	6.219159682	6.383120648	0.037542257	0.024299546
MCHR1	2.714115079	2.817914465	0.054145928	0.23459294
MCHR2	1.868231331	1.908781937	0.03097919	0.346021207
MCL1	9.731719848	9.66012381	-0.01065311	0.286191249
MCM10	2.059381927	2.044412528	-0.010525076	0.352771126
MCM2	5.617099457	5.74591769	0.032711979	0.104248585
MCM3	8.708944199	8.81797512	0.017949577	0.02531908
MCM3AP	8.391888801	8.351761831	-0.00691499	0.174362929
MCM3APAS	3.654824854	3.713144197	0.022839071	0.64988562
MCM4	3.591432987	3.709260577	0.046572025	0.183963356
MCM5	6.885189411	6.902511796	0.003625105	0.917036591
MCM6	6.821410815	6.773639711	-0.010138898	0.34920796
MCM7	8.893867755	8.822650972	-0.011598741	0.123117759



<b>MCM8</b>	4.812450311	4.900643254	0.026199483	0.268501875
<b>MCM9</b>	2.615699921	2.51913112	-0.054270825	0.018073235
<b>MCOLN1</b>	5.213082073	5.449688592	0.06403722	0.004432367
<b>MCOLN2</b>	2.670325424	2.590905789	-0.043559012	0.341800991
<b>MCOLN3</b>	2.205590947	2.066919268	-0.093683212	0.04641545
<b>MCPH1</b>	3.18528298	3.164903937	-0.009259836	0.73378419
<b>MCRS1</b>	5.95252996	5.898740789	-0.013095963	0.357076766
<b>MCTP1</b>	3.486433	3.461780859	-0.010237356	0.593857898
<b>MCTP2</b>	3.230145841	3.097659683	-0.060420649	0.13440007
<b>MCTS1</b>	6.862940437	6.804530359	-0.012331242	0.270596087
<b>MDC1</b>	7.244362689	7.349617401	0.020810373	0.165564166
<b>MDFI</b>	4.513258834	4.407550718	-0.034192348	0.502957263
<b>MDFIC</b>	4.770529291	4.90781243	0.04093077	0.045439361
<b>MDGA1</b>	5.536434728	5.57861719	0.010950326	0.667358446
<b>MDH1</b>	10.34095935	10.46175761	0.016755215	0.282777492
<b>MDH1B</b>	2.422664742	2.52019269	0.056939272	0.041361753
<b>MDH2</b>	9.043685649	9.098361507	0.008695913	0.297561915
<b>MDK</b>	7.587972781	7.339244923	-0.048082861	0.12875016
<b>MDM1</b>	3.942930735	4.062585261	0.043129724	0.172620287
<b>MDM2</b>	3.045516152	3.075244437	0.014014332	0.701818492

<b>MDM4</b>	4.540816854	4.469759183	-0.022754744	0.341100521
<b>MDN1</b>	2.329988689	2.388222331	0.035614199	0.15033867
<b>MDP-1</b>	7.945181649	8.076784359	0.023700818	0.093133308
<b>MDS1</b>	2.250578205	2.162974507	-0.057279036	0.028255401
<b>ME1</b>	5.806442907	5.875903732	0.017156137	0.429196167
<b>ME2</b>	4.501054225	4.501161641	3.44E-05	0.910470139
<b>ME3</b>	6.45445004	6.477184775	0.005072726	0.743676334
<b>MEA1</b>	8.332122987	8.358189704	0.004506369	0.547473335
<b>MECP2</b>	8.118918808	8.034805338	-0.015024546	0.1285758
<b>MECR</b>	5.758075245	5.84188293	0.020846805	0.485097118
<b>MED1</b>	6.067947497	6.063428014	-0.001074938	0.93402481
<b>MED10</b>	7.892454967	7.803645697	-0.016325846	0.061745894
<b>MED11</b>	6.394316305	6.44842781	0.012157349	0.383601147
<b>MED12</b>	3.677161411	3.663435451	-0.00539531	0.482942708
<b>MED12L</b>	2.055895801	2.067559296	0.008161559	0.421983218
<b>MED13</b>	5.700921291	5.740908085	0.010083874	0.375370714
<b>MED13L</b>	11.33229295	11.40687922	0.009464339	0.301090639
<b>MED14</b>	3.150016053	3.167328211	0.007907192	0.765165153
<b>MED15</b>	5.79765194	5.74348269	-0.013542912	0.397689147
<b>MED16</b>	6.403713331	6.351127246	-0.01189605	0.304007683

MED17	4.266354709	4.223128725	-0.014691695	0.451259969
MED18	2.048273397	2.033167972	-0.010678885	0.753610988
MED19	7.936464834	7.927514423	-0.001627929	0.846295051
MED20	4.534781199	4.503411296	-0.010014698	0.493765885
MED21	5.945669066	5.789980493	-0.038280678	0.045513742
MED22	8.088265755	8.170979585	0.014678647	0.089429579
MED23	3.829429861	3.846880746	0.006559492	0.552999747
MED24	5.501957086	5.647583134	0.037688716	0.067430878
MED25	3.415701232	3.36897057	-0.019873963	0.547933613
MED26	5.980237656	5.951351359	-0.006985524	0.394999548
MED27	4.343232934	4.571189169	0.073800194	0.027811834
MED28	6.282514212	6.141265711	-0.032806005	0.008773909
MED29	5.224078755	5.356857296	0.036210218	0.003391875
MED30	4.553227411	4.485004866	-0.021779966	0.163469692
MED31	5.039332854	4.993185641	-0.013272206	0.414447194
MED4	9.079995146	9.101078289	0.003345959	0.666855089
MED6	4.43463998	4.429446197	-0.001690653	0.992844633
MED7	5.551067007	5.505271972	-0.01195127	0.341100405
MED8	6.734829199	6.69623888	-0.008290363	0.280313594
MED9	6.069450358	6.15117631	0.019296455	0.196804364

<b>MEF2A</b>	4.343679185	4.391904254	0.01592905	0.397304284
<b>MEF2B</b>	6.099579841	6.075844451	-0.005624933	0.701818593
<b>MEF2C</b>	6.896125318	6.938649613	0.008868924	0.410121163
<b>MEF2D</b>	4.498690391	4.414294521	-0.027322192	0.010910653
<b>MEFV</b>	2.456378954	2.465385662	0.005280199	0.89462748
<b>MEG3</b>	7.808912166	7.63605919	-0.032293299	0.02447424
<b>CCT6B</b>	3.310535285	3.549486937	0.100545997	0.004403658
<b>MEGF11</b>	3.767065894	4.067164472	0.110582064	0.116071843
<b>MEGF6</b>	5.233966272	5.234027979	1.70E-05	0.62281636
<b>MEGF8</b>	8.222914993	8.33817119	0.020081078	0.184190637
<b>MEGF9</b>	6.79332351	6.875119669	0.017267266	0.492895628
<b>MEI1</b>	5.648702404	5.802461563	0.038745565	0.225487045
<b>MEIG1</b>	2.569851768	2.606752585	0.020568513	0.362505162
<b>MEIS1</b>	5.816758834	5.970059254	0.03752976	0.474377949
<b>MEIS2</b>	5.261840225	5.346022282	0.022898409	0.406601335
<b>MEIS3</b>	3.024095364	3.047323655	0.011039101	0.613095437
<b>MEIS3P1</b>	8.412492066	8.383318507	-0.005011796	0.32287926
<b>MELK</b>	2.129230298	2.151440113	0.014970682	0.834967752
<b>MEMO1</b>	3.821055199	3.732579592	-0.033798075	0.111655913
<b>MEN1</b>	4.20875043	4.224342169	0.005334733	0.620866894

<b>MEOX1</b>	2.088109179	2.04816162	-0.027867584	0.592426322
<b>MEOX2</b>	2.078071967	2.106142845	0.01935767	0.429196167
<b>MEP1A</b>	2.027730238	2.017501718	-0.007295832	0.927992933
<b>MEP1B</b>	1.939324974	1.914646401	-0.018476598	0.531063321
<b>MEPCE</b>	6.828822841	6.837280232	0.00178565	0.400388512
<b>MEPE</b>	1.938334238	1.902752056	-0.026729785	0.320522844
<b>MERTK</b>	6.380256954	6.256980732	-0.028147866	0.265529265
<b>MESDC1</b>	8.423572967	8.317024803	-0.018364766	0.410905204
<b>MESDC2</b>	7.320602046	7.25304069	-0.013376358	0.423580079
<b>MESP1</b>	6.087253894	6.242609148	0.0363576	0.108735813
<b>MEST</b>	6.068376325	5.774416599	-0.07163536	0.004403644
<b>MESTIT1</b>	1.991187775	1.978781289	-0.009017115	0.884270074
<b>MET</b>	7.438377205	7.260616099	-0.034895937	0.851700202
<b>METAP1</b>	6.079815026	6.049404866	-0.007234213	0.388135937
<b>METAP2</b>	8.308495318	8.240574127	-0.011842372	0.181244716
<b>METRN</b>	8.538511583	8.939774042	0.066253763	0.000365569
<b>METRNL</b>	10.30081262	10.33044607	0.004144396	0.951592421
<b>METT10D</b>	3.847068013	3.814521972	-0.012257063	0.718771107
<b>METT11D1</b>	5.510964166	5.500074204	-0.002853663	0.95763753
<b>METT5D1</b>	3.439406053	3.429730873	-0.004064075	0.618433498

<b>METTL1</b>	6.013507411	5.962368697	-0.012321106	0.549773377
<b>METTL10</b>	5.342449358	5.420988923	0.021054732	0.170889131
<b>METTL11A</b>	7.284729464	7.294342204	0.001902488	0.974684907
<b>METTL2A</b>	3.466198636	3.556858387	0.037249203	0.102931174
<b>METTL2B</b>	5.451382735	5.530812303	0.020869169	0.1236226
<b>METTL3</b>	4.958981556	5.018658761	0.017257995	0.137113269
<b>METTL4</b>	2.387096656	2.347479408	-0.024144481	0.656852113
<b>METTL5</b>	7.900113974	7.932086514	0.005826946	0.502956804
<b>METTL6</b>	4.813392722	4.891	0.023075328	0.070056387
<b>METTL7A</b>	8.460789298	8.43996407	-0.0035554	0.566931912
<b>METTL7B</b>	2.78150198	2.829298796	0.024580412	0.307919231
<b>METTL8</b>	4.595676854	4.517567359	-0.024731246	0.45666576
<b>METTL9</b>	6.208289364	6.118668211	-0.020978132	0.021139745
<b>MEX3A</b>	4.605072775	4.566699	-0.012072254	0.687042231
<b>MEX3B</b>	3.141065821	3.032173176	-0.050902023	0.30661191
<b>MEX3C</b>	6.544935444	6.482329923	-0.013866513	0.286194295
<b>MEX3D</b>	10.24542399	10.26263716	0.002421815	0.81134627
<b>MFAP1</b>	7.981364642	7.950210908	-0.005642304	0.695690193
<b>MFAP2</b>	4.080054556	4.051137704	-0.010261318	0.413264455
<b>MFAP3</b>	3.751798517	3.788921	0.014204707	0.520710686

<b>MFAP3L</b>	3.784345132	3.800036655	0.005969666	0.87773864
<b>MFAP4</b>	10.80667009	10.68028173	-0.016972344	0.36541867
<b>MFAP5</b>	2.205534225	2.216930021	0.007435083	0.865786264
<b>MFJF</b>	9.527749132	9.65609238	0.019304051	0.0149698
<b>MFGE8</b>	6.061420517	6.08137769	0.004742258	0.535596937
<b>MFHAS1</b>	3.475048126	3.573084894	0.040137234	0.167679276
<b>MFJ2</b>	2.360469033	2.362273296	0.001102326	0.961485549
<b>MFN1</b>	4.395482887	4.398506542	0.000992089	0.901724491
<b>MFN2</b>	9.859727106	9.922076458	0.009094358	0.334146091
<b>MFNG</b>	6.438891338	6.307880401	-0.029656997	0.581503458
<b>MFRP</b>	4.247564331	4.345020676	0.032727244	0.394616879
<b>MFSD1</b>	8.529423616	8.504760366	-0.004177667	0.729632116
<b>MFSD10</b>	4.738211815	4.679617042	-0.017952222	0.366152689
<b>MFSD11</b>	6.869283013	6.832465592	-0.007753235	0.592903044
<b>MFSD2</b>	3.760264874	3.867021972	0.040388672	0.054096784
<b>MFSD3</b>	5.782535497	5.905963176	0.030470144	0.028856188
<b>MFSD4</b>	4.613046086	4.962939134	0.105475056	0.046567161
<b>MFSD5</b>	8.307127073	8.257602141	-0.008626714	0.24339675
<b>MFSD6</b>	3.546223914	3.584974824	0.015679354	0.419594914
<b>MFSD6L</b>	2.089162437	2.133643711	0.030394617	0.192061091

<b>MFSD7</b>	6.211174033	6.158820415	-0.01221193	0.625256885
<b>MFSD8</b>	3.268493517	3.265708345	-0.001229883	0.884814722
<b>MFSD9</b>	3.547418695	3.564664113	0.006996523	0.935122042
<b>MGA</b>	5.591946086	5.562161331	-0.00770486	0.5109059
<b>MGAM</b>	2.245710325	2.163746937	-0.053640069	0.10812899
<b>MGAT1</b>	9.122139887	9.066846077	-0.008771501	0.258776938
<b>MGAT2</b>	7.39416553	7.372015162	-0.004328303	0.631621383
<b>MGAT3</b>	5.676084576	5.868621197	0.048125503	0.314511497
<b>MGAT4A</b>	5.280681775	5.146523979	-0.037125856	0.29152599
<b>MGAT4B</b>	4.858644517	4.870024894	0.003375266	0.784184126
<b>MGAT4C</b>	2.69308757	2.757412092	0.03405375	0.210793197
<b>MGAT5</b>	2.28643743	2.257705775	-0.018243954	0.521606915
<b>MGAT5B</b>	4.72483053	4.611151394	-0.03513555	0.262285475
<b>MGC10814</b>	12.2095655	12.11457479	-0.011268092	0.275413686
<b>MGC10981</b>	2.221222834	2.23279543	0.007496944	0.645422979
<b>MGC11082</b>	2.416924576	2.335624218	-0.049364277	0.419594747
<b>MGC119295</b>	2.520257649	2.470695232	-0.028654169	0.24901743
<b>MGC12916</b>	2.001919987	2.055977324	0.038440039	0.187633054
<b>MGC12935</b>	2.257444	2.194489894	-0.040804573	0.71104776
<b>MGC12966</b>	5.433766609	5.504096106	0.01855306	0.275425654



MGC12982	2.613623702	2.575180331	-0.02137798	0.502957263
MGC13005	2.71712257	2.711564014	-0.002954417	0.71001992
MGC13053	2.089034954	2.051547746	-0.026123901	0.562734865
MGC13057	2.523474106	2.405277408	-0.069207989	0.01651963
MGC14425	3.142514126	3.052556965	-0.041901012	0.095991129
MGC14436	2.257134848	2.214808303	-0.027310776	0.621841274
MGC14738	1.940843325	1.921331197	-0.01457743	0.798001526
MGC15634	3.810957728	3.896001162	0.031840502	0.359603643
MGC15705	1.981422755	1.990416648	0.006533732	0.54380592
MGC15885	1.879982934	1.795174725	-0.066595296	0.33935397
MGC16025	2.634702775	2.680636246	0.024935245	0.887538812
MGC16075	2.005876	1.953062641	-0.038494202	0.207541137
GOLT1A	2.784539669	2.987211387	0.101360487	0.008006802
MGC16142	2.175089397	2.166584859	-0.005651954	0.562269516
MGC16169	4.063720742	4.069475134	0.002041469	0.851700429
MGC16275	2.744141404	2.642131056	-0.054652795	0.071129871
MGC16291	3.216144907	3.350124937	0.058882489	0.164095785
MGC16384	4.11320996	4.031103732	-0.029089808	0.281236534
MGC16385	6.141715298	6.219991401	0.018270949	0.255880334
MGC16703	2.718214417	2.681901134	-0.019403208	0.661346739

MGC21881	3.958420079	3.933512275	-0.009106638	0.558552455
MGC23270	2.270525106	2.295573563	0.015828676	0.555310433
MGC23284	4.959458331	4.911615401	-0.013984962	0.79480728
MGC24103	4.811921583	4.500266697	-0.09660263	0.168317709
MGC24125	2.044789146	2.048840627	0.002855683	0.740026889
MGC24975	3.589146238	3.696902092	0.042676129	0.042544092
MGC26356	2.993675351	3.104715296	0.052543202	0.122616489
MGC26597	2.126575272	2.126709106	9.08E-05	0.620379848
MGC26718	3.449102682	3.347459113	-0.043154645	0.280313823
MGC27345	4.608423338	4.53349431	-0.023649777	0.026236148
MGC27348	10.89511766	10.80630124	-0.011808971	0.300126968
MGC27382	1.895120113	1.92452912	0.022216211	0.562734958
MGC2752	6.30839945	6.25725193	-0.011744824	0.527901614
MGC2848	1.819494974	1.794968423	-0.019579602	0.705915002
MGC2889	1.990670709	1.929156979	-0.045284051	0.268800348
MGC29506	3.794854616	3.901303585	0.039911652	0.743676422
MGC3032	5.064803377	4.944034732	-0.034817384	0.088136841
MGC31957	1.954412477	1.946762486	-0.0056581	0.807604964
MGC3196	7.511419861	7.508632951	-0.000535372	0.465896836
MGC3207	4.371006053	4.364517127	-0.002143327	0.945001551

<b>MGC33407</b>	2.002663947	2.011637965	0.006450333	0.878282586
<b>MGC33894</b>	2.281382252	2.239926465	-0.026456824	0.413264956
<b>MGC34774</b>	1.822327364	1.818229768	-0.003247626	0.712075532
<b>MGC34796</b>	3.467001093	3.262607627	-0.087662797	0.023106064
<b>MGC34800</b>	3.182414265	3.289955739	0.047946527	0.109804615
<b>MGC3771</b>	3.202807331	3.272916056	0.031239587	0.452919579
<b>MGC39372</b>	2.100895272	2.070677458	-0.020901399	0.665352035
<b>MGC39545</b>	1.896660404	1.935032331	0.028896283	0.685520352
<b>MGC39821</b>	2.121103238	2.132687359	0.007857648	0.675911248
<b>MGC40574</b>	2.893592728	2.908904817	0.007614213	0.902817168
<b>MGC42105</b>	5.152703033	5.494644585	0.092696717	0.06022394
<b>MGC42157</b>	2.661164364	2.61298662	-0.026357883	0.583396338
<b>MGC4294</b>	2.187606099	2.150624556	-0.0245973	0.460010617
<b>MGC4473</b>	2.659354119	2.614980817	-0.024275536	0.482082652
<b>MGC45922</b>	7.268454927	7.272167514	0.000736713	0.948296676
<b>MGC4771</b>	3.052099046	3.104001296	0.024327379	0.528352712
<b>MGC4859</b>	1.936495556	1.949172458	0.009413551	0.810277736
<b>MGC50722</b>	2.239569808	2.193749549	-0.029822807	0.961485526
<b>MGC52282</b>	3.610576258	3.501753838	-0.044151443	0.171536855
<b>MGC5370</b>	4.09123145	3.995494972	-0.034160917	0.034247166

<b>MGC5566</b>	2.260859	2.308030486	0.02979126	0.265233067
<b>MGC5590</b>	2.036216775	2.070641599	0.024186705	0.170243648
<b>MGC70863</b>	10.61010936	10.52110814	-0.012152862	0.015578311
<b>MGC70870</b>	4.959918152	4.964772204	0.001411211	0.968634116
<b>MGC87631</b>	3.624392649	3.576300521	-0.019271285	0.480364678
<b>MGEA5</b>	10.43931987	10.36065432	-0.010912604	0.453747228
<b>MGLL</b>	9.243387934	9.197377627	-0.007199157	0.696709413
<b>MGMT</b>	7.267905212	7.17665812	-0.018227409	0.05900988
<b>MGP</b>	12.36588672	12.04085713	-0.038427601	0.150655041
<b>MGRN1</b>	10.00868018	10.05475307	0.00662591	0.362499495
<b>MGST1</b>	7.648566483	7.50935193	-0.026500973	0.30923012
<b>MGST2</b>	8.074345728	7.856840345	-0.039396117	0.137295756
<b>MGST3</b>	11.09240454	11.14424476	0.006726712	0.420385235
<b>MIA</b>	4.291283132	4.05894231	-0.080305256	0.22760672
<b>MIA2</b>	2.028950695	2.047695232	0.013267201	0.784714512
<b>MIA3</b>	4.701677841	4.788409958	0.026370984	0.034777401
<b>MIAT</b>	6.42667055	6.287687831	-0.031541924	0.190888623
<b>MIB1</b>	3.617843675	3.612639204	-0.002076892	0.79800162
<b>MIB2</b>	6.315655735	6.334716845	0.004347602	0.882091991
<b>MICA</b>	6.086762722	6.020433303	-0.015807802	0.657849927

MICAL1	7.292964199	7.083030472	-0.042138563	0.004346716
MICAL2	6.556105139	6.549922592	-0.001361134	0.929637618
MICAL3	4.845256311	4.770081465	-0.02255908	0.330365168
MICALCL	2.522431305	2.487867254	-0.019905471	0.76200874
MICALL1	2.557568795	2.575567282	0.010117181	0.68856552
MICALL2	7.996607934	7.89260612	-0.018886402	0.825822646
MICB	6.838822278	6.727506507	-0.023676017	0.598641359
MID1	6.150647411	6.025063789	-0.029761759	0.082379844
MID1IP1	5.530624536	5.485924373	-0.01170767	0.468009238
MID2	5.000985695	4.921255915	-0.023185937	0.10528224
MIDN	3.110372967	3.087855	-0.010482577	0.900632186
MIER1	6.699670146	6.703197162	0.000759302	0.927992873
MIER2	6.696658715	6.650267514	-0.010029069	0.089690563
MIER3	2.271685192	2.276685275	0.003171948	0.80173257
MIF	13.19343175	13.38156436	0.020426909	0.002158637
MIF4GD	4.023806185	4.128486035	0.037052009	0.026563884
MIG7	2.094776113	2.04939388	-0.031598771	0.16810451
MINA	4.027090113	4.082039732	0.01955247	0.282470462
MINK1	3.843664305	3.836550683	-0.002672527	0.865786184
MINPP1	2.87401155	3.000985641	0.062370556	0.080211815

<b>MIOX</b>	2.356383788	2.355169331	-0.000743743	0.803333138
<b>MIP</b>	2.101496033	2.091065092	-0.007178762	0.740026829
<b>MIPEP</b>	3.369621709	3.490275176	0.050754148	0.023315449
<b>MIPOL1</b>	2.948604285	2.905155423	-0.021416871	0.693142457
<b>MIRHG1</b>	2.396297993	2.305527451	-0.055710483	0.085595253
<b>MIS12</b>	5.832777318	5.7570145	-0.01886215	0.286506143
<b>MITD1</b>	7.800765702	7.844891549	0.008137761	0.631130561
<b>MITF</b>	6.97677598	6.682365627	-0.062201588	0.332770222
<b>MIXL1</b>	2.391680715	2.360021768	-0.019224639	0.909923219
<b>MIZF</b>	7.049891245	6.953671021	-0.019826187	0.168530756
<b>MKI67</b>	1.935953841	1.921161972	-0.011065398	0.765691666
<b>MKI67IP</b>	7.46524351	7.5030575	0.007289294	0.440148844
<b>MKKS</b>	7.410592225	7.354321352	-0.010996624	0.119636029
<b>MKL1</b>	5.463204854	5.511632803	0.012732255	0.218696029
<b>MKL2</b>	8.027648	7.95676657	-0.012795083	0.51357075
<b>MKLN1</b>	5.67371749	5.663642282	-0.00256417	0.83873971
<b>MKNK1</b>	5.085509285	5.004615521	-0.023133021	0.524299957
<b>MKNK2</b>	10.10063889	9.968078711	-0.019059185	0.084717984
<b>MKRN1</b>	8.409247576	8.462395866	0.009089456	0.42397892
<b>MKRN2</b>	5.668924768	5.686185725	0.004386098	0.637521242

<b>MKRN3</b>	2.742109086	2.779025627	0.019293173	0.47097545
<b>MKS1</b>	3.257183768	3.275354746	0.008026052	0.94939526
<b>NR2E1</b>	5.724505152	6.143393563	0.101884823	0.000573749
<b>MLANA</b>	7.683029583	7.004218627	-0.133451192	0.039607119
<b>MLC1</b>	6.430831086	6.733473493	0.066345722	0.078909701
<b>MLEC</b>	8.866349099	8.83308143	-0.005423356	0.567399391
<b>MLF1</b>	5.631607728	5.707815134	0.019391763	0.786836277
<b>MLF1IP</b>	2.995645921	3.083747803	0.041817672	0.464632004
<b>MLF2</b>	7.106940848	7.165415394	0.011821651	0.199691486
<b>MLH1</b>	9.167888675	9.154738324	-0.002070877	0.702841163
<b>MLH3</b>	3.788359477	3.814047	0.009749387	0.840357546
<b>MLKL</b>	4.501289596	4.246452077	-0.084080416	0.118493118
<b>MLL</b>	7.34004145	7.341079676	0.00020405	0.923060677
<b>MLL2</b>	2.928327305	2.947192838	0.009264645	0.520710586
<b>MLL3</b>	10.84097813	10.8260939	-0.001982124	0.714131252
<b>MLL4</b>	6.240070073	6.190488761	-0.01150891	0.598641228
<b>MLL5</b>	7.785802139	7.829989986	0.008164781	0.517134312
<b>MLLT1</b>	3.298909417	3.263574444	-0.015536216	0.408554527
<b>MLLT10</b>	5.43526457	5.451603141	0.00433028	0.64542294
<b>MLLT11</b>	8.17351249	8.323959162	0.026313691	0.584817577

<b>MLLT3</b>	3.646247603	3.504587394	-0.057167931	0.008703146
<b>MLLT4</b>	5.083982636	5.132172528	0.013610567	0.379846434
<b>MLLT6</b>	6.340554477	6.395212394	0.012383265	0.379098325
<b>MLN</b>	2.042639199	1.946040704	-0.06989251	0.015817693
<b>MLNR</b>	1.941010623	1.955331754	0.010605391	0.944452465
<b>APLN</b>	3.33244945	3.576743803	0.102063792	0.000218243
<b>MLX</b>	5.082883841	5.100699824	0.005047939	0.709506528
<b>MLXIP</b>	4.937577907	4.914434232	-0.006778174	0.376859045
<b>MLXIPL</b>	5.402203199	5.492723415	0.023973741	0.054702255
<b>MLYCD</b>	6.862811563	6.924343986	0.012877654	0.16430485
<b>MMAA</b>	3.268990808	3.26069981	-0.003663692	0.500322132
<b>MMAB</b>	7.326069073	7.411413	0.016709318	0.121450037
<b>MMACHC</b>	2.751010993	2.731271493	-0.010389177	0.954340061
<b>MMADHC</b>	8.209647616	8.176495894	-0.005837602	0.71877085
<b>MMD</b>	7.011933576	6.826141246	-0.038742063	0.082015156
<b>MMD2</b>	2.870130603	2.945675986	0.037482361	0.201633398
<b>MME</b>	2.271146728	2.218198944	-0.034032153	0.329680394
<b>MMEL1</b>	2.876658907	2.830498338	-0.023338091	0.473100379
<b>MMGT1</b>	8.584128834	8.602958021	0.003161069	0.492025317
<b>MMP1</b>	2.601242397	2.633238106	0.017637137	0.210290612



<b>MMP10</b>	1.979755046	1.99591712	0.011729876	0.777829577
<b>MMP11</b>	2.803595675	2.750823683	-0.027414632	0.359603757
<b>MMP12</b>	1.984101384	2.011179437	0.019556057	0.341450439
<b>MMP13</b>	1.876715073	1.951325852	0.05624508	0.681973936
<b>MMP14</b>	4.545899099	4.61514912	0.021811601	0.767798527
<b>MMP15</b>	5.468870921	5.543806282	0.019633835	0.376859615
<b>MMP16</b>	2.58608857	2.488489275	-0.055501517	0.105876418
<b>MMP17</b>	7.080023159	7.043249211	-0.007512949	0.362505162
<b>MMP19</b>	4.376037828	4.309946613	-0.021955211	0.65834889
<b>MMP2</b>	4.139809212	4.13165038	-0.002846102	0.981837689
<b>MMP20</b>	1.85279306	1.829472599	-0.018273947	0.317507612
<b>MMP21</b>	2.13432943	2.096617296	-0.025719327	0.399230616
<b>MMP23B</b>	4.196949384	4.183171218	-0.004744015	0.546556076
<b>MMP24</b>	2.108146656	2.003392908	-0.073529841	0.018967021
<b>MMP25</b>	3.853418689	3.618521585	-0.090738572	0.118982198
<b>MMP26</b>	1.885425152	1.834629704	-0.039400976	0.60970874
<b>MMP27</b>	1.848979828	1.852263803	0.002560099	0.57772602
<b>MMP28</b>	3.99831951	4.132939634	0.047774528	0.004244058
<b>MMP3</b>	2.790918139	2.658000923	-0.070398204	0.223906951
<b>MMP7</b>	1.93738045	2.035861254	0.071531954	0.182827362

<b>MMP8</b>	1.957589199	1.869607035	-0.066342978	0.429598699
<b>MMP9</b>	7.051526735	7.094227648	0.008709975	0.836583834
<b>MMRN1</b>	4.012744543	3.824928077	-0.069156695	0.32933841
<b>MMRN2</b>	5.880173291	5.628119317	-0.063205758	0.135119538
<b>MMS19</b>	7.210945517	7.277886394	0.01333109	0.147811233
<b>MN1</b>	2.419546815	2.376751831	-0.025745582	0.844134838
<b>MNAT1</b>	6.650977874	6.665850923	0.003222581	0.867414345
<b>MND1</b>	2.467140318	2.480482113	0.007780783	0.70028474
<b>MNDA</b>	6.280978046	6.272662063	-0.001911387	0.875019697
<b>MNS1</b>	4.480459185	4.521979972	0.013308006	0.421186417
<b>MNT</b>	7.994660033	7.933269718	-0.011121086	0.051563682
<b>MNX1</b>	2.017726	1.921525521	-0.070478137	0.010760704
<b>MOAP1</b>	6.275811887	6.514467634	0.053845176	0.128057003
<b>MOBKL1A</b>	6.147987728	6.077359486	-0.016669653	0.253291553
<b>MOBKL1B</b>	4.005497583	3.880663331	-0.045678196	0.059848274
<b>MOBKL2A</b>	5.265824179	5.170668845	-0.026308441	0.243119134
<b>MOBKL2B</b>	5.870114066	5.955848113	0.020918425	0.216124083
<b>MOBKL2C</b>	4.730257457	4.615176796	-0.035532793	0.307265139
<b>MOBKL3</b>	6.554717881	6.445116761	-0.024327192	0.099200556
<b>MOBP</b>	1.96701345	1.939895606	-0.020027806	0.245634695

<b>MOCOS</b>	2.638227828	2.688875373	0.027433733	0.237045862
<b>MOCs1</b>	4.051567238	3.997243613	-0.019474583	0.457918652
<b>MOCs2</b>	6.158241285	6.110423345	-0.011246057	0.465475013
<b>MOCs3</b>	2.596030656	2.738692282	0.077179755	0.011260514
<b>MOG</b>	2.012501841	1.933170641	-0.058021113	0.229205434
<b>MOGAT1</b>	2.066671325	2.118659063	0.03584248	0.161188692
<b>MOGAT2</b>	2.006901722	1.947915444	-0.043038916	0.034599839
<b>MOGAT3</b>	2.376185887	2.462682901	0.051583175	0.084222528
<b>MON1A</b>	6.924754967	6.854541345	-0.014702887	0.068680704
<b>MON1B</b>	6.751786225	6.82746969	0.016081778	0.033550734
<b>MON2</b>	4.830742523	4.754476627	-0.022958422	0.080330568
<b>MOP-1</b>	5.894097768	5.91316519	0.004659589	0.921417347
<b>MORC1</b>	2.08082894	2.131454127	0.034679636	0.361052717
<b>MORC2</b>	8.073355245	7.94851581	-0.022482877	0.014189869
<b>MORC3</b>	6.981025828	6.847239232	-0.02791663	0.00300677
<b>MORC4</b>	5.820614695	5.667269366	-0.038517744	0.209037566
<b>MORF4</b>	3.847252927	3.757094796	-0.034211162	0.195134534
<b>MORF4L1</b>	10.34462454	10.23912508	-0.014788839	0.003200872
<b>MORF4L2</b>	7.451404437	7.305214789	-0.028585678	0.003444952
<b>MORG1</b>	6.474669974	6.442866627	-0.007103928	0.955439126

MORN1	2.581823927	2.712231373	0.07108964	0.015550263
MORN3	2.219502702	2.344523113	0.079058036	0.007560357
MORN4	4.959452132	5.116393549	0.044946484	0.001704318
MORN5	3.835498179	3.827503394	-0.003010319	0.823674536
MOS	2.859062457	2.901286923	0.021150841	0.128750023
MOSC1	3.068792033	3.095869648	0.012673848	0.682986593
MOSC2	4.603902245	4.51557693	-0.027946877	0.43404443
MOSPD1	4.648758861	4.627541183	-0.006599763	0.997247902
MOSPD2	3.17633253	3.106742746	-0.031959172	0.238416846
MOSPD3	3.128462199	3.181568486	0.024284505	0.18556216
MOV10	4.533826536	4.466825768	-0.021479213	0.32018725
MOV10L1	2.383123232	2.435220507	0.031198857	0.515350956
LDHAL3	3.377584967	3.627371183	0.102932319	0.019608258
MPDU1	6.671203166	6.776446915	0.022582047	0.041224302
MPDZ	6.508780305	6.44960738	-0.01317588	0.149557467
MPEG1	4.08339404	3.851593824	-0.084313222	0.144177031
MPG	7.357967947	7.347437613	-0.002066188	0.986240162
MPHOSPH10	7.271630272	7.233601127	-0.0075648	0.434855302
MPHOSPH6	4.347518914	4.363117634	0.005167067	0.629170407
MPHOSPH8	7.210349066	7.196251218	-0.002823553	0.873388957

<b>MPHOSPH9</b>	3.441031894	3.510171366	0.0287002	0.133862242
<b>MPI</b>	8.517217159	8.629259183	0.018854576	0.176120436
<b>MPL</b>	3.022847497	3.139954331	0.054835379	0.010824786
<b>MPN2</b>	2.031939848	1.983011887	-0.035164368	0.409729198
<b>MPND</b>	6.519506497	6.556222056	0.008101957	0.403487651
<b>MPO</b>	3.467056199	3.204851366	-0.113453772	0.56927064
<b>MPP1</b>	8.95238902	8.824350063	-0.020782705	0.024430273
<b>MPP2</b>	3.866396662	4.10654062	0.086933914	0.048341901
<b>MPP3</b>	5.991320861	5.793708232	-0.048387065	0.001256479
<b>MPP4</b>	6.402764503	6.426499732	0.005338223	0.824748447
<b>MPP5</b>	5.46193094	5.495171056	0.008753318	0.365421472
<b>MPP6</b>	2.915568192	3.053287134	0.066586202	0.0430392
<b>MPP7</b>	3.198274762	3.41029481	0.092602576	0.024650261
<b>MPPE1</b>	5.846238411	5.936698789	0.022152253	0.018242004
<b>MPPED1</b>	3.634498113	3.791608366	0.0610538	0.057907626
<b>MPPED2</b>	4.090412967	4.075357592	-0.005319851	0.808139304
<b>MPRIP</b>	7.639110834	7.543159268	-0.018235836	0.040006192
<b>MPST</b>	8.727190669	8.626819282	-0.016688583	0.398458701
<b>MPV17</b>	5.87975657	5.825101704	-0.013473188	0.323556788
<b>MPV17L</b>	2.711131212	2.739653451	0.015098475	0.839278964

<b>MPZ</b>	2.334779517	2.307686556	-0.016839034	0.69722057
<b>MPZL1</b>	6.113414199	5.866051	-0.059588702	0.037916251
<b>MPZL2</b>	4.167898821	3.865480451	-0.108672514	0.095853567
<b>MPZL3</b>	4.688303682	4.47538231	-0.067055093	0.040006453
<b>MR1</b>	4.17493549	4.096653028	-0.027308199	0.554847702
<b>MRAP</b>	2.742155457	2.90010707	0.080795803	0.059474494
<b>MRAP2</b>	4.865281265	4.714649239	-0.045372769	0.062035387
<b>MRAS</b>	7.859613921	7.835631901	-0.004408821	0.887538665
<b>MRC1L1</b>	5.064810921	4.568618282	-0.148750504	0.042053883
<b>MRC2</b>	3.309991556	3.110011754	-0.089907504	0.041156012
<b>MRCL3</b>	11.00430821	10.72540801	-0.037035922	0.046337536
<b>MRE11A</b>	3.233337649	3.27749531	0.019569544	0.382472553
<b>MREG</b>	5.556201225	5.479325042	-0.02010066	0.234592605
<b>MRFAP1</b>	9.477627702	9.496560563	0.002879106	0.624767814
<b>MRFAP1L1</b>	8.391167669	8.444284423	0.009103591	0.381720476
<b>MRGPRD</b>	1.946202099	1.968647486	0.016543268	0.697220261
<b>MRGPRE</b>	2.659012199	2.593959965	-0.035734183	0.234050155
<b>MRGPRF</b>	6.675907265	6.56158643	-0.024919249	0.004010105
<b>MRGPRX1</b>	1.993555152	2.003349915	0.007070913	0.680456436
<b>MRGPRX2</b>	1.979381589	2.013971472	0.024993483	0.418403692

<b>MRGPRX3</b>	1.97374353	1.939848437	-0.0249906	0.563200539
<b>MRGPRX4</b>	1.994871934	1.94283243	-0.038134659	0.214845899
<b>MRLC2</b>	11.01352074	10.92185181	-0.012058248	0.104097905
<b>MRM1</b>	4.725432437	4.76788943	0.012904419	0.917036591
<b>MRO</b>	2.330478046	2.322640711	-0.004859921	0.602961183
<b>MRP63</b>	9.685054914	9.709573986	0.003647769	0.254435191
<b>MRPL1</b>	3.505107722	3.454516556	-0.020974957	0.477793697
<b>MRPL10</b>	7.990912166	8.031507535	0.007310614	0.228670866
<b>MRPL11</b>	5.193231616	5.142686092	-0.014110476	0.365786966
<b>MRPL12</b>	7.209671709	7.298920803	0.017749599	0.125143564
<b>MRPL13</b>	8.39093994	8.405522563	0.002505085	0.774657316
<b>MRPL14</b>	10.26877149	10.29894635	0.004233154	0.368348671
<b>MRPL15</b>	8.10167449	8.218253986	0.020611796	0.17744713
<b>MRPL16</b>	8.857177914	8.773492585	-0.013695828	0.483803598
<b>MRPL17</b>	6.872936272	6.891663866	0.003925755	0.968084109
<b>MRPL18</b>	9.343385411	9.211306754	-0.020539542	0.062712331
<b>MRPL19</b>	8.596767066	8.517121373	-0.013428307	0.018140324
<b>MRPL2</b>	4.855366914	4.928336641	0.021520483	0.068680704
<b>MRPL20</b>	9.636092583	9.663588127	0.004110712	0.387752347
<b>MRPL21</b>	9.221871993	9.272583908	0.007911778	0.171968225

MRPL22	8.65622949	8.691282599	0.005830348	0.53151442
MRPL23	7.506915503	7.533262669	0.00505459	0.545179777
MRPL24	8.44748904	8.478703127	0.005321038	0.748899363
MRPL27	8.612617954	8.565667704	-0.007886126	0.138026496
MRPL28	8.972364364	9.036909359	0.010341244	0.083480547
MRPL3	7.20889596	7.218035	0.001827811	0.710019953
MRPL30	6.640352172	6.666225845	0.005610438	0.432829049
MRPL32	9.027964464	8.857042239	-0.027575741	0.052396835
MRPL33	8.304620285	8.310631676	0.001043933	0.985139455
MRPL34	9.18251602	9.188812592	0.000988936	0.925252122
MRPL35	7.107884762	7.066447514	-0.008435174	0.104985337
MRPL36	6.424116232	6.469040401	0.010053727	0.666856358
MRPL37	7.363625272	7.374184408	0.002067284	0.830661319
MRPL38	8.198994377	8.214283754	0.002687813	0.580557035
MRPL39	7.208301669	7.205656768	-0.000529457	0.892445275
MRPL4	5.576777007	5.530466563	-0.01203039	0.502077953
MRPL40	6.922258828	6.946454782	0.005033981	0.202120711
MRPL41	10.79526105	10.74650456	-0.00653065	0.324565746
MRPL42	5.662110728	5.50358262	-0.0409689	0.052986814
MRPL42P5	3.159574166	3.319037028	0.071034594	0.018584221



MRPL43	8.382703609	8.338503246	-0.007627176	0.328653344
MRPL44	5.856957192	5.629620218	-0.057113751	0.000163228
MRPL45	7.700073477	7.677402106	-0.004254001	0.529254613
MRPL46	8.515097086	8.508470838	-0.001123108	0.920869513
MRPL47	8.018929987	8.001144465	-0.003203368	0.796936129
MRPL48	7.714851166	7.659844873	-0.01032315	0.296285252
MRPL49	6.518893623	6.507655676	-0.002489214	0.610674924
MRPL50	7.798260715	7.627161923	-0.03200606	0.00208318
MRPL51	10.34802584	10.29004425	-0.008106376	0.029261401
MRPL52	7.379767901	7.337406183	-0.008305291	0.179003704
MRPL53	9.24106606	9.311158261	0.010901351	0.011642564
MRPL54	8.692634609	8.731229289	0.006391285	0.355636895
MRPL55	9.497034563	9.541206852	0.006694658	0.366515152
MRPL9	8.785622212	8.722109479	-0.010467365	0.011105971
MRPS10	6.82874794	6.777167268	-0.010938704	0.203833205
MRPS11	6.853979556	6.827192197	-0.005649522	0.272701358
MRPS12	8.440576066	8.40587131	-0.005944096	0.482942134
MRPS14	7.301502808	7.231862958	-0.013826093	0.155892654
MRPS15	7.569809212	7.476525296	-0.017889004	0.048185395
MRPS16	7.025092139	6.990708993	-0.007078367	0.54014982

MRPS17	7.638502291	7.508430627	-0.024778397	0.001078523
MRPS18A	7.851410159	7.889999521	0.007073419	0.403875988
MRPS18B	10.57020166	10.6029977	0.004469302	0.618914984
MRPS18C	9.151635563	9.081249394	-0.011138806	0.007685249
MRPS2	9.055912046	9.026140908	-0.004750646	0.407770366
MRPS21	9.686482172	9.710924937	0.003635896	0.452501739
MRPS22	7.762462205	7.767106669	0.00086294	0.929637543
MRPS23	5.627669424	5.787269035	0.040345127	0.074431477
MRPS24	11.13733016	11.13536361	-0.000254764	0.954339272
MRPS25	9.418927258	9.458113817	0.005989745	0.588139654
MRPS26	9.118020927	9.093702972	-0.003852838	0.346018791
MRPS27	6.015037795	6.00377969	-0.002702764	0.846835227
MRPS28	9.298042709	9.295726204	-0.000359476	0.752038123
MRPS30	4.205195238	4.209527754	0.00148561	0.83389068
MRPS31	8.331396166	8.305908901	-0.004420233	0.295328469
MRPS33	8.021588305	8.08630143	0.011592059	0.07973572
MRPS34	10.14993693	10.14175298	-0.001163723	0.440963372
MRPS35	8.357243397	8.345414817	-0.002043392	0.973034512
MRPS36	9.57721853	9.593861521	0.002504895	0.555308735
MRPS5	6.44397794	6.372938718	-0.015992767	0.287442487

MRPS6	9.276471656	9.101094	-0.027536199	0.057091664
MRPS7	6.784856576	6.809709993	0.00527504	0.605848695
MRPS9	9.455019768	9.436487937	-0.002830456	0.870671763
MRRF	5.33363455	5.354441239	0.005617053	0.564598583
MRS2	6.242688536	6.284681049	0.009672041	0.694161089
MRT04	6.38450898	6.483059887	0.02209923	0.145126433
MRVI1	5.575084278	5.393154613	-0.04786422	0.39232221
MS4A1	2.281113556	2.235885021	-0.028892267	0.485960503
MS4A12	1.925311735	1.94395169	0.013900309	0.491591246
MS4A14	3.053656868	2.905779817	-0.071612571	0.355638157
MS4A15	2.099973007	2.054212289	-0.031785501	0.223119493
MS4A2	2.503924245	2.524663387	0.011900132	0.844674869
MS4A3	1.999979278	1.920386317	-0.058588491	0.02060553
MS4A4A	6.126036967	5.737088204	-0.094635374	0.132259388
MS4A5	2.013380298	1.987950275	-0.018338031	0.146656289
MS4A6A	5.079894007	4.71224931	-0.108382526	0.032084025
MS4A6E	1.998318543	1.937376472	-0.044682249	0.167678972
MS4A7	6.176435722	5.806450345	-0.089118061	0.068157698
MS4A8B	1.936929656	1.85008238	-0.066182048	0.116231787
MSC	2.799881391	2.745293458	-0.028405339	0.313848079

<b>MSH2</b>	7.382500543	7.445535648	0.012266086	0.639986045
<b>MSH3</b>	5.614663298	5.712692303	0.024971316	0.060412152
<b>MSH4</b>	1.987297497	1.968332155	-0.013834164	0.89899396
<b>MSH6</b>	8.757429166	8.792814641	0.005817642	0.5140152
<b>MSI1</b>	3.680911881	3.766783042	0.033269727	0.256747313
<b>MSI2</b>	5.86877551	5.915221845	0.011372753	0.70028457
<b>MSL1</b>	6.17819994	6.231571493	0.012409471	0.487256772
<b>MSL2</b>	5.118555596	5.087987655	-0.008641584	0.860905208
<b>MSL3</b>	5.146626954	5.032179415	-0.032443854	0.039872996
<b>MSL3L2</b>	4.323480709	4.315559535	-0.002645627	0.931831023
<b>MSLN</b>	2.120222166	2.130232634	0.006795546	0.727041275
<b>MSLNL</b>	2.196019709	2.15139807	-0.029616513	0.222596083
<b>MSMB</b>	1.904179404	1.92835112	0.018198356	0.630150341
<b>MSN</b>	7.306250377	7.161051113	-0.02895983	0.305959198
<b>MSR1</b>	3.683826536	3.543419655	-0.056062792	0.431212669
<b>MSRA</b>	7.18918245	7.216813197	0.005534194	0.613095437
<b>MSRB2</b>	9.684187722	9.649457613	-0.005183193	0.783123248
<b>MSRB3</b>	4.097742603	4.0625825	-0.012432255	0.646413635
<b>MST1</b>	7.438142762	7.442286542	0.0008035	0.724970501
<b>MST150</b>	7.947686192	8.129061021	0.032553808	0.256168477

<b>MST1R</b>	3.004187808	2.957685711	-0.022506249	0.241175184
<b>MSTN</b>	2.061130788	2.03778012	-0.016437663	0.831737432
<b>MSTO1</b>	3.229054245	3.255272761	0.011666755	0.928541128
<b>MSTP9</b>	1.972217325	1.959298915	-0.00948102	0.858196004
<b>MSX1</b>	3.99296549	3.933374944	-0.021692887	0.488988153
<b>MSX2</b>	2.174172139	2.199578965	0.016761225	0.663348203
<b>MSX2P1</b>	2.715606881	2.757254831	0.021957964	0.558089021
<b>MT1A</b>	11.45186485	11.54581725	0.011787746	0.506478818
<b>MT1B</b>	10.99213868	11.01105964	0.002481202	0.871758071
<b>MT1E</b>	10.27739209	10.4000268	0.017113022	0.482081816
<b>MT1F</b>	8.906249775	9.203510261	0.047366144	0.007529202
<b>MT1G</b>	10.79043752	10.83449297	0.005878278	0.977435704
<b>MT1H</b>	11.48689017	11.59300705	0.013266557	0.466737929
<b>MT1JP</b>	7.453021616	7.592911704	0.026827788	0.423180574
<b>MT1L</b>	11.42882684	11.46315409	0.004326737	0.998348732
<b>MT1M</b>	10.05071677	10.17968742	0.018394871	0.40933645
<b>MT1X</b>	11.21958103	11.30384852	0.010795235	0.749944338
<b>MT2A</b>	12.70933148	12.67502587	-0.003899455	0.737879492
<b>MT3</b>	9.41692851	9.755658908	0.05098274	0.120128271
<b>N4BP3</b>	3.594473179	3.860611493	0.103049039	0.013137829

<b>MTA1</b>	8.15816853	8.147500415	-0.00188779	0.427183501
<b>MTA2</b>	6.075324921	6.084347338	0.002140946	0.906095892
<b>MTA3</b>	4.460982788	4.409104577	-0.016875886	0.390796654
<b>MTAP</b>	3.03557555	2.987420599	-0.023069711	0.276947058
<b>MTBP</b>	2.282381762	2.321746261	0.024670188	0.259651905
<b>MTCH1</b>	11.2244255	11.07564729	-0.019250589	0.000378165
<b>MTCH2</b>	7.688656874	7.777491197	0.01657326	0.270296418
<b>MTCP1</b>	6.176455536	6.249274514	0.016909555	0.078089985
<b>MTDH</b>	5.427399861	5.416431479	-0.002918532	0.562734958
<b>MTERF</b>	3.185597755	3.175231775	-0.004702205	0.878282543
<b>MTERFD1</b>	5.662933219	5.6922295	0.007444313	0.607777479
<b>MTERFD2</b>	6.007417404	5.994776394	-0.003038966	0.583395619
<b>MTERFD3</b>	5.266263033	5.265732176	-0.000145436	0.856029757
<b>MTF1</b>	7.62617143	7.61195381	-0.002692155	0.822063926
<b>MTF2</b>	6.22116906	6.190403662	-0.007152225	0.521606716
<b>MTFMT</b>	3.623254033	3.648680303	0.010088788	0.753086911
<b>MTFR1</b>	4.308614119	4.410546472	0.033733522	0.385864727
<b>MTG1</b>	3.562109444	3.550494437	-0.004711897	0.959836258
<b>MTHFD1</b>	7.396796212	7.416390634	0.003816706	0.799599958
<b>MTHFD1L</b>	4.331731775	4.297719718	-0.011372514	0.354560643

<b>MTHFD2</b>	6.500771887	6.091744761	-0.093755535	0.09905949
<b>MTHFD2L</b>	2.306652192	2.355787141	0.030408705	0.365787023
<b>MTHFR</b>	4.556588874	4.561960662	0.001699799	0.780475441
<b>MTHFS</b>	7.73863153	7.688641225	-0.009349808	0.449190168
<b>MTHFSD</b>	4.045748788	4.029446127	-0.005825197	0.947198208
<b>MTIF2</b>	6.064589795	6.074588683	0.00237666	0.729113855
<b>MTIF3</b>	8.700560444	8.72984038	0.004846941	0.581975857
<b>MTL5</b>	3.129134523	3.120871296	-0.00381482	0.869043083
<b>MTM1</b>	3.920610642	3.943719704	0.008478643	0.576783978
<b>MTMR1</b>	4.908050848	5.058756486	0.043632598	0.031046994
<b>MTMR10</b>	2.002474841	1.958100232	-0.0323295	0.459173254
<b>MTMR11</b>	4.702544225	4.565542141	-0.042655327	0.100622699
<b>MTMR12</b>	3.653794536	3.587783923	-0.026302504	0.148004647
<b>MTMR14</b>	8.589302483	8.587985465	-0.000221229	0.92032182
<b>MTMR15</b>	7.498999033	7.408865585	-0.017445378	0.19135667
<b>MTMR2</b>	6.086228066	6.100098063	0.003284039	0.724453334
<b>MTMR3</b>	7.07170747	7.137610521	0.013382583	0.174582451
<b>MTMR4</b>	8.064624086	8.054032838	-0.001895933	0.853864337
<b>MTMR6</b>	4.202104033	4.194443697	-0.002632399	0.969734117
<b>MTMR7</b>	2.205838411	2.332316768	0.080436634	0.107223493

<b>MTMR8</b>	2.336924126	2.274009894	-0.039372363	0.212559469
<b>MTMR9</b>	5.139270841	5.26235681	0.034145388	0.368719531
<b>MTNR1A</b>	1.891420987	1.924020113	0.024653371	0.923060778
<b>MTNR1B</b>	1.964815742	1.886586218	-0.058615991	0.042473609
<b>MTO1</b>	6.613074238	6.552877521	-0.013192531	0.343203652
<b>MTP18</b>	6.399901675	6.649723697	0.055244656	0.008006817
<b>MTPAP</b>	5.752547709	5.698325514	-0.013663006	0.073761288
<b>MTPN</b>	9.131466411	9.11602388	-0.002441855	0.830122344
<b>MTR</b>	6.382315543	6.328337775	-0.012253332	0.603442048
<b>MTRF1</b>	3.989675212	3.995447627	0.002085838	0.91977426
<b>MTRF1L</b>	3.971889351	4.014869183	0.015527548	0.470975291
<b>MTRR</b>	4.290387669	4.298934711	0.002871188	0.627701689
<b>MTSS1</b>	6.689826331	6.723090092	0.007155723	0.630150504
<b>MTSS1L</b>	4.476666007	4.459201915	-0.005639159	0.554847419
<b>PLCH1</b>	3.69692804	3.971005782	0.103177499	0.015257815
<b>MTUS1</b>	4.276291887	4.336172289	0.02006175	0.615034327
<b>MTX1</b>	7.067306013	7.061429472	-0.001200116	0.772545317
<b>MTX2</b>	8.058240801	8.101505246	0.007725066	0.611642809
<b>MTX3</b>	2.161747172	2.243377303	0.053474479	0.335878627
<b>MUC1</b>	4.126174391	4.193489092	0.023346306	0.609225947



MUC12	2.056717093	2.020271803	-0.025793958	0.167679226
MUC13	1.887174325	1.852462683	-0.026783215	0.279392598
MUC15	1.911939411	1.908713873	-0.002435954	0.665352035
MUC16	1.969128152	2.006749099	0.027303244	0.364326187
MUC17	1.983250225	1.947157937	-0.026496805	0.273608183
MUC19	1.891834517	1.892860704	0.000782349	0.794275139
MUC2	3.049307185	3.05377507	0.002112309	0.864158689
MUC20	4.724789013	4.824529303	0.030138288	0.261991721
MUC3A	2.611935563	2.758189746	0.078602403	0.015345023
MUC4	3.799149993	3.625145042	-0.067637953	0.012786243
MUC5AC	2.334849	2.345195648	0.006379034	0.59672509
MUC6	3.205874311	3.247079599	0.018424886	0.182827257
MUC7	2.077797907	2.015225852	-0.044113806	0.25329144
MUCL1	1.905768377	1.943015634	0.027924721	0.314179586
MUDENG	4.776740179	4.778351134	0.000486467	0.97413476
MUL1	6.255543007	6.242753627	-0.002952591	0.760431903
MUM1	8.226477245	8.147986535	-0.013831174	0.142666055
MUM1L1	2.234035331	2.335440324	0.064042579	0.070270114
MUPCDH	4.82600904	4.95727931	0.03871793	0.436480435
MUS81	8.371768735	8.321680662	-0.008657531	0.165563207

<b>MUSK</b>	2.062982232	2.04511681	-0.012548148	0.795339349
<b>MUSTN1</b>	4.940227675	4.687689465	-0.07570053	0.065996306
<b>MUT</b>	8.072162563	8.075876585	0.000663635	0.887538559
<b>MUTED</b>	6.32085049	6.334608366	0.003136738	0.512237397
<b>MUTYH</b>	7.096608517	6.994659113	-0.020875974	0.001140591
<b>MVD</b>	6.266079371	6.326525063	0.013850252	0.216124138
<b>MVK</b>	7.975333146	8.122263028	0.026336963	0.006312002
<b>MVP</b>	10.08072111	10.0740844	-0.000950121	0.829047083
<b>MX1</b>	8.855820007	8.768260732	-0.014335201	0.507365276
<b>MX2</b>	4.364031523	4.15224069	-0.071771449	0.251290865
<b>MXD1</b>	7.491871689	7.473937437	-0.003457704	0.951043313
<b>MXD3</b>	3.071336503	3.004829345	-0.031583529	0.247886402
<b>MXD4</b>	6.369200285	6.322170479	-0.010692301	0.269098992
<b>MXI1</b>	7.302954841	7.323169796	0.003987937	0.660846523
<b>MXRA5</b>	3.981720974	3.618104817	-0.138157921	0.095991208
<b>MXRA7</b>	7.296012927	7.450330479	0.030196136	0.00660878
<b>MXRA8</b>	8.917399285	8.779500507	-0.022484154	0.504716796
<b>MYADM</b>	6.501126854	6.308287613	-0.043441367	0.062811309
<b>MYADML</b>	2.473861642	2.445417549	-0.016683993	0.978536193
<b>MYB</b>	2.980460358	2.848472592	-0.06534666	0.320187135

MYBBP1A	5.087036411	5.207061634	0.033644063	0.068785925
MYBL1	3.949817318	4.005571676	0.02022223	0.746809078
MYBL2	2.393949126	2.288945479	-0.064709394	0.073650215
MYBPC1	1.99963145	2.018824063	0.013781065	0.463369138
MYBPC2	2.394858834	2.345151169	-0.030259696	0.573491215
MYBPC3	3.020491695	2.986200479	-0.016472396	0.698751904
MYBPH	3.989956748	3.995974162	0.002174147	0.959836282
MYC	5.266239437	4.985803549	-0.078947078	0.083235796
MYCBP	5.565190993	5.525684613	-0.01027798	0.369455023
MYCBP2	7.86842357	7.893175655	0.004531233	0.553922709
MYCBPAP	3.887829993	3.81358469	-0.027817396	0.295647782
MYCL1	2.148094556	2.132875113	-0.010258007	0.491591297
MYCN	4.173425404	4.267228493	0.032067379	0.12582456
MYCNOS	2.824703623	2.943645866	0.059504616	0.017152155
UGT3A2	2.413322132	2.592566507	0.103360498	0.016550799
MYD88	4.448244397	4.34892881	-0.032575963	0.361415529
MYEF2	3.439571205	3.416147824	-0.009858318	0.597683139
MYEOV	2.992965219	2.943637627	-0.023975432	0.489854645
MYEOV2	9.550039821	9.536640894	-0.002025556	0.91539392
MYF5	1.962462119	1.897679268	-0.048428628	0.277556784

<b>MYF6</b>	2.393182318	2.447031014	0.032102078	0.623791983
<b>MYH1</b>	1.926070503	1.827729563	-0.075607893	0.013368393
<b>MYH10</b>	4.187216576	4.227387556	0.01377484	0.585291771
<b>MYH11</b>	9.495916795	9.262161035	-0.035958453	0.577254567
<b>MYH13</b>	2.14975247	2.17097069	0.014169696	0.974684901
<b>MYH14</b>	5.370300185	5.402788465	0.008701464	0.330708189
<b>MYH15</b>	2.324582278	2.489426289	0.098841808	0.032473446
<b>MYH2</b>	2.014095914	2.014676028	0.000415475	0.690089441
<b>MYH3</b>	4.448944709	4.389548268	-0.01939069	0.275425654
<b>MYH4</b>	1.873070073	1.854432275	-0.014427292	0.396535121
<b>MYH6</b>	2.100532245	2.141803232	0.028071013	0.658349157
<b>MYH7</b>	3.186130212	3.280188585	0.041973532	0.096405041
<b>MYH7B</b>	3.087385483	3.05149557	-0.016869129	0.680962174
<b>MYH8</b>	1.931980815	1.928249232	-0.002789231	0.497694292
<b>MYH9</b>	7.507711503	7.285278528	-0.043389083	0.295328988
<b>MYL1</b>	1.91065306	1.915948683	0.003993086	0.183281249
<b>MYL2</b>	2.121632841	2.140988634	0.013102124	0.857654283
<b>MYL3</b>	3.447183954	3.508676585	0.025508684	0.479506813
<b>MYL4</b>	5.539075927	5.559717852	0.005366356	0.94280534
<b>MYL5</b>	6.629534205	6.703274451	0.015958494	0.441375676

<b>MYL6</b>	12.40113352	12.36902716	-0.00373996	0.515777731
<b>MYL6B</b>	10.06810062	10.16475394	0.013783752	0.010974661
<b>MYL7</b>	2.274057841	2.270379169	-0.002335692	0.952142145
<b>MYL9</b>	6.53995104	6.535945415	-0.0008839	0.874475968
<b>TNIK</b>	3.856817993	4.144210859	0.103686344	0.013681325
<b>MYLIP</b>	5.922066695	5.66835993	-0.063169369	0.018618722
<b>MYLK</b>	8.873887735	8.590225063	-0.046870371	0.012637968
<b>MYLK2</b>	2.763631331	2.684361394	-0.041986259	0.065389144
<b>MYLK3</b>	1.890072748	1.885586831	-0.003428177	0.662347094
<b>MYLPF</b>	2.148189106	2.235936437	0.057758176	0.423579968
<b>MYNN</b>	4.587713265	4.536924697	-0.01606051	0.564132445
<b>MYO10</b>	6.909790139	6.905232648	-0.000951873	0.959836267
<b>MYO15A</b>	2.932531781	2.924015042	-0.004196011	0.808673845
<b>MYO15B</b>	4.780648589	4.548384211	-0.071852235	0.068891046
<b>MYO16</b>	2.134609099	2.074187049	-0.041425899	0.089300423
<b>MYO18A</b>	5.545283596	5.561935768	0.004325839	0.993945431
<b>MYO18B</b>	2.016289854	1.976924359	-0.028445378	0.279086019
<b>MYO19</b>	6.272660775	6.219539155	-0.012269858	0.182374308
<b>MYO1A</b>	2.310791079	2.317901359	0.004432342	0.737423634
<b>MYO1B</b>	3.762636762	3.820930986	0.022180179	0.30206474

MY01C	10.84176219	10.74699068	-0.012666528	0.181242114
MY01D	4.455996106	4.279308613	-0.058370246	0.174145307
MY01E	4.817701682	4.844433028	0.007982766	0.56180412
MY01F	5.176115689	5.022932345	-0.043340019	0.355997251
MY01G	3.458299053	3.312327549	-0.062217285	0.159136141
MY01H	2.077108768	2.024362676	-0.037108985	0.154689609
MY03A	2.078590344	2.092708	0.009765568	0.887538758
MY03B	2.475870821	2.463093951	-0.007464386	0.942256369
MY05A	6.670046377	6.648340007	-0.004702627	0.683492868
MY05B	6.527588205	6.649092563	0.026607415	0.608743025
CTSL2	7.173979265	7.71106438	0.104156438	0.000711542
MY06	7.353856225	7.524842563	0.033160427	0.06300635
MY07A	6.720493987	6.855054331	0.028600819	0.14116939
MY07B	2.098117007	2.081857817	-0.011223594	0.73950592
MY09A	7.171587775	7.164612944	-0.001403797	0.946099861
MY09B	6.413931139	6.315602796	-0.022288426	0.017673183
MYOC	7.386067086	7.091812	-0.058652075	0.382472269
MYOCD	2.016500417	2.036376148	0.014150368	0.689073283
MYOD1	4.558623212	4.580597775	0.006937715	0.828510088
MYOF	5.70614296	5.465253042	-0.062227598	0.11337474

MYOG	2.318339311	2.327930035	0.005955965	0.535596693
MYOM1	5.617845834	5.446990915	-0.044557573	0.05290225
MYOM2	5.835292384	5.774207352	-0.01518203	0.639492853
MYOM3	2.025779444	2.08471562	0.041373487	0.116713531
MYOT	4.747430046	4.390398486	-0.112794853	0.20903762
ABCA13	2.246320974	2.414707261	0.104284212	0.001876253
MYOZ2	2.322838748	2.274831099	-0.030129573	0.843595082
KIRREL2	5.786733146	6.221000408	0.104397485	0.000461145
MYPN	1.984785437	2.06476619	0.056995368	0.004262569
MYRIP	8.395373411	8.762677359	0.061777245	0.041637356
MYSM1	2.754963589	2.665194387	-0.047792491	0.057634648
MYST1	6.368574781	6.406474359	0.008560076	0.510463058
MYST2	4.495524834	4.58261307	0.027680924	0.242840843
MYST3	6.622998232	6.573348746	-0.010855944	0.16284475
MYST4	3.890327927	4.000042444	0.040123539	0.068053366
MYT1	4.593047987	4.844394563	0.076864517	0.274213055
MYT1L	3.823069199	3.977521183	0.0571383	0.385864897
MZF1	7.647235629	7.585977176	-0.011603297	0.390415899
Magmas	6.002004735	6.042832232	0.009780432	0.40504262
N-PAC	4.005111801	4.066527211	0.021954752	0.198725587

<b>N4BP1</b>	5.109041503	5.124892972	0.00446922	0.690597801
<b>N4BP2</b>	4.845577404	4.852498092	0.002059057	0.877194767
<b>N4BP2L1</b>	4.817677139	4.663795444	-0.046833201	0.13102272
<b>N4BP2L2</b>	8.222873172	8.144350838	-0.013842867	0.17656174
<b>ITGB1BP2</b>	3.719909325	4.000447655	0.104893993	0.006526646
<b>N6AMT1</b>	4.646298099	4.635158465	-0.003463056	0.930734251
<b>N6AMT2</b>	6.673586543	6.733575627	0.012910492	0.235953327
<b>NAAA</b>	6.528412073	6.499820345	-0.00633228	0.720319184
<b>NAALAD2</b>	2.230933437	2.177762218	-0.034801029	0.359965483
<b>NAALADL1</b>	2.664291728	2.706624366	0.02274262	0.394616766
<b>NAB1</b>	6.877389556	6.868528634	-0.001859986	0.67692005
<b>NAB2</b>	6.033817894	5.957341683	-0.018402448	0.135299787
<b>NACA</b>	10.76630287	10.73298512	-0.004471534	0.738981712
<b>NACA2</b>	10.97749005	10.98033826	0.000374272	0.335173002
<b>NACAD</b>	5.583607795	5.723331479	0.035657559	0.328313205
<b>NACAP1</b>	3.644705	3.644815106	4.36E-05	0.928541128
<b>NACC1</b>	6.897357927	6.913774979	0.003429814	0.702841501
<b>NACC2</b>	6.308322073	6.281334458	-0.00618523	0.58387004
<b>NADK</b>	5.643721868	5.644131873	0.000104805	0.928541111
<b>NADSYN1</b>	5.561472682	5.486106289	-0.019684387	0.577726519



<b>NAE1</b>	7.312656927	7.401153254	0.01735441	0.125824515
<b>NAF1</b>	2.345261934	2.28767443	-0.035867312	0.185104464
<b>NAG</b>	6.749461563	6.703127796	-0.009937977	0.251290356
<b>NAG18</b>	1.91653294	1.970510556	0.040070684	0.64988562
<b>NAG20</b>	1.879395444	1.920641535	0.031319626	0.29820347
<b>NAGA</b>	2.897267722	2.948585627	0.025330088	0.580558073
<b>NAGK</b>	8.144790278	8.091048697	-0.009550846	0.512681798
<b>NAGLU</b>	7.360120205	7.465691789	0.020546622	0.506040785
<b>NAGPA</b>	6.226797543	6.116435239	-0.025799301	0.202609421
<b>NAGS</b>	4.205065199	4.25654357	0.017554229	0.449190709
<b>NAIF1</b>	6.367723901	6.314503282	-0.012108532	0.235953383
<b>NAIP</b>	4.810367464	4.696931373	-0.034428591	0.324233736
<b>NALCN</b>	2.713055185	2.715327627	0.001207888	0.450845686
<b>NAMPT</b>	7.43936702	7.41658093	-0.004425622	0.688565379
<b>NANOG</b>	2.837540192	2.863500331	0.013138943	0.636536498
<b>NANOGP1</b>	1.989663172	1.914389169	-0.05564008	0.092463402
<b>NANOS1</b>	5.94287745	6.186699725	0.058008383	0.016364753
<b>NANOS3</b>	5.757018205	5.853031662	0.023862308	0.295647609
<b>NANP</b>	2.491702404	2.509826134	0.010455655	0.882092033
<b>NANS</b>	6.269408007	6.175677458	-0.021731816	0.262579115

NAP1L1	8.44643355	8.465661408	0.003280486	0.498129499
NAP1L2	7.316471517	7.31605743	-8.17E-05	0.857112746
NAP1L3	5.764666821	5.958041275	0.047600891	0.413658925
NAP1L4	5.888888166	5.996469268	0.026118013	0.14229162
NAP1L5	6.086578762	6.070139901	-0.003901756	0.719287101
NAP5	5.734740642	5.884239056	0.037127619	0.053241128
NAPA	5.574365609	5.740734563	0.042427722	0.059288376
NAPB	3.132161881	3.4197275	0.126722591	0.030725539
NAPEPLD	5.886188079	5.890328268	0.001014397	0.877194738
NAPG	7.467043616	7.540661162	0.014153866	0.358880305
NAPRT1	8.568474649	8.413363042	-0.026355801	0.220769672
NAPSA	3.571559934	3.564474338	-0.002864997	0.558552736
NAPSB	4.949628755	5.030793951	0.023465781	0.465053562
NARF	8.447168722	8.36028331	-0.014916035	0.131727838
NARFL	5.316009702	5.308940655	-0.001919723	0.869586057
NARG1	3.774990861	3.799458352	0.009320612	0.663848795
NARG1L	5.085604828	4.924796049	-0.046355384	0.005000503
NARG2	4.663420808	4.583857923	-0.02482629	0.11784345
NARS	8.295261841	8.298575415	0.000576175	0.721351778
NARS2	5.656569013	5.609684556	-0.012007605	0.504717812

NASP	6.649202583	6.6117585	-0.008147303	0.553000031
NAT1	3.331417682	3.36559831	0.014726753	0.363961662
NAT10	6.334339126	6.316306648	-0.004112894	0.840896874
NAT11	3.481005689	3.559561049	0.032195173	0.162845101
NAT12	4.400914166	4.398247908	-0.00087431	0.866871494
NAT13	6.825650728	6.740789007	-0.018049125	0.214335968
NAT14	7.661689695	7.831089972	0.031550527	0.03598087
NAT15	3.718189086	3.624754042	-0.036717035	0.418800545
NAT2	2.070992576	2.011773901	-0.041854209	0.377232052
NAT5	7.327847755	7.32821257	7.18E-05	0.881003247
NAT6	4.268689755	4.428064246	0.052882842	0.055665812
NAT8	2.182617993	2.151073049	-0.02100313	0.803866775
NAT8B	2.440287152	2.380621134	-0.035712882	0.40232432
NAT8L	6.596310682	6.67097512	0.01623831	0.568802472
NAT9	8.57000445	8.488300711	-0.013820187	0.018106614
NAV1	5.526246371	5.408161789	-0.03116157	0.235408538
NAV2	4.403331285	4.40315931	-5.63E-05	0.876106975
NAV3	4.491283232	4.53976707	0.015490572	0.432424873
NBEA	7.848974722	8.148155	0.053969211	0.090475577
NBEAL2	3.920642682	3.818990232	-0.037898934	0.138027436

NBL1	5.667900563	5.342499296	-0.085299635	0.005693724
NBLA00301	3.119345212	3.013384317	-0.049858541	0.244514798
NBN	4.552550881	4.482599768	-0.022339448	0.335186376
NBPF1	3.778258338	3.719807254	-0.022493481	0.431616353
NBPF10	10.79554139	10.6692458	-0.016977398	0.152697321
NBPF11	4.738799364	4.596925725	-0.043852224	0.050823751
NBPF14	5.92547157	5.83578438	-0.022003393	0.256747029
NBPF15	9.512820318	9.371832887	-0.021541899	0.003632579
NBPF20	7.666570543	7.552362641	-0.021653327	0.232967087
NBPF22P	1.884282781	1.887232232	0.002256472	0.959836272
NBPF3	9.872795947	9.743281627	-0.019050942	0.035074079
NBR1	9.943585848	9.931550507	-0.001747241	0.772015751
NBR2	2.56800298	2.532682669	-0.01998055	0.407772603
NCALD	4.382341808	4.456129324	0.024089088	0.378351408
NCAM1	2.893903437	2.93915312	0.022383737	0.534688734
NCAM2	3.778819669	3.757672317	-0.008096409	0.612127132
NCAN	2.635956119	2.778410556	0.075933443	0.102786099
NCAPD2	5.917690444	6.046357359	0.031032019	0.065187805
NCAPD3	4.780037735	4.796955711	0.005097112	0.566932189
NCAPG	2.887553682	2.841869415	-0.023007504	0.26199155

NCAPG2	3.823688603	3.796909655	-0.010139365	0.814558771
NCAPH	3.899523278	4.102240275	0.073114232	0.021686189
NCAPH2	7.093143298	7.119153345	0.005280583	0.617461156
NCBP1	6.045570854	5.934869239	-0.026662329	0.032473301
NCBP2	6.72315745	6.605851401	-0.02539442	0.027181651
NCDN	5.424748146	5.488033789	0.016733205	0.613095394
NCF1	3.887749901	3.802633796	-0.031936403	0.496819878
NCF2	5.557465391	5.358634732	-0.05256158	0.407382032
NCF4	3.249789086	3.056828176	-0.088310628	0.038430046
NCK1	6.157249828	6.01437638	-0.033870952	0.032194745
NCK2	4.011119715	4.022192021	0.003976933	0.661846879
NCKAP1	6.185082364	6.205480169	0.004750041	0.490288253
NCKAP1L	2.949175232	2.848984655	-0.049863695	0.249300891
NCKIPSD	3.77401349	3.806220268	0.012259474	0.786836376
NCL	10.19851073	10.22063277	0.003126024	0.524296741
NCLN	8.526813828	8.517240387	-0.001620689	0.619892093
NCOA1	8.061159033	8.088882746	0.004953164	0.779946013
NCOA2	2.097461106	2.046633528	-0.035391263	0.215612078
NCOA3	6.305866318	6.200293528	-0.02435807	0.008188475
NCOA4	5.198656464	5.120668493	-0.021806659	0.204571622

NCOA5	3.305805099	3.294327007	-0.005017901	0.741590119
NCOA6	8.032699735	8.040982106	0.00148677	0.896810195
NCOA7	7.399726278	7.32433881	-0.014773376	0.136385424
NCOR1	5.308745344	5.361072176	0.01415062	0.223906398
NCOR2	11.23106213	11.26622439	0.004509741	0.397296909
NCR1	2.389388278	2.247877049	-0.088078185	0.179674539
NCR2	2.08407351	2.077606387	-0.004483811	0.985139501
NCR3	2.878471245	2.758306028	-0.061520271	0.137661386
NCRNA00032	1.873154629	1.896474303	0.017849824	0.667358409
NCRNA00052	1.908897377	1.910408859	0.001141887	0.806002168
NCRNA00081	6.213663894	6.28587657	0.016669737	0.237319735
NCRNA00085	6.608740801	6.580377338	-0.006205099	0.506040836
NCRNA00086	6.801452748	6.864453796	0.013302	0.486392246
NCRNA00087	8.962126841	9.013067507	0.008177051	0.408945489
NCRNA00094	9.600813	9.747261711	0.021840402	0.30922885
NCRNA00095	1.952057695	2.029742655	0.05630113	0.090870768
NCRNA00105	4.302254927	4.211443106	-0.030778337	0.124804527
NCRNA00114	1.843845139	1.867688958	0.018536719	0.446714124
NCRNA00115	4.02499145	3.785771824	-0.088398259	0.001373255
NCRNA00116	7.945315265	7.900134683	-0.008227217	0.338656774

NCRNA00120	3.352474881	3.332536965	-0.008605645	0.516688211
NCRNA00152	4.623138079	4.626506634	0.001050807	0.907735937
NCRNA00153	6.836993748	6.980329761	0.029933087	0.025094571
NCRNA00158	2.190787013	2.239801704	0.031921779	0.318845502
NCRNA00161	1.896061868	1.896418585	0.000271397	0.792147797
NCRNA00162	2.100488523	2.173235845	0.049119845	0.109345581
NCRNA00166	5.75108294	5.891868324	0.034891544	0.434449921
NCRNA00167	2.651122609	2.632227514	-0.010319201	0.627701525
NCRNA00168	2.027876967	1.998749162	-0.020872697	0.203343747
NCSTN	10.17772011	10.19828054	0.002911507	0.717220538
ND1	8.227993821	8.355203965	0.022134337	0.073096076
ND2	9.720650099	9.723494725	0.000422125	0.928540873
ND3	12.064888	12.09622783	0.003742695	0.860360238
ND5	9.195410444	9.209515239	0.002211247	0.804400001
ND6	4.387179238	4.441935415	0.017894768	0.390415843
NDC80	3.973131132	3.927728049	-0.016581367	0.980186902
NDE1	7.665554185	7.523001796	-0.027081661	0.251290243
NDEL1	4.875421258	4.848562296	-0.007969859	0.606330935
NDFIP1	7.696734424	7.738581577	0.007822688	0.570206977
NDFIP2	5.162030331	5.297620634	0.037405917	0.072107638

NDN	7.29961102	7.285808493	-0.002730514	0.957087885
NDNL2	6.32105102	6.32271231	0.000379117	0.947747429
NDOR1	10.1903156	10.15235512	-0.005384293	0.83281329
NDP	3.378318762	3.733924127	0.144387152	0.020795022
NDRG1	10.12798983	10.1050008	-0.003278427	0.998348729
NDRG2	9.909064483	10.08818745	0.025846224	0.029467574
NDRG3	6.386428788	6.466702415	0.018020803	0.783124156
NDRG4	10.04856154	10.30409115	0.036228267	0.427985925
NDST1	4.028465709	4.142715254	0.040346186	0.033378836
NDST2	6.102010192	6.197308852	0.022357279	0.166196843
NDST3	2.450083781	2.575716028	0.072142462	0.099483815
NDST4	2.415113166	2.409735268	-0.00321613	0.977985977
NDUFA1	11.40030625	11.41020225	0.001251785	0.785772167
NDUFA10	6.08277147	6.144111535	0.014475603	0.376859387
NDUFA11	10.50097029	10.50249296	0.000209179	0.593848082
NDUFA12	9.00878249	8.984168817	-0.003947106	0.720318864
NDUFA13	9.901280993	9.885949718	-0.002235619	0.41879666
NDUFA2	10.26364996	10.34095397	0.010825409	0.122948466
NDUFA3	10.04751009	10.03076235	-0.002406771	0.730667468
NDUFA4	11.79279711	11.8292404	0.004451488	0.97578483



NDUFA4L2	4.466645795	4.718808958	0.079230911	0.006445438
NDUFA5	8.332902947	8.50600331	0.029662239	0.038623822
NDUFA6	10.28838957	10.33193634	0.006093483	0.291522365
NDUFA7	10.27899232	10.35584565	0.010746529	0.250433543
NDUFA8	11.20748841	11.24990573	0.005449904	0.437290157
NDUFA9	7.870340397	7.90320093	0.006011053	0.495945872
NDUFAB1	9.780875364	9.806853232	0.003826698	0.628189732
NDUFAF1	8.542607828	8.588846197	0.007787784	0.261111479
NDUFAF2	7.922081397	7.883474148	-0.007047977	0.122615865
NDUFB1	10.12703744	10.13460184	0.00107722	0.926348074
NDUFB10	10.30781036	10.39617293	0.012314637	0.114635677
NDUFB11	8.948320291	8.954952986	0.001068962	0.886993667
NDUFB2	12.12123143	12.14042042	0.002282109	0.731182683
NDUFB3	9.82370747	9.828755754	0.000741193	0.825822217
NDUFB4	11.26043209	11.23838252	-0.002827777	0.823671723
NDUFB5	5.303216325	5.297663789	-0.001511312	0.75623219
NDUFB6	9.161138497	9.19102012	0.004698097	0.617460737
NDUFB7	9.493413914	9.55206762	0.008886063	0.101337782
NDUFB8	11.56419843	11.61828481	0.006731832	0.282771407
NDUFB9	11.4570554	11.58760888	0.016346593	0.08723591

NDUFC1	10.92815208	10.98604788	0.007623019	0.309553902
NDUFC2	10.14611289	10.16140228	0.002172392	0.674899812
NDUFS1	8.95402051	9.074762542	0.01932427	0.049609391
NDUFS2	7.945411675	8.046339056	0.01821056	0.145889418
NDUFS3	9.512665205	9.610425338	0.014750679	0.060411079
NDUFS4	8.477376325	8.542970746	0.01112001	0.151514739
NDUFS5	12.06643298	12.0720378	0.000669972	0.745756467
NDUFS6	9.441697543	9.461123521	0.002965248	0.632601848
NDUFS7	10.93389928	10.95911325	0.003323076	0.468424906
NDUFS8	10.15041391	10.20249774	0.007383832	0.182822872
NDUFV1	10.52809702	10.59151676	0.008664516	0.263164059
NDUFV2	9.503057444	9.571683423	0.010380931	0.394232856
NDUFV3	8.569050146	8.651265521	0.013775893	0.02023061
NEB	2.356094225	2.421802007	0.039683686	0.26523301
USP43	2.732982364	2.939615063	0.105151099	0.006065455
NECAB1	4.777646079	4.411572127	-0.115007113	0.043682992
NECAB2	2.52645406	2.655238408	0.071727457	0.115751867
NECAB3	5.215773967	5.333876021	0.032302942	0.235136282
NECAP1	3.250581755	3.326363768	0.033248009	0.318510713
NECAP2	6.47028155	6.329131923	-0.031820852	0.186710694

NEDD1	2.881060298	2.869603211	-0.00574859	0.93183099
NEDD4	4.97520502	4.870257725	-0.030757859	0.082136585
NEDD4L	8.072183623	8.131527197	0.01056734	0.367984493
NEDD8	10.2942612	10.32319059	0.00404864	0.413652185
NEDD9	3.336460457	3.408508268	0.030822077	0.401936598
NEFH	10.3456056	10.4927482	0.02037449	0.674393721
NEFL	7.625161636	7.82677731	0.037650478	0.487688827
NEFM	9.341581172	9.585159796	0.03713572	0.470543253
NEGR1	3.02910345	3.12251831	0.043819181	0.453750567
NEIL1	7.485762662	7.406546796	-0.015348246	0.241452187
NEIL2	3.903111311	3.959293289	0.020618333	0.524749381
NEIL3	1.89768843	1.906002782	0.00630708	0.803333092
NEK1	4.221551192	4.26140238	0.013555075	0.486824146
NEK10	2.835136497	2.858964676	0.0120746	0.873389002
NEK11	3.130200596	3.250190183	0.054269025	0.127884327
NEK2	2.322883325	2.450476556	0.077145653	0.102205425
NEK3	5.024089868	4.995889965	-0.008120569	0.620866769
NEK4	5.641396073	5.665163049	0.006065249	0.65286768
NEK6	5.903978166	5.983235077	0.019238361	0.316506873
NEK7	4.18438151	4.118115486	-0.023030106	0.238142303

NEK8	2.474825417	2.491992803	0.009973146	0.614549372
NEK9	7.284819358	7.161879479	-0.024554957	0.06528825
NELF	6.078111351	6.124461162	0.010959814	0.31851054
NELL1	2.725939272	2.886337134	0.082486399	0.063006633
NELL2	8.903011589	9.108025754	0.032844937	0.579612731
NENF	9.25704547	9.313395127	0.008755379	0.026142444
NEO1	6.393999444	6.229332915	-0.037640942	0.003429729
NES	7.018973026	7.011117718	-0.001615501	0.906642507
NET1	8.369632609	8.158371415	-0.036883108	0.149167738
SRD5A2	1.987785993	2.13809069	0.105160605	0.001786281
NETO2	5.940917305	6.261898775	0.07591448	0.024518224
NEU1	8.32278049	8.352584345	0.005157059	0.403875651
NEU2	1.940421199	1.901597627	-0.029157838	0.540606027
NEU3	1.962633523	1.998601444	0.026199994	0.634076823
NEU4	2.790050874	2.858694246	0.035064895	0.245915569
NEURL	7.899392556	8.046858451	0.026683937	0.65635357
NEURL2	5.121883874	5.087231585	-0.009793773	0.913752594
NEUROD1	6.663710815	6.915234599	0.053452402	0.498131344
NEUROD2	4.892457073	5.191283648	0.085532125	0.092196495
NEUROD4	3.89157006	4.215320859	0.115290119	0.142667199

NEUROD6	1.946960914	1.879194937	-0.05110919	0.246196667
NEUROG1	5.933464159	5.969739704	0.008793382	0.459591775
NEUROG2	2.173642914	2.226145423	0.034432886	0.577726473
NEUROG3	8.435012583	8.393848613	-0.007057777	0.531515497
NEXN	5.36279953	5.111720331	-0.069177417	0.08865242
NF-E4	2.45776245	2.33821031	-0.071940783	0.10812899
NF1	3.396880219	3.454001401	0.024058322	0.242006809
NF2	7.513882881	7.558621852	0.008564586	0.466318552
NFAM1	2.040583212	2.00639493	-0.024375935	0.707966616
NFAT5	7.272407762	7.264876866	-0.001494748	0.792679458
NFATC1	5.959754881	5.950797986	-0.002169852	0.845214809
NFATC2	2.077717901	2.127262282	0.033998134	0.468432386
NFATC2IP	3.350072358	3.380190352	0.012912236	0.541518921
NFATC3	5.478440397	5.40633643	-0.019113953	0.206052386
NFATC4	3.559926536	3.583937908	0.009698173	0.925252433
NFE2	5.24906402	4.881678549	-0.104682894	0.066403418
NFE2L1	11.67735985	11.70352021	0.003228402	0.55622492
NFE2L2	7.517659119	7.410373317	-0.020737275	0.102205384
NFE2L3	3.040703265	3.130484387	0.041980872	0.361415701
NFIA	8.261901556	8.157207507	-0.018398518	0.224432343

NFIB	6.673974709	6.749077063	0.016144008	0.396150877
NFIC	3.755409735	3.781302042	0.009912771	0.507365175
NFIL3	8.409443	8.384760134	-0.004240734	0.65984719
NFIX	7.725470755	7.868866803	0.026533041	0.093537322
NFKB1	6.485467722	6.402940768	-0.018475959	0.27119691
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NFKBIE	6.790548351	6.908952542	0.024938922	0.23786776
NFKBIL1	4.247837159	4.365636549	0.039463566	0.085720805
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NFS1	6.504312046	6.528127676	0.005272801	0.664349762
NFU1	8.017693801	8.102898979	0.015250833	0.17196935
NFX1	4.685487563	4.741442915	0.017126987	0.333804287
NFXL1	2.484295099	2.492488648	0.004750378	0.971384283
NFYA	4.893074377	4.897230014	0.001224746	0.900632151
NFYB	6.592084742	6.474084556	-0.02605858	0.007360729

NGFYC	6.254049629	6.206711683	-0.010961537	0.196804524
NGB	2.730820801	2.821427725	0.047090747	0.260235612
NGDN	8.454940861	8.420099915	-0.005957311	0.445478452
NGEF	5.339783563	5.503511239	0.043571085	0.098918303
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NGFR	6.459550987	6.662981704	0.044734048	0.052817685
NGFRAP1	12.22087895	12.24682854	0.003060143	0.913750637
NGLY1	7.526662113	7.595498535	0.013134453	0.202120549
NGRN	8.009339808	8.103641662	0.016887051	0.36725111
NHEDC1	2.564905921	2.556657958	-0.004646747	0.962585108
NHEDC2	3.725850053	3.785534289	0.022927322	0.472674803
NHEJ1	2.990200755	2.962053169	-0.013644809	0.935122042
NHLH1	1.994114921	1.990994986	-0.002258967	0.724453491
NHLH2	2.146068391	2.153916239	0.005266096	0.747854249
NHLRC2	3.854905523	3.85796293	0.001143778	0.927992907
NHLRC3	5.225465967	5.160644127	-0.018008544	0.301096404
NHP2	8.331525331	8.304970521	-0.0046056	0.44919006
NHP2L1	8.661741252	8.668559077	0.001135127	0.800132295
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NIF3L1	7.45579347	7.579907331	0.023818314	0.326269182
NIN	4.41599704	4.535998528	0.038680967	0.015638903
NINJ1	8.863006834	8.714673028	-0.02434969	0.238690884
NINJ2	3.741909053	3.612047577	-0.050957598	0.186021061
NIP30	6.698071775	6.735771176	0.008097293	0.279086134
NIP7	5.608670801	5.518256415	-0.023446411	0.063693907
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NIPA2	3.949749417	3.923891451	-0.009475996	0.451674522
NIPBL	5.992359311	6.01289112	0.004934702	0.65187286
NIPSNAP1	5.309496139	5.41246907	0.027711917	0.178558276
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NISCH	8.770313748	8.670232204	-0.016557823	0.05057834
NIT1	6.580965325	6.509941521	-0.015654637	0.161601521
NIT2	7.233966695	7.32086331	0.017226832	0.423579857
NKAIN1	5.176618119	5.297109507	0.03319544	0.7894909
NKAIN2	4.242816927	4.372539852	0.043449104	0.220770112
NKAIN3	1.813415	1.82551962	0.009598051	0.705914935



NKAIN4	3.890824278	4.098753599	0.075109438	0.019285267
NKAP	5.237974967	5.21045593	-0.007599547	0.226809713
NKAPL	3.348026795	3.328960063	-0.008239511	0.798534376
NKD1	2.22374347	2.18049043	-0.028337711	0.415237019
NKD2	7.735918636	7.764933444	0.005400938	0.713618764
NKG7	4.730379358	4.532679444	-0.061591751	0.140054447
NKIRAS1	5.56758649	5.635567373	0.017508799	0.761483018
NKIRAS2	5.737504291	5.725796648	-0.002946894	0.862531658
NKPD1	2.107779603	2.217165183	0.072992237	0.026236309
NKRF	6.398090662	6.270920944	-0.028964104	0.099909509
NKTR	7.446805894	7.266687972	-0.035323794	0.000148959
NKX1-2	6.010830523	5.999808845	-0.002647807	0.854405723
NKX2-1	2.031678219	2.040151014	0.006004023	0.553923607
NKX2-2	1.851311483	1.876695486	0.019646927	0.928541111
NKX2-3	2.638232808	2.662662148	0.013297504	0.53605111
NKX2-5	3.390109755	3.400097556	0.00424416	0.477793382
NKX2-8	6.385063437	6.433272958	0.010851949	0.341800818
NKX3-1	5.11262753	5.195046789	0.023071817	0.121284973
NKX3-2	1.908736358	1.895038254	-0.010390874	0.599120752
NKX6-1	1.949332861	1.94161207	-0.005725479	0.711047694

NKX6-2	2.100015053	2.106397676	0.004378166	0.990092687
NKX6-3	2.553092411	2.579866718	0.015050777	0.387757158
NLE1	5.612457695	5.587520775	-0.006424375	0.653862614
NLGN1	5.439482921	5.519418563	0.021046781	0.541976236
NLGN2	6.702323172	6.688930366	-0.002885726	0.900086063
NLGN3	2.338591172	2.354913134	0.010034169	0.965334423
NLGN4X	3.191733119	3.382113113	0.083584887	0.038365477
NLGN4Y	3.283936119	3.228787796	-0.024433437	0.445067844
NLK	6.324022007	6.466081768	0.032049363	0.045962682
NLN	2.477607046	2.506387915	0.016662328	0.618919961
NLRC3	2.778207483	2.631575831	-0.07822738	0.029674545
NLRC4	3.563950861	3.334012831	-0.096217789	0.129795265
NLRC5	2.864128728	2.789735803	-0.037967836	0.101339778
NLRP1	7.725579305	7.774698437	0.009143599	0.489854541
NLRP10	1.968184258	1.938796	-0.021704279	0.688057581
NLRP11	1.917742166	1.875103866	-0.032438256	0.56366626
NLRP12	2.498367026	2.397697901	-0.059335536	0.147040565
NLRP13	1.854579053	1.854756014	0.000137653	0.991193446
NLRP14	2.099674775	2.188583768	0.059831722	0.112434768
NLRP2	3.016387285	3.145322761	0.060386395	0.415236963

NLRP3	5.225448596	5.270581873	0.012407349	0.699773591
NLRP4	2.021480079	1.943261641	-0.056931828	0.145126673
NLRP5	2.049800305	2.054769627	0.003493287	0.776771951
NLRP6	2.007674828	1.957721324	-0.036350207	0.437293874
NLRP7	2.072781179	2.060068676	-0.008875388	0.741069003
NLRP8	1.904537675	1.871406979	-0.025317489	0.530158821
NLRP9	1.869380583	1.864123338	-0.004062996	0.995046249
NLRX1	8.089595702	8.15766593	0.012088825	0.488987894
NMB	7.838687834	7.813295782	-0.004680943	0.611642851
NMBR	1.870817788	1.94039681	0.052682661	0.018792166
NMD3	5.807929563	5.751847838	-0.013998446	0.195610367
NME1	10.17112389	10.23016296	0.008350024	0.594334093
NME2	12.30015576	12.25219494	-0.005636358	0.225199486
NME2P1	11.43989095	11.4260063	-0.001752069	0.537409071
NME3	10.85603549	10.85137442	-0.000619558	0.583862458
NME4	5.544046113	5.449697535	-0.024763096	0.21029034
NME5	4.786460861	4.974589387	0.055618135	0.03728264
NME6	5.026374921	4.949857063	-0.022131422	0.057998747
NME7	6.403163212	6.449469937	0.010395811	0.586715691
NMI	5.58641255	5.439883162	-0.038346453	0.361052775

NMNAT1	3.616772801	3.571230134	-0.018281868	0.527450613
NMNAT2	5.027340483	5.180012246	0.043160108	0.197283657
NMNAT3	5.808791901	5.916201514	0.026433047	0.116392383
NMRAL1	7.717637914	7.761923796	0.00825491	0.688057228
NMT1	9.798145821	9.872686683	0.01093398	0.218952598
NMT2	4.861507596	4.830749218	-0.009156816	0.593380383
NMU	2.751877033	2.711234669	-0.021466015	0.905549343
NMUR1	6.17855294	6.317175218	0.0320106	0.316173927
NMUR2	2.01994751	1.975606993	-0.032021823	0.158727885
NNAT	4.345886874	4.509966627	0.053466137	0.434044375
NNMT	9.626706477	9.73600569	0.016287709	0.437700675
NNT	3.516289311	3.493249648	-0.009484027	0.627701402
NOB1	5.622280497	5.585612683	-0.009439894	0.410904925
NOC2L	5.847575311	5.875160225	0.00678966	0.371297368
NOC3L	6.550874238	6.541247951	-0.002121551	0.829585584
NOC4L	4.698117066	4.738115352	0.01223066	0.380220914
NOD1	3.779127543	3.715239683	-0.024597922	0.481223274
NOD2	2.925907232	2.886392162	-0.019616702	0.561339284
NODAL	1.970651225	1.939123268	-0.023267948	0.793743166
NOG	3.220858702	3.304390556	0.036938842	0.558552736

NOL10	2.964370199	2.975149028	0.00523631	0.48509717
NOL11	6.130333007	6.127375254	-0.000696237	0.753086911
NOL12	5.545168907	5.634711211	0.023110266	0.039342959
NOL3	9.505693344	9.605636148	0.015089301	0.367617631
NOL4	3.81076902	4.108610585	0.108568432	0.143043538
NOL6	3.682200921	3.789325894	0.041372872	0.016058782
NOL7	9.32530555	9.34008288	0.002284355	0.740026201
NOL8	7.226078616	7.096708317	-0.02606294	0.060506932
NOL9	5.797216881	5.818711606	0.005339284	0.585291771
NOLC1	6.46929655	6.499326782	0.006681441	0.842515532
NOM1	2.350390093	2.376334754	0.015837863	0.421983384
NOM01	6.401801841	6.50859788	0.023868762	0.350630361
NONO	7.127424026	7.128392289	0.000195977	0.993395018
NOP10	9.339190669	9.183512711	-0.024251439	0.013188391
NOP14	2.698656338	2.716953007	0.009748345	0.846835281
NOP16	8.798364033	8.713976606	-0.013904054	0.237319567
NOP2	4.635366993	4.602772218	-0.010180517	0.379472579
NOP5/NOP58	9.472038199	9.418859697	-0.00812249	0.545179154
NOP56	8.900613291	8.814714746	-0.013990864	0.137842462
NOS1	2.257933033	2.268559444	0.006773765	0.821527355

NOS1AP	3.369498576	3.50144319	0.055415764	0.057362919
NOS2	3.43976657	3.530853704	0.037706383	0.15073029
NOS3	4.48402106	4.292584782	-0.062946425	0.046113302
NOSIP	8.681030497	8.65570288	-0.004215333	0.263458494
NOSTRIN	6.015289682	5.686798423	-0.081017549	0.123118831
NOTCH1	3.712152669	3.721040718	0.003450132	0.527450564
NOTCH2	9.524826795	9.475314789	-0.007518985	0.441373987
NOTCH2NL	4.750218132	4.724935662	-0.00769908	0.533327425
NOTCH3	2.327136119	2.359331134	0.019822317	0.525648922
NOTCH4	6.690596834	6.635105148	-0.012015584	0.539237552
NOTUM	2.456686583	2.534640669	0.045067419	0.121616876
NOV	4.332033298	4.271165437	-0.020414553	0.402712041
NOVA1	3.859796159	3.939201669	0.029378619	0.21255936
NOVA2	4.811891258	4.77354443	-0.011543153	0.509134025
NOX1	1.99109804	2.000284254	0.006640771	0.953790487
NOX3	1.927081007	1.917238134	-0.007387677	0.970834192
NOX4	4.862937245	5.022119113	0.046468272	0.293740596
NOX5	1.977981503	1.935723338	-0.031156164	0.167254548
NOXA1	6.042318384	6.244674775	0.047524233	0.018073194
NOXO1	3.109696099	3.173134711	0.029135173	0.356357032

NP	9.125930086	9.066821732	-0.009374682	0.334148801
NPAL2	5.423256384	5.33914693	-0.022550124	0.11011144
NPAL3	6.52117847	6.645098035	0.02715778	0.618919961
NPAS1	4.403347033	4.416101585	0.00417281	0.875563321
NPAS2	2.723878543	2.702645873	-0.011289887	0.735343394
NPAS3	10.01760857	9.981759415	-0.005172109	0.560407692
NPAS4	2.014752192	1.940541993	-0.05414275	0.08852326
NPAT	3.939260377	4.034519148	0.034471957	0.020268185
NPB	3.319055311	3.384536831	0.028185745	0.43648038
NPBWR1	3.958705232	3.963163106	0.001623696	0.457918491
NPBWR2	2.392570258	2.361445725	-0.018890913	0.603442264
NPC1	5.024531265	5.096634261	0.020555813	0.332426224
NPC1L1	2.434216358	2.36767788	-0.039984586	0.285882619
NPC2	11.99618019	12.05245634	0.006752106	0.304972714
NPCDR1	2.526055914	2.436414676	-0.052126874	0.089690945
NPDC1	9.875923848	9.732249803	-0.021142361	0.000559229
NPEPL1	7.78196243	7.781015106	-0.000175635	0.960385958
NPEPPS	8.630909682	8.623221711	-0.001285651	0.570206517
NPFF	4.828097874	4.64454388	-0.055917999	0.097376177
NPFFR1	2.145361881	2.179274669	0.022627018	0.434855411

<b>NPFRR2</b>	2.537941344	2.631845359	0.052415996	0.118330559
<b>NPHP1</b>	5.102920497	5.121790352	0.005325036	0.614064418
<b>NPHP3</b>	3.920552033	3.881011296	-0.014624175	0.55207721
<b>NPHP4</b>	4.771879821	4.775639979	0.001136371	0.659347732
<b>PKP3</b>	3.010321358	3.238689021	0.105492442	0.002480735
<b>NPHS2</b>	2.090063523	2.1080455	0.012359216	0.817773222
<b>NPIP</b>	10.7992422	10.69950279	-0.013386324	0.067220848
<b>NPL</b>	4.547316755	4.248380563	-0.098102496	0.117843713
<b>NPLOC4</b>	6.768048987	6.797855937	0.006339777	0.421983218
<b>NPM1</b>	10.18682799	10.13527279	-0.00731997	0.227602672
<b>NPM2</b>	4.452499775	4.513687824	0.019691104	0.475657359
<b>NPM3</b>	5.548174477	5.659495465	0.028660287	0.634077106
<b>NPNT</b>	4.769660384	4.598890535	-0.052600687	0.237867984
<b>NPPA</b>	2.086414781	2.163684148	0.052463916	0.070377127
<b>NPPB</b>	3.322282669	3.368689993	0.020012842	0.564132491
<b>NPPC</b>	3.592643808	3.651275908	0.023354783	0.669869435
<b>NPR1</b>	3.592787331	3.466469324	-0.051636546	0.13566131
<b>NPR2</b>	5.753639795	5.671013817	-0.020868233	0.142854916
<b>ATP2C2</b>	2.832740781	3.048240965	0.105778363	0.002555325
<b>NPSA</b>	1.990335755	1.94325007	-0.034540255	0.370928741



NPSR1	1.935735305	1.974149085	0.028349254	0.352771011
NPTN	6.021319179	6.074009592	0.012569593	0.317507786
NPTX1	5.877308609	5.88770843	0.002550574	0.792679482
NPTX2	5.465237874	5.646451676	0.047060248	0.245635033
NPTXR	2.843958192	2.919309063	0.037726699	0.274818898
AQP11	4.073148192	4.383591415	0.10596903	0.003829809
NPW	2.054077636	2.082256324	0.019656963	0.506482215
NPY	4.80011657	5.074259852	0.08012796	0.143043633
NPY1R	4.471177424	4.152861366	-0.106549084	0.032866951
NPY2R	2.253000728	2.309369183	0.035651045	0.273003767
NPY5R	2.578111629	2.45212438	-0.072282573	0.163261429
NPY6R	2.05832645	2.043776077	-0.010234673	0.932379417
NQ01	3.158061371	3.244449556	0.038934528	0.798001667
NQ02	7.56009998	7.587445261	0.005208889	0.804400458
NR0B1	2.04647747	2.056141345	0.006796659	0.677425106
NR0B2	2.221372344	2.345365239	0.078361372	0.03258542
NR1D1	8.388452689	8.50490369	0.019890179	0.335185914
NR1D2	5.201689715	5.249379838	0.013166649	0.485097274
NR1H2	5.906656364	5.867336725	-0.009635891	0.21029034
NR1H3	8.928831914	8.731118338	-0.032304996	0.04889296

NR1H4	2.905194623	2.726283599	-0.09169917	0.415632098
NR1I2	2.03682796	2.083389063	0.032608152	0.267310031
NR1I3	2.37651502	2.340026486	-0.02232266	0.356357032
NR2C1	5.596920172	5.550420289	-0.012036152	0.236226252
NR2C2	4.169661212	4.15505312	-0.005063247	0.951043331
NR2C2AP	6.291759245	6.358638923	0.01525452	0.311203677
SLC2A5	4.120024503	4.435309415	0.106381835	0.004179893
NR2E3	6.590208272	6.629136014	0.008496794	0.870129155
NR2F1	9.762949861	9.67896593	-0.012464199	0.241174062
NR2F2	8.835277629	8.467396979	-0.06135694	0.01773924
NR2F6	5.993610656	6.018439338	0.005964056	0.771489832
NR3C1	6.875430497	6.63301212	-0.051785887	0.006622595
NR3C2	5.516853159	5.56637138	0.012891585	0.403487875
NR4A1	9.291308026	9.062848901	-0.035917081	0.153891637
NR4A2	3.859216338	3.8287865	-0.011420705	0.980186902
NR4A3	5.409246113	5.279842908	-0.034932534	0.405432244
NR5A1	2.074246987	2.144215092	0.047861943	0.063398597
NR5A2	2.048399417	2.075935627	0.019264654	0.480793715
NR6A1	2.111688868	2.113112606	0.000972363	0.807604807
NRAP	2.360912881	2.495919866	0.08022681	0.039872996

NRAS	3.529572179	3.416303507	-0.047057174	0.085846693
NRBF2	3.406987927	3.373787739	-0.014127625	0.601039582
NRBP1	6.975936159	6.977193746	0.000260059	0.800133112
NRBP2	6.300782192	6.233918937	-0.015391544	0.37611508
NPHS1	2.471083854	2.661896768	0.107310654	0.006526685
NRD1	8.337368444	8.37142312	0.005880806	0.572082037
NRF1	2.53605549	2.658615268	0.068088705	0.021646745
NRG1	3.481396444	3.617335648	0.05526136	0.229472634
NRG2	4.51671796	4.49254438	-0.007742074	0.79800162
NRG4	2.614377497	2.717859894	0.056003616	0.19752365
NRGN	5.029661417	4.962373768	-0.019430882	0.445890524
NRIP1	8.004172722	8.100607246	0.017277761	0.183053914
NRIP2	2.542159967	2.544040423	0.001066778	0.889173868
NRIP3	6.17990506	6.39665293	0.049732533	0.32288105
NRL	11.73387825	11.84671723	0.01380741	0.771475364
NRM	4.633505887	4.612918331	-0.006424454	0.416422643
NRN1	7.01584104	7.143671056	0.02604959	0.595769228
NRN1L	8.120877199	8.233855704	0.019932594	0.287754678
NRP1	6.137963543	5.826778613	-0.07506158	0.079499466
NRP2	3.863848742	3.636411711	-0.087523069	0.043110326

NRSN1	2.637473921	2.723317211	0.046208208	0.305308157
NRSN2	4.902923768	5.013744211	0.032246065	0.061171679
NRTN	7.331294417	7.503085754	0.033416103	0.379846832
NRXN1	3.511685775	3.396687986	-0.048035058	0.20654788
NRXN2	8.065552649	8.198242887	0.023541343	0.167254143
NRXN3	8.202572927	8.339988592	0.023968895	0.428390497
NS3BP	2.739517834	2.780871106	0.021614881	0.336572144
NSBP1	3.735660411	3.704534556	-0.012071022	0.356716699
NSD1	4.590782219	4.540670831	-0.015834539	0.235680514
NSDHL	3.822344801	3.909672627	0.032589885	0.183280883
NSF	8.707130954	8.864694641	0.025873515	0.487688152
NSFL1C	6.161981874	6.328341254	0.03843296	0.000693863
NSL1	3.942617331	3.844510979	-0.036353591	0.17283735
NSMAF	6.384836338	6.347658542	-0.008425116	0.819918059
NSMCE1	7.215328371	7.17526307	-0.008033326	0.580558209
NSMCE2	7.185475894	7.250342613	0.012965461	0.17002852
NSMCE4A	6.835056775	6.968681521	0.027932402	0.01479986
NSUN2	7.793151536	7.736816514	-0.01046681	0.378350896
NSUN3	4.287709106	4.22199993	-0.022280477	0.205557809
NSUN4	4.381255225	4.310444789	-0.023507513	0.012442989

NSUN5	8.260301444	8.213621331	-0.008175994	0.132969285
NSUN5B	8.929680762	8.892048063	-0.006092853	0.511792944
NSUN5C	9.637880437	9.602212528	-0.005349036	0.357795466
NSUN6	4.358456146	4.140622634	-0.073969468	0.000365574
NSUN7	2.450897914	2.546990465	0.055483165	0.032980065
NT5C	8.024367675	8.115931472	0.016368972	0.025819987
NT5C1A	2.019317974	2.043240768	0.016991112	0.638506708
NT5C1B	1.950827801	1.851776979	-0.075176081	0.002722947
NT5C2	6.456213517	6.576856338	0.026709866	0.281236707
NT5C3	6.87998255	6.964851669	0.017687722	0.06681276
NT5C3L	4.300266656	4.413262711	0.037419507	0.26346174
NT5DC1	6.568707642	6.590383937	0.004752959	0.646908962
NT5DC2	4.936271921	4.995043387	0.01707534	0.50559971
NT5DC3	2.777288305	2.803286585	0.013442293	0.499007139
NT5E	4.569353166	4.617481338	0.015116178	0.926348573
NT5M	5.11033406	5.219928373	0.030612408	0.322543497
NTAN1	6.455643325	6.373887592	-0.018387295	0.101052232
NTF3	2.722715159	2.760322	0.019790511	0.475657359
NTF4	1.888871702	1.897690528	0.006720027	0.856029604
NTHL1	7.090041874	6.974635979	-0.023676227	0.024694347

NTM	4.842932358	5.011451676	0.049347719	0.388895474
NTN1	5.689638033	5.671332606	-0.004649105	0.872845496
NTN3	2.348884974	2.359972845	0.006794194	0.979636656
NTN4	5.550998954	5.185634662	-0.098226852	0.122616578
NTN5	3.09928606	3.144472099	0.020881915	0.610675775
NTNG1	3.770176603	3.870025648	0.037711024	0.076128751
NTNG2	8.08009851	8.337940211	0.045318145	0.119308454
NTRK1	3.658457305	3.87101712	0.081477266	0.029622957
NTRK2	5.909747225	6.07155988	0.038970791	0.01052874
NTRK3	5.636807079	5.663750683	0.006879568	0.728595438
NTS	1.935398755	1.929832275	-0.004155373	0.818309395
NTSR1	2.876354172	2.981346204	0.051722587	0.163678307
NTSR2	2.142509536	2.074355824	-0.046638238	0.274212998
NUAK1	7.703693384	7.618814099	-0.01598383	0.352770954
NUAK2	4.199536563	4.177026535	-0.007753821	0.943354359
NUB1	5.110977954	5.099792634	-0.003160782	0.960386019
NUBP1	5.581147272	5.600639077	0.005029744	0.750992366
NUBP2	6.460133868	6.526314887	0.014704537	0.367985065
NUBPL	2.976544596	3.019314063	0.020582321	0.427988955
NUCB1	5.194400954	5.185022676	-0.002607081	0.825822789

NUCB2	7.398961788	7.385034782	-0.002718132	0.862531609
NUCKS1	8.244231338	8.377909754	0.023205355	0.015170752
NUDC	8.533215808	8.536844894	0.000613433	0.730150595
NUDCD1	4.988642411	4.979791514	-0.002561917	0.713104485
NUDCD2	8.139175497	8.143612718	0.000786297	0.632111196
NUDCD3	6.234094921	6.275625232	0.009579078	0.330365284
NUDT1	7.52396245	7.583345683	0.01134184	0.280620801
NUDT10	4.326918947	4.31064093	-0.005437703	0.817237348
NUDT11	3.567365305	3.540716704	-0.010817541	0.821527459
NUDT12	3.677246649	3.802402521	0.048285316	0.07739337
NUDT13	2.863120033	2.737706239	-0.064620504	0.020909366
NUDT14	7.847747934	7.935645873	0.016068944	0.030832125
NUDT15	2.698418914	2.78810681	0.047171495	0.058364816
NUDT16	6.930476801	6.969952887	0.008194294	0.470550505
NUDT16L1	8.139196	8.156305345	0.003029496	0.385863991
NUDT16P	2.03442245	2.016456444	-0.012797044	0.365421529
NUDT18	4.868330775	4.970094014	0.029845948	0.281853298
NUDT19	3.858550702	3.862144085	0.001342925	0.673894917
NUDT2	6.832411199	6.879297289	0.009866399	0.270296475
NUDT21	7.102988483	7.087629458	-0.003122965	0.959836229

NUDT22	6.94537453	7.001548866	0.011621613	0.333459483
NUDT3	6.474466748	6.124358296	-0.080202686	0.000219434
NUDT4	7.466185623	7.523348563	0.011003556	0.458336156
NUDT5	7.961097318	7.779204887	-0.033344593	0.003730077
NUDT6	4.82147206	4.973059768	0.044660082	0.008476701
NUDT7	5.456076424	5.605498979	0.038978949	0.031863237
NUDT8	5.600844901	5.692263866	0.023358062	0.118168044
NUDT9	7.818970219	7.668479676	-0.02803803	0.033781471
NUDT9P1	3.703358974	3.648794035	-0.021414683	0.911564116
NUF2	2.803984093	2.939689303	0.068185519	0.103222965
NUFIP1	2.456856285	2.500767528	0.025557482	0.469702835
NUFIP2	7.832738881	7.773339606	-0.010982317	0.262284508
NUMA1	6.283866146	6.235676838	-0.011106287	0.663348128
NUMB	6.223398404	6.069020514	-0.036238909	0.006168202
NUMBL	2.877839517	2.857464134	-0.010250752	0.90117825
NUP107	7.656991848	7.653623028	-0.000634877	0.638999301
NUP133	7.342869695	7.354394535	0.002262575	0.98073715
NUP153	6.086491013	6.063121218	-0.005550058	0.38813622
NUP155	4.144793861	4.158246282	0.004674856	0.858737725
NUP160	4.896252358	4.842990944	-0.015779613	0.382848052



NUP188	2.988567947	2.988973162	0.000195599	0.963684765
NUP205	7.88029296	7.901576218	0.003891208	0.739505531
NUP210	3.50520649	3.529448958	0.009943522	0.519815499
NUP210L	2.047912503	2.001000239	-0.033432738	0.186020956
NUP214	6.78840904	6.810055993	0.004593162	0.311863468
NUP35	7.027592351	6.993132063	-0.007091757	0.514015451
NUP37	5.259959556	5.382993634	0.033357012	0.049850586
NUP43	6.354750371	6.386616338	0.007216332	0.583869681
NUP50	6.919926338	6.934102866	0.002952558	0.668362136
NUP54	6.847193517	6.872409556	0.005303229	0.77624306
NUP62	9.159001119	9.149769268	-0.001454904	0.733783366
NUP62CL	2.423811755	2.560230239	0.0789959	0.005457457
NUP85	6.951558914	6.895451606	-0.011691502	0.344962952
NUP88	6.54003702	6.549966972	0.00218883	0.73015078
NUP93	5.460464285	5.597132127	0.035664181	0.062325345
NUP98	5.98408506	6.002785035	0.004501322	0.856029417
NUPL1	5.180189795	5.233985923	0.014905087	0.269098992
NUPL2	2.880634252	2.852744261	-0.014036076	0.878282615
NUPR1	10.81122093	10.79268103	-0.002476167	0.567396156
NUS1	5.421442457	5.39839962	-0.006144976	0.497256777

NUSAP1	2.281270013	2.333977782	0.032953612	0.526099136
NUTF2	6.173470954	6.185869373	0.002894514	0.621840983
NVL	7.56152606	7.542992092	-0.003540514	0.520710537
NXF1	7.432873026	7.340696401	-0.018003027	0.206299781
NXF2	2.838310629	2.745234458	-0.04810312	0.20408001
NXF3	3.355229377	3.116765937	-0.106361583	0.034364503
NXF5	2.796978291	2.816078275	0.009818379	0.890809435
NXN	3.490137344	3.626707408	0.055376547	0.091134703
NXNL1	5.593747325	5.655025359	0.015718407	0.677930051
NXNL2	2.074369026	2.039050944	-0.02477475	0.658848387
NXPH1	2.830620881	2.866552746	0.018198291	0.545638528
NXPH2	2.310178033	2.315725655	0.00346031	0.916489159
TTC29	1.977151338	2.13043943	0.107727731	0.001988741
NXPH4	3.091928583	3.175129577	0.038308473	0.042968149
NXT1	8.674854801	8.609667606	-0.01088207	0.121782382
NXT2	3.64733647	3.614467725	-0.013060087	0.646413635
NYX	4.506781305	4.60980831	0.032609316	0.045216575
OAF	5.768752166	5.873826092	0.026041268	0.141729509
OAS1	3.420615033	3.388671697	-0.013535876	0.42278129
OAS2	2.537930682	2.463727697	-0.042809854	0.051812721

OAS3	3.102136225	3.089797894	-0.005749568	0.808673868
OASL	3.58780849	3.543504697	-0.017925923	0.722902272
OAT	7.050217298	6.98366481	-0.013683408	0.736903445
OAZ1	13.2384584	13.1803177	-0.006349987	0.110509323
OAZ2	9.870249788	10.00486364	0.019543004	0.214335367
OAZ3	3.060438583	2.975533655	-0.040589981	0.085972468
OBFC1	5.230689298	5.252428028	0.005983412	0.914299857
OBFC2A	4.75093451	4.705178289	-0.013961929	0.797468981
OBFC2B	5.226541351	5.344076838	0.032084188	0.038819009
OBP2A	1.896060377	1.915633817	0.014816903	0.500760513
OBP2B	2.07426904	1.950176352	-0.088998438	0.00140314
OBSCN	4.505060523	4.359245944	-0.047467887	0.018310114
OBSL1	7.652346265	7.693377901	0.007715019	0.460009867
OCA2	5.747950358	5.294732592	-0.118489779	0.117035637
OCC-1	3.978529709	4.02081281	0.015251801	0.632112488
OCEL1	6.414489099	6.507205915	0.020703845	0.08299005
OCIAD1	9.147214894	9.219136866	0.011299141	0.159544294
OCIAD2	9.341675364	9.450820859	0.016758331	0.27330423
OCLM	2.007980212	1.932291915	-0.05543199	0.057453059
OCLN	2.425095768	2.431261732	0.003663491	0.993395027

OCM2	2.412928007	2.43483988	0.01304203	0.883725495
OCR1	1.835442781	1.82371338	-0.009249131	0.652370134
OCRL	7.651220477	7.644569465	-0.001254644	0.899539833
ODAM	2.436172781	2.607431268	0.098012766	0.200175745
ODC1	9.020205974	8.951036014	-0.011105704	0.55623514
ODF1	1.842928232	1.867400958	0.019031838	0.168530654
ODF2	4.455638775	4.439656148	-0.005184332	0.743154537
ODF2L	2.842120291	2.882930754	0.020568567	0.266121829
ODF3	2.02372198	2.003556063	-0.014448226	0.332426051
ODF3L1	2.025763801	2.061369225	0.025136969	0.517580612
ODF3L2	3.402655728	3.417213718	0.006159288	0.67389488
ODF4	2.070836808	2.104629338	0.023352305	0.623304068
ODZ1	2.010513728	1.952942683	-0.041914579	0.365421072
ODZ2	7.312788662	7.409316387	0.018918771	0.571613639
ODZ3	4.881573775	4.942692338	0.017950773	0.142854916
ODZ4	2.728734589	2.933586831	0.104433617	0.04040903
OFCC1	1.954621265	1.998036063	0.031693531	0.337961189
OFD1	6.220408311	6.250106894	0.006871581	0.617461324
OGDH	4.825776152	4.880968007	0.016406299	0.221029755
OGDHL	9.211140106	9.414164986	0.0314534	0.113688804

OGFOD1	6.328833411	6.323749732	-0.00115932	0.893536277
OGFOD2	4.267843013	4.482419746	0.070770644	0.003172733
OGFR	10.57638063	10.57644983	9.44E-06	0.974684629
OGFRL1	5.091652384	4.863000951	-0.066287054	0.015027277
OGG1	6.144669854	6.094320528	-0.011870118	0.1072232
OGN	5.534655305	4.926045444	-0.168063533	0.046567108
CLDN3	4.104679265	4.424086986	0.108110256	0.002131921
OIP5	3.01362996	3.015928254	0.001099827	0.835506375
OIT3	1.861485258	1.834557211	-0.021022295	0.913752533
OK/SW-CL. 36	1.849626126	1.85322769	0.002806463	0.737423603
OK/SW-CL. 58	2.033639172	1.977231542	-0.040581898	0.403099706
OLA1	6.924814364	7.048529155	0.025546839	0.052062289
OLAH	2.447626364	2.449205296	0.000930364	0.852241297
OLFM1	5.744823848	5.900874542	0.038666129	0.508691838
PPP4R4	3.123174735	3.366369366	0.108180194	0.014856464
OLFM3	2.458062192	2.53214907	0.042840922	0.292157315
OLFM4	3.155240755	3.129670338	-0.011739392	0.694670768
OLFML1	2.698019954	2.628413711	-0.037708645	0.39653529
OLFML2A	5.573116503	5.436292775	-0.035861157	0.227075308
OLFML2B	4.052758483	3.812075035	-0.088327686	0.028305119

OLFML3	5.616003934	5.167196162	-0.120162292	0.029830278
OLIG1	2.530487053	2.447576254	-0.048061286	0.303359403
OLIG2	1.90875604	1.938081373	0.021996424	0.614064291
OLIG3	2.089877258	2.021114225	-0.048267354	0.405042957
OLR1	2.149361523	2.233532648	0.055419178	0.364326358
OMA1	6.349590477	6.272314704	-0.0176656	0.330708189
OMD	2.866466848	2.789721408	-0.039152537	0.619893136
PSMAL	3.294015073	3.551093915	0.108416359	0.005926688
OMP	2.522921748	2.561600711	0.021950154	0.188327515
ONECUT1	5.110169656	5.551525261	0.119513012	0.046567108
ONECUT2	4.802066735	5.143972169	0.099227384	0.108888192
OOEP	2.355381152	2.346974282	-0.005158506	0.86632891
OPA1	5.827288464	5.938362197	0.027240361	0.081772735
OPA3	6.559119954	6.57716588	0.003963797	0.799067108
OPALIN	1.973296894	1.920187535	-0.039360816	0.114479193
OPCML	6.934643808	7.26016443	0.066180441	0.076471944
OPHN1	6.101656523	6.120827803	0.004525812	0.757281469
OPLAH	7.250226424	7.366973613	0.023046024	0.469702941
OPN1LW	5.298003179	5.317084106	0.005186578	0.913752666
OPN1MW	5.290692106	5.364880873	0.020089674	0.816701474

OPN1SW	4.135751993	4.204569993	0.023808587	0.598641359
OPN3	2.572404457	2.528592697	-0.024782826	0.456665868
OPN4	3.588988172	3.740807056	0.059772388	0.362869174
OPRD1	2.150169695	2.132497169	-0.011906698	0.974134779
OPRK1	2.127855377	2.191359401	0.042426018	0.247040297
OPRL1	2.741597629	2.775752049	0.017861852	0.576783887
OPRM1	1.940042993	1.904810556	-0.026441103	0.2800065
OPTC	4.316810795	4.367633732	0.016886017	0.794275091
OPTN	9.935664583	9.918469063	-0.002499016	0.795338514
OR10A2	2.002246053	1.973040127	-0.021198978	0.590995977
OR10A4	1.997136086	2.015006289	0.012851699	0.830123381
OR10A5	2.886995728	2.886489014	-0.000253239	0.98899193
OR10C1	2.221270596	2.2123255	-0.005821488	0.562735098
OR10G8	1.999637417	2.030299204	0.021953924	0.515351007
OR10H1	2.128921311	2.162769275	0.02275714	0.486391986
OR10H2	3.973092404	3.950067746	-0.00838495	0.845214863
OR10H3	2.04409896	2.005840732	-0.027257985	0.30988709
OR10H4	2.036967291	1.987627077	-0.035375713	0.609225861
OR10J1	1.906472861	1.951942331	0.034004436	0.294375195
OR10J3	1.990311523	1.945104246	-0.033146781	0.105876501

OR10J5	2.100799874	2.041956725	-0.040986443	0.174802025
OR10P1	2.201770245	2.119019782	-0.055266876	0.049290285
OR10R2	1.841536185	1.864714352	0.018044901	0.600079755
OR10T2	1.945883556	1.967824275	0.016176014	0.587190553
OR11A1	2.770235437	2.816953817	0.024127318	0.600079798
OR11G2	1.965670073	1.872300056	-0.070209532	0.120458448
OR11H12	1.973059722	1.91290519	-0.044669254	0.077509031
OR12D2	1.923031927	1.894820444	-0.021321573	0.388136277
OR12D3	2.035855404	1.961303556	-0.053822255	0.060223695
OR13C4	1.910459636	1.903906345	-0.004957264	0.8989939
OR13D1	1.990508536	1.908284641	-0.060860678	0.161808335
OR1A1	1.937181497	1.915316965	-0.016375965	0.56133919
OR1A2	1.958502954	1.917641042	-0.030418612	0.133862196
OR1C1	1.879105325	1.947228197	0.051376032	0.274819184
OR1D2	2.110555636	2.085014599	-0.017565375	0.750469231
OR1D4	1.978901351	1.92055131	-0.043179188	0.1385778
OR1E1	2.099960669	2.036786669	-0.044067425	0.117035593
OR1F1	2.101079397	2.104835782	0.002576998	0.9373167
OR1F2P	2.050287152	2.056898408	0.00464456	0.976885577
OR1G1	1.857881556	1.971581239	0.085694628	0.028156247



OR1L3	1.935753576	1.896680887	-0.029418339	0.556698905
OR1L4	1.921213775	1.91084688	-0.007805881	0.636536055
OR1N2	2.03689549	2.067028746	0.021186493	0.819917932
OR1Q1	1.933901881	1.930879331	-0.002256593	0.651375817
OR1S2	2.093859404	2.151868092	0.039425071	0.310544865
OR2A14	1.876820325	1.876679373	-0.000108352	0.82797241
OR2A20P	2.387491285	2.350678254	-0.022418382	0.37537134
OR2A25	2.02936143	2.044344373	0.010612408	0.573491077
OR2A7	2.002775397	1.988583437	-0.010259542	0.675407065
OR2A9P	3.327056894	3.205375451	-0.053753185	0.134220609
OR2B2	2.067141987	2.019306817	-0.033777354	0.32694941
OR2B6	2.07167755	2.046199789	-0.017852454	0.535596839
OR2C1	1.976452311	1.977842697	0.001014544	0.787897792
OR2C3	1.979034384	1.918065514	-0.04514468	0.057816534
OR2F1	2.009942225	1.902239577	-0.079455075	0.026143372
OR2H1	4.954691596	5.033025373	0.022630611	0.137113363
OR2H2	2.095024874	2.07834757	-0.011530431	0.803866729
OR2J2	1.934611086	1.93981612	0.003876331	0.5198153
OR2L13	2.26726055	2.204353408	-0.040594653	0.478221741
OR2M2	1.936106689	1.91495638	-0.015846924	0.264051121

OR2S2	1.958373199	1.875131697	-0.062663794	0.043610993
OR2T5	2.02740102	1.943849606	-0.060714879	0.143798166
OR2T8	1.932200834	1.924100423	-0.006060959	0.946649025
OR2V2	1.910329815	1.926975127	0.012516211	0.541519162
OR2W1	1.925853616	1.967986901	0.03122257	0.303683543
OR2W3	2.144777026	2.159880352	0.010123724	0.970284171
OR3A1	1.963967377	1.978967711	0.010977108	0.663348128
OR3A2	2.034710079	2.109991394	0.052413872	0.135480129
OR3A3	2.205919278	2.249814352	0.028425961	0.292789904
OR4A15	2.232567298	2.141676176	-0.059963305	0.049850668
OR4C15	2.225760775	2.229457331	0.002394049	0.997798321
OR4C1P	1.873070331	1.826732739	-0.036139496	0.553461346
OR4C3	1.922749649	1.938476155	0.011752059	0.85386444
OR4C46	1.909531013	1.904825944	-0.003559176	0.761483018
OR4D2	3.358304212	3.383843063	0.010929738	0.434044484
OR4D5	1.882906801	1.9338695	0.038528851	0.253864846
OR4F4	1.945124325	1.876393232	-0.051900167	0.171536957
OR4K1	1.928339954	1.962936549	0.025654128	0.758331141
OR4K17	1.857925026	1.903604246	0.035041293	0.204325303
OR4N4	1.933026318	1.897526472	-0.026741267	0.267607707

OR4S1	2.000904483	1.925969366	-0.055067543	0.337960959
OR4X2	2.134733291	2.097847042	-0.025146342	0.278780013
OR51A7	2.05931551	2.022243155	-0.026208406	0.569270548
OR51B2	1.884502278	1.859107754	-0.019573148	0.432020201
OR51B4	1.895655841	1.856487134	-0.030121748	0.517134312
OR51B5	2.040115887	1.975553387	-0.046394272	0.284018067
OR51D1	2.039943444	2.042286408	0.001656048	0.723419188
OR51E1	2.319376219	2.292315254	-0.016931388	0.835506336
OR51E2	4.468479861	4.424569092	-0.014247164	0.802799616
OR51G1	1.932474007	1.992989697	0.044485243	0.151515618
OR51Q1	1.846097781	1.951920021	0.080414971	0.007748868
OR52A1	2.081719841	2.066860204	-0.01033511	0.61261103
OR52B2	1.922794079	1.93994581	0.012812087	0.66535196
OR52K2	2.368535119	2.385927394	0.010555078	0.641467093
OR52K3P	1.921863066	1.891744775	-0.022788087	0.655356789
OR56B1	1.928292748	1.883140437	-0.0341835	0.790021977
OR5A1	2.225727795	2.196628282	-0.018986408	0.683493011
OR5AK2	1.870553742	1.917325627	0.035629961	0.410120884
OR5AP2	1.85915	1.851861613	-0.005666883	0.67742496
OR5F1	2.084440126	2.079999176	-0.003076975	0.741590119

OR5H1	2.606404781	2.636312331	0.016460145	0.566932374
OR5I1	1.964402073	1.936051901	-0.020972621	0.361052603
OR5L2	2.342650007	2.373858345	0.019092417	0.548393412
OR5P2	2.008270841	2.031144796	0.016339241	0.705402574
OR5P3	1.92128849	1.989087824	0.050032814	0.061458417
OR5T2	1.926422536	1.955836458	0.021861566	0.954889569
OR5V1	2.262940291	2.320884486	0.0364762	0.395383569
OR6A2	1.988243185	1.901419035	-0.064417718	0.079973516
OR6K2	2.210738689	2.112301472	-0.065712754	0.069101718
OR6M1	2.230291927	2.191299007	-0.025446203	0.514460553
OR6N1	2.066852139	2.1148385	0.033112313	0.503396815
OR6W1P	2.23215143	2.31642331	0.053464016	0.272400664
OR6Y1	1.967569642	2.008159	0.029458801	0.307265081
OR7A10	1.987415391	1.975047148	-0.009006349	0.990092686
OR7A17	2.047061106	2.047124669	4.48E-05	0.432424763
OR7A5	2.437397821	2.449399373	0.007086283	0.913205454
OR7C2	2.200038775	2.198510796	-0.001002334	0.73326479
OR7D2	2.226170742	2.238951718	0.00825917	0.886449018
OR7D4	2.104299166	2.133965218	0.020196836	0.79480716
OR7E13P	5.172037801	5.313220141	0.038853669	0.004089735

OR7E156P	4.380623007	4.590952197	0.067657348	0.000201673
OR7E24	4.031925457	4.254553718	0.077538842	0.000206685
OR7E47P	3.156828589	3.314691345	0.07039861	0.028554519
OR7E5P	2.255529967	2.212858993	-0.027554931	0.496819878
KCND3	4.306921907	4.643294148	0.108491512	0.001794686
OR7G3	1.98831296	1.996649838	0.006036488	0.890264112
OR8B8	2.274011205	2.327855901	0.033762392	0.136749371
OR8D1	2.091129033	2.125832655	0.023745947	0.493766142
OR8D2	2.012420152	2.01989862	0.005351343	0.825285638
OR8G1	1.881959536	1.873869394	-0.006215206	0.843055363
OR8G2	1.95842498	1.974191683	0.011568209	0.359603528
OR8H1	2.019809801	1.991142134	-0.020623237	0.419992374
OR8J1	2.031617079	2.071238915	0.027865469	0.848996862
OR8K3	1.924890735	1.830479211	-0.072555166	0.058364696
OR8U1	2.064696702	2.007367359	-0.040625208	0.144746089
ORAI1	10.63405806	10.53541423	-0.01344521	0.19848169
ORAI2	6.405807695	6.472162965	0.014867446	0.218696029
ORAI3	5.085794649	5.089072275	0.00092947	0.845754912
ORAOV1	4.868218815	4.82378457	-0.013228537	0.152699279
ORC1L	2.171269318	2.175504965	0.002811625	0.656353685

ORC2L	4.071296987	4.16824869	0.033952891	0.037980223
ORC3L	6.935334768	6.994803	0.012317903	0.499445061
ORC4L	5.049900795	5.021061183	-0.008262742	0.546556267
ORC5L	5.503864046	5.521001725	0.004485218	0.596247181
ORC6L	5.990464987	5.920619021	-0.016919969	0.225751424
ORF1	1.905014868	1.854151972	-0.039042761	0.215867615
ORM1	2.97582057	2.865855486	-0.054321678	0.421983273
ORM2	2.284961868	2.393350134	0.066861381	0.031808213
ORMDL1	8.183748993	8.220844634	0.006524732	0.588140188
ORMDL2	7.152411033	7.203368768	0.010242116	0.959836263
ORMDL3	7.449420589	7.453199648	0.000731687	0.799066968
OS9	8.683147536	8.6719725	-0.001857915	0.959836215
OSBP	5.384883695	5.351897465	-0.008864709	0.482082391
OSBP2	6.192990331	6.193908317	0.000213835	0.832275646
OSBPL10	5.573935709	5.621296085	0.012206444	0.295010942
OSBPL11	5.18843502	5.174337901	-0.003925176	0.935670634
OSBPL1A	7.824749629	7.839366951	0.002692567	0.575371435
OSBPL2	6.431116113	6.436676275	0.001246775	0.798534235
OSBPL3	3.558491278	3.472804331	-0.035164573	0.251575847
OSBPL5	8.983668497	9.033368056	0.007959299	0.701307004

<b>OSBPL6</b>	7.065896245	7.09203581	0.005327256	0.791616039
<b>OSBPL7</b>	2.089392417	2.157992394	0.046606304	0.112903704
<b>OSBPL8</b>	5.830981934	5.878671338	0.01175127	0.623792108
<b>OSBPL9</b>	8.546697172	8.54458388	-0.000356771	0.988991924
<b>OSCAR</b>	5.428216881	5.396359725	-0.008491841	0.86687162
<b>OSGEP</b>	6.719594358	6.690261155	-0.006311617	0.399615869
<b>OSGEPL1</b>	4.315494113	4.519712218	0.066705162	0.023231499
<b>OSGIN1</b>	3.678282616	3.706455859	0.011007999	0.800133088
<b>OSGIN2</b>	4.264416993	4.217268451	-0.016039659	0.43121212
<b>OSM</b>	4.464789126	4.37090888	-0.030658735	0.526099284
<b>OSMR</b>	3.788232768	3.790098338	0.000710301	0.960386028
<b>OSR1</b>	2.024424934	1.994235099	-0.021676651	0.299487092
<b>OSR2</b>	2.212541371	2.095770796	-0.078223486	0.087623758
<b>OSTC</b>	7.157879603	7.00567312	-0.031008603	0.08250171
<b>OSTCL</b>	4.794063338	4.641722965	-0.04658855	0.054876579
<b>OSTF1</b>	6.073516523	5.928318063	-0.034909216	0.124128156
<b>OSTM1</b>	8.337323179	8.213541324	-0.021579876	0.185791165
<b>OSTalpha</b>	2.175047046	2.078196282	-0.065714686	0.076931462
<b>OSTbeta</b>	2.219979914	2.221317993	0.000869313	0.097655151
<b>OTC</b>	2.068295954	2.027432	-0.028789109	0.419992485

<b>OTOA</b>	2.170458152	2.077255239	-0.063321111	0.066301268
<b>OTOF</b>	5.704204212	5.657730021	-0.011802297	0.40077545
<b>OTOL1</b>	1.894938384	1.830338141	-0.050040739	0.231349686
<b>OTOP1</b>	1.913546762	1.831112444	-0.063528771	0.085218967
<b>OTOP2</b>	2.052201086	2.003812683	-0.03442445	0.461688386
<b>OTOP3</b>	2.015824987	2.059475923	0.03090687	0.381721101
<b>OTOR</b>	1.932010086	1.926010676	-0.004486926	0.935670626
<b>OTOS</b>	2.495737993	2.615832711	0.067803794	0.021489622
<b>OTP</b>	2.023574649	1.940191662	-0.060706894	0.047024616
<b>OTUB1</b>	4.959363967	4.925104768	-0.010000694	0.352056544
<b>OTUB2</b>	2.185868629	2.140167845	-0.030482751	0.224959446
<b>OTUD1</b>	6.335406616	6.200374465	-0.031081869	0.007406392
<b>OTUD3</b>	4.333777411	4.384232704	0.016699319	0.406991571
<b>OTUD4</b>	3.972795689	3.933160761	-0.014465446	0.639492613
<b>OTUD5</b>	8.55975704	8.562353662	0.000437579	0.549312151
<b>OTUD6A</b>	2.332235735	2.327484352	-0.002942151	0.963684787
<b>OTUD6B</b>	2.569413305	2.518653585	-0.028786267	0.562734958
<b>OTUD7A</b>	6.029494669	6.036294352	0.001626064	0.942256286
<b>OTUD7B</b>	3.89516655	3.860752049	-0.012803114	0.479935589
<b>OTX1</b>	2.211576974	2.247645746	0.023339213	0.442194723



<b>OTX2</b>	6.532421119	6.673305183	0.030783684	0.133147868
<b>OVCA2</b>	9.140634603	9.265377134	0.01955537	0.009396223
<b>OVGP1</b>	3.489496768	3.439568106	-0.020791573	0.750469144
<b>OVOL1</b>	3.117961351	2.900317704	-0.104392102	0.036782051
<b>OVOL2</b>	2.069707013	2.188048063	0.080217874	0.028106866
<b>OVOS2</b>	7.074367848	6.931827303	-0.029365525	0.407382032
<b>OXA1L</b>	7.436579404	7.51692969	0.015504331	0.096820141
<b>OXCT1</b>	6.145055159	6.155364289	0.002418281	0.801732732
<b>OXCT2</b>	2.984832768	2.950920824	-0.016484891	0.198484741
<b>OXER1</b>	2.727338603	2.786207944	0.030809111	0.184418858
<b>OXGR1</b>	2.111652616	2.085015908	-0.018314128	0.744720162
<b>OXNAD1</b>	5.548463139	5.496251901	-0.01364009	0.088394176
<b>OXR1</b>	5.826520742	5.972172507	0.035621191	0.434449811
<b>OXSM</b>	6.842809623	6.906080359	0.013278312	0.460429726
<b>OXSR1</b>	6.281334437	6.256719577	-0.00566464	0.527450318
<b>OXT</b>	3.612412722	3.506722204	-0.042839584	0.051646732
<b>GLRA2</b>	2.023611099	2.182028218	0.108737702	0.005717823
<b>P11</b>	2.112710695	2.076784345	-0.024743812	0.363596966
<b>P2RX1</b>	2.529362715	2.465741535	-0.036752356	0.468855746
<b>P2RX2</b>	2.767532417	2.768139901	0.000316642	0.449603535

P2RX3	2.867642457	2.808244394	-0.030196662	0.224169454
P2RX4	3.00186445	3.072708563	0.033652105	0.852241297
P2RX5	2.980255252	3.022308169	0.020214873	0.506923695
P2RX6	2.082334007	2.016736648	-0.046178791	0.523850531
P2RX6P	2.413110762	2.487327176	0.043702151	0.101483591
P2RX7	4.657428583	4.368718535	-0.092323487	0.052145926
P2RY1	4.779392762	4.945187585	0.049197917	0.111656041
P2RY10	2.118874238	2.080200246	-0.026575549	0.567867054
P2RY12	2.252655828	2.163107373	-0.058521628	0.086731457
P2RY13	2.715466921	2.581034169	-0.073251048	0.272702216
P2RY14	4.717691675	4.48877169	-0.071760415	0.292473754
P2RY2	5.156871252	5.363049972	0.056557669	0.008791702
P2RY4	2.376711053	2.411813831	0.02115203	0.671377952
P2RY5	6.000218689	5.804453831	-0.04785476	0.400388736
P2RY6	4.703908325	4.788895761	0.025833089	0.817237412
P2RY8	4.908464258	4.727500768	-0.054194018	0.537870815
P4HA1	4.651927053	4.429171507	-0.070791611	0.025820288
P4HA2	6.347996755	6.114178127	-0.054142807	0.057001996
P4HA3	3.735363755	3.510454535	-0.089590898	0.075219776
P4HB	10.79697034	10.80805636	0.001480557	0.864699659

P4HTM	9.035688596	9.158987585	0.019553584	0.04543882
P53AIP1	2.073827887	2.060808761	-0.009085534	0.85982135
P704P	2.143253444	2.139449704	-0.002562698	0.808673801
P76	4.198866596	4.308280099	0.037112096	0.032417458
PA2G4	7.895558828	7.945090521	0.009022277	0.363596108
PAAF1	5.985696649	6.101967599	0.027755353	0.145889946
PABPC1	11.24528468	11.23636446	-0.001144858	0.872843195
PABPC1L	3.637915603	3.491769662	-0.05915368	0.011018968
PABPC1L2B	2.59192551	2.626966782	0.019373701	0.490288667
PABPC3	5.095550821	5.042942514	-0.014972328	0.362505105
PABPC4	3.283826576	3.314900479	0.01358762	0.358880592
SLAIN1	4.978393894	5.368284958	0.108780872	0.008773942
PABPC5	2.118767119	2.098652746	-0.013761554	0.819381802
PABPN1	9.639071762	9.605146972	-0.005086533	0.624278245
PACRG	3.508867457	3.709381014	0.080173011	0.029263021
PACRGL	2.704700464	2.70958812	0.002604737	0.830123302
PACS1	6.072891397	6.164734162	0.021655114	0.100909068
PACS2	6.228467152	6.318009134	0.020592868	0.458754893
PACSIN1	10.62439859	10.8140947	0.025531718	0.389650033
PACSIN2	5.34088147	5.424524106	0.022418708	0.298844504

PACSN3	4.462860152	4.708152056	0.077192316	0.008442382
PADI1	1.900121742	1.94222812	0.031620803	0.667860235
PADI2	3.710017821	3.89268043	0.069337794	0.013036559
PADI3	1.932404358	1.965633915	0.024597644	0.518474059
PADI4	2.054198675	1.946742232	-0.077513851	0.00592667
PAEP	1.975096762	1.936081225	-0.028783854	0.445478832
PAF1	7.252381219	7.263299803	0.002170369	0.616489525
PAFAH1B1	7.711185947	7.713951915	0.000517396	0.912111111
PAFAH1B2	7.45149655	7.398466063	-0.010304019	0.159953888
PAFAH1B3	6.997032947	7.042942676	0.009435055	0.648892855
PAFAH2	3.299997119	3.358512676	0.025357709	0.399230559
PAG1	8.655896457	8.610718014	-0.007549698	0.415631208
PAGE1	1.847379603	1.897947697	0.038959892	0.447538915
PAGE2	2.197852834	2.163027239	-0.023042955	0.833890699
PAGE2B	1.930366649	1.944173979	0.010282432	0.876107019
PAGE4	1.955343689	1.925009113	-0.022556936	0.841436464
PAGE5	2.262063775	2.22329107	-0.024942768	0.582922905
PAH	2.158010768	2.233774296	0.049781357	0.267607422
PAICS	6.693199185	6.771893627	0.016863363	0.061076007
PAIP1	7.156243232	7.291761648	0.02706498	0.121119244

PAIP2	9.752443583	9.748701479	-0.000553682	0.94994446
PAIP2B	6.449913629	6.453623155	0.000829496	0.649389121
PAK1	3.725792629	3.791214592	0.02511274	0.237045918
PAK1IP1	5.774842748	5.77552831	0.00017126	0.637521162
PAK2	6.623125358	6.66056631	0.008132682	0.663348015
PAK3	2.401509424	2.586458099	0.10703635	0.035314718
PAK4	3.68023651	3.744927972	0.025139487	0.388895418
PAK6	3.61540102	3.783090296	0.065409532	0.02232554
PAK7	3.401107113	3.615208486	0.088074406	0.287130182
PALB2	2.936366377	2.905613099	-0.015189376	0.559016499
PALLD	8.912359576	8.877261423	-0.005692757	0.658847663
PALM	9.837931808	9.896178493	0.008516467	0.246194695
PALM2	2.014478132	1.983681359	-0.022225842	0.277862105
PALM2-AKAP2	10.15193595	10.06212465	-0.012819905	0.151121273
PALM3	2.969377338	3.051563655	0.039388248	0.524300056
PALMD	4.112874881	4.177225141	0.022397719	0.390796937
PAM	8.114028351	8.094371183	-0.003499335	0.449603481
PAN2	5.451860993	5.360041859	-0.024504511	0.089951929
PAN3	5.147800854	5.089986923	-0.016294293	0.280621146
PANK1	2.514138887	2.40332188	-0.065034467	0.089170541

PANK2	5.625665417	5.542952676	-0.021369061	0.14994734
PANK3	3.577025682	3.563603796	-0.005423531	0.96973411
PANK4	5.699218728	5.745910627	0.011771391	0.759381425
PANX1	3.158503762	3.164602359	0.002782942	0.672384378
PANX2	3.234509106	3.394998296	0.069864076	0.041706566
PANX3	2.171797642	2.178690127	0.004571332	0.775714583
PAOX	6.687747457	6.876637324	0.04018289	0.001708316
PAP2D	2.203467616	2.273511296	0.045146478	0.345667957
PAPD4	5.368503457	5.336398894	-0.008653462	0.603923085
PAPD5	4.610187238	4.763410951	0.047169673	0.123959533
PAPLN	4.53905953	4.721422937	0.056828313	0.009741646
PAPOLA	6.76231253	6.673187303	-0.019140696	0.086731081
PAPOLB	1.932974795	1.94950788	0.012287161	0.323218832
PAPOLG	4.812083351	4.690856662	-0.036810215	0.001606715
PAPPA	2.755194901	2.749296225	-0.003092018	0.713104387
PAPPA2	2.013726437	2.04928019	0.025249544	0.866328879
PAPSS1	6.110315086	6.176742887	0.015599502	0.217664471
PAPSS2	5.367653093	5.050563852	-0.087846973	0.115432672
PAQR3	4.845819781	4.896721979	0.015075535	0.497694138
PAQR4	6.649416987	6.790357965	0.030259778	0.292157545

PAQR5	2.12498794	2.160118141	0.023655564	0.20334364
PAQR6	7.225177629	7.492046014	0.052326704	0.047331857
PAQR7	2.491335934	2.517408754	0.015019918	0.321869025
PAQR8	5.262561543	5.10466781	-0.04394812	0.092999391
PAQR9	4.597790616	4.787381831	0.05829611	0.340052258
PAR5	1.885565662	1.912160415	0.020206168	0.962585108
PARD3	4.667641689	4.64608743	-0.006677514	0.962585121
PARD3B	3.287031225	3.178701275	-0.048347719	0.129446046
PARD6A	4.523223901	4.685082641	0.050723085	0.135661124
PARD6B	6.094815086	6.190419479	0.022454723	0.560874447
PARD6G	10.45204205	10.44042856	-0.001603901	0.646410845
PARG	2.643104146	2.633867599	-0.005050447	0.981287417
PARK2	2.50446298	2.52631031	0.012530572	0.302711871
PARK7	11.45893195	11.50710325	0.006052121	0.257609404
PARL	5.140983219	5.288793859	0.040894442	0.028008143
PARN	5.583827775	5.628329613	0.011452375	0.34849779
PARP1	8.748065901	8.753871486	0.000957116	0.998899159
PARP10	11.72336059	11.74616708	0.002803876	0.896808187
PARP11	2.848832278	2.728571331	-0.062224928	0.001302668
PARP12	4.124009093	4.082712373	-0.01451958	0.768325552

PARP14	4.21858096	4.160513324	-0.01999625	0.784714537
PARP15	2.080130126	2.019684183	-0.042544064	0.251290639
PARP16	4.241831881	4.200699366	-0.014057903	0.380970668
PARP2	7.661503762	7.692393408	0.005804963	0.722901924
PARP3	5.322912146	5.284145028	-0.010545692	0.279392541
PARP4	4.240600093	4.14191057	-0.033972033	0.063398534
PARP6	7.591473179	7.615382387	0.004536602	0.56133877
PARP8	3.484433768	3.418560042	-0.027535468	0.235953439
PARP9	5.327986881	5.259052289	-0.018787689	0.41721452
PARS2	5.487920801	5.591307585	0.02692605	0.032585338
PART1	1.948914629	1.906678655	-0.031609178	0.179450893
PARVA	6.89521047	6.733197254	-0.034302859	0.084346597
PARVB	4.56666894	4.524267394	-0.013458007	0.526549448
PARVG	3.528717907	3.360827254	-0.070327713	0.067430911
PASD1	1.869381411	1.834203268	-0.027407425	0.955988714
PASK	4.01914955	4.017377493	-0.000636229	0.878282615
PATE1	1.920952596	1.936888563	0.011919035	0.717739665
PATL1	4.22873047	4.279550268	0.017234584	0.445890253
PATZ1	5.335575715	5.415168951	0.021362402	0.16388682
PAWR	5.657446987	5.514471873	-0.036928437	0.888083756



PAX1	2.020944119	1.988225246	-0.023548221	0.756756773
PAX2	1.927368371	1.857497289	-0.05327223	0.179898339
PAX3	4.314724172	4.033761345	-0.097142605	0.173055079
PAX4	3.600168119	3.630587563	0.01213877	0.745242135
PAX5	2.229508086	2.190317317	-0.02558554	0.405821699
PAX6	5.61689104	6.023679641	0.100873228	0.084346782
PAX7	2.152691709	2.187334387	0.023032065	0.15730538
PAX8	3.556431397	3.756051317	0.078786439	0.059567779
PAX9	2.161765298	2.14207493	-0.013200952	0.872845526
PAXIP1	6.095779868	6.098824254	0.000720338	0.849537289
PBK	2.122596841	2.086227359	-0.024933984	0.960935775
PBLD	3.758761695	3.957388211	0.074291146	0.001049959
PBOV1	2.318185636	2.260000697	-0.036672881	0.23296731
PBRM1	3.595892887	3.562968028	-0.01327051	0.411298172
PBX1	7.125444735	7.14095819	0.003137608	0.661846614
PBX2	4.518462921	4.582654465	0.020351426	0.453334831
PBX3	5.973546993	6.043152683	0.016713558	0.786305742
PBX4	5.647142106	5.597865507	-0.012644111	0.938414208
PBXIP1	6.210271609	6.384905239	0.040008842	0.03286693
PC	8.48474557	8.464325542	-0.003476283	0.802265747

PCBD1	8.369936232	8.2881765	-0.014161905	0.305959025
PCBD2	4.530716179	4.688366451	0.04934622	0.008511224
PCBP1	10.68649417	10.63339294	-0.007186626	0.178329452
PCBP2	6.607781344	6.667017014	0.012875461	0.294374907
PCBP3	5.262003709	5.577689866	0.084055454	0.031262905
PCBP4	12.41482392	12.59383191	0.020653517	0.224091364
PCCA	7.525370497	7.508607155	-0.003217299	0.803332954
PCCB	5.267729278	5.46484512	0.052999405	0.008039563
PCDH1	3.289799007	3.245534556	-0.019543327	0.601039495
PCDH10	2.683193344	2.759237415	0.040318582	0.193002947
PCDH11X	1.899854238	1.867307944	-0.024928869	0.957637545
PCDH11Y	2.62692596	2.697394197	0.038190834	0.251861337
PCDH12	4.042878894	3.743940732	-0.110825391	0.057634648
PCDH15	2.512562841	2.503427648	-0.005254919	0.981837695
PCDH17	7.166554821	7.117844141	-0.009839396	0.602961313
PCDH18	4.400570007	4.231235423	-0.05661145	0.234050099
PCDH19	3.045257775	3.2996615	0.115753677	0.037534999
PCDH20	2.224754212	2.183680704	-0.026884036	0.549773425
PCDH21	7.684628	7.836410739	0.028217594	0.569270456
PCDH24	2.421981053	2.48156319	0.035061613	0.301741981

PCDH7	3.684211066	3.682992254	-0.000477352	0.747331372
PCDH8	4.120764079	4.598776859	0.158338328	0.043827113
PCDH9	5.51542496	5.605544225	0.023382398	0.787367034
PCDHA1	5.209803808	5.43806038	0.061863126	0.154090836
PCDHA11	5.676892887	5.930761042	0.063115724	0.109804742
PCDHA5	4.859745245	5.036523894	0.051547671	0.214846008
PCDHA8	3.463583974	3.55794988	0.038780536	0.117843625
PCDHA9	1.896618053	1.918021282	0.016189555	0.195849242
PCDHAC1	2.404551225	2.397003599	-0.004535586	0.693651825
PCDHAC2	2.892477285	2.969794014	0.038057239	0.303359461
PCDHB1	1.954362868	1.934985331	-0.014375729	0.869043021
PCDHB10	2.948388781	2.962349676	0.006815172	0.54289067
PCDHB11	6.099887881	6.163473739	0.014960959	0.080928654
PCDHB12	3.024906907	3.03560819	0.005094849	0.831199316
PCDHB13	3.876135298	3.923970472	0.017695256	0.168957609
PCDHB14	4.441099252	4.505083599	0.020637064	0.457918705
PCDHB15	3.279149358	3.247076056	-0.014180437	0.709506429
PCDHB16	4.715291272	4.751157366	0.010932101	0.581503548
PCDHB17	1.957557914	1.987826901	0.022137144	0.340401545
PCDHB18	2.179013755	2.181707894	0.001782651	0.933476382

PCDHB19P	1.801640914	1.790570423	-0.008892235	0.36835227
PCDHB2	3.761621576	3.745415908	-0.006228788	0.67742496
PCDHB4	3.183839106	3.132125958	-0.0236252	0.475657306
PCDHB5	3.724334152	3.80615812	0.031352978	0.133326034
PCDHB6	2.13837198	2.058155838	-0.055160615	0.021963945
PCDHB7	5.253581669	5.222147401	-0.008658146	0.802266047
PCDHB8	2.681363483	2.750913627	0.036944039	0.191356881
PCDHB9	4.431308013	4.436680415	0.001748026	0.823674453
PCDHGA12	2.984914212	2.938959796	-0.022383845	0.33900566
PCDHGA2	4.257552318	4.196626373	-0.020794233	0.225222775
PCDHGA3	2.956090212	2.947801937	-0.004050705	0.917584033
PCDHGA5	1.85836145	1.89763193	0.030169058	0.433639102
PCDHGA7	3.120279921	3.195632655	0.034426118	0.025820129
PCDHGA8	7.999186921	8.04593038	0.00840589	0.108279812
PCDHGA9	2.09939053	2.054066782	-0.031487475	0.216380332
PCDHGB1	2.142268887	2.057461	-0.058274488	0.052733403
PCDHGB2	2.072243828	2.119137965	0.03228375	0.631131049
PCDHGB3	2.005778331	1.982746352	-0.016662046	0.411298284
PCDHGB4	2.773805	2.745029803	-0.015044556	0.848456329
PCDHGB6	2.077055755	2.082905423	0.00405739	0.959836253

PCDHGB7	2.021792477	1.963483099	-0.042219743	0.432020201
PCDHGB8P	1.855298815	1.858509099	0.002494185	0.842515551
PCDHGC3	2.18471398	2.095862732	-0.059900185	0.183280935
PCDHGC4	1.95454351	1.954406683	-0.000100999	0.895173056
PCDHGC5	2.056236411	2.042719669	-0.009514914	0.827434914
PCF11	5.665021656	5.624522437	-0.010350865	0.459173093
PCGF1	5.123435656	5.110382423	-0.003680317	0.876107078
PCGF2	3.018576053	3.12821681	0.051472356	0.020947577
PCGF3	5.841184775	5.799057915	-0.010442476	0.186710379
PCGF5	6.377682947	6.418834169	0.009278911	0.170888723
PCGF6	4.448551556	4.515512331	0.021554013	0.2176648
PCID2	5.109690384	5.009368239	-0.028607207	0.049449826
PCIF1	4.469960225	4.519262437	0.015825344	0.266418481
PCK1	2.552084543	2.581572704	0.016574107	0.965334431
PCK2	7.76266547	7.799173817	0.006769188	0.894081778
PCL0	3.541642556	3.678862923	0.054841307	0.09034505
PCM1	7.317965497	7.389503789	0.014034876	0.25243192
PCMT1	6.215398596	6.305889732	0.020853028	0.159954586
PCMTD1	5.492051914	5.425209634	-0.017666377	0.367251396
PCMTD2	7.015962053	7.095259718	0.01621455	0.516688061

PCNA	8.335046066	8.414350852	0.013661802	0.533327376
PCNP	8.864703093	8.85345181	-0.001832264	0.746286286
PCNT	5.00132947	4.974330359	-0.007809324	0.302711756
PCNX	5.351152232	5.276692641	-0.020215621	0.068471318
PCNXL2	6.203742013	6.328476465	0.028719531	0.434449701
PCNXL3	3.154495225	3.187512176	0.015021686	0.280928467
PCOLCE	7.626459887	7.252376923	-0.072559623	0.118492899
PCOLCE2	5.790070801	6.125264317	0.081191111	0.005939184
PCP2	9.181525576	9.392158641	0.032722889	0.268799891
PCP4	11.90311088	12.1235969	0.026479118	0.042965318
PCP4L1	6.721924192	6.965131056	0.051276226	0.46927884
PCSK1	4.779897669	5.044148754	0.077631089	0.355278833
PCSK1N	8.084208636	8.149995106	0.011692638	0.417610263
PCSK2	5.530305066	5.828532549	0.075773636	0.048498942
PCSK4	5.57478847	5.604390049	0.007640302	0.91047016
PCSK5	7.788546987	7.829005401	0.007474831	0.35924163
PCSK6	2.612308424	2.739485317	0.068579631	0.014687341
PCSK7	4.475290265	4.444793563	-0.009864843	0.347435119
PCSK9	1.995868225	1.936080183	-0.043877768	0.091664267
PCTK1	5.196957179	5.238842113	0.011580811	0.62476802

PCTK2	2.603018384	2.61716857	0.00782135	0.998899159
PCTK3	2.936093404	2.898394317	-0.018643982	0.870672344
PCTP	6.593016232	6.362345852	-0.051379835	0.018967035
PCYOX1	7.294168298	7.348387465	0.010684211	0.093537478
PCYOX1L	7.148621113	7.348710634	0.039826155	0.14531706
PCYT1A	3.764161166	3.72809381	-0.013890237	0.965334427
GFAP	8.437723291	9.099298775	0.108901594	0.00055217
PCYT2	5.622635848	5.678978155	0.014384749	0.228671588
PDAP1	6.300900954	6.429004176	0.029037156	0.076701405
PDC	5.88549355	6.033352824	0.035796549	0.708993036
PDCD1	3.930408285	3.800596021	-0.048453501	0.194422432
PDCD10	7.484938927	7.468839613	-0.003106427	0.502517149
PDCD1LG2	1.983470987	1.944409894	-0.028694914	0.744198248
PDCD2	6.387068384	6.334357155	-0.011955683	0.140983046
PDCD2L	5.909693179	5.881495042	-0.006900304	0.858195904
PDCD4	7.638460311	7.580270859	-0.011032463	0.405431852
PDCD5	7.491417219	7.458734401	-0.006307817	0.473525586
PDCD6	9.725406172	9.647125965	-0.0116593	0.267605196
PDCD6IP	6.577761589	6.515214796	-0.013783976	0.061076007
PDCD7	8.457801139	8.367064218	-0.015561132	0.052564415

PDC1	6.423135742	6.352528613	-0.015946817	0.347081469
PDC2	1.850019166	1.885628951	0.027505597	0.593857766
PDC3	6.918872589	6.930140754	0.00234768	0.860905274
PDC4	8.992188384	9.060864141	0.010976388	0.102493612
PDE10A	2.09274598	2.105656063	0.0088726	0.7588562
PDE11A	2.563517205	2.729082303	0.090291323	0.039211523
PDE12	3.592202424	3.682027359	0.035631697	0.106324013
ZIC4	2.362020238	2.548715056	0.109748764	0.012491532
PDE1B	3.720938099	3.680802796	-0.015645933	0.510906605
PDE1C	3.497637073	3.324171634	-0.073385725	0.03309368
PDE2A	8.134643589	7.82577512	-0.055845483	0.044189088
PDE3A	2.439706583	2.489471768	0.029132005	0.390796937
PDE3B	3.272260974	3.059849528	-0.096827104	0.07973633
PDE4A	7.932189086	7.967936225	0.006487032	0.626234075
PDE4B	4.81967245	4.906799754	0.025847293	0.114320891
PDE4C	6.755642656	6.623301507	-0.028542483	0.141729604
PDE4D	3.154222278	3.240080563	0.038745355	0.108887897
PDE4DIP	5.203253993	5.196405718	-0.001900057	0.694161227
PDE5A	3.131109265	2.936782972	-0.0924372	0.020833051
PDE6A	11.27162328	11.40081919	0.016442191	0.645847116



PDE6B	8.264622364	8.461405556	0.033948435	0.458336209
PDE6C	4.975509391	4.975118577	-0.000113324	0.889719022
PDE6D	5.895591543	5.977725148	0.019959989	0.688565414
PDE6G	9.001267881	8.972753387	-0.004577468	0.630149851
PDE6H	9.842926934	9.86870969	0.003774083	0.976885389
PDE7A	2.971787464	2.970311655	-0.00071663	0.661846652
PDE7B	2.540323901	2.389365556	-0.088384865	0.113060716
PDE8A	3.36402749	3.428111958	0.027224732	0.383977835
PDE8B	8.202357159	8.488049803	0.049394556	0.000404911
PDE9A	5.570096795	5.672713585	0.026336626	0.140054163
PDGFA	6.106263675	5.916485127	-0.045549536	0.101916415
PDGFB	3.441354079	3.305171014	-0.058251417	0.142667103
PDGFC	4.576557225	4.584936739	0.002639108	0.832275685
PDGFD	3.750444152	3.581190894	-0.066622036	0.344258808
PDGFRA	6.243017675	5.86953281	-0.088997875	0.045588381
PDGFRB	8.433490649	8.215204155	-0.037833463	0.318510251
PDGFRL	5.007586291	4.83701831	-0.049997378	0.177004539
PDHA1	9.052823629	9.084174923	0.004987639	0.581502827
PDHA2	1.930290695	1.955160415	0.018468853	0.846835317
PDHB	6.811306424	6.892645415	0.017126262	0.17283735

PDHX	6.222255974	6.280146845	0.013360547	0.628191085
PDIA2	3.942449232	4.074867937	0.047661126	0.343555352
PDIA3	8.447486351	8.408830465	-0.006616956	0.633094007
PDIA4	6.555029715	6.293150507	-0.058819874	0.05115171
PDIA5	6.779761424	6.786870134	0.001511901	0.844134911
PDIA6	7.624290642	7.480019127	-0.027561158	0.050823696
PDIK1L	5.142342119	5.239509585	0.027006187	0.263756573
PDILT	1.810919854	1.760394852	-0.04082364	0.522952124
HCG4	3.047271238	3.290815035	0.11092702	0.013734116
PKD2	7.098552589	7.137415838	0.007876943	0.457500503
PKD3	2.827617026	2.856603965	0.014714303	0.684506273
PKD4	6.023480854	5.804835345	-0.053342288	0.619406507
PDLIM1	6.060666722	6.057277183	-0.000807079	0.845754948
PDLIM2	4.460232106	4.44821343	-0.003892777	0.898993936
PDLIM3	7.136913815	7.168865345	0.006444443	0.531968406
PDLIM4	8.68139755	8.712632366	0.00518136	0.667357961
PDLIM5	7.169166126	7.070090232	-0.020076695	0.259943162
PDLIM7	3.477704391	3.324978268	-0.064790396	0.070914203
PDP2	3.379847212	3.399056549	0.008176334	0.634568614
PDPK1	7.228184212	7.198811035	-0.005874625	0.365786909

PDPN	7.005847589	7.280963563	0.055569786	0.033781598
P DPR	5.982918768	5.974127127	-0.002121537	0.947747454
PDRG1	7.779848305	7.712760514	-0.01249471	0.048813823
PDS5A	6.153824629	6.080927887	-0.01719185	0.232427083
PDS5B	6.625114503	6.662939254	0.008213351	0.846294943
PDSS1	4.23659549	4.367261204	0.043823434	0.035434994
PDSS2	4.940867523	4.933891014	-0.002038526	0.76148299
PDX1	1.941385815	1.919970739	-0.016002531	0.448777234
PDXDC1	6.734970887	6.662523655	-0.015602959	0.031808193
PDXDC2	4.61336245	4.484418423	-0.040897746	0.009548464
PDXK	7.587775762	7.640763944	0.010039846	0.473525744
PDXP	5.656227616	5.798409577	0.035817066	0.40894588
PDYN	1.92461953	1.912024479	-0.00947228	0.454166356
PDZD11	7.769146695	7.820136915	0.009437714	0.111811043
PDZD2	6.435684199	6.473748035	0.008507681	0.808139371
PDZD3	2.017846026	2.002194556	-0.011233923	0.968084113
PDZD4	3.365006099	3.556119458	0.079694668	0.034072028
PDZD7	11.12132071	11.00400268	-0.015299729	0.158519735
PDZD8	5.572912887	5.678680324	0.027124097	0.165985715
PDZK1	3.189806364	3.223454289	0.015138677	0.643443872

PDZK1IP1	2.518141642	2.617969824	0.056089033	0.171536906
PDZRN3	4.016719371	4.010067176	-0.002391266	0.938962973
PDZRN4	4.661111364	4.354175014	-0.098274585	0.031808274
PEA15	10.71013902	10.74017168	0.004039848	0.98238792
PEAR1	3.074994364	2.997677965	-0.036738361	0.187402373
PEBP1	12.99149664	13.13006021	0.015305892	0.006479178
TEKT2	2.794675517	3.018041697	0.110931953	0.005839872
PECAM1	7.860962298	7.585306683	-0.051498419	0.2541522
PECI	9.717711868	9.685281585	-0.004822663	0.226277303
PECR	3.438813623	3.424706915	-0.005930398	0.292157142
PEF1	6.941416305	7.007673254	0.013705452	0.408163454
PEG10	4.225027854	4.439669049	0.071491284	0.123959533
PEG3	3.393422285	3.509389754	0.048479209	0.284018182
PELI1	4.348407556	4.338140218	-0.003410479	0.577255067
PELI2	6.785021682	6.869398641	0.017830383	0.282161765
PELI3	7.858812503	7.975322169	0.021231467	0.252718371
PELO	6.90250006	6.818486141	-0.017667532	0.040140123
PELP1	7.159052185	7.130631648	-0.005738717	0.456665868
PEMT	6.251216291	6.336418176	0.01953063	0.12161661
KCNAB3	3.318274788	3.584462979	0.11132363	0.004394127

PEPD	8.831096146	8.846848063	0.002571025	0.678433946
PER1	7.74062553	7.666160077	-0.013946034	0.300129965
PER2	5.323546265	5.325019965	0.000399321	0.868500108
PER3	4.219753205	4.332702127	0.03810843	0.146656337
PERLD1	6.728329834	6.876397232	0.031404457	0.007560343
PERP	7.817883073	7.917981782	0.018354741	0.060035543
PES1	3.813153927	3.884547542	0.026761799	0.171105023
PET112L	6.859752026	7.119193127	0.053557313	0.061362776
PEX1	4.899083887	5.007783176	0.031660103	0.128403035
PEX10	4.58119349	4.712368056	0.040728727	0.014631294
PEX11A	4.649186728	4.62184638	-0.008509062	0.783653915
PEX11B	5.868726497	5.888733197	0.004909835	0.261698364
PEX11G	3.258617007	3.424718711	0.071725699	0.006526633
PEX12	5.662581377	5.551910901	-0.028475463	0.053071435
PEX13	4.501129556	4.421218296	-0.025843122	0.022815815
PEX14	9.431067291	9.52808881	0.014765814	0.54747324
PEX16	5.149871709	5.421446415	0.074141314	0.001277846
PEX19	7.10794545	7.170662331	0.012673773	0.136385517
PEX26	8.10874457	8.164622289	0.009907578	0.347435349
PEX3	4.116482894	4.227799754	0.038494815	0.090476192

PEX5	3.267363139	3.347980789	0.035164443	0.229739999
PEX5L	2.825049192	2.905729134	0.040624235	0.279086306
PEX6	7.384073768	7.216850585	-0.03304758	0.051398639
PEX7	6.39567106	6.557487782	0.036047474	0.03093941
PF4	3.880346596	3.708530359	-0.065337942	0.358158513
PF4V1	2.084757046	1.984638423	-0.071003075	0.370559941
PFAS	4.492810987	4.487855923	-0.001592008	0.988441576
PFDN1	7.629292682	7.648119901	0.003555831	0.513125395
PFDN2	9.418053391	9.380609676	-0.00574721	0.587188814
PFDN4	5.801458152	5.787678479	-0.003430778	0.558552455
PFDN5	10.87471637	10.86228265	-0.001650464	0.764633408
PFDN6	7.262128795	7.42684507	0.032356966	0.078674765
PFKFB1	2.058304477	2.035184965	-0.016296493	0.847915902
PFKFB2	4.972553384	5.039841782	0.019391584	0.326269182
PFKFB3	5.849436616	5.911357028	0.015191678	0.562734958
PFKFB4	5.747134139	6.033949282	0.070259848	0.063300402
PFKL	6.932502934	7.079482951	0.030267675	0.073650215
PFKM	10.25544708	10.35332344	0.013703563	0.677929036
PFKP	10.21444734	10.45944798	0.034195563	0.179003601
PFN1	6.218590775	6.146131183	-0.016909121	0.17436334

PFN2	4. 866824	4. 957687697	0. 026686791	0. 359242261
PFN3	2. 067356815	2. 117781387	0. 03476626	0. 435667377
PFN4	2. 723132821	2. 709189669	-0. 007405952	0. 98954231
PFTK1	5. 724443589	5. 741010387	0. 004169195	0. 985689833
PFTK2	2. 052795967	2. 030515599	-0. 015744131	0. 428391268
PGA3	3. 637418126	3. 774541894	0. 053386784	0. 021450536
PGAM1	10. 02353393	10. 23229146	0. 029738026	0. 075105485
PGAM2	4. 38654594	4. 406880845	0. 006672511	0. 631621749
PGAM5	2. 788042828	2. 823252451	0. 018105415	0. 741590208
PGAP1	3. 38909702	3. 464139408	0. 031596053	0. 251005656
PGBD1	2. 106230265	2. 139638535	0. 022703924	0. 420788237
PGBD2	5. 016926066	4. 876589148	-0. 040931247	0. 032980023
PGBD3	4. 813348099	4. 9318675	0. 035093279	0. 043754789
PGBD4	3. 524067139	3. 588392211	0. 026096175	0. 40933712
PGBD5	3. 088845861	3. 284030437	0. 088399619	0. 162845352
PGC	2. 108357132	2. 062587894	-0. 031663665	0. 330365284
PGCP	6. 975314894	6. 822952408	-0. 031862194	0. 120788537
PGD	7. 779011079	7. 902873697	0. 02279059	0. 309558172
PGDS	3. 770149695	3. 55010481	-0. 086760189	0. 148198206
PGF	4. 932528066	4. 661454169	-0. 081547177	0. 140054447

PGGT1B	3.509149205	3.55432507	0.018454342	0.56087426
PGK1	9.900426821	10.00413485	0.015033781	0.733783396
PGK2	1.868962483	1.840684859	-0.021994963	0.829047766
PGLS	6.588577272	6.576054134	-0.00274479	0.785244798
PGLYRP1	2.397352139	2.273546338	-0.076497429	0.111811556
PGLYRP2	2.026752325	1.977517486	-0.035479346	0.542433357
PGLYRP3	2.020952291	1.979853655	-0.02964147	0.221551186
PGLYRP4	1.889504682	1.914071725	0.018636799	0.361778282
PGM1	7.912264046	7.980355486	0.012362441	0.416422476
PGM2	6.941198113	7.25890762	0.06456775	0.005399778
PGM2L1	6.954614583	6.9708345	0.003360812	0.932927868
PGM3	5.887356781	5.936644979	0.012027781	0.218179867
PGM5	4.285716033	4.336757901	0.017080646	0.386620931
PGP	4.450826974	4.540270275	0.028704764	0.105282116
PGPEP1	4.88365094	4.823622246	-0.017843158	0.486392246
PGR	2.298093358	2.311258859	0.008241442	0.766744881
PGRMC1	4.149958828	4.120368444	-0.010323674	0.574901073
PGRMC2	9.797012325	9.777978415	-0.002805635	0.340048284
PGS1	3.371688649	3.405263592	0.014295157	0.547014777
PHACTR1	3.425103192	3.410005042	-0.006373582	0.873932477



PHACTR2	5.313441232	5.04249081	-0.075509971	0.115911769
PHACTR3	4.112835139	4.246769803	0.046232666	0.528352712
PHACTR4	5.501029927	5.446578204	-0.014351606	0.335186145
PHAX	6.393057093	6.368891711	-0.005463635	0.78736701
PHB	7.541289669	7.504977197	-0.006963578	0.392321025
PHB2	10.34289421	10.35189096	0.001254381	0.559940325
PHC1	2.880820232	2.786838951	-0.047850004	0.010889189
PHC2	9.679558377	9.798582415	0.017631819	0.094348544
PHC3	3.125176715	3.142418845	0.007937716	0.765691449
PHEX	1.985228457	1.979886937	-0.003886994	0.902817133
PHF1	7.287546669	7.258154528	-0.005830445	0.625745295
PHF10	7.775426404	7.531202915	-0.046041478	0.020305492
PHF11	5.955999954	5.843467155	-0.027519113	0.216380058
PHF12	1.939238517	1.876268042	-0.047624314	0.071563092
PHF13	7.522553172	7.53841919	0.003039622	0.726005685
PHF14	4.779307834	4.717900056	-0.018656837	0.254152087
PHF15	3.679029483	3.572062852	-0.042567772	0.091399215
PHF16	3.542274934	3.556533746	0.005795661	0.746808903
PHF17	7.344107106	7.300529606	-0.008585973	0.451674252
PHF19	6.328253636	6.259543472	-0.015749983	0.1385778

PHF2	6.151890497	6.15687793	0.001169141	0.78100487
PHF20	5.095202344	5.157144683	0.01743308	0.240621401
PHF20L1	4.80536002	4.75546707	-0.015057476	0.284638668
PHF21A	4.740991265	4.713093204	-0.008514523	0.490722274
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PHF23	6.209828358	6.166021739	-0.010213416	0.295647378
PHF3	7.569455126	7.499980296	-0.013302649	0.206547609
PHF5A	3.557486318	3.614747254	0.023036568	0.149362603
PHF6	5.236996623	5.231225479	-0.001590719	0.906095925
PHF7	2.270649695	2.307644739	0.023315988	0.404265109
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PHGDH	7.252936987	7.094189507	-0.031927445	0.071998404
PHIP	8.249804815	8.240938472	-0.001551347	0.693142006
PHKA1	2.577915291	2.53959393	-0.021607024	0.305633678
PHKA2	7.236896457	7.225120768	-0.002349428	0.883725399
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EFHC2	2.452649053	2.649440521	0.111346925	0.000158775
PHKG2	6.009261735	6.072346627	0.015066386	0.177669019
PHLDA1	5.76616	5.840040958	0.018367618	0.25936025
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PHLDA3	6.641254132	6.64894781	0.001670348	0.996697487
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PHLPP	3.649599556	3.792089662	0.0552549	0.079736294
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PHOSPH01	2.033287417	2.012666239	-0.014706213	0.993945432
PHOSPH02	5.712734146	5.760945162	0.012124132	0.578669467
PHOX2A	12.06518985	12.06059735	-0.000549254	0.797996906
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PHPT1	9.674620709	9.658350472	-0.002428286	0.926896081
PHRF1	9.627385331	9.621181915	-0.000929902	0.741067246
PHTF1	3.31671594	3.322122324	0.002349738	0.838200627
PHTF2	3.864694079	3.858475415	-0.002323305	0.669366792
PHYH	6.646844954	6.764568	0.025328102	0.062908846
PHYHD1	7.640113682	7.780255704	0.026223466	0.036102945
PHYHIP	4.91427802	5.101494056	0.053940347	0.235136449
PHYHIPL	5.834667285	6.027084106	0.046809807	0.203834122
PI15	2.004243205	1.997079838	-0.005165574	0.932927899
PI16	7.650289424	7.288539563	-0.069884564	0.092999313

PI3	2.883912636	2.947952239	0.03168569	0.973034538
PI4K2A	6.637240384	6.677196197	0.008658906	0.732745452
PI4K2B	3.206148974	3.243660873	0.016781531	0.760957406
PI4KA	8.699103192	8.768703697	0.011496902	0.225486049
PI4KAP2	3.863811258	3.874724289	0.004069035	0.875019652
PI4KB	6.66326006	6.640834845	-0.004863582	0.779416788
PIAS1	7.533372192	7.541530711	0.00156157	0.737944033
PIAS2	4.419674424	4.50823838	0.028623705	0.038624054
PIAS3	7.059247232	7.032076704	-0.005563542	0.320858611
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PIBF1	5.235897338	5.183880218	-0.014404427	0.431616243
PICALM	4.397272444	4.392458549	-0.001580249	0.581030383
PICK1	3.111539808	3.178960852	0.030926547	0.107675341
PID1	7.963576841	7.664005063	-0.055318049	0.032754065
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PIGB	4.229796291	4.357617007	0.042951219	0.007151108
PIGC	5.986733384	5.981786852	-0.001192518	0.743676157
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PIGK	6.667463285	6.631489437	-0.007805038	0.211800864
PIGL	3.174370258	3.194038359	0.008911225	0.517134461
PIGM	5.545323583	5.649147451	0.02676151	0.175021289
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PIGO	6.277168848	6.305839923	0.006574531	0.511349749
PIGP	7.361449563	7.42340043	0.012090313	0.318176154
PIGQ	6.22822194	6.288459528	0.013886291	0.291525069
PIGR	2.015833815	1.961850599	-0.039161528	0.290265348
PIGS	4.438067781	4.542441444	0.033536215	0.202365147
PIGT	9.133008967	9.120057556	-0.002047321	0.786835855
PIGU	3.098411278	3.141748352	0.02003897	0.353486395
PIGV	5.044295967	4.984918099	-0.017083125	0.240621401
PIGW	2.412303483	2.398119845	-0.00850766	0.952142128
PIGX	5.193934854	5.392642972	0.054164602	0.037725249
PIGY	8.886378715	8.851057394	-0.005745809	0.489419534
PIGZ	6.99754543	7.226239944	0.046396211	0.08572073
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PIH1D2	3.636912715	3.902885162	0.101826712	0.109040529
PIK3AP1	2.595933099	2.632651197	0.020263186	0.809208342

PIK3C2A	2.738530305	2.786982472	0.025302084	0.413658479
PIK3C2B	7.556163238	7.621360775	0.012394741	0.377605
PIK3C2G	1.888199073	1.889192345	0.000758719	0.70028457
PIK3C3	7.281834073	7.22430581	-0.011442903	0.440148844
PIK3CA	5.650701649	5.700845479	0.012745879	0.248734251
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PIK3R1	6.515987874	6.588889739	0.016051465	0.17744744
PIK3R2	3.020062152	2.976220113	-0.021097012	0.303359403
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PILRA	5.871015258	5.730706627	-0.034896964	0.032417438
PILRB	9.405818682	9.213452683	-0.029811623	0.005480562
PIM1	8.693732483	8.686821225	-0.001147356	0.926348511
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PIN1	7.652470371	7.71910188	0.012507445	0.35348628
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PIN4	4.010055987	4.15512357	0.051269003	0.110881745
PINK1	9.188184053	9.222375169	0.0053586	0.48380318
PINX1	4.892671788	4.957006254	0.018846572	0.379846491
PION	5.319551404	5.435483324	0.031103737	0.27633796
PIP	1.991976073	2.005782528	0.009964876	0.454582575
PIP3-E	1.902866722	1.861050035	-0.032057674	0.43404443
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PIP4K2B	7.269273483	7.240330585	-0.005755613	0.804934118
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PIP5K1A	5.901221185	5.974149197	0.017719734	0.505599456
PIP5K1B	6.288175901	6.420639148	0.030075344	0.136931343
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MAPK4	5.958617377	6.438140732	0.111666503	0.005742037
PIR	9.741536689	9.553899211	-0.028059712	0.052480274
PISD	4.457610079	4.521427472	0.020507896	0.3596037
PITPNA	9.872670099	9.975685056	0.014975599	0.465895931

PITPNB	7.680657166	7.654474366	-0.004926444	0.637028087
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PITPNM1	5.76534498	5.902836824	0.034001524	0.330022955
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PITX1	3.920029212	3.610788261	-0.118550583	0.038753978
PITX2	6.482823311	5.737582197	-0.176179336	0.023147892
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PIWIL1	2.968580325	3.058498408	0.043050375	0.473100379
PIWIL2	2.576614351	2.49451307	-0.046718393	0.205558133
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PIWIL4	3.999745742	3.972376676	-0.009905862	0.639986085
PJA1	7.994215795	7.949992239	-0.008003065	0.739505801
PJA2	7.973744709	7.979281246	0.001001382	0.664850505
PKD1	5.611534675	5.678553408	0.017128074	0.36105266
PKD1L1	1.969249205	1.976002648	0.004939187	0.509576767
PKD1L2	3.071797808	2.949892754	-0.058420753	0.120623559
PKD1L3	1.947612669	1.888321965	-0.044602021	0.269697306
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PKD2L1	4.12616147	4.346556613	0.075072656	0.294375195
PKD2L2	2.007694536	2.013232444	0.003973967	0.860363337
PKDREJ	2.363489013	2.389592556	0.01584649	0.567399715
PKHD1	2.095136596	2.113315387	0.012463783	0.496819775
DTNA	2.722083901	2.941787092	0.111981302	0.000798369
PKIA	6.336850391	6.603318338	0.059425243	0.407381752
PKIB	5.390288093	5.332177845	-0.015637483	0.784184277
PKIG	5.85918449	5.955297225	0.023473637	0.030778912
PKLR	2.110890576	2.060501563	-0.034856236	0.344258693
PKM2	9.301253298	9.497974183	0.030194709	0.154489133
PKMYT1	4.442549066	4.426537204	-0.005209163	0.754134866
PKN1	5.089491391	5.114745317	0.007140914	0.803866775
PKN2	11.51850274	11.5138344	-0.000584829	0.888627063
PKN3	3.272715212	3.101862028	-0.07735355	0.061938879
PKNOX1	5.761712543	5.770334197	0.002157192	0.775714583
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PKP1	2.675721225	2.759105613	0.044272867	0.207292661
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RIBC2	2.569240874	2.777989768	0.112699132	0.002810491
PKP4	4.439519483	4.425273894	-0.004636782	0.875019652

PL-5283	2.66215553	2.722899563	0.032548909	0.299808413
PLA1A	5.471339464	5.085440972	-0.10552119	0.150338621
PLA2G10	1.996756556	2.023581796	0.019252715	0.862531739
PLA2G12A	6.12919457	6.282043831	0.035536506	0.012298391
PLA2G12B	2.084074411	2.163191486	0.053754589	0.141169579
PLA2G15	5.558424967	5.516721852	-0.010864896	0.346374341
PLA2G16	11.30059899	11.44653421	0.0185116	0.181468927
PLA2G1B	2.720306649	2.773797768	0.028093318	0.321869083
PLA2G2A	7.22004104	6.858976951	-0.07401363	0.224959556
PLA2G2D	2.255456775	2.224925106	-0.019662864	0.53015887
PLA2G2E	2.022663298	1.945827176	-0.055872603	0.038044241
PLA2G2F	2.007905377	2.028813761	0.014945152	0.702842041
PLA2G3	2.35696951	2.361066937	0.002505847	0.661346777
CCRN4L	2.717898954	2.938826394	0.112748317	0.001633518
PLA2G4C	7.497167576	7.481050493	-0.003104781	0.553461583
PLA2G4D	3.067070053	3.043172507	-0.011285001	0.604885718
PLA2G4F	2.104709457	2.141637676	0.025093333	0.305307811
PLA2G5	9.240300079	9.171392063	-0.010798977	0.386998976
PLA2G6	5.282705146	5.255454697	-0.007461298	0.706427698
PLA2G7	4.467282258	4.189507556	-0.092616736	0.329680625

PLA2R1	2.400928742	2.474638239	0.043625051	0.157103083
PLAA	4.759537397	4.783430859	0.007224388	0.67540681
PLAC1	2.022393596	2.003381528	-0.013626603	0.705402474
PLAC1L	1.923644722	1.869879387	-0.040897157	0.650382197
PLAC2	4.047359702	4.202245528	0.054179386	0.299808586
ST8SIA5	3.105448576	3.358369915	0.11295947	0.013920241
PLAC8	3.754513119	3.595533746	-0.062419882	0.318176385
PLAG1	6.513056377	6.44574731	-0.014987083	0.388515621
TMPRSS3	2.391197437	2.586150894	0.113073199	0.000908314
PLAGL2	5.518161477	5.503948056	-0.00372082	0.826360123
PLAT	8.40169145	7.963125648	-0.077344983	0.081893837
PLAU	4.959409364	4.983473085	0.006983222	0.975235065
PLAUR	3.898248464	3.879110754	-0.00710008	0.846295106
PLB1	3.25723206	3.001048627	-0.118179812	0.032866951
PLCB1	5.400904616	5.511338106	0.029201566	0.39500028
PLCB2	2.756426199	2.71326919	-0.022766787	0.512237699
PLCB3	2.42807447	2.364241655	-0.038435166	0.189023131
PLCB4	6.352150662	6.438498866	0.019479233	0.25329144
PLCD1	7.03057704	7.052533577	0.004498525	0.664349838
PLCD3	3.534342404	3.614483887	0.032347846	0.327972026

PLCD4	8.49616306	8.486998359	-0.001557056	0.856029587
PLCE1	7.789357258	7.895951599	0.019608858	0.264937382
PLCG1	4.623037583	4.607176014	-0.004958375	0.962585094
PLCG2	5.11417406	5.002564197	-0.031833487	0.590043812
ZIM2	3.558008834	3.8492745	0.113516464	0.018310169
PLCH2	7.66245306	7.805633282	0.026709354	0.744198072
PLCL1	3.373726364	3.315012423	-0.025328688	0.259068878
PLCL2	4.081065722	4.012373	-0.024490215	0.324911027
PLCXD1	5.137142185	5.156102711	0.005314998	0.814558902
PLCXD2	3.468746815	3.488151662	0.008048227	0.63309421
PLCXD3	3.578140993	3.651327077	0.029210671	0.304982751
PLCZ1	1.958046093	1.835222563	-0.093459693	0.212053514
PLD1	4.107066159	3.878128007	-0.082747763	0.082745808
PLD2	2.641642728	2.564261951	-0.042891714	0.454582575
PLD3	5.929055967	5.891007331	-0.009288067	0.390796767
PLD4	2.260390788	2.241305493	-0.012232911	0.900086028
PLD5	3.370278106	3.450276465	0.033844324	0.765691693
PLD6	4.621136139	4.480499563	-0.044587994	0.024562157
PLDN	4.992370682	4.965994901	-0.007642278	0.588140811
PLEC1	5.035643252	4.997409521	-0.010995632	0.704890078

PLEK	3.666563232	3.460149796	-0.083593924	0.106025617
PLEK2	3.17825351	3.032683085	-0.06763946	0.111811599
PLEKHA1	7.583233079	7.467822521	-0.022125425	0.007165862
PLEKHA2	3.528019212	3.47985062	-0.019833041	0.571144554
PLEKHA3	5.61255649	5.607887859	-0.00120056	0.860905323
PLEKHA4	8.685834417	8.732893465	0.00779529	0.879914769
PLEKHA5	4.907037046	4.741133697	-0.049620086	0.003251518
PLEKHA6	8.331617159	8.173165866	-0.027701536	0.142479195
PLEKHA7	3.883919338	4.107990711	0.080919681	0.000449343
PLEKHA8	2.536774411	2.469914542	-0.038534103	0.282470749
PLEKHB1	5.532618788	5.689778423	0.040409949	0.188095783
PLEKHB2	8.336797987	8.442695831	0.018210361	0.355637641
PLEKHF1	5.846571722	5.83182712	-0.003642961	0.724453334
PLEKHF2	7.178265868	7.117467423	-0.012271374	0.230007698
PLEKHG1	3.88187451	3.890910296	0.003354239	0.937316685
PLEKHG2	5.679187702	5.414858662	-0.068760914	0.134041472
PLEKHG3	7.799369874	7.689012458	-0.020559254	0.321195186
PLEKHG4	5.536959642	5.540032676	0.000800479	0.913205464
PLEKHG4B	2.460293146	2.497902289	0.02188682	0.096405002
PLEKHG5	5.363633258	5.314368725	-0.013312266	0.552077163

PLEKHG6	2.414405603	2.40825669	-0.003678885	0.695690228
PLEKHH1	3.388211404	3.356325092	-0.013641432	0.726005811
PLEKHH2	2.966659073	2.807068782	-0.079774728	0.045290828
PLEKHH3	7.059267238	6.992584866	-0.013692579	0.320859188
PLEKHJ1	8.674756497	8.69232362	0.002918626	0.954889483
PLEKHM1	7.346455556	7.307096338	-0.007750133	0.375742129
PLEKHM1P	2.156626013	2.152479331	-0.002776632	1
PLEKHM2	5.65704396	5.679745514	0.005777908	0.710533906
PLEKHM3	6.265973881	6.410477796	0.032893134	0.143609307
PLEKHN1	2.686166219	2.703384331	0.009218049	0.767271664
PLEKH01	9.689775702	9.667973507	-0.003249751	0.760431045
PLEKH02	8.971796397	9.030581887	0.00942207	0.580557712
PLG	2.199726781	2.186262042	-0.008858013	0.668864631
PLGLB1	3.220996623	3.115356986	-0.048109658	0.40894588
PLIN	2.625555894	2.551754359	-0.041133452	0.181696679
PLK1	3.387093623	3.300405845	-0.037404424	0.086858542
PLK2	7.883849556	7.619025352	-0.049293791	0.073538969
PLK3	7.286971225	7.209456732	-0.015428744	0.747854278
PLK4	2.126504033	2.042987423	-0.057803269	0.101627567
PLK5P	7.289628642	7.185402887	-0.02077627	0.482512576

PLLP	3.212115007	3.133953324	-0.035539855	0.279699521
PLN	4.271658185	4.02082	-0.087306456	0.333804344
PLOD1	6.705022139	6.545250951	-0.034793588	0.101916251
PLOD2	7.771940464	7.997477873	0.041270247	0.091531741
PLOD3	8.555770563	8.36278969	-0.032913513	0.077393087
PLP1	5.336466285	4.999559465	-0.094083753	0.029314242
PLP2	4.087969576	4.051692627	-0.012859728	0.326609325
PLRG1	6.896302828	6.965883852	0.014483291	0.390416069
PLS1	4.93822351	5.098514493	0.046084828	0.285882562
PLS3	6.847350821	6.672061803	-0.037413278	0.19394851
PLSCR1	7.419379834	7.315761148	-0.020290628	0.396535177
PLSCR2	1.907662728	1.852502423	-0.042330699	0.121119332
PLSCR3	8.879824291	8.769454465	-0.018044032	0.296922548
PLSCR4	7.210107775	7.088245873	-0.024592176	0.228938567
PLTP	7.732950748	7.617767662	-0.021650737	0.701307241
PLUNC	1.995272656	1.990278944	-0.003615262	0.941707363
PLVAP	4.899540934	4.739967493	-0.047769416	0.619406507
PLXDC1	7.008831583	7.081801824	0.014942514	0.669367014
PLXDC2	5.728968093	5.734708197	0.001444776	0.544263761
PLXNA1	7.681949536	7.49247043	-0.036031002	0.029211722

PLXNA2	4.799585662	4.729798577	-0.02113112	0.279086306
PLXNA3	2.416069974	2.379727761	-0.021865699	0.935122049
PLXNA4	3.131104238	3.119287521	-0.005454999	0.786305593
PLXNB1	6.019400278	6.117658683	0.023359862	0.431212395
PLXNB2	8.270232748	8.301745662	0.005486802	0.924704447
PLXNB3	2.276553914	2.321515148	0.028215069	0.238142135
PLXNC1	3.295712132	3.105279162	-0.085867263	0.087751897
PLXND1	6.661753199	6.503564176	-0.034671326	0.735343212
PM20D1	1.885496503	1.925131113	0.03001223	0.445478886
PM20D2	6.314590987	6.465907113	0.034163493	0.020492502
PMAIP1	2.530218821	2.452262866	-0.045148524	0.50339707
PMCH	1.956258351	1.862713352	-0.070691232	0.077046666
PMCHL1	1.958169881	1.895982789	-0.046560063	0.240898181
PMEPA1	8.547742788	8.631201901	0.014017974	0.187171165
PMF1	5.948686113	6.074230901	0.030130696	0.063496918
PMFBP1	3.066738801	3.167490817	0.046635141	0.212812718
PML	5.767615576	5.717753965	-0.012526467	0.870672375
PMM1	8.100366543	8.04592357	-0.009729158	0.432828775
PMM2	5.704014921	5.69623381	-0.001969391	0.975235059
PMP2	3.404097894	3.584193761	0.074376105	0.295329333



PMP22	10.23037968	10.0152955	-0.0306547	0.164721971
PMP22CD	1.962406417	1.903941458	-0.043634737	0.292157142
PMPCA	7.863879245	7.869090408	0.000955715	0.883180777
PMPCB	8.916832881	8.982784817	0.010631396	0.23432046
PMS1	5.37738343	5.34385962	-0.009022236	0.538781731
PMS2	4.335297682	4.332213331	-0.001026772	0.905549243
PMS2CL	5.038097113	5.12369907	0.024306813	0.240345238
PMS2L1	6.556858762	6.559480282	0.000576694	0.970284156
PMS2L11	5.392789642	5.325955923	-0.017991271	0.217921977
PMS2L2	4.905413212	4.928099972	0.006656855	0.383600863
PMS2L3	6.322438848	6.308329634	-0.00322313	0.873932373
PMS2L5	6.009880377	5.935918585	-0.017864971	0.056553382
PMVK	8.493144901	8.485574303	-0.001286559	0.430404806
PNCK	2.515766305	2.534875338	0.010916886	0.786836376
PNKD	9.444001815	9.498381092	0.008283322	0.12194802
PNKP	4.491279291	4.499965535	0.002787513	0.927992959
PNLDC1	2.037191079	1.960503894	-0.055356797	0.527450564
PNLIP	1.958478265	1.91238719	-0.03435847	0.440148953
PNLIPRP1	1.905019887	1.948198197	0.032334397	0.297883356
PNLIPRP2	2.101874272	2.060592852	-0.0286169	0.581503503

PNMA1	10.5295614	10.54600898	0.002251787	0.795338705
PNMA2	4.73594202	4.85086162	0.034589606	0.740026918
PNMA3	9.27483857	9.400242415	0.01937579	0.319515079
PNMA5	8.819194993	8.89575512	0.0124701	0.492460215
PNMA6A	3.544134252	3.714779268	0.067843234	0.160365324
PNMAL1	8.084007497	8.259509641	0.030985473	0.225222886
PNMAL2	3.520234775	3.599560901	0.032149278	0.296285137
PNMT	4.453129391	4.436419493	-0.005423743	0.96973415
PNN	8.686219477	8.623583479	-0.010440909	0.083235392
PN01	5.185842424	5.330995923	0.039826709	0.074543617
PNOC	2.388528728	2.406660197	0.010910229	0.375371113
PNPLA1	1.85226151	1.92253019	0.053718455	0.085720655
PNPLA2	4.951236914	4.93145712	-0.005774994	0.6135798
PNPLA3	9.170841728	9.315106838	0.022518161	0.400002135
PNPLA4	7.277253205	7.383203486	0.020852912	0.01879201
PNPLA5	2.290505152	2.265839824	-0.01561993	0.873932492
PNPLA6	4.798971609	4.769014056	-0.009034243	0.588140722
PNPLA7	3.78625047	3.809428401	0.008804688	0.787897742
PNPLA8	6.405427272	6.444675225	0.008812849	0.890264073
PNPO	2.616241046	2.66195843	0.024992572	0.151319299

PNPT1	5.327673993	5.218364563	-0.029908068	0.010654696
PNRC1	10.37757024	10.4709225	0.012919854	0.121449326
PNRC2	7.781101874	7.691339373	-0.016739617	0.160364576
PODN	2.455058841	2.483983915	0.016898229	0.810812522
PODNL1	4.049293146	4.097829092	0.017189725	0.36286883
PODXL	10.86968666	10.73484335	-0.018009215	0.221810441
PODXL2	3.395993921	3.560964718	0.068434265	0.088911081
POF1B	1.961656543	1.963688479	0.001493608	0.916489149
POFUT1	2.113068669	2.030700542	-0.057362144	0.092463519
POFUT2	6.619730517	6.478527183	-0.031106617	0.000408096
POGK	6.332297007	6.345661085	0.003041546	0.755183218
POGZ	8.923198318	8.883602394	-0.006416081	0.446712444
POL3S	2.207212384	2.08997743	-0.078738094	0.008072504
POLA1	6.158013583	6.111859028	-0.010853782	0.294375195
POLA2	3.804989291	3.861666528	0.021331193	0.095304266
POLB	2.553251881	2.571713176	0.010393879	0.960935756
POLD1	7.095267298	7.118231817	0.004661882	0.662847536
POLD2	4.862729106	4.975287176	0.033013577	0.184191107
POLD3	6.742106212	6.764698331	0.004826244	0.995046243
POLD4	9.126827066	9.091783239	-0.005550107	0.498130985

POLDIP2	8.995708523	9.065107261	0.011087174	0.01378668
POLDIP3	8.378550351	8.330368528	-0.008320331	0.209537438
POLE	2.304164371	2.356714113	0.032533122	0.103514918
POLE2	2.258613093	2.207187641	-0.03322787	0.284328368
POLE3	7.354178325	7.353570289	-0.000119285	0.378724469
POLE4	8.003607828	7.979923641	-0.004275536	0.712590009
POLG	6.375481781	6.325855542	-0.011273757	0.244514517
POLG2	5.838956947	5.730636866	-0.027015194	0.00575417
POLH	3.937992371	3.925718092	-0.004503741	0.611642894
POLI	5.593411219	5.676462239	0.021263675	0.13457967
POLK	4.452597921	4.427238345	-0.008240295	0.647900596
POLL	4.489464715	4.531586915	0.013472915	0.424779585
POLM	6.044131318	6.115835077	0.017014497	0.250436424
POLN	1.991956477	2.001879908	0.007169305	0.68399957
POLQ	2.123358682	2.15975869	0.024522034	0.44712652
POLR1A	2.506568331	2.494838514	-0.006767128	0.708479777
POLR1B	3.868287675	3.908700782	0.014994059	0.325250192
POLR1C	5.791014589	5.833389648	0.010518312	0.409729086
POLR1D	6.378768	6.392178514	0.003029891	0.808673845
POLR1E	3.249937185	3.348855796	0.04325642	0.016864848

POLR2A	2.929174166	2.976119049	0.022938261	0.443014204
POLR2B	6.676242477	6.709827049	0.007239227	0.616975446
POLR2C	6.533470477	6.723405415	0.041342613	0.003529911
POLR2D	4.347153477	4.342260634	-0.001624708	0.65485859
POLR2E	7.247674623	7.228554732	-0.003810963	0.439331371
POLR2F	8.944673258	8.811182352	-0.021693159	0.075672521
POLR2G	10.24278341	10.2407604	-0.000284969	0.793209553
POLR2H	8.656344126	8.624069338	-0.005389076	0.510462604
POLR2I	9.496875417	9.555637796	0.008899242	0.068364878
POLR2J	7.627553536	7.693861859	0.012487526	0.055842046
POLR2J2	5.754312358	5.801225866	0.011714255	0.171536753
POLR2J4	3.773951311	3.84776169	0.027943639	0.121450836
POLR2K	8.127501993	8.053559331	-0.013185471	0.145316964
POLR2L	10.9290291	10.87071815	-0.007717991	0.313181773
POLR3A	3.875003113	3.956074782	0.029872228	0.181922504
POLR3B	4.86687145	4.881526387	0.004337661	0.981287406
POLR3C	4.303864854	4.334133838	0.010110928	0.731707264
POLR3D	5.825165106	5.70680869	-0.029614741	0.015847645
POLR3E	5.460297212	5.414686211	-0.012101747	0.260819941
POLR3F	4.143440053	4.275522085	0.045271549	0.220250219

POLR3G	2.523844252	2.462332915	-0.035597051	0.192531728
POLR3GL	9.936868907	9.922753324	-0.002050843	0.999449575
POLR3H	7.73251157	7.823710331	0.016915869	0.020305402
POLR3K	6.76416055	6.734093472	-0.006427157	0.369822854
POLRMT	7.636030848	7.682532831	0.008759096	0.35063059
POLS	6.215546093	6.112040049	-0.024227154	0.139684214
POM121	8.563138219	8.600476451	0.006276972	0.374256182
POM121L1P	3.518124007	3.356933606	-0.067662332	0.027470931
POM121L4P	3.110825656	2.990819225	-0.05675683	0.123454558
POMC	6.635607464	6.491974359	-0.031571243	0.027665276
POMGNT1	6.211145927	6.212468585	0.000307188	0.869586103
POMP	8.944901583	8.992578042	0.007669166	0.475228467
POMT1	7.767966808	7.867677979	0.018400874	0.003681102
POMT2	6.625349801	6.608458732	-0.003682791	0.88590418
POMZP3	5.00062204	5.069084676	0.019617697	0.166619198
PON1	2.15799804	2.232854514	0.049195698	0.401936879
PON2	8.180199543	8.267652845	0.015341776	0.395766913
PON3	5.598720967	5.659811387	0.015656696	0.317173918
POP1	4.087492245	4.09303107	0.001953625	0.987340851
POP4	8.323136185	8.410572993	0.015076848	0.042123016

POP5	6.175198093	6.209803831	0.008062277	0.253004311
POP7	10.40456777	10.42940249	0.003439472	0.461265056
POPDC2	4.311339311	4.289414507	-0.007355373	0.321868794
POPDC3	4.004606715	3.870194113	-0.049254638	0.526549596
POR	7.805922709	7.703875599	-0.018984771	0.097794697
PORCN	8.757367093	8.879648845	0.020005437	0.021255722
POSTN	2.416720424	2.373760669	-0.025876101	0.369455137
POT1	5.397503808	5.47949957	0.021751785	0.171969503
POTEB	2.022960192	1.970012408	-0.038263214	0.51624251
POTEC	1.866990126	1.888349261	0.016411326	0.432424763
POTED	1.966713649	2.003758592	0.026921788	0.401549325
POTEE	7.321956265	7.388743711	0.013099931	0.317841768
POTEF	8.902732861	8.951130951	0.007821708	0.351342132
POTEG	1.941006748	1.986227796	0.033225958	0.475230573
POU1F1	1.937310768	1.935963563	-0.001003598	0.971934342
POU2AF1	4.097536755	4.256935563	0.055058362	0.456666244
POU2F1	6.034016517	6.048751204	0.003518676	0.998348739
POU2F2	2.187568636	2.218334451	0.020148609	0.565998201
POU2F3	1.977883728	2.025873725	0.034586634	0.132969887
POU3F1	2.386753305	2.407590423	0.012540526	0.992844631

POU3F2	2.126459993	2.210754275	0.056084966	0.158116889
POU3F3	8.25658343	8.284743423	0.004912099	0.880459029
POU3F4	2.139099795	2.217592211	0.051990306	0.070806587
POU4F1	4.503471887	4.705822535	0.063409259	0.308246824
POU4F2	2.691758046	2.758123754	0.035138454	0.440148681
POU4F3	2.181105311	2.154201113	-0.017906486	0.95763755
POU5F1	3.752547523	3.743358246	-0.003537219	0.896810292
POU5F1P3	2.358515106	2.386508746	0.017022783	0.600559582
POU5F1P4	2.191236914	2.157422866	-0.022436495	0.620379807
POU5F2	2.118531404	2.032947535	-0.059491531	0.02204387
POU6F1	4.816321219	4.856573246	0.012007106	0.389275214
POU6F2	2.80910996	2.759380204	-0.025768845	0.525199102
PP12708	1.873083735	1.858525761	-0.011256711	0.696200009
PP13439	2.181468808	2.147415817	-0.022698269	0.645423137
PP14571	3.625811669	3.676166979	0.019898307	0.130670756
PP2672	1.899460967	1.892216303	-0.00551305	0.894627455
PP8961	2.191513338	2.125186099	-0.044338278	0.011620243
PPA1	10.23257321	10.45678798	0.031270778	0.02600387
PPA2	6.65621398	6.75994707	0.022310137	0.038044103
PPAN	4.813382185	4.895281923	0.024340969	0.28932229



PPAN-P2RY11	2.578404285	2.605798697	0.015247146	0.639986204
PPAP2A	8.208215868	7.947701007	-0.046531073	0.116713357
PPAP2B	9.736245656	9.452477514	-0.042673057	0.081530678
PPAP2C	6.526926576	6.573910127	0.010347923	0.742111622
PCYT1B	3.243380656	3.510690507	0.114256464	0.013087124
PPAPDC1B	5.361652675	5.236470986	-0.034082901	0.438924189
PPAPDC2	5.290063914	5.467659021	0.047638122	0.011643072
PPAPDC3	8.184884086	8.229789915	0.007893618	0.990643054
PPARA	4.957759311	5.000600732	0.012413186	0.396535234
PPARD	7.029147	6.998738732	-0.006254674	0.400774495
OMG	5.581168212	6.043413669	0.114796569	0.003229877
PPARGC1A	5.308705748	5.278833049	-0.008141138	0.769379895
PPARGC1B	5.60909249	5.67996057	0.018113542	0.821527438
PPAT	4.071511728	4.16788093	0.033749504	0.045737761
PPBP	3.407669119	3.290537162	-0.050462143	0.674902882
PPBPL2	2.022097861	1.987388134	-0.024979163	0.512681798
PPCDC	5.82282994	5.81494062	-0.001956025	0.722902082
PPCS	7.652265748	7.68681919	0.006499757	0.408553968
PPEF1	3.043945788	3.105194479	0.028740962	0.463789898
PPEF2	4.320333325	4.280344634	-0.013415664	0.684506522

PPFIA1	6.292153967	6.268265606	-0.005487661	0.35888019
PPFIA2	3.782203848	4.061414521	0.102755159	0.07949943
PPFIA3	4.156923192	4.265699331	0.037266189	0.294057608
PPFIA4	4.451484907	4.662472289	0.066808486	0.227606775
PPFIBP1	4.598598238	4.403286627	-0.062613403	0.02609702
PPFIBP2	6.297844702	6.10303569	-0.045331155	0.438108514
PPHLN1	5.662379013	5.697318232	0.008874673	0.348498308
PPIA	9.904939338	9.943414507	0.00559321	0.193236457
PPIAL4A	8.507886311	8.505002155	-0.000489154	0.799066545
PPIB	7.828673053	7.698139268	-0.024258023	0.087495846
PPIC	6.68976747	6.462173359	-0.049936611	0.025094693
PPID	5.995088377	5.809044408	-0.045480163	0.061267042
PPIE	5.878793695	5.849850606	-0.007120369	0.732745421
PPIF	7.046995212	7.054000387	0.001433421	0.866328863
PPIG	7.146714099	7.134016211	-0.002565581	0.595290617
PPIH	3.145636351	3.270187479	0.056021449	0.038753722
PPIL1	8.632764146	8.659562028	0.004471487	0.872845375
PPIL2	4.093760391	4.115363324	0.007593141	0.619406215
PPIL3	8.438865377	8.40976669	-0.004983262	0.94994449
PPIL4	4.111780834	4.087010599	-0.008717384	0.900086016

PPIL5	3.141794523	3.148170599	0.002924892	0.916489139
PPIL6	2.619717252	2.635353732	0.008585513	0.979086422
PPL	3.085563901	3.286286606	0.090924135	0.023738982
PPM1A	6.787440424	6.815588782	0.005970663	0.956538271
PPM1B	7.150341377	7.272074465	0.024354851	0.058640302
PPM1D	5.523158285	5.508858239	-0.003740135	0.806002395
PPM1E	3.347194576	3.537736606	0.07987422	0.253291553
PPM1F	3.462249079	3.431679183	-0.012794832	0.635552113
PPM1G	6.420411589	6.399721535	-0.004656654	0.870672237
PPM1H	4.009578536	4.200767007	0.067202173	0.066710384
PPM1J	4.731043887	4.978892162	0.073666224	0.117519906
PPM1K	6.385012444	6.419131627	0.007688713	0.469278999
PPM1L	2.296341722	2.338398169	0.026183257	0.364326244
PPM1M	3.764001437	3.577108718	-0.073473212	0.024430529
PPM2C	6.495921185	6.636863465	0.030967467	0.247603954
PPME1	4.547448887	4.558800613	0.003596889	0.968084132
PPOX	6.76729053	6.801375324	0.00724818	0.558552361
PPP1CA	7.100279536	7.098065254	-0.000449987	0.915941746
PPP1CB	7.861495391	7.941417768	0.014592828	0.250436311
PPP1CC	9.017659821	9.057383725	0.006341293	0.771489514

PPP1R10	7.732390232	7.791997789	0.01107882	0.35277061
PPP1R11	5.461329325	5.515059514	0.014124299	0.280620916
PPP1R12A	6.538354808	6.443785324	-0.021019237	0.11703555
PPP1R12B	8.156135921	7.95371569	-0.036256825	0.186480484
PPP1R12C	7.882000364	7.832884838	-0.009018069	0.389275044
PPP1R13B	4.501024768	4.506993049	0.001911722	0.777829474
PPP1R13L	6.296539437	6.255823803	-0.009359265	0.234321185
PPP1R14A	5.02029098	4.775640148	-0.072076855	0.096681669
PPP1R14B	7.886675636	7.782715782	-0.019143636	0.032417335
PPP1R14C	2.493339457	2.593916549	0.057052754	0.107826544
PPP1R14D	2.012336424	2.00700538	-0.003827032	0.911564169
PPP1R15A	4.743400238	4.605030317	-0.042710951	0.170028724
PPP1R15B	3.063426199	2.96998907	-0.044688474	0.133862242
PPP1R16A	9.755197742	9.844434937	0.013137282	0.180344692
PPP1R16B	4.702036258	4.633586979	-0.021156211	0.470550928
PPP1R1A	5.940537311	6.159241592	0.052159292	0.147425803
PPP1R1B	3.31997843	3.494054296	0.073728159	0.017905576
PPP1R1C	5.365430815	5.137637993	-0.062588777	0.083851501
PPP1R2	5.831849589	5.939385732	0.02636022	0.099200677
PPP1R2P1	1.852904629	1.929183761	0.058201945	0.074431546

PPP1R2P9	2.000794404	1.993819634	-0.005038022	0.947198227
PPP1R3A	1.894687795	1.876946859	-0.013572337	0.775186133
PPP1R3B	5.969861848	5.980345324	0.002531247	0.648892816
PPP1R3C	8.668030874	8.766707761	0.016330864	0.253578115
PPP1R3D	6.621862583	6.74587419	0.02676834	0.042826393
PPP1R3E	5.123272053	5.138392458	0.004251581	0.966984195
PPP1R3F	6.330168682	6.415992085	0.019428418	0.725488078
PPP1R7	8.360991881	8.397408937	0.006270143	0.36469071
PPP1R8	7.124065642	7.170111542	0.009294753	0.346374283
PPP1R9A	8.198172709	8.319415493	0.021179788	0.47523031
PPP1R9B	7.55996355	7.54682362	-0.002509722	0.994495836
PPP2CA	6.97393904	6.984860437	0.002257536	0.688565414
PPP2CB	9.292026159	9.284915768	-0.001104393	0.911016742
PPP2R1A	7.224463384	7.326142944	0.020163419	0.256746915
PPP2R1B	3.378876384	3.38042493	0.000661038	0.931282588
PPP2R2A	5.824952464	5.828787317	0.000949485	0.667859974
PPP2R2B	8.665693543	8.877286592	0.034803556	0.622815572
PPP2R2C	4.128171166	4.342793113	0.073120435	0.118493162
PPP2R2D	6.288415146	6.294734627	0.001449094	0.823137445
PPP2R3A	4.464347623	4.571531282	0.034228123	0.063104357

PPP2R3B	6.604807503	6.615805507	0.002400308	0.786836202
PPP2R3C	9.076926364	9.05996569	-0.002698267	0.577725067
PPP2R4	5.704204762	5.737246535	0.008332743	0.419992319
PPP2R5A	7.263013781	7.257139528	-0.00116731	0.620866102
PPP2R5B	8.09476555	8.168488972	0.013079934	0.431615914
PPP2R5C	6.235971728	6.143049944	-0.021659275	0.013163182
PPP2R5D	6.900530636	6.863370056	-0.007790163	0.625256761
PPP2R5E	9.15772896	9.182490021	0.003895557	0.991193429
PPP3CA	7.680991152	7.691932106	0.002053541	0.941707363
PPP3CB	7.630440583	7.686953556	0.010645591	0.360689791
PPP3CC	8.142778444	8.155720951	0.002291265	0.847915884
PPP3R1	4.89086798	4.98535638	0.027606118	0.547933804
PPP3R2	2.10164443	2.046704021	-0.03821612	0.070377161
PPP4C	5.036796351	5.093394366	0.016121024	0.296285137
PPP4R1	3.302462086	3.315078408	0.005500995	0.8989939
PPP4R1L	1.926324219	1.925918486	-0.0003039	0.82797243
PPP4R2	5.391410735	5.391322085	-2.37E-05	0.617461534
HMGB3L1	3.040551616	3.292915803	0.115032543	0.002359052
PPP5C	3.329168358	3.342532028	0.005779554	0.455831875
PPP6C	5.393728775	5.377486401	-0.004351006	0.66034661

PPRC1	7.29397153	7.234470063	-0.011817228	0.317173629
PPT1	9.265660887	9.301128662	0.005511911	0.579140013
PPT2	7.580512735	7.6479865	0.012784543	0.196326404
PPTC7	7.176230523	7.121888352	-0.010966416	0.311203562
PPWD1	7.091254993	6.935673056	-0.032005082	0.001226529
PPY	2.259443901	2.21093743	-0.03130954	0.212306437
PPY2	2.013626543	2.093131683	0.055866938	0.142479338
PPYR1	2.328283119	2.361949937	0.020711885	0.318845618
PQBP1	7.523692437	7.553398958	0.005685116	0.300129446
PQLC1	9.101321722	9.002632486	-0.015729147	0.076013723
PQLC2	2.402618079	2.33309	-0.042365375	0.361415701
PQLC3	4.627573258	4.430567965	-0.062764176	0.173490638
PRAC	5.343843775	5.257664	-0.023455885	0.248168229
PRAF2	7.526378152	7.615131528	0.016913178	0.038365362
PRAGMIN	6.033536245	5.973011408	-0.014545334	0.523850531
PRAM1	5.216757768	5.300641563	0.023013541	0.116874519
PRAME	2.090488656	2.112104599	0.014841069	0.234864248
PRAMEF1	2.001459795	2.001952732	0.000355276	0.953241056
PRAMEF10	1.920977689	1.862936275	-0.044262438	0.104690464
PRAMEF16	1.85826404	1.803676711	-0.043014733	0.360327436

PRAMEF2	1.941809	1.968734838	0.019867511	0.402711929
PRAMEF3	1.96865202	2.006700803	0.027617406	0.190888465
PRAMEF8	1.857702272	1.90737281	0.038067553	0.691615289
PRAMEL	1.875856265	1.909407317	0.025575605	0.727041213
PRAP1	3.509184338	3.769367711	0.103186806	0.125313892
PRB1	1.837642576	1.859229035	0.016848316	0.587665415
PRB2	1.904808364	1.909696901	0.003697818	0.930734259
PRB3	4.841944967	4.872020796	0.008933609	0.479078246
PRB4	2.74032596	2.780638232	0.021068548	0.217922141
PRC1	5.697028	5.837073775	0.035035806	0.014687353
PRCC	4.416685543	4.447923268	0.01016778	0.514015501
PRCD	4.836408199	4.896388056	0.017781886	0.609226075
PRCP	10.64102575	10.55721805	-0.011407509	0.204323522
PRDM1	3.102387834	3.07961488	-0.010629105	0.694161193
PRDM10	4.982127119	4.989096577	0.002016764	0.932379425
PRDM11	4.950893722	4.782035007	-0.050064289	0.004548903
PRDM12	2.434246821	2.358697155	-0.045485262	0.779416968
PRDM13	4.634208483	5.016489951	0.114355311	0.175240914
PRDM14	1.91907443	1.952718239	0.025073129	0.095853052
PRDM15	2.361565642	2.325949718	-0.021923728	0.676920305



PRDM16	5.287430967	5.197581958	-0.02472632	0.816165771
PRDM2	5.181564159	5.115867845	-0.018408674	0.109651477
PRDM4	5.628448497	5.662159085	0.008614991	0.69212438
PRDM5	3.667293272	3.591774768	-0.030018758	0.358519495
PRDM6	2.614732146	2.684031282	0.037738322	0.277862449
PRDM7	2.188535927	2.170600923	-0.011871565	0.936219303
PRDM8	2.549223086	2.579834296	0.017220772	0.542433549
PRDM9	2.029873219	1.999822408	-0.021517734	0.587190464
PRDX1	10.9156948	10.95739632	0.005501065	0.26759909
PRDX2	9.11878502	9.209296507	0.01424934	0.336570416
PRDX3	4.699008947	4.764440866	0.019950401	0.25443961
PRDX4	9.56547953	9.608233937	0.006433983	0.198964237
PRDX5	10.61630658	10.60066732	-0.002126853	0.733782571
PRDX6	10.31228467	10.3446257	0.00451745	0.756755622
PREB	7.520058272	7.530784	0.002056225	0.925800508
PRELID1	8.416995073	8.401697676	-0.0026244	0.452088481
PRELID2	5.01420502	5.223060887	0.058874536	0.148198303
PRELP	8.079923894	7.955843845	-0.022326744	0.291210298
PREP	7.55400047	7.634523387	0.015297221	0.10439563
PREPL	7.195874219	7.242980028	0.009413428	0.517580712

PREX1	8.357140325	8.296804542	-0.010453561	0.558552596
PREX2	2.19450651	2.250682732	0.036466152	0.044116613
PRF1	3.030671119	2.988751408	-0.020094398	0.756232218
PRG2	2.90794651	2.844670239	-0.03173931	0.380221142
PRG3	2.188885013	2.233183345	0.028905533	0.967534152
PRG4	2.320061589	2.358573324	0.023751348	0.435667541
PRH2	3.351125106	3.370309085	0.008235357	0.749422875
PRIC285	4.778519503	4.827122634	0.014599772	0.605367228
PRICKLE1	6.229753411	6.188818077	-0.009511145	0.531968553
PRICKLE2	5.389970709	5.404072732	0.003769659	0.920869579
PRICKLE3	2.943798245	2.904484641	-0.019396598	0.295329333
PRICKLE4	2.186979848	2.136880683	-0.033433572	0.151712717
PRIM1	4.415482464	4.54190619	0.040726824	0.182148171
PRIM2	3.981077576	3.895988134	-0.031169701	0.037094043
PRIMA1	3.595013483	3.627650937	0.01303846	0.637028569
PRINS	5.865633139	5.609814739	-0.064333714	0.112591052
PRKAA1	4.33146804	4.361102521	0.009836834	0.551155099
PRKAA2	3.43070643	3.520499845	0.037274601	0.362869002
PRKAB1	5.951014775	6.021097063	0.016890675	0.223119604
PRKAB2	5.627962086	5.55123307	-0.019804343	0.171320658

PRKACA	4.513123954	4.598675134	0.027091881	0.250721125
PRKACB	5.690002808	5.715443415	0.006436065	0.974684907
PRKACG	2.085950914	2.057806528	-0.01959786	0.940609537
PRKAG1	4.212109066	4.430427993	0.072903281	0.061938879
PRKAG2	4.890476033	4.812312063	-0.023244702	0.177447182
PRKAG3	2.007963669	2.055606113	0.033830681	0.570207207
PRKAR1A	7.447146384	7.352899	-0.018374548	0.096958613
PRKAR1B	3.917293815	4.018974542	0.036970098	0.120788404
PRKAR2A	3.256909536	3.304359746	0.020867114	0.208537637
PRKAR2B	6.211356715	6.27602493	0.01494266	0.342151369
PRKCA	7.871044808	7.907213148	0.006614162	0.973584632
PRKCB	6.359340026	6.595462359	0.05259675	0.000286475
PRKCD	5.601590444	5.465175824	-0.035568595	0.223644116
PRKCDBP	6.705554073	6.249463261	-0.101624257	0.057816504
PRKCE	4.825565861	4.941836718	0.034349217	0.225751424
PRKCG	2.098033099	2.217180148	0.079688557	0.0097027
PRKCH	5.475966265	5.204414486	-0.073377694	0.057634648
PRKCI	5.712974238	5.665841458	-0.011951792	0.324572324
PRKCQ	4.415636775	4.458618092	0.013975127	0.763060514
PRKCSH	4.61334498	4.64682238	0.010431321	0.643938373

PRKCZ	8.733789232	8.895011599	0.026388771	0.552999321
PRKD1	5.193226523	5.140699303	-0.014666529	0.75518319
PRKD2	6.104175238	5.974934894	-0.030873387	0.250436594
PRKD3	5.66064551	5.530790204	-0.033480961	0.033321431
PRKDC	4.230949649	4.220115732	-0.003698953	0.7714897
PRKG1	3.042592795	3.086787901	0.020805093	0.321869025
PRKG2	1.886832139	1.82674438	-0.046691311	0.148585372
PRKRA	7.074567927	7.196151606	0.024583542	0.169599588
PRKRIP1	4.854254887	4.856089965	0.000545286	0.778358262
PRKRIR	7.077717907	7.138295289	0.01229532	0.327630847
PRKX	4.23797106	4.139467669	-0.033928485	0.477793697
PRKY	3.329873146	3.14230593	-0.083643572	0.049449961
PRL	5.320388887	5.549425261	0.060806661	0.199208243
PRLH	2.342907245	2.369146437	0.016067535	0.7285955
PRLHR	2.120290689	2.107465197	-0.008753263	0.581030698
PRLR	1.982890967	1.939012479	-0.032283262	0.201633183
PRM1	2.052721079	2.148484993	0.06578209	0.033264342
PRM2	1.978619934	1.988331077	0.007063484	0.76885263
PRM3	3.017889795	3.022691951	0.002293835	0.460010724
PRMT1	8.450161086	8.659905873	0.0353725	0.010782008

PRMT2	6.72210047	6.651554366	-0.01522059	0.21663636
PRMT3	3.277866444	3.319371176	0.018152889	0.404653949
PRMT5	6.266959139	6.361609261	0.021626175	0.113531665
PRMT6	6.218409755	6.304623556	0.019864546	0.341800876
PRMT7	7.764159523	7.838605113	0.013767188	0.073983709
PRMT8	2.872717364	3.023119007	0.073621714	0.151122784
PRND	2.015871914	1.940922514	-0.054661451	0.030248626
PRNP	13.25829655	13.24604828	-0.001333405	0.47516948
PRNT	2.043724331	1.957726831	-0.062021136	0.021062758
PR00132	2.674995238	2.705503275	0.016360664	0.8484564
PR00461	2.134405166	2.107248458	-0.018473636	0.519815499
PR00471	1.943574576	1.891581761	-0.03911933	0.09153178
PR00478	7.483031358	7.397506035	-0.016583852	0.139129901
PR01483	1.886770192	1.845737472	-0.031721348	0.470126776
PR01596	1.86185147	1.807796493	-0.042505706	0.478221688
PR01768	1.915804954	1.910933204	-0.003673339	0.808673823
PR01848	1.905850338	1.946935366	0.030770159	0.347435349
PR01880	1.875688616	1.901774746	0.019926033	0.925252487
PR02012	1.918110517	1.893795923	-0.018404974	0.249867868
PR02214	1.843964225	1.836246359	-0.006051036	0.689581432

PRO2852	2.285182391	2.190334725	-0.06115796	0.101627648
PRO2949	1.934507808	1.908771092	-0.019322453	0.850078018
PRO2964	1.92268745	1.920344958	-0.001758769	0.527450613
PROC	2.042261073	1.946239106	-0.069478342	0.032306041
PROCA1	4.198946828	4.250830085	0.017717073	0.337613281
PROCR	6.702377033	6.227010056	-0.106133237	0.096543077
PRODH	3.89080243	4.016430063	0.045846031	0.308902297
PRODH2	2.115397834	2.15744138	0.02839235	0.612611115
PROK1	2.001435636	1.967239275	-0.024862778	0.289008608
PROK2	3.274389768	3.181585725	-0.041480069	0.402712041
PROKR1	2.521226517	2.588368408	0.037917233	0.115911638
PROKR2	2.053612371	2.106144183	0.036440312	0.193238953
PROL1	1.926319709	1.923150521	-0.002375481	0.672887867
PROM1	6.034727238	6.270905951	0.055385318	0.480793819
PROM2	2.221742536	2.163965613	-0.038014068	0.43404443
PROP1	3.634609603	3.561326662	-0.029385638	0.445067736
PROS1	5.777108192	5.799674268	0.005624362	0.854946971
PROSC	6.510484225	6.415274704	-0.021253806	0.145317204
PEBP4	4.973008338	5.38577931	0.115036265	1.86E-05
PROX2	1.896518331	1.874375394	-0.016943396	0.334149262

PROZ	1.862628238	1.887587915	0.019204085	0.961485526
PRPF18	7.270802755	7.161501479	-0.021852564	0.01416288
PRPF19	4.600689199	4.802466254	0.061925478	0.16577484
PRPF3	4.923001967	4.776083754	-0.04371018	0.004318497
PRPF31	7.836134166	7.891514479	0.010160099	0.203098074
PRPF38A	7.189845609	7.198661901	0.00176797	0.830123202
PRPF38B	5.821175106	5.711364796	-0.027474881	0.021489575
PRPF39	5.537319583	5.481449634	-0.014630307	0.231080655
PRPF4	6.591888775	6.650743908	0.01282382	0.177890959
PRPF40A	8.777434113	8.772532901	-0.000805808	0.48036384
PRPF40B	6.15212302	6.157896415	0.001353247	0.982387958
PRPF4B	5.896744795	5.721254162	-0.043587321	0.001160138
PRPF6	10.05692475	10.05215471	-0.000684439	0.763059417
PRPF8	9.86367496	9.886218063	0.00329347	0.995596638
PRPH	9.490097715	9.325342845	-0.025266175	0.27089627
PRPH2	9.351816219	9.343083577	-0.001347805	0.865242932
PRPS1	7.285011497	7.498339507	0.0416399	0.000155724
PRPS1L1	2.834424113	2.925791099	0.045771121	0.082868003
PRPS2	3.09951	3.034113394	-0.030765154	0.405043069
PRPSAP1	8.046492861	8.09861381	0.009314884	0.12805673

PRPSAP2	7.390597709	7.525999725	0.026192191	0.148391813
PRR11	6.341656172	6.237968246	-0.023783452	0.077046666
PRR12	6.476137795	6.476135204	-5.77E-07	0.91047017
PRR13	8.757618159	8.717497148	-0.006624561	0.549772758
PRR14	6.748323755	6.700992648	-0.010154365	0.250152005
PRR15	2.967230066	2.910487	-0.027856218	0.295647839
PRR16	2.961894669	3.062143965	0.048021776	0.279392885
PRR17	5.817343291	5.832164873	0.003671062	0.767798473
PRR18	2.033841821	1.980492387	-0.038348324	0.165354046
PRR3	3.381746139	3.402944162	0.009015115	0.845754894
PRR4	5.130396013	5.231902085	0.02826535	0.183280674
PRR5	11.34823935	11.31803769	-0.003844638	0.436473815
PRR7	10.47401634	10.47110158	-0.000401537	0.698748522
PRRC1	5.545111603	5.496748183	-0.012638109	0.33865712
PRRG1	3.543283477	3.443254035	-0.041314268	0.340751119
PRRG2	2.250057219	2.185649486	-0.041899636	0.257616159
CABP7	3.916493258	4.242667965	0.115409301	0.002295014
PRRG4	2.901698523	2.760027113	-0.072215197	0.171969554
PRRT1	4.820932993	4.900164711	0.023517866	0.450845848
PRRT2	8.177017417	8.053343577	-0.021986829	0.294057608



PRRT3	6.778635192	6.960554359	0.03820738	0.022857105
PRRX1	2.283896755	2.226956845	-0.036423833	0.938962988
PRRX2	6.649589232	6.239521915	-0.091829732	0.303359576
PRSS1	1.915600199	2.017600648	0.074844154	0.123286427
AMACR	3.949920325	4.280337134	0.11590088	0.003369381
PRSS16	2.370709742	2.391413556	0.012544605	0.589567708
PRSS2	3.520316411	3.464251817	-0.023161302	0.496382978
PRSS21	2.266007238	2.208269789	-0.03723603	0.164095836
PRSS22	2.28602194	2.299848148	0.008699357	0.594335369
PRSS23	7.042552623	6.797156021	-0.0511672	0.547015112
PRSS27	2.700220232	2.724605176	0.012970104	0.723936261
PRSS3	2.822148278	2.806499387	-0.008022046	0.834967713
PRSS33	3.078487675	3.339934866	0.117598175	0.08736816
PRSS35	4.182093397	4.575781606	0.129792915	0.114955306
PRSS36	4.982272675	4.935703246	-0.013548324	0.405042957
PRSS7	1.977628464	1.975281077	-0.001713453	0.857654333
PRSS8	2.809299298	2.738589697	-0.036777201	0.120129066
PRSSL1	2.819383808	2.838702451	0.009851747	0.196565277
PRTFDC1	5.575626583	5.677448148	0.026108682	0.118819026
PRTG	2.79906345	2.793964521	-0.00263049	0.746809048

PRTN3	2.489417238	2.294438155	-0.117667133	0.124466118
PRUNE	2.289993728	2.388755549	0.060915577	0.032028675
PRUNE2	7.440219126	7.454566056	0.002779262	0.949395302
PRX	6.437552417	6.390027796	-0.010690068	0.637521162
PRY2	2.075272331	2.027545042	-0.033566704	0.627701566
PS1TP4	4.384515444	4.485418423	0.032825162	0.04993113
PSAP	9.08659106	9.163965507	0.012232876	0.218953917
PSAPL1	1.983766013	1.946474183	-0.027378659	0.616004655
PSAT1	6.354013391	6.316191394	-0.008613242	0.652370367
PSCA	2.215100874	2.090084211	-0.083811329	8.28E-05
PSD	3.158488662	3.276013683	0.052706989	0.231080989
PSD2	2.918321788	3.137002514	0.104247715	0.0206055
PSD3	7.655291185	7.789437775	0.025061947	0.282470691
PSD4	3.568701424	3.666239768	0.038901936	0.239793135
PSEN1	4.849994623	4.907025415	0.016865596	0.077856931
PSEN2	8.264197497	8.32432157	0.010457966	0.243118291
PSENEEN	5.32444955	5.378324908	0.014524527	0.334494813
PSG1	1.975539411	1.923411873	-0.038578897	0.137661151
PSG11	1.974455318	1.964864923	-0.007024584	0.729113886
PSG2	1.921567119	2.007261704	0.062945356	0.038559184

PSG3	1.897279576	1.822375915	-0.058111699	0.080330821
PSG4	1.97762853	1.958392831	-0.014101279	0.463789738
PSG5	1.952495894	2.022193592	0.050601604	0.129446
PSG6	1.965982768	1.984574331	0.013578922	0.852782339
PSG7	1.905252854	1.912675979	0.005610015	0.831199336
PSG8	1.970044755	1.962059289	-0.005859768	0.91484713
PSG9	1.941984881	1.935928577	-0.004506241	0.861447391
PSIP1	7.278377013	7.366998035	0.017460074	0.568802518
PSKH1	7.565158119	7.659523979	0.017884498	0.447126357
PSKH2	2.159569801	2.166858148	0.004860763	0.743676275
PSMA1	9.751315709	9.792876345	0.006135778	0.130316591
PSMA2	9.091372185	9.070257507	-0.003354551	0.902816868
PSMA3	8.982910656	8.990790127	0.001264923	0.540604481
PSMA4	8.188083722	8.267970042	0.014007308	0.016738465
PSMA5	8.543310305	8.581130183	0.006372487	0.190419888
PSMA6	10.68438613	10.74046793	0.007552828	0.067943945
PSMA7	9.120300828	9.122421338	0.000335394	0.92908912
PSMA8	1.922790695	1.836067415	-0.066582696	0.12161661
CDKN2B	2.607174993	2.825299866	0.115916578	3.40E-05
PSMB1	11.89024956	11.98286406	0.011193777	0.006524335

PSMB10	8.825126338	8.749278056	-0.012452953	0.56180398
PSMB2	7.138355086	7.172896775	0.006964201	0.386999315
PSMB3	7.847176947	7.928845282	0.014937042	0.315175085
PSMB4	11.71024376	11.7638147	0.006584857	0.285244385
PSMB5	9.70381651	9.77916962	0.011159696	0.035133683
PSMB6	10.39116783	10.36113249	-0.004176102	0.238684723
PSMB7	10.74593663	10.78807377	0.005646057	0.254427146
PSMB8	6.162813828	6.227701366	0.015110556	0.514460603
PSMB9	6.576371298	6.560029993	-0.003589344	0.992844629
PSMC1	10.07490652	10.12285462	0.006849731	0.01397242
PSMC2	7.946140358	7.987320345	0.0074573	0.281236534
PSMC3	7.954391623	8.024955676	0.012741831	0.078557404
PSMC3IP	4.527063444	4.510841514	-0.005178926	0.553923512
PSMC4	7.325465748	7.374612239	0.009646706	0.463369245
PSMC5	7.045211384	7.148023725	0.020901429	0.053924644
PSMC6	8.306524642	8.301047	-0.000951683	0.915941676
PSMD1	9.305002689	9.353522289	0.007503181	0.071996266
PSMD10	6.415394576	6.397540641	-0.004020593	0.898447956
PSMD11	7.126364053	7.203009387	0.015433599	0.227340626
PSMD12	6.639292219	6.556033972	-0.018206121	0.013112455

PSMD13	6.271030596	6.337496732	0.01521054	0.186480642
PSMD14	8.777669914	8.833444204	0.009138043	0.24986719
PSMD2	8.399878848	8.419143824	0.003305007	0.798534211
PSMD3	9.346992987	9.466720401	0.018362401	3.91E-05
PSMD4	10.26000009	10.28529046	0.003551794	0.319173653
PSMD5	4.45141006	4.280302683	-0.056549586	0.006312021
PSMD6	8.479903444	8.49050081	0.001801816	0.61551907
PSMD7	10.18125916	10.23350961	0.00738501	0.391937843
PSMD8	8.117041219	8.134926817	0.003175428	0.900085767
PSMD9	7.76288902	7.76573119	0.000528107	0.969184074
PSME1	10.00720569	10.01217926	0.00071684	0.707964988
PSME2	11.39048495	11.36707955	-0.002967529	0.552072705
PSME3	5.46604294	5.469595028	0.000937226	0.954340034
PSME4	4.267306914	4.317413972	0.016841555	0.395767251
PSMF1	7.169427702	7.158954901	-0.002108969	0.596246918
PSMG1	8.768887517	8.867628592	0.016154522	0.080928111
PSMG2	5.95159743	5.971301542	0.00476848	0.750469029
PSMG3	6.827550338	6.856873458	0.006182852	0.354202523
PSORS1C1	2.464694728	2.48930919	0.014336466	0.816701431
PSORS1C2	5.143392722	5.175594655	0.009004318	0.482942865

PSPC1	6.204864265	6.184751134	-0.004684107	0.553461299
PSPH	6.797138132	6.812083437	0.003168664	0.845754966
PSPN	3.240285623	3.164673099	-0.034064507	0.290265578
PSRC1	6.800429126	6.717106711	-0.017785839	0.19608769
PSTK	3.094786927	3.249481282	0.070369353	0.028705069
PSTPIP1	5.017050887	4.887121085	-0.037854722	0.460010884
PSTPIP2	2.152520066	2.194664493	0.027973719	0.711561646
PTAFR	4.20850443	4.080102	-0.044702417	0.155090166
PTAR1	9.126072947	9.123283099	-0.000441101	0.872845255
PTBP1	2.817021656	2.804539197	-0.006406908	0.563200632
PTBP2	7.351275331	7.390092831	0.00759793	0.805468325
PTCD1	8.681413901	8.664006761	-0.002895658	0.831737016
PTCD2	4.418026927	4.419896218	0.000610283	0.995596658
PTCD3	7.03167847	7.019871366	-0.002424509	0.632112366
PTCH1	4.234915318	4.304527662	0.023521817	0.251575904
PTCH2	2.437692523	2.444646986	0.004109987	0.641467054
PTCHD1	3.028413391	3.24021681	0.097528198	0.10828057
PTCHD2	2.380558914	2.476349655	0.056914701	0.228138794
PTCRA	2.664534384	2.624959261	-0.021588418	0.606331021
PTDSS1	9.759394477	9.743817148	-0.002304578	0.63505883

PTDSS2	10.08813781	10.10635865	0.002603395	0.346725173
PTEN	6.466350901	6.341991225	-0.028015917	0.013550114
PTER	3.868461252	3.902080711	0.012483796	0.781534705
PTF1A	2.091638642	2.124906056	0.022765431	0.498569114
ELF3	2.417343397	2.619796746	0.116032456	0.009227939
PTGDS	13.39823717	13.59946854	0.021507078	0.06951349
PTGER1	3.332521669	3.312358021	-0.008755639	0.592903176
PTGER2	4.029222675	3.756357739	-0.101167073	0.148779801
PTGER3	2.032204358	2.00118269	-0.022192608	0.259068992
PTGER4	4.551395053	4.437935028	-0.036420269	0.86198954
PTGES	2.202239642	2.199257394	-0.001955005	0.657850003
PTGES2	4.975136563	5.099249401	0.035548774	0.144556276
PTGES3	8.686306788	8.495891444	-0.031977575	0.003957651
PTGFR	2.748287	2.692837507	-0.029405494	0.445067681
PTGFRN	2.548623934	2.564526359	0.00897389	0.781005023
PTGIR	4.200470377	4.265006261	0.021996966	0.652867602
PTGIS	4.01618347	3.778626296	-0.087963333	0.212306546
PTGR1	7.074862656	7.064805739	-0.00205225	0.702330114
PTGR2	4.730749616	4.76953	0.011778301	0.343204055
PTGS1	3.334817854	3.424749662	0.038390571	0.32933841

PTGS2	3.655196841	3.381508085	-0.112282298	0.047332016
PTH	1.924020841	1.901204261	-0.017210887	0.69110672
PTH1R	4.74236602	4.637109148	-0.03238133	0.233237618
PTH2	4.29472757	4.328920148	0.01144057	0.492460628
PTH2R	2.488575874	2.480887993	-0.004463772	0.857112729
PTHLH	2.196278364	2.155289648	-0.027179153	0.529707037
PTK2	4.95183602	4.941139303	-0.003119811	0.585291905
PTK2B	3.483767987	3.410500437	-0.030665099	0.258487327
PTK6	2.184859285	2.19835138	0.008881636	0.924156551
PTK7	3.665557623	3.735655838	0.027328862	0.16640792
PTMA	11.55204038	11.51833296	-0.004215759	0.612607003
PTMAP7	9.962394768	9.899181669	-0.009183313	0.467584231
PTMS	8.165360192	8.187811141	0.003961298	0.424779253
PTN	9.847893152	10.15564994	0.044395557	0.001083762
PTOV1	7.925549788	7.889383479	-0.006598453	0.794275043
PTP4A1	6.933843709	6.747698028	-0.039259906	0.018861884
PTP4A2	8.689966033	8.6616495	-0.004708744	0.910470064
PTP4A3	7.058221642	7.248910923	0.038459526	0.109345581
PTPDC1	4.313107325	4.27062788	-0.014279421	0.292157488
PTPLA	4.064751907	3.953630176	-0.039989373	0.503837386



PTPLAD1	9.583494503	9.609933	0.00397456	0.865243092
PTPLAD2	3.615214828	3.466005148	-0.060807582	0.259069106
PTPLB	6.057314093	5.940780042	-0.028025848	0.003244287
PTPMT1	7.804132159	7.878337331	0.013652981	0.082623137
PTPN1	6.145932139	6.120762746	-0.00592039	0.839818198
PTPN11	8.42131806	8.483058197	0.010538406	0.025773972
PTPN12	8.051344775	7.96060793	-0.01635116	0.200417445
PTPN13	9.022693391	9.050360711	0.004417132	0.513569695
PTPN14	3.674656795	3.568866493	-0.042143579	0.404265221
PTPN18	5.858944887	5.802321099	-0.014010743	0.277862334
PTPN2	6.24992804	6.217348986	-0.007540018	0.244514348
PTPN20B	2.151108437	2.152654613	0.001036609	0.656852113
PTPN21	4.509094013	4.362018296	-0.047841769	0.026423056
PTPN22	2.199481967	2.123466324	-0.050742544	0.082015083
PTPN23	6.110416775	6.058825683	-0.012232587	0.09087046
PTPN3	4.428961775	4.545799662	0.037565559	0.204818048
PTPN4	5.783370033	5.804910296	0.005363361	0.652867641
PTPN5	2.568705192	2.618459021	0.027676704	0.475657359
PTPN6	3.995003424	3.925697394	-0.02524777	0.425580965
PTPN7	2.577907974	2.555240155	-0.012741873	0.519368253

PTPN9	3.194150934	3.067480408	-0.058378357	0.140239751
PTPRA	8.950673444	9.034399606	0.013432494	0.055137917
PTPRB	4.823723881	4.461553944	-0.112601044	0.032139375
PTPRC	4.067865291	3.915282514	-0.055155493	0.414052948
PTPRCAP	4.274246629	4.315897986	0.013990609	0.701307139
PTPRD	3.531592119	3.709258901	0.070812241	0.023399614
PTPRE	6.549565238	6.476826127	-0.016112129	0.643938491
PTPRF	8.088547576	8.250769472	0.028648005	0.251575677
PTPRG	4.055702298	3.841912415	-0.078127128	0.025364689
PTPRH	3.369811265	3.495215852	0.052713762	0.197044037
PTPRJ	5.027482907	5.03999512	0.003586065	0.849537449
PTPRK	7.074905795	7.150384092	0.015309802	0.25559134
PTPRM	7.861314907	7.737649169	-0.022875325	0.239241534
PTPRN	4.094901126	4.287300028	0.066240764	0.445067844
PTPRN2	6.183834238	6.301741746	0.027248985	0.113374783
PTPRO	3.757693623	3.982465831	0.08381454	0.143420686
PTPRR	3.115644616	3.275091437	0.072004503	0.054789562
PTPRS	3.531412781	3.512377099	-0.00779772	0.780475569
PTPRT	4.862625536	5.248066923	0.110050621	0.134400024
PTPRU	4.04412153	4.207116007	0.057005247	0.147618687

CYP4F11	2.16253896	2.343990627	0.116240676	0.000472006
PTRF	10.39434123	10.09376013	-0.042334618	0.079971249
PTRH1	6.420903974	6.517489113	0.021539845	0.188559036
PTRH2	8.362690523	8.355020711	-0.00132377	0.668362062
PTS	7.917329675	7.889567	-0.005067803	0.748376806
PTTG1	6.568536576	6.471367056	-0.021501475	0.066199475
PTTG1IP	8.799691252	8.658520859	-0.023332316	0.297242895
PTTG2	3.644482483	3.610997937	-0.01331637	0.350630878
PTTG3	2.00865453	2.065599014	0.040330762	0.350986706
PTX3	6.904851152	6.679851718	-0.047794237	0.598641403
PUF60	9.797677775	9.781238746	-0.002422658	0.304976868
PUM1	8.695548093	8.693029852	-0.000417867	0.767797908
PUM2	6.93971251	6.908429775	-0.006518062	0.233507814
PURA	9.683228026	9.664227542	-0.002833645	0.800665217
PURB	7.074376318	7.107856042	0.006811498	0.778358339
PURG	3.394392185	3.615820063	0.091169623	0.054789533
PUS1	7.926506477	7.966587007	0.007276633	0.600079407
PUS10	2.386516483	2.340615289	-0.028018473	0.432424818
PUS3	6.674647212	6.635099676	-0.008573447	0.443424596
PUS7	5.153111291	5.183126831	0.008378946	0.981837693

PUS7L	4.359298272	4.348242415	-0.003663546	0.975785217
PUSL1	6.492500695	6.575552669	0.018337893	0.084098643
PVALB	9.160708715	9.382293049	0.034481347	0.376114625
PVR	3.777579371	3.764713331	-0.004922055	0.776243242
PVRIG	4.088367934	3.96438257	-0.044428846	0.296604678
PVRL1	6.380578033	6.517531275	0.030638473	0.19042084
PVRL2	7.696824397	7.558022493	-0.026254521	0.041568194
PVRL3	4.624216497	4.541338634	-0.026091325	0.180121984
PVRL4	1.890235702	1.906927085	0.012683538	0.925800499
PVT1	3.620259517	3.646048746	0.01024073	0.601039365
PWP1	7.744082384	7.813349775	0.012846899	0.242839775
PWP2	6.368943887	6.346613577	-0.005067157	0.45750061
PWWP2A	4.648163503	4.646518232	-0.000510749	0.97633539
PWWP2B	7.961259868	7.865012711	-0.017547658	0.124973866
PXDN	5.061444993	5.030857042	-0.008745125	0.523850581
PXDNL	3.584011748	3.940911408	0.136953952	0.027959024
PXK	7.331037053	7.286014761	-0.00888738	0.429195727
PXMP2	5.949803556	5.975146873	0.00613214	0.402323759
PXMP3	6.242502086	6.229608817	-0.002982825	0.762008603
PXMP4	4.70401153	4.624507408	-0.024591895	0.157507923

PXN	10.13371762	10.10530435	-0.00405076	0.694158907
PXT1	1.912998669	1.875027317	-0.028924256	0.129446091
PYCARD	6.799498265	6.57904369	-0.0475504	0.236499288
PYCR1	6.131297483	5.920300317	-0.050522043	0.007330473
PYCR2	8.127737589	8.199048458	0.012602663	0.141168394
PYCR2L	5.948004464	6.133834606	0.044383536	0.025912195
PYDC1	2.955683338	2.982656746	0.013106245	0.997798321
PYGB	7.609917291	7.83151569	0.041410776	0.007560228
PYGL	9.058565384	9.182884183	0.019664763	0.116873864
PYGM	4.894117444	4.963623887	0.020345079	0.401936823
PYG01	2.122195464	2.16460338	0.028545164	0.611643064
PYG02	7.71531306	7.698484423	-0.003150243	0.638506188
PYHIN1	2.123396126	2.116622387	-0.004609625	0.683493011
PYROXD1	3.605025185	3.604308852	-0.000286698	0.929089364
PYY	2.318849709	2.225383239	-0.05935551	0.062035262
PYY2	5.261071384	5.409563796	0.040155641	0.165774941
PZP	2.322555166	2.297810289	-0.015453173	0.72031928
ProSAPiP1	5.928710735	6.038310592	0.026426558	0.804400526
QARS	4.903760623	5.059178514	0.04501459	0.046264129
QDPR	7.012565808	7.284744394	0.054935948	0.02563716

QKI	4.748800914	4.729924134	-0.005746231	0.603442048
QPCT	7.100641046	6.821346859	-0.057892653	0.059381298
QPCTL	2.246329808	2.362757894	0.072902047	0.060318107
QPRT	8.587586152	8.596718451	0.00153339	0.652369824
QRFPR	3.606572358	3.366348225	-0.099443947	0.153692633
QRICH1	7.515690987	7.493921986	-0.004184792	0.675910993
QRICH2	2.162258914	2.146674204	-0.010436032	0.431616298
QRSL1	4.345643841	4.440796345	0.031248471	0.01101894
QSER1	3.076562881	3.027314324	-0.023281003	0.396535121
QSOX1	9.574629	9.67721019	0.015374612	0.19632523
QSOX2	4.030270563	4.052345472	0.007880478	0.724453397
QTRT1	4.336192199	4.508978092	0.056371796	0.035858926
QTRTD1	6.895810503	6.793354014	-0.021596092	0.13404124
R3HCC1	8.058027728	8.167627493	0.0194903	0.34849825
R3HDM1	4.914173947	4.90543893	-0.002566694	0.811347529
R3HDM2	7.141891291	7.138473317	-0.000690612	0.987340845
R3HDML	2.012156093	2.018136345	0.00428142	0.722385325
RAB10	7.18365253	7.226487873	0.008577088	0.279085618
RAB11A	6.739948444	6.737373859	-0.000551199	0.808673622
RAB11B	4.10585104	4.142645077	0.012870935	0.404653949

RAB11FIP1	4.288424702	4.170552585	-0.040209241	0.203098667
RAB11FIP2	6.300203311	6.38374731	0.01900516	0.04470015
RAB11FIP3	8.25016196	8.129246824	-0.021300749	0.011260427
RAB11FIP4	5.59024749	5.839445606	0.062919252	0.137478618
RAB11FIP5	7.802676371	7.884098972	0.014976824	0.167254295
RAB12	3.554134927	3.591209401	0.014971326	0.452089398
RAB13	5.809547642	5.746018535	-0.015863187	0.690598361
RAB14	7.127403755	7.088042373	-0.007989424	0.220769121
RAB15	8.085548901	8.097437866	0.002119776	0.966434253
RAB17	2.841361775	3.05182757	0.103090918	0.075219811
RAB18	7.797138311	7.867713352	0.01299967	0.217922087
RAB1A	7.30192706	7.30501393	0.000609767	0.996147065
RAB1B	5.993583397	6.011186324	0.00423093	0.828509947
RAB20	4.130582755	4.185962965	0.019214212	0.729632302
RAB21	6.894627238	6.801100458	-0.019704352	0.191591672
RAB22A	5.727364642	5.600036965	-0.032435108	0.000381259
RAB23	3.831379775	3.72213962	-0.041731863	0.07938107
RAB24	8.001653748	7.988065634	-0.002452014	0.829585083
RAB25	2.018257166	1.958183796	-0.043593831	0.574901301
RAB26	3.82079347	4.057197641	0.086611307	0.0196806

RAB27A	4.572185411	4.419782458	-0.048908547	0.380220857
RAB27B	2.063464331	2.101220141	0.026158818	0.236499288
RAB28	3.644383106	3.794004289	0.058046683	0.400775562
RAB2A	7.861016318	7.882993817	0.004027798	0.869585949
RAB2B	3.478522411	3.515812528	0.015383529	0.25329144
RAB30	3.15231643	3.244732345	0.041687116	0.104690671
RAB31	8.442577437	8.378452148	-0.010999765	0.242840393
RAB32	6.031079848	5.735154183	-0.072584064	0.045513819
RAB33A	7.041131464	7.323947507	0.056814172	0.075106736
RAB33B	3.908840722	3.914196606	0.001975424	0.810812566
RAB34	10.21875632	10.0802718	-0.019685084	0.85765346
RAB35	8.479017781	8.581645162	0.017357098	0.007345454
RAB36	5.647958702	5.841897979	0.048707624	0.004739205
RAB37	6.44629951	6.502711585	0.012570216	0.653365108
RAB38	4.720692298	4.392657648	-0.103904385	0.072216974
RAB39	2.001988556	1.955075394	-0.034209484	0.840357564
RAB39B	4.16216347	4.342409465	0.061162142	0.124804617
RAB3A	4.092576404	4.242076268	0.051761209	0.38435475
RAB3B	4.136923007	4.262252113	0.043057824	0.349208362
RAB3C	4.023843596	4.15921512	0.047737075	0.242284821



RAB3D	5.552723265	5.411370746	-0.03720141	0.089430419
RAB3GAP1	7.763465815	7.721415324	-0.007835537	0.441375295
RAB3GAP2	7.774445735	7.834531634	0.011107205	0.478649574
RAB3IL1	4.756622159	4.687460359	-0.02113094	0.593857898
RAB3IP	7.481111517	7.676903246	0.037271829	0.054876348
RAB40AL	2.731460344	2.759577859	0.014775113	0.551615846
RAB40B	4.55329102	4.651600148	0.030817417	0.043827088
RAB40C	3.712870073	3.795851493	0.031888719	0.257036758
RAB42	3.959374695	3.95811507	-0.000459048	0.973584644
RAB43	6.813995623	6.755108528	-0.012522072	0.400388736
RAB4A	7.01258102	7.049986655	0.007674993	0.526999612
RAB4B	3.599827298	3.605147261	0.002130496	0.780475646
RAB5A	7.170523517	7.223841268	0.010687739	0.163886921
RAB5B	4.437955464	4.482766852	0.014494277	0.089430305
RAB5C	5.879680669	5.942188014	0.015256451	0.298203701
RAB6A	5.25701002	5.262940908	0.001626712	0.946649025
RAB6B	5.59591898	5.746023021	0.038188698	0.231618771
RAB6C	4.403786762	4.472253993	0.022257513	0.180346563
RAB7A	7.124012417	7.212709296	0.017851247	0.127366659
RAB7B	3.924425609	3.734821035	-0.071442399	0.131728298

RAB7L1	4.116960821	4.195498345	0.027262466	0.315840692
RAB8A	4.181668914	4.309703627	0.04350982	0.080689457
RAB8B	6.055789225	5.881663711	-0.042090693	0.003137491
RAB9A	8.207713358	8.228770007	0.003696453	0.601038974
RAB9B	3.404423536	3.477654796	0.030704202	0.38927527
RAB9P1	4.30349153	4.367270824	0.021224369	0.282161651
RABAC1	11.17456344	11.1443801	-0.003902101	0.305948988
RABEP1	5.991238258	5.987640394	-0.000866629	0.991743833
RABEP2	6.217386947	6.158898556	-0.013636004	0.383224685
RABEPK	7.602414974	7.669950261	0.012759446	0.335532041
RABGAP1	6.061168768	6.044146824	-0.004057307	0.878826575
RABGAP1L	6.382074775	6.248342577	-0.030551958	0.119145371
RABGEF1	6.308245629	6.360447563	0.01188945	0.814558815
RABGGTA	4.178652861	4.299694838	0.041196359	0.040341506
RABGGTB	8.716820007	8.718002331	0.00019567	0.815629443
RABIF	4.53061557	4.526011676	-0.001466774	0.990092677
RABL2A	8.34320853	8.346009092	0.000484188	0.795339063
RABL3	4.06606255	4.173581077	0.037653389	0.295329276
RABL4	7.400758755	7.365221211	-0.006944332	0.638999581
RABL5	8.380959397	8.514947535	0.022882237	0.165985513

RAC1	8.300105265	8.240175239	-0.010454615	0.317506862
RAC2	5.976982815	5.723919493	-0.062414014	0.241729358
RAC3	2.62222953	2.693710092	0.038800617	0.172402865
RACGAP1	3.837226523	3.840373845	0.001182824	0.690089757
RACGAP1P	2.011419212	2.008503239	-0.002093005	0.930734259
RAD1	4.098386927	4.039913739	-0.020731706	0.522952422
RAD17	6.320936954	6.384789718	0.014500681	0.33208188
RAD18	2.815623172	2.791724204	-0.01229784	0.70489028
RAD21	9.698613848	9.603529789	-0.014213801	0.213571478
RAD21L1	1.910480298	1.910678014	0.000149297	0.754134895
RAD23A	6.510067199	6.538261092	0.006234554	0.293105996
RAD23B	7.347995159	7.324930155	-0.004535673	0.580085493
RAD50	4.726448358	4.533546514	-0.060116405	0.000165498
RAD51	2.906444119	2.90876693	0.001152532	0.797468981
RAD51AP1	2.40966951	2.519797979	0.06447278	0.048577649
RAD51C	6.652851417	6.788550246	0.029130694	0.031698532
RAD51L1	2.378000291	2.352492528	-0.015558751	0.538781731
RAD51L3	3.630670828	3.625606535	-0.002013768	0.968084128
RAD52	3.200490629	3.05574938	-0.06676686	0.064886659
RAD54B	4.890472265	4.856481577	-0.010062302	0.826897498

<b>RAD54L</b>	2.650854159	2.510964958	-0.078215405	0.015055956
<b>RAD54L2</b>	6.727953927	6.701608901	-0.005660331	0.756756521
<b>RAD9A</b>	5.26889098	5.284621514	0.00430082	0.641960842
<b>RAD9B</b>	2.075143497	2.099744437	0.017002643	0.501199405
<b>RADIL</b>	6.670682325	6.493525627	-0.038832343	0.00696121
<b>RAE1</b>	5.382890662	5.443443768	0.016138533	0.586240872
<b>RAET1E</b>	2.032351623	2.00092931	-0.022479829	0.363232841
<b>RAET1K</b>	1.926620821	1.951035092	0.018167064	0.505158634
<b>RAF1</b>	7.47957245	7.447894592	-0.00612315	0.773072876
<b>RAG1</b>	2.70673294	2.648489042	-0.031383011	0.087240473
<b>RAG1AP1</b>	3.282333424	3.208752711	-0.032709187	0.159544941
<b>RAG2</b>	1.887922066	1.980803077	0.06928625	0.090739051
<b>RAGE</b>	8.870161079	8.96367731	0.015130409	0.694670387
<b>RAI1</b>	7.564933159	7.565323528	7.44E-05	0.895718608
<b>RAI14</b>	5.143673636	5.18594019	0.01180646	0.754134951
<b>RAI2</b>	6.730771967	6.634797148	-0.020719623	0.064586788
<b>RALA</b>	6.353853371	6.278264444	-0.017266	0.122282411
<b>RALB</b>	4.331621026	4.335976444	0.001449892	0.829585564
<b>RALBP1</b>	7.703887901	7.652272923	-0.009698382	0.144935471
<b>RALGDS</b>	6.252021185	6.41032743	0.036075382	0.033551009

RALGPS1	3.670705576	3.811014556	0.054117717	0.148973794
RALGPS2	2.823789086	2.950588289	0.063370293	0.147040758
RALY	6.556014523	6.621913831	0.014429187	0.19018737
RALYL	3.689978258	4.036044028	0.129329597	0.022285166
RAMP1	8.335598662	8.364154275	0.004933855	0.860363287
RAMP2	3.093267232	2.870241796	-0.107959197	0.024960596
RAMP3	5.599701781	5.406086007	-0.050765533	0.518474159
RAN	9.747791689	9.689647282	-0.008631271	0.405819963
RANBP1	8.566714894	8.5417875	-0.004204068	0.681467444
RANBP10	7.330988748	7.209453028	-0.024117983	0.022285134
RANBP17	4.252657728	4.254288373	0.000553083	0.56366626
RANBP2	7.909268821	7.841394465	-0.012434093	0.146463837
RANBP3	8.071626132	8.063463535	-0.001459693	0.903909662
RANBP3L	2.235343391	2.266643901	0.020061282	0.379846775
RANBP6	3.631580166	3.685272972	0.021174058	0.703353663
RANBP9	6.957463861	6.954247465	-0.000667104	0.95983621
RANGAP1	4.869282795	4.843081563	-0.007783991	0.899540012
RANGRF	9.268545887	9.297199838	0.004453249	0.380219607
RAP1A	6.633498669	6.588658366	-0.009785261	0.542433405
RAP1B	9.366276444	9.30756719	-0.009071494	0.742110643

RAP1GAP	3.706977907	3.854752838	0.056394842	0.16640797
RAP1GDS1	6.731747199	6.794785345	0.013446976	0.967534152
RAP2A	5.937472636	5.762747761	-0.043092086	0.009683322
RAP2B	3.805186219	3.650970444	-0.059687069	0.035015367
RAP2C	3.338438404	3.328769169	-0.004184591	0.877738597
RAPGEF1	4.02030751	4.024228063	0.001406213	0.996697487
RAPGEF2	7.289013291	7.240684873	-0.009597367	0.576312797
RAPGEF3	4.586498603	4.39404993	-0.061841937	0.028957538
RAPGEF4	3.581504623	3.658861077	0.030828835	0.307919289
RAPGEF5	3.480397808	3.361411817	-0.050184912	0.167891868
RAPGEF6	3.785778232	3.813356775	0.010471613	0.955439121
RAPGEFL1	2.588620834	2.625140535	0.020210995	0.484665945
RAPH1	6.149196046	6.180024338	0.007214717	0.740026918
RAPSN	2.263028748	2.308781232	0.028876566	0.224169619
RARA	7.354460013	7.217755993	-0.027069047	0.167042411
RARB	4.682750252	4.456278676	-0.071516641	0.046795509
RARG	3.176391815	2.992663606	-0.085958763	0.000668118
RARRES1	6.991353232	6.539955662	-0.096290873	0.503837029
RARRES2	8.623724066	8.729838176	0.017643894	0.449190168
RARRES3	8.708041589	8.795906577	0.014483983	0.538781489

RARS	9.818481728	9.784076824	-0.00506422	0.593855477
RARS2	9.106112053	9.097270838	-0.001401407	0.374255954
RASA1	4.763088828	4.862298113	0.029740895	0.11687417
RASA2	3.548906589	3.610315711	0.0247504	0.183963199
RASA3	2.522502364	2.45909612	-0.036727494	0.239793191
RASA4	7.221961881	7.362072556	0.027721163	0.131904899
RASA4P	2.28815502	2.164189056	-0.080358263	0.020305447
RASAL1	2.961034901	3.077243803	0.055537254	0.103077275
RASAL2	7.639146179	7.62533169	-0.002611304	0.919226624
RASAL3	6.561565219	6.348898648	-0.047533654	0.342501862
RASD1	11.53726109	11.69262075	0.019297554	0.261400115
RASD2	3.058081139	3.167818077	0.0508628	0.042053907
RASEF	3.107983848	2.999051683	-0.051472621	0.600079842
RASGEF1A	4.85739951	5.071820866	0.062319642	0.060129772
RASGEF1B	2.250854477	2.233369775	-0.011250651	0.820454442
RASGEF1C	2.857995179	2.87173138	0.006917324	0.852241332
RASGRF1	2.469523536	2.476098021	0.003835709	0.724453523
RASGRF2	4.026931728	4.076830141	0.017766835	0.35743712
RASGRP1	4.327836192	4.681645444	0.113369784	0.106473628
RASGRP2	7.652031391	7.642201831	-0.001854432	0.768325659

RASGRP3	4.677111735	4.496876754	-0.05669455	0.075445993
RASGRP4	2.468170887	2.392141718	-0.045139423	0.059195332
RASIP1	7.349833536	6.949813986	-0.080737211	0.073096145
RASL10A	6.254036053	6.50656069	0.057107613	0.117519819
RASL10B	4.122793728	4.29946312	0.060534237	0.041984112
CIB4	1.991032397	2.158133204	0.116267217	0.000897157
RASL11B	3.350615391	3.590141803	0.099614736	0.023611222
RASL12	3.781867503	3.796285972	0.005489854	0.943903426
RASSF1	8.015610298	7.966724944	-0.008825604	0.261404894
RASSF2	9.756117146	9.929318155	0.02538757	0.484664695
RASSF3	2.453345344	2.39834238	-0.0327127	0.55207702
RASSF4	9.009249503	9.297036958	0.04536406	6.37E-06
RASSF5	2.683491238	2.600820599	-0.04514429	0.1222825
RASSF6	2.044479185	2.104357394	0.041646371	0.919226624
RASSF7	5.949538106	6.078793577	0.03100736	0.151516057
RASSF8	4.707745649	4.76767638	0.018249936	0.331738285
RASSF9	2.047290735	2.142807697	0.06578639	0.084098754
RAVER1	6.929340311	6.954665923	0.005263203	0.826360062
RAVER2	2.71867949	2.742537218	0.01260512	0.49638267
RAX	8.20147043	8.58137381	0.065326038	0.127538973



RAX2	11.56706996	11.51819506	-0.006108804	0.528797322
RB1	7.41368153	7.311185972	-0.020084693	0.016770061
RB1CC1	7.255555841	7.216336359	-0.007819557	0.620866477
RBAK	2.94867198	2.999619838	0.024714329	0.877738684
RBBP4	7.004441543	7.016431176	0.002467377	0.867414314
RBBP5	2.578810238	2.567270761	-0.006470157	0.766218124
RBBP6	7.402106113	7.330622732	-0.014000058	0.05745297
RBBP7	10.28023556	10.33562722	0.007752618	0.078672019
RBBP8	4.559643907	4.538169028	-0.006810815	0.51981525
RBBP9	3.158515861	3.216750845	0.026357379	0.118655852
RBCK1	6.663697596	6.502779585	-0.035266408	0.02416924
RBKS	7.33058747	7.490599676	0.031152401	0.219471999
RBL1	2.216281576	2.221961704	0.003692766	0.830123342
RBL2	5.133815252	5.048500852	-0.024176335	0.113374697
RBM10	9.677538702	9.663439387	-0.002103411	0.775185037
RBM11	4.401563728	4.54540612	0.046393045	0.34496324
RBM12	7.432694907	7.566026176	0.025650377	0.149362651
RBM12B	5.222685854	5.166629915	-0.01556838	0.363961605
RBM14	6.913539179	6.819408056	-0.019777929	0.107223284
RBM15	3.649768609	3.672986268	0.0091485	0.69875187

<b>RBM15B</b>	6.122075331	6.099556049	-0.005316556	0.532421022
<b>RBM16</b>	5.801625159	5.780327486	-0.005305855	0.814023393
<b>RBM17</b>	7.873971497	7.881450155	0.001369614	0.815629659
<b>RBM18</b>	6.923967391	6.860409648	-0.013304205	0.357076881
<b>RBM19</b>	5.093000291	5.059615507	-0.009488045	0.293740136
<b>RBM20</b>	2.959057338	3.062934056	0.049776655	0.146848451
<b>RBM22</b>	4.930900311	4.932272986	0.000401565	0.963684765
<b>RBM23</b>	6.225306828	6.218941042	-0.001476005	0.885359411
<b>RBM24</b>	2.442610179	2.404250028	-0.022836703	0.502517557
<b>RBM25</b>	7.807245914	7.74649943	-0.011269195	0.248733856
<b>RBM26</b>	5.502379311	5.436513493	-0.017373868	0.127883827
<b>RBM27</b>	7.173487868	7.215749979	0.008474599	0.41247752
<b>RBM28</b>	6.105814748	5.983242662	-0.029256243	0.114162762
<b>RBM3</b>	7.601151927	8.067822049	0.085961193	0.01658185
<b>RBM33</b>	3.106197523	2.983284268	-0.05824812	0.017023871
<b>RBM34</b>	6.597042636	6.628969965	0.006965287	0.990643061
<b>RBM35A</b>	2.009231464	1.971079261	-0.027657981	0.196804738
<b>RBM35B</b>	3.189524358	3.181228394	-0.003757343	0.541976139
<b>RBM38</b>	3.234666728	3.244903486	0.004558491	0.385486908
<b>RBM39</b>	8.850158212	8.743229162	-0.017537033	0.019427939

<b>RBM4</b>	7.169804325	7.143476627	-0.005307362	0.971934329
<b>RBM41</b>	3.816938318	3.947163725	0.04840049	0.005889319
<b>RBM42</b>	7.963813318	7.951149986	-0.002295868	0.645917796
<b>RBM43</b>	3.922477252	4.026600831	0.03779738	0.370191483
<b>RBM45</b>	5.60780051	5.636122254	0.007267877	0.608260146
<b>RBM46</b>	2.290371974	2.149754415	-0.091410064	0.097655151
<b>RBM47</b>	4.534000079	4.504040944	-0.009564474	0.902817168
<b>RBM4B</b>	5.751844298	5.699511676	-0.013186306	0.505599862
<b>RBM5</b>	9.099703232	9.037752106	-0.009855509	0.140238758
<b>RBM6</b>	6.467872099	6.303770514	-0.037076135	0.01797242
<b>RBM7</b>	4.655511715	4.548669923	-0.033495004	0.020156907
<b>RBM8A</b>	8.899417199	8.853660437	-0.007436818	0.157100559
<b>RBM9</b>	4.874939026	4.867655655	-0.002157061	0.903363477
<b>RBMS1</b>	4.911659576	4.773680169	-0.041108661	0.138761835
<b>RBMS2</b>	3.663394934	3.514548035	-0.059842067	0.028957538
<b>RBMS3</b>	6.594832238	6.108745923	-0.110459724	0.028704993
<b>RBMX</b>	6.437856384	6.472590563	0.007762853	0.353843828
<b>RBMX2</b>	4.867092404	4.849819535	-0.0051291	0.933476358
<b>RBMXL2</b>	2.023961192	1.981019894	-0.030938259	0.929637618
<b>RBMY1B</b>	1.983931715	2.030932282	0.033779765	0.330365399

<b>RBM1E</b>	2.069276801	2.150193718	0.05534	0.19704377
<b>RBM2EP</b>	1.959689219	1.878357282	-0.061153376	0.060129741
<b>RBM2FP</b>	1.845348199	1.834886063	-0.008202582	0.284949197
<b>RBP1</b>	10.49431797	10.42531667	-0.009517202	0.648891605
<b>RBP2</b>	1.945554053	1.875198085	-0.053138062	0.282779616
<b>RBP4</b>	9.069234589	8.85680238	-0.034194869	0.467585771
<b>RBP5</b>	3.310900629	3.486054958	0.074371602	0.021372486
<b>RBP7</b>	6.720716861	6.753272021	0.006971545	0.792147822
<b>RBPJ</b>	7.780570053	7.674363049	-0.019828844	0.043252601
<b>RBPJL</b>	2.065479596	1.972675296	-0.066323302	0.063398471
<b>RBPMS</b>	6.293843748	6.064717472	-0.053500924	0.054269354
<b>RBPMS2</b>	4.178773927	4.108558183	-0.024447513	0.652370173
<b>RBX1</b>	8.728103828	8.823451528	0.015674851	0.047024484
<b>RC3H1</b>	7.379522066	7.335053296	-0.008719935	0.279699177
<b>RC3H2</b>	5.03872853	5.054804155	0.004595466	0.590996021
<b>RCAN1</b>	7.80746506	7.693847782	-0.021148921	0.508691737
<b>RCAN2</b>	10.77645025	10.76299777	-0.001802072	0.703863637
<b>RCAN3</b>	5.204341748	5.353442493	0.040751203	0.283088943
<b>RCBTB1</b>	5.838621258	5.796825852	-0.010364584	0.681468091
<b>RCBTB2</b>	6.588962947	6.468261634	-0.026673378	0.170028826

RCC1	3.049304881	2.984473239	-0.031004086	0.198725855
RCC2	7.007264225	6.841698965	-0.034496671	0.056108326
RCCD1	5.506050669	5.434667746	-0.018826049	0.406991516
RCE1	3.216327	3.253362662	0.016517562	0.314843464
RCHY1	7.867438689	7.871089669	0.000669345	0.881547619
RCL1	7.023552106	7.086812056	0.012935942	0.718771172
RCN1	7.719521311	7.760635	0.007663315	0.201146459
RCN2	8.86268351	8.993632993	0.021160418	0.018241935
RCN3	4.257256457	4.100223366	-0.054221496	0.145507975
RCOR1	4.144567139	4.101940669	-0.014914809	0.144366127
RCOR2	12.21297594	12.2502057	0.00439119	0.497681677
RCOR3	5.000859656	5.011739979	0.003135448	0.700284638
RCS D1	4.129546954	3.886364261	-0.087562386	0.093943092
RCVRN	10.58893376	10.70278468	0.015428883	0.546095124
RDBP	9.647940497	9.579219352	-0.01031292	0.054787712
RDH10	8.208535861	8.285282789	0.013426025	0.76885263
RDH11	8.737809695	8.929007014	0.031228059	0.038236569
RDH12	10.68236937	10.65647051	-0.003501988	0.617460191
RDH13	5.066292642	5.013008831	-0.015253638	0.262872869
RDH14	7.548287815	7.57787857	0.005644588	0.466317967

RDH16	2.414851126	2.471110423	0.033225229	0.333459368
RDH5	9.550734318	9.542403592	-0.001258955	0.811882161
RDH8	5.160613073	5.345752577	0.0508506	0.377232165
RDM1	2.289671689	2.315792373	0.016365163	0.312854824
RDX	6.246367159	6.010660986	-0.055493722	0.004698579
REC8	7.411817841	7.504824401	0.017990891	0.128056957
RECK	6.655392563	6.514267599	-0.03092078	0.167254598
RECQL	4.699356483	4.647107056	-0.016130331	0.393851145
RECQL4	5.198325669	5.181071437	-0.004796544	0.891354693
RECQL5	4.765214947	4.776498641	0.003412162	0.988441565
REEP1	6.665044	6.809558021	0.030946763	0.282470576
REEP2	10.69922515	10.86152054	0.021719767	0.332422591
REEP3	7.836140947	7.793819331	-0.007812859	0.96423462
REEP4	4.573707318	4.492069887	-0.025983674	0.192060985
REEP5	9.968022868	10.05026784	0.011854666	0.337958942
REEP6	10.16539913	10.32823251	0.022926524	0.477365128
REG1A	2.041174503	2.081948282	0.028534705	0.46885564
REG1B	1.978081099	1.982408289	0.003152548	0.726005717
REG1P	1.82893245	1.835134641	0.004884123	0.469278999
REG3A	2.042076026	2.057809894	0.01107313	0.800132948

REG3G	1.91426894	1.876039669	-0.029103198	0.564598443
REG4	2.001715113	2.034233993	0.023248976	0.299487034
REL	4.699546298	4.700635218	0.000334245	0.89844798
RELA	6.563493364	6.510052261	-0.011794757	0.492895628
RELB	7.918105351	7.909643289	-0.00154263	0.823137528
RELL1	8.914448801	8.962008803	0.007676548	0.434044046
RELL2	5.084116722	5.274213986	0.052958953	0.173926708
RELN	2.935001503	3.146892951	0.10056686	0.062616674
RELT	6.013942781	6.168748859	0.036666771	0.01497016
REM1	2.144852781	2.137945958	-0.004653242	0.767798393
REM2	1.995224742	2.059161739	0.045505892	0.549773282
REN	2.459835609	2.480183683	0.011885067	0.970284174
RENBP	3.728356417	3.721022141	-0.002840808	0.851700412
REPIN1	9.353055477	9.364494894	0.001763435	0.723934871
REPS1	8.315711073	8.470120683	0.026542892	0.034895983
REPS2	5.840392589	5.965445831	0.030564613	0.109040487
RER1	7.131157358	7.249210824	0.023687707	0.03401369
RERE	4.547153874	4.613721845	0.020967203	0.244234992
RERG	3.741747768	3.743815254	0.000796934	0.910470192
REGL	3.224804967	3.058408894	-0.076430609	0.25214694

RESP18	2.307477556	2.316752423	0.005787265	0.652867564
REST	4.619862556	4.579144063	-0.012771977	0.56646508
RET	3.769908232	3.923554915	0.057631987	0.339354431
RETN	3.110238934	3.144252542	0.015691683	0.811347551
RETNLB	2.116211921	2.11425807	-0.001332623	0.964234642
RETSAT	5.014377536	5.249064359	0.065989665	0.004708711
REV1	4.395366821	4.398567592	0.001050209	0.894081866
REV3L	7.198072748	7.198041317	-6.30E-06	0.937865376
REX01	2.306548444	2.183325035	-0.07920867	0.009761118
REX01L1	2.046901974	2.12498288	0.054009205	0.124804527
REX02	8.473286596	8.338880049	-0.023068031	0.269996577
REX04	5.247830079	5.196680479	-0.014130651	0.401162107
RFC1	7.188543377	7.200942979	0.002486378	0.921417263
RFC2	4.734599702	4.807171514	0.021945823	0.136023018
RFC3	2.434035623	2.443526768	0.005614626	0.421584873
RFC4	6.31211802	6.393494803	0.01848057	0.282779559
RFC5	5.723940503	5.802315528	0.019620075	0.253577945
RFESD	3.213532212	3.253742254	0.017940038	0.461268316
RFFL	4.584883762	4.687698627	0.031994663	0.139130278
RFK	6.577953424	6.588115063	0.002226959	0.737944063



RFNG	4.468330172	4.436638641	-0.010268741	0.343906534
RFPL1	2.30641251	2.334025697	0.017169878	0.391940667
RFPL1S	3.891220768	4.129193986	0.085637363	0.186480747
RFPL2	2.697548596	2.67607207	-0.01153198	0.705402708
RFPL3	1.910010391	1.938026493	0.021007806	0.275121932
RFPL3S	4.004370119	3.95222962	-0.018908559	0.426382895
RFPL4A	1.944980026	1.907949092	-0.027732662	0.514015652
RFPL4B	1.860672556	1.802433725	-0.045877977	0.163469341
RFT1	4.607095589	4.641781599	0.010821112	0.481222646
RFTN1	8.472432934	8.462596021	-0.001676013	0.573960574
RFTN2	3.368446881	3.283306162	-0.036934264	0.357437177
RFWD2	7.430071318	7.422538162	-0.001463453	0.826359777
RFWD3	3.936632874	4.014170176	0.028139605	0.20090358
RFX1	6.320826795	6.28760731	-0.007602165	0.198484848
RFX2	4.334807258	4.363096627	0.009384577	0.460429512
RFX3	3.208916556	3.221220134	0.005520981	0.373886816
RFX4	2.006376033	1.993294303	-0.009437285	0.70540244
RFX5	5.09394457	5.165986542	0.020260624	0.09246348
RFX6	1.865056861	1.912509634	0.0362474	0.514460202
RFX7	6.380070682	6.422446859	0.009550641	0.982938264

RFXANK	8.969575404	8.95691769	-0.002037345	0.561337603
RFXAP	3.509223146	3.559382239	0.020475182	0.260527663
RG9MTD1	7.785313318	7.778483662	-0.001266158	0.85819597
RG9MTD2	4.205909331	4.319487732	0.038442477	0.047718269
RG9MTD3	5.20405553	5.189561373	-0.004023751	0.554385064
RGAG1	2.029381113	2.04833619	0.013412697	0.555773022
RGAG4	3.69801749	3.773600732	0.029189738	0.27119691
RGL1	9.754489265	9.736511613	-0.002661359	0.641465622
RGL2	7.95390494	7.889696697	-0.01169348	0.367984779
RGL3	5.735920629	5.701541669	-0.008672991	0.959836291
RGL4	3.865134861	3.6197195	-0.094640849	0.145698793
RGMA	5.093010457	5.18280293	0.025213858	0.247322351
RGMB	4.977575391	4.936340754	-0.012001181	0.440966587
RGN	7.740962689	7.894412676	0.028318942	0.131375004
RGNEF	2.859556523	2.965489937	0.052479053	0.042263317
RGP1	5.786089483	5.822678789	0.009094399	0.452504381
RGPD1	2.26242396	2.308000232	0.028774065	0.658848311
RGPD2	5.319111245	5.39772407	0.021166019	0.335186318
RGPD5	8.050065464	7.970451155	-0.014339127	0.114795578
RGPD7	2.503755437	2.515120585	0.006533921	0.924156551

RGR	9.20824604	9.329819697	0.018922819	0.31021566
FAP	5.553101589	6.02186312	0.116916126	1.11E-06
RGS10	8.114204007	8.019790972	-0.01688494	0.528803613
RGS11	7.736533927	7.761177275	0.004588144	0.768325498
RGS12	6.20071196	6.153659239	-0.010989318	0.561804073
RGS13	2.069595351	2.057301	-0.008595831	0.850618781
RGS14	3.505051033	3.463997394	-0.016997605	0.306285468
RGS16	9.439488291	9.725656535	0.043086989	0.002002623
RGS17	2.146929543	2.144760683	-0.001458169	0.456249006
RGS18	4.262309755	3.873610415	-0.137956578	0.025455262
RGS19	3.170333113	3.153278444	-0.007781865	0.564598583
RGS2	9.709913728	9.421911373	-0.043438716	0.04921042
RGS20	5.610658205	5.389070669	-0.058133523	0.058548524
RGS22	3.491217139	3.56588081	0.030528392	0.187633212
RGS3	6.790574517	6.670545134	-0.025728972	0.017152075
RGS4	3.442336464	3.505906021	0.026399207	0.244234879
RGS5	8.809436742	8.413433979	-0.066355016	0.259942878
RGS6	3.42754802	3.27812312	-0.064306838	0.040679271
GPR37	5.066805629	5.497115401	0.117598281	0.011238352
RGS7BP	2.86688851	2.848151246	-0.009460041	0.773601408

RGS8	2.301404517	2.350714528	0.030584761	0.454998848
RGS9	5.010301417	4.783366965	-0.066870923	0.016519656
RGS9BP	7.283536371	7.57014312	0.055681484	0.098918182
RGSL1	1.922712397	1.944335796	0.016134423	0.966434225
RHAG	1.994727762	1.915298099	-0.05862291	0.429598974
RHBDD1	5.895317848	5.804556423	-0.022383776	0.059754533
RHBDD2	8.498408583	8.521565556	0.003925796	0.675406591
RHBDD3	7.412101411	7.419760803	0.001490058	0.984038857
RHBDF1	6.540585623	6.44711369	-0.020766391	0.337613453
RHBDF2	7.630886768	7.544330746	-0.016457793	0.724970722
RHBDL1	8.744044536	8.754775901	0.001769501	0.845754712
RHBDL2	2.206351735	2.214617021	0.005394429	0.658848387
RHBDL3	5.991722669	6.113815394	0.029102142	0.82582283
RHBG	2.345922113	2.42844562	0.049878065	0.07902749
RHCE	3.568750192	3.666261965	0.038890956	0.288068477
RHCG	4.77903902	5.088482951	0.090515057	0.052564894
RHD	2.011569735	1.940946127	-0.051561678	0.137295897
RHEB	7.403717245	7.401212831	-0.000488095	0.91648906
RHEBL1	2.91371857	2.907193134	-0.00323462	0.754659113
RHO	12.49754297	12.62234608	0.014335598	0.60846516

RHOA	9.493732695	9.365637035	-0.019598302	0.072544603
RHOB	4.873739497	4.850799697	-0.006806533	0.896810317
RHOBTB1	6.901513457	6.831144014	-0.014785563	0.331394632
RHOBTB2	7.372642881	7.495080528	0.023762102	0.00496848
RHOBTB3	5.660208086	5.667334444	0.00181525	0.862531771
RHOC	9.385927298	9.446329423	0.009254562	0.410512123
RHOD	3.116667371	3.155059338	0.017662948	0.916489149
RHOF	2.984039993	2.979922908	-0.001991863	0.806002349
RHOG	6.142191464	6.10033438	-0.009865161	0.654858552
RHOH	3.259057338	3.158008324	-0.04543976	0.234050099
RHOJ	5.498817185	5.508897282	0.002642239	0.992844631
RHOQ	7.105351914	7.134493732	0.005904954	0.737943973
RHOT1	3.408749199	3.495923408	0.036431121	0.275425825
RHOT2	8.622981351	8.686731331	0.010626658	0.541062426
RHOU	5.478633702	5.340873613	-0.036740405	0.256168987
RHOV	2.252672881	2.238086986	-0.00937172	0.84089693
RHOXF1	3.023701278	3.130361303	0.050013563	0.342853045
RHOXF2	1.964885583	1.982074401	0.012565813	0.796404011
RHOXF2B	1.956948033	1.954124507	-0.002083054	0.930185889
RHPN1	4.992268517	5.070329592	0.022383997	0.11463758

HECW1	2.326086007	2.524228852	0.117938273	0.007151115
RIBC1	5.315740821	5.455510458	0.037443427	0.085846618
PDK1	4.677172033	5.076020458	0.11806139	0.009586849
RIC3	4.512212556	4.45573331	-0.018172145	0.48337331
RIC8A	9.435393464	9.40489112	-0.004671439	0.670371115
RIC8B	2.439728371	2.462472697	0.013387196	0.80279957
RICH2	7.350791166	7.492883113	0.02762141	0.211296596
RICS	5.045196536	5.199422049	0.043440796	0.337266178
RICTOR	5.807195735	5.841769937	0.008563881	0.804400549
RIF1	3.80396706	3.840320197	0.013721851	0.328654325
RIG	1.947704762	1.948235155	0.000392817	0.967534152
RILP	7.427164517	7.474177711	0.009103331	0.611642979
RILPL1	6.43925653	6.39243138	-0.010529357	0.300130023
RILPL2	7.878864642	7.713895648	-0.03052812	0.513570449
RIMBP2	2.995921344	3.128126739	0.062299219	0.102060879
RIMBP3	3.200776675	3.166688141	-0.015447225	0.856571158
RIMKLA	5.54146004	5.811723535	0.068699934	0.306285699
RIMKLB	3.988328457	4.043339845	0.019763241	0.512681647
RIMS1	2.356937457	2.485773176	0.076781182	0.094214127
RIMS2	5.649950298	5.855638338	0.051588275	0.552076973

RIMS3	6.982259232	6.998108014	0.003271011	0.973034522
RIMS4	4.48096449	4.617883838	0.043422589	0.481223274
RIN1	3.550603351	3.419849803	-0.054131237	0.117843538
RIN2	5.528003722	5.502771359	-0.006600201	0.831737432
RIN3	3.426084974	3.362842852	-0.026879571	0.670874904
RING1	6.446660053	6.338810077	-0.024339866	0.041155867
RINT1	6.347287272	6.313273704	-0.00775184	0.291525587
RIOK1	4.750466	4.785804148	0.010692315	0.398074008
RIOK2	5.67380343	5.554661866	-0.030617077	0.040746962
RIOK3	4.573038801	4.617153838	0.013850642	0.470550822
RIPK1	5.180212901	5.191947606	0.003264432	0.926348573
RIPK2	4.956262947	4.917627282	-0.011290336	0.639492893
RIPK3	3.137091735	3.035418613	-0.047532226	0.28432831
RIPK4	4.593230073	4.513660732	-0.025211066	0.578669693
RIPPLY1	1.894273868	1.908978394	0.011155849	0.573960665
RIPPLY2	3.415566854	3.274699303	-0.060762593	0.036657864
RIT1	5.572684033	5.403689824	-0.044427491	0.050254259
RIT2	3.989443212	4.120121718	0.046499548	0.4227814
RLBP1	12.21858295	12.39233199	0.020370721	0.376095268
RLBP1L1	2.056302119	2.044288254	-0.008453609	0.738985341

RLF	6.835398285	6.886646894	0.010776303	0.358158398
RLN1	2.320772444	2.328734	0.004940786	0.850618816
RLN2	3.006359464	3.184054542	0.08284753	0.06994994
RLN3	2.277594325	2.270269958	-0.004646945	0.746286696
RLTPR	3.032715093	3.061658507	0.013703405	0.387377756
RMI1	6.915604199	7.141472711	0.046366315	0.004441944
RMND1	3.30607094	3.307221204	0.000501862	0.599600145
RMND5A	5.757470781	5.680710901	-0.0193637	0.240068458
RMND5B	7.050926497	7.095402493	0.009071684	0.238966377
RNASE1	9.765185556	9.590567817	-0.026031225	0.533779943
RNASE11	1.877545331	1.880690324	0.002414573	0.888628726
RNASE2	3.251845755	3.203989592	-0.021389367	0.8473756
RNASE3	2.433094285	2.341624169	-0.055282686	0.229740111
RNASE4	5.330419179	5.107214444	-0.061712353	0.089430419
RNASE6	4.915435232	4.718244246	-0.05906906	0.179898339
RNASE7	2.041192331	1.951056317	-0.065156705	0.112434683
RNASE8	1.922282351	1.951277965	0.021599049	0.614064418
RNASEH1	4.338877252	4.408659092	0.02301815	0.182600809
RNASEH2A	6.643380265	6.67657643	0.007191021	0.607777437
RNASEH2B	4.099790152	4.094211535	-0.001964423	0.930185922



RNASEH2C	9.253425152	9.07513719	-0.028068025	0.115910117
RNASEK	8.234453205	8.22795293	-0.001139313	0.827434569
RNASEL	5.634426795	5.529819155	-0.027036549	0.12979522
RNASEN	9.582331934	9.592833169	0.001580177	0.960385858
RNASET2	6.579845576	6.589231887	0.002056573	0.945550697
RND1	3.257595013	3.372752613	0.050119244	0.356356918
RND2	2.522067536	2.624276894	0.057313042	0.050011755
RND3	7.692540821	7.498364634	-0.036884211	0.247604123
RNF10	8.84975706	8.849436923	-5.22E-05	0.72548723
RNF103	7.594307212	7.614814711	0.003890571	0.710533478
RNF11	9.500608066	9.502923225	0.000351521	0.968084029
RNF111	5.832082397	5.799469359	-0.0080902	0.904456337
RNF112	6.860782954	6.810602648	-0.010590763	0.300130253
RNF113A	8.745198278	8.811128106	0.010835648	0.45416571
RNF113B	2.271833026	2.261366408	-0.006662034	0.779416891
RNF114	7.99698845	7.888229873	-0.01975521	0.093402078
RNF115	6.548156914	6.534316	-0.003052668	0.990643066
RNF12	4.181935391	4.120947528	-0.021194679	0.189488121
RNF121	4.43487855	4.580047563	0.046467984	0.011529372
RNF122	6.66882806	6.818709366	0.032065441	0.112278698

RNF123	4.90189547	4.886094423	-0.004657976	0.387378152
RNF125	2.498687159	2.484079754	-0.008458791	0.867957242
RNF126	9.050277695	9.170691056	0.019068392	0.058272737
RNF128	2.310873119	2.364484535	0.033087657	0.298203701
RNF13	7.833216338	7.891611768	0.01071518	0.177668398
RNF130	8.716562477	8.538191669	-0.029828747	0.090475538
RNF133	1.84691547	1.833793634	-0.010286544	0.578669648
RNF135	5.667071702	5.540073655	-0.032698299	0.610192343
RNF138	4.886244623	4.811901176	-0.022119078	0.213573008
RNF139	7.26167951	7.230977246	-0.006112622	0.522054756
RNF14	5.774564656	5.827704211	0.013215469	0.149362263
RNF141	6.377293669	6.534271106	0.035081996	0.00027743
RNF144A	2.436430616	2.416277958	-0.011982713	0.47267475
RNF144B	5.818351172	5.782217789	-0.008987425	0.738464612
RNF145	7.227053636	7.328881268	0.020185391	0.03003863
RNF146	6.671768139	6.680266542	0.001836515	0.890809396
RNF148	1.976826298	1.902164296	-0.055544247	0.03531474
RNF149	8.609006735	8.520844246	-0.014850416	0.292473351
RNF150	6.983397424	7.161479972	0.036328683	0.118818938
RNF151	2.607599311	2.574206901	-0.018594185	0.667358372

RNF152	2.691821338	2.711743627	0.010638132	0.557625258
RNF157	5.770871377	6.033660761	0.064244408	0.106773149
RNF160	3.607247656	3.66100719	0.021342132	0.402711705
RNF166	2.905666265	2.906921366	0.000623037	0.785244698
RNF167	9.110244993	9.208458028	0.015469743	0.139867913
RNF168	2.855776066	2.764202845	-0.047019367	0.181471166
RNF169	4.671373258	4.686852268	0.004772595	0.616489988
RNF17	1.963334212	1.947816732	-0.011447836	0.803866729
RNF170	4.118697709	4.201819148	0.028825824	0.554385442
RNF175	3.129903238	3.208428894	0.035748954	0.545180305
RNF180	3.292348258	3.345667254	0.023177019	0.238416678
RNF181	9.517183437	9.516527704	-9.94E-05	0.785773787
TTC12	5.546693821	6.022340486	0.118696186	3.81E-07
RNF183	2.751006788	2.819114366	0.035282307	0.216636799
RNF185	4.452186854	4.458178725	0.001940312	0.772545291
RNF186	1.923588934	1.959756669	0.026874003	0.593857854
RNF187	7.779493384	7.833005796	0.009889819	0.318176039
RNF19A	5.789985921	5.769161725	-0.005198133	0.38624266
RNF19B	3.578062715	3.627068831	0.019625449	0.479506918
RNF2	3.926217636	3.899474366	-0.009860478	0.375743154

RNF20	4.960514099	5.063741641	0.029714151	0.219472274
RNF207	2.733877596	2.745134577	0.005928227	0.468855799
RNF208	3.714307881	3.770709042	0.021742427	0.526099333
RNF212	2.197231642	2.238591479	0.026904301	0.519815648
RNF213	3.470736265	3.432312113	-0.016060993	0.464631951
RNF214	4.113123596	4.016146944	-0.034422368	0.027470839
LECT1	4.96023249	5.386735563	0.119003502	0.003632768
RNF216	5.620951662	5.610507155	-0.002683221	0.997798318
RNF216L	7.610784722	7.579246641	-0.005990758	0.401161938
RNF217	3.472587013	3.420344965	-0.021869007	0.301096346
RNF219	6.16365453	6.168920873	0.00123214	0.840896912
RNF220	9.332876974	9.38373862	0.00784095	0.330020532
RNF24	4.353597722	4.352486423	-0.000368309	0.795871538
RNF25	4.98026196	5.070966507	0.026039116	0.131728206
RNF26	8.050006358	8.092263585	0.00755339	0.345668015
RNF31	7.031279702	7.097569507	0.013537787	0.654858667
RNF32	2.102125609	2.118096437	0.010919399	0.701818627
RNF34	5.580622079	5.559323845	-0.005516525	0.557625164
RNF38	5.279615609	5.434326852	0.041668445	0.019826118
RNF39	2.089691179	2.138117387	0.03305131	0.231349519

RNF4	7.359863457	7.351895479	-0.001562745	0.713104125
RNF40	5.111410828	5.099750141	-0.003294987	0.83281384
RNF41	5.559020119	5.659052	0.025729791	0.486824354
RNF43	4.537675	4.624873028	0.027460475	0.174582862
RNF44	5.604328921	5.543605014	-0.015717163	0.173926554
RNF5	7.461940715	7.508884782	0.009047757	0.218437591
RNF6	5.564143099	5.515633246	-0.012632994	0.628680562
RNF7	9.924336457	9.818499817	-0.015468037	0.004862739
RNF8	4.48939006	4.482951535	-0.002070547	0.890809422
RNFT1	3.603248927	3.524417648	-0.031913427	0.1434204
RNFT2	5.456805616	5.673184782	0.056102202	0.026658182
RNGTT	5.142894563	5.186512387	0.012184164	0.534234705
RNH1	10.84814902	10.84209068	-0.000805924	0.56086496
RNMT	3.932450987	4.102279493	0.060997003	0.01088917
RNMTL1	6.164819874	6.101643415	-0.014860872	0.140425102
RNPC3	6.081736086	6.073451092	-0.001966687	0.922512882
RNPEP	4.164387338	4.163384254	-0.000347547	0.89299084
RNPEPL1	5.856770417	5.844881859	-0.002931478	0.924704519
RNPS1	6.429832556	6.507166796	0.017248366	0.180571349
RNU12	3.440658715	3.662148923	0.090005664	0.038624077

ROBLD3	7.903491563	7.834556521	-0.012638528	0.193237838
ROB01	4.636555106	4.589439845	-0.014735222	0.551155051
ROB02	2.826223974	2.951485261	0.062565336	0.064487012
ROB03	6.423690543	6.371055944	-0.011869888	0.047101281
ROB04	5.832128689	5.624478085	-0.052303324	0.716708737
ROCK1	5.240111185	5.119972246	-0.033461433	0.034364309
ROCK2	5.359724947	5.339301859	-0.005507851	0.625256761
ROD1	5.869517788	5.800980479	-0.016945219	0.282779789
ROGDI	5.487506192	5.713095282	0.058121928	0.073984295
ROM1	12.02614336	12.2621728	0.028040578	0.488294085
ROM01	10.36105305	10.40604274	0.006250899	0.190883914
ROPN1	5.199955854	4.789251092	-0.1186993	0.072765452
ROPN1B	4.813076762	4.450007697	-0.113151601	0.084969126
ROPN1L	3.552156934	3.783677324	0.091093738	0.045439361
ROR1	3.942078417	3.800995577	-0.052579129	0.129969943
ROR2	3.808231411	3.860459211	0.019651322	0.510906505
RORA	7.491644874	7.653697338	0.030874338	0.441374859
RORB	7.937277139	8.011078155	0.013352238	0.466318871
RORC	2.303271424	2.33862988	0.021979122	0.461268744
ROS1	1.963530848	1.971842254	0.006093878	0.677929616

RP1	6.480217967	6.594028479	0.025117778	0.92580034
RP1-21018.1	6.673617391	6.634372056	-0.008509056	0.161188542
RP11-129H15.2	8.358385649	8.447498035	0.015299785	0.337960671
RP11-138L21.1	3.148576	3.237763486	0.040298111	0.221811984
RP11-146D12.4	1.990166311	1.895026275	-0.070671145	0.037156788
RP11-165H20.1	1.895301159	1.854388099	-0.031483895	0.711561679
RP11-167P23.2	2.101385351	2.026465176	-0.052375363	0.794807232
RP11-216L13.5	2.182418139	2.211874655	0.019342091	0.51624221
RP11-218C14.6	1.834819934	1.922298254	0.067193708	0.087368046
RP11-251J8.3	2.258772947	2.22876612	-0.019294025	0.877738626
RP11-309M23.2	4.236120139	4.25819643	0.007498997	0.792679458
RP11-345P4.4	8.251098179	8.2516805	0.000101815	0.934573395
RP11-35N6.1	2.71898047	2.896588563	0.091288987	0.106923097
RP11-45B20.2	2.009581609	1.947089415	-0.045576029	0.358880248
RP11-529I10.4	7.236419603	7.37955612	0.028257976	0.21715017
RP11-544M22.4	7.263660636	7.31725407	0.010605553	0.644928124
RP11-631M21.2	6.854307921	7.111895944	0.053223211	0.139869047
RP11-93B14.6	2.131631795	2.206094697	0.049536463	0.211296759
RP11-94I2.2	10.43167021	10.36773632	-0.008869233	0.420786353
RP13-102H20.1	1.972982828	1.916875923	-0.041621444	0.261991835

RP13-36C9. 6	2. 197419007	2. 109633542	-0. 058817576	0. 109345412
RP13-401N8. 2	4. 02296047	3. 924521162	-0. 035740923	0. 120953602
RP1L1	5. 54415304	5. 648980261	0. 027023378	0. 853864405
RP2	5. 621996828	5. 51758693	-0. 027045185	0. 030143579
RP3-398D13. 1	1. 935790152	1. 907015972	-0. 02160564	0. 945550684
RP3-402G11. 5	6. 45148657	6. 475708937	0. 005406514	0. 927444669
RP3-527F8. 2	2. 462115232	2. 364074225	-0. 058622952	0. 04960988
RP4-621015. 2	2. 35091247	2. 385587634	0. 021123859	0. 651873015
RP4-662A9. 2	1. 889156881	1. 92039607	0. 023661377	0. 337961247
RP4-691N24. 1	7. 219056781	7. 18144493	-0. 007536203	0. 622816153
RP4-692D3. 1	3. 081409722	3. 025144289	-0. 026586569	0. 264346295
RP4-724E16. 2	2. 013659947	1. 923882894	-0. 065799086	0. 048814173
RP5-1000E10. 4	2. 760928609	2. 818294775	0. 029668932	0. 537415719
RP5-1022P6. 2	6. 762761119	6. 708024606	-0. 011724414	0. 316839992
RP5-1022P6. 6	2. 487320106	2. 481145352	-0. 003585933	0. 776771744
RP5-1077B9. 4	5. 939188172	5. 964022415	0. 006019937	0. 681467768
RP5-886K2. 1	2. 097239603	2. 130160556	0. 022470481	0. 353486452
RP6-166C19. 11	4. 758818967	4. 749255648	-0. 002902156	0. 912658283
RP9	6. 90492594	6. 837822648	-0. 014088937	0. 156900341
RP9P	6. 110762238	5. 989413521	-0. 028937606	0. 141916658



RPA1	9.328067278	9.371613225	0.00671922	0.491590316
RPA2	8.315704424	8.351698275	0.006231113	0.43770062
RPA3	8.654899781	8.685666085	0.005119376	0.703865387
RPA4	3.516292159	3.673276169	0.063012422	0.280928984
RPAIN	7.57846094	7.66394512	0.016182339	0.020156788
RPAP1	7.567986272	7.488037556	-0.015321801	0.00700457
RPAP2	4.115908616	4.195739373	0.027714114	0.197523383
RPAP3	4.380179205	4.352515599	-0.009140427	0.362505219
RPE	4.08386553	3.955975514	-0.045901867	0.060129741
RPE65	7.944720384	8.049587042	0.018918328	0.640479516
RPRGR	5.102825768	5.052029204	-0.014433404	0.369823082
RPRGRIP1	7.845919338	7.951955148	0.019367116	0.73534306
RPRGRIP1L	3.482113344	3.535834394	0.022087542	0.207540866
RPH3A	2.36698398	2.478434465	0.066379169	0.141729889
RPH3AL	5.547888715	5.673004423	0.03217414	0.139869047
RPIA	7.820904861	7.676675472	-0.026853874	0.092329871
RPL10	11.77307324	11.74369023	-0.003605152	0.620372343
RPL10A	12.55996846	12.49765484	-0.007175441	0.220746931
RPL10L	10.24521596	10.20661152	-0.005446408	0.537413875
RPL11	13.1116105	13.06599467	-0.005027946	0.418700085

RPL12	11.99932668	11.96802447	-0.003768424	0.590035387
RPL13	12.79037097	12.76871507	-0.002444756	0.506440027
RPL13A	13.08080948	13.0641747	-0.001835833	0.465326909
RPL13L	7.273222199	7.306303563	0.006547045	0.741590179
RPL14	12.02429932	12.00205356	-0.002671554	0.693639823
RPL15	10.77517466	10.69193808	-0.011187867	0.040743073
RPL17	11.30899491	11.28300204	-0.003319742	0.786828958
RPL18	11.08280249	11.08531965	0.000327632	0.83011971
RPL18A	11.4907392	11.44227992	-0.006097067	0.178981101
RPL19	13.33291155	13.3235168	-0.001016923	0.826864064
RPL21	11.50428528	11.52581977	0.002698009	0.427570328
RPL22	9.385456179	9.427153268	0.006395315	0.247884879
RPL22L1	9.968580245	9.884666373	-0.012195773	0.255590319
RPL23	11.90062228	11.88548801	-0.001835873	0.732740792
RPL23A	12.18181866	12.1064052	-0.008958989	0.07253489
RPL23AP13	4.963765596	4.716596775	-0.07368872	0.0212947
RPL23AP7	9.441026881	9.358187246	-0.012714691	0.081167484
RPL24	11.79873037	11.76783425	-0.003782792	0.488104434
RPL26	12.53525389	12.42635707	-0.012587802	0.005606274
RPL26L1	7.417460126	7.452382479	0.006776453	0.485096701

RPL27	12.43279764	12.37977131	-0.006166306	0.291821077
RPL27A	12.17531067	12.15349713	-0.002587081	0.814017078
RPL28	11.38758391	11.39851477	0.001384168	0.92360693
RPL29	10.51712564	10.46385148	-0.007326497	0.399612609
RPL29P2	7.268969623	7.241648289	-0.005432766	0.829585584
RPL3	13.04506158	13.07459929	0.003262977	0.212740198
RPL30	12.1120134	12.06850694	-0.005191503	0.541505371
RPL31	12.42347381	12.41384901	-0.001118129	0.981836857
RPL31P10	11.79385505	11.75296842	-0.005010187	0.54333928
RPL31P4	11.76561862	11.74134544	-0.002979441	0.732739228
RPL32	13.12229423	13.10057689	-0.002389631	0.54784714
RPL32P3	3.513247821	3.389772437	-0.051616921	0.009491182
RPL34	12.12324483	12.08710997	-0.004306556	0.367967755
RPL35	12.26721455	12.22474789	-0.005002988	0.126313243
RPL35A	12.9104485	12.88915539	-0.00238139	0.685998583
RPL36	11.40771679	11.38396969	-0.003006346	0.814554189
RPL36A	12.27938128	12.23862666	-0.004796193	0.439316582
RPL36AL	11.71315667	11.64317833	-0.008644995	0.077618497
RPL37	11.17170838	11.07236038	-0.012887015	0.164719453
RPL37A	12.76446273	12.68898932	-0.008555651	0.054331406

RPL38	13.05219614	12.99239985	-0.006624634	0.701278582
RPL39	11.87833258	11.76740015	-0.013536721	0.077386868
RPL39L	4.387127788	4.385385507	-0.000573058	0.844134966
RPL3L	2.680212192	2.720516296	0.021533247	0.332426109
RPL4	10.96995868	11.03322905	0.008296989	0.104538579
RPL41	13.57106334	13.52575742	-0.004824381	0.710913307
RPL5	11.29689911	11.25926258	-0.004814479	0.98513918
RPL6	11.38666567	11.41511418	0.003599943	0.213050848
RPL7	10.27022135	10.2883467	0.00254389	0.763584184
RPL7A	11.83016758	11.80175374	-0.00346925	0.548378862
RPL7AP11	8.586796656	8.585638345	-0.000194625	0.956538219
RPL7L1	6.707752444	6.733727197	0.005575829	0.687549677
RPL8	12.49190164	12.47716866	-0.001702522	0.584322224
RPL9	11.65561795	11.61466192	-0.005078333	0.397291842
RPLP0	12.94433525	12.93870154	-0.000628034	0.967531144
RPLPOP2	13.1009736	13.1357928	0.003829245	0.438039886
RPLP1	13.69163244	13.6592517	-0.003416017	0.559266322
RPLP2	13.46663549	13.39482614	-0.007713597	0.615929342
RPN1	8.600599411	8.629347754	0.004814307	0.786305345
RPN2	7.664778709	7.74332512	0.014709078	0.450431024

RPP14	6.275765411	6.255036352	-0.004773156	0.613095225
RPP21	8.284558921	8.208019077	-0.013390805	0.013342371
RPP25	7.126894053	7.238715507	0.022460239	0.505599609
RPP30	4.132007351	4.069972401	-0.021823809	0.230007587
RPP38	6.213593828	6.279045465	0.015117321	0.186250484
RPP40	4.084794079	4.068119993	-0.005901118	0.454582575
RPRD1A	5.737790881	5.778513683	0.01020307	0.467586196
RPRD1B	5.476965424	5.504781035	0.007308406	0.529707086
RPRD2	7.100330669	7.089837887	-0.002133574	0.559480588
RPRM	4.240585444	4.475455296	0.077771005	0.011018997
RPRML	2.716440477	2.87735462	0.083025602	0.114320978
RPS10	11.5666084	11.51009676	-0.007065933	0.227061619
RPS11	13.51592121	13.45032844	-0.007018443	0.094933949
RPS12	11.98602383	11.93044513	-0.006705276	0.380963057
RPS13	12.24881619	12.27359168	0.00291517	0.716175444
RPS14	11.94924225	11.89193539	-0.006935604	0.314492796
RPS15	12.5500927	12.5725082	0.002574473	0.253507671
RPS15A	11.03233634	10.94260968	-0.011781501	0.104982311
RPS16	12.78432358	12.72609696	-0.006585811	0.053629161
RPS17	13.09276581	13.04646792	-0.005110618	0.457026204

RPS18	12.60841204	12.43700918	-0.019746996	0.007874642
RPS19	11.66124846	11.57051581	-0.011269072	0.041632658
RPS19BP1	9.495332536	9.463804634	-0.004798234	0.645421522
RPS2	11.87422269	11.80163482	-0.008846353	0.21868724
RPS20	13.42943914	13.42231489	-0.000765546	0.775141059
RPS21	12.25605138	12.19067134	-0.007716674	0.150518636
RPS23	12.36728064	12.24863827	-0.013906942	0.064177581
RPS24	12.56408348	12.54648864	-0.002021777	0.774642592
RPS25	12.81283875	12.76100077	-0.005848672	0.141500289
RPS26	11.48242775	11.51701941	0.004339692	0.767268429
RPS27	13.6697919	13.57681246	-0.009846475	0.229798097
RPS27A	12.48588699	12.45862311	-0.003153678	0.56784572
RPS27L	9.647169079	9.416464359	-0.034920185	0.008511012
RPS28	13.2349985	13.23501492	1.79E-06	0.656290272
RPS29	12.72189482	12.67394192	-0.005448255	0.558984243
RPS3	10.9294495	10.82241013	-0.014198916	0.0565502
RPS3A	11.65824405	11.59463694	-0.007892863	0.581017393
RPS4X	12.53668301	12.54592507	0.001063165	0.67237227
CLGN	5.532740642	6.010000127	0.119370725	0.012370524
RPS4Y2	6.995072993	6.141268613	-0.187802406	0.022815831

RPS5	9.338061563	9.281952979	-0.008694711	0.31683826
RPS6	13.08614434	13.07656729	-0.001056219	0.963130674
RPS6KA1	5.186055901	5.173788965	-0.003416548	0.986790509
RPS6KA2	9.152406709	9.286198148	0.020936902	0.007121415
RPS6KA3	6.630045411	6.592954141	-0.008093705	0.503836826
RPS6KA4	4.593332086	4.551352901	-0.013245637	0.623792066
RPS6KA5	5.227284503	5.2756585	0.013289498	0.385486625
RPS6KA6	2.428849318	2.545771127	0.067829732	0.044700328
RPS6KB1	5.27958045	5.246091873	-0.009180215	0.253004424
RPS6KB2	3.132245026	3.214384782	0.037345564	0.209037566
RPS6KC1	5.385309755	5.431303528	0.012269162	0.469702782
RPS6KL1	2.901329748	3.053609197	0.073801164	0.032250383
RPS6P1	3.747980868	3.73198012	-0.006172287	0.998348739
RPS7	11.71266058	11.69163913	-0.002591622	0.585282061
RPS8	13.73107452	13.65613631	-0.007895164	0.137067015
RPS9	9.531164166	9.580633345	0.007468591	0.153293057
RPSA	10.23342961	10.18232852	-0.007222209	0.128399255
RPTN	1.82949351	1.850945021	0.016817746	0.558088458
RPUSD1	6.384143834	6.48191581	0.021927127	0.019072499
RPUSD2	7.491421199	7.541878824	0.009684532	0.378351124

RPUSD3	5.435334702	5.477243359	0.011081105	0.299808298
RPUSD4	6.824804748	6.796305528	-0.006037062	0.625745171
RQCD1	4.438558305	4.319952817	-0.039075593	0.062713772
RRAD	7.307061172	7.091037901	-0.043294478	0.025455227
RRAGA	10.38609138	10.42419837	0.005283619	0.354557429
RRAGB	3.022941616	3.128303056	0.049427166	0.041019285
RRAGC	8.605522298	8.636111423	0.0051191	0.258194761
RRAGD	5.391449007	5.468222965	0.020399005	0.255015108
RRAS	8.802980596	8.680751225	-0.02017219	0.222856602
RRAS2	3.968240636	4.038587493	0.025351281	0.376114966
RRBP1	7.781712079	7.704177923	-0.014446581	0.28744266
RREB1	2.370901596	2.332962162	-0.023272877	0.516688161
RRH	7.470256848	7.885094824	0.077970257	0.00316564
RRM1	8.038682219	8.091320049	0.009416069	0.535596596
RRM2	2.098055762	2.07134362	-0.018486117	0.134939334
RRM2B	4.521504424	4.607287662	0.027114802	0.15389144
RRN3	4.633737166	4.58030257	-0.01673331	0.167042512
RRP1	7.422268007	7.419544986	-0.000529381	0.858737475
RRP12	4.391846609	4.419324282	0.00899813	0.634568614
RRP15	4.518460755	4.481527852	-0.011840729	0.559945099



RRP1B	5.437161523	5.382469514	-0.014585444	0.647404877
RRP7A	6.022889881	6.062708528	0.009506583	0.529707037
RRP7B	5.161650166	5.148596599	-0.003653128	0.554385489
RRP9	5.579673106	5.64245419	0.016142199	0.341800876
RRS1	6.814001954	6.790640246	-0.004954758	0.869586103
RS1	9.862526815	9.992364155	0.018868737	0.363595135
RSAD1	7.401955682	7.454523099	0.010209562	0.151122004
RSAD2	3.624247338	3.630955648	0.002667892	0.964234659
RSBN1	3.096302682	3.168842028	0.03340923	0.253578115
RSBN1L	4.204981126	4.155489366	-0.017080941	0.990092689
RSC1A1	4.690158927	4.777493465	0.02661709	0.21255936
RSF1	6.923122272	6.947290873	0.005027674	0.663848719
RSHL1	2.383160272	2.416763239	0.020200167	0.458336692
RSHL3	2.509968603	2.639682507	0.0726951	0.013973857
RSL1D1	6.584297854	6.599800239	0.003392758	0.917583887
RSPH1	6.529576397	6.703398225	0.037903241	0.50824955
RSPH10B	2.224480212	2.16183862	-0.041209434	0.244794098
RSPH3	5.636581762	5.62973762	-0.001752837	0.984589179
RSP01	3.181446728	3.090243437	-0.041962473	0.287755655
RSP02	5.226686219	4.758931289	-0.135258926	0.063891432

GLDN	2.658057238	2.889047021	0.120221513	0.000220628
RSPRY1	4.039406623	4.010173704	-0.010478651	0.341450497
RSRC1	5.878937457	5.868682768	-0.002518705	0.758856255
RSRC2	7.889676066	7.861101007	-0.00523468	0.733783671
RSU1	4.188702781	4.060127627	-0.04497844	0.010219533
RTBDN	9.916966099	9.97162719	0.007930122	0.971384208
RTCD1	7.29465449	7.220964246	-0.014648148	0.126337029
ABCB9	2.821336199	3.068645042	0.121223183	0.000507357
RTEL1	5.529481219	5.387252486	-0.03759445	0.099909752
RTF1	5.767480066	5.872763866	0.026098518	0.068366526
RTKN	4.353519291	4.234888746	-0.039858047	0.084470888
RTKN2	2.07285502	2.080229958	0.005123804	0.451674468
RTN1	6.360437974	6.524838577	0.036816099	0.423579968
RTN2	5.587800576	5.614464746	0.006867957	0.706940627
RTN3	9.547139265	9.575748641	0.004316778	0.558551235
RTN4	9.508182517	9.746346915	0.035691978	0.131021571
RTN4IP1	7.051854702	7.126457908	0.015182437	0.381721044
RTN4R	5.666324609	5.760682077	0.023826388	0.611159505
RTN4RL1	6.344303126	6.513115451	0.037886096	0.265825404
RTN4RL2	2.792089159	2.770084176	-0.011415195	0.522503689

RTP1	2.008843742	2.091329993	0.058055376	0.015491374
RTP3	1.84410857	1.86820262	0.018727339	0.518920907
RTP4	5.549771702	5.378617951	-0.045192909	0.626234405
RTTN	3.612410351	3.439095437	-0.070932633	0.001052524
RUFY1	8.834437192	8.785612282	-0.007995396	0.253290194
RUFY2	5.244153305	5.346427845	0.027865432	0.272400435
RUFY3	4.720300483	4.858092007	0.041511112	0.313516802
RUNDC1	5.373498119	5.504699155	0.034802138	0.038494569
RUNDC2A	7.18527	7.175975028	-0.0018675	0.904456303
RUNDC2B	5.186081238	5.188386599	0.000641176	0.89080937
RUNDC2C	3.571252252	3.582295324	0.004454237	0.692633297
RUNDC3A	5.756633748	5.904819676	0.036667575	0.987891214
RUNDC3B	4.030054113	3.96732012	-0.022634398	0.391177578
RUNX1	4.116906497	4.076934359	-0.014075954	0.615519491
RUNX1T1	7.553854152	7.404012303	-0.028905636	0.074207576
RUNX2	2.984072179	2.83193862	-0.075492436	0.107223619
RUNX3	3.732870894	3.418124683	-0.127080589	0.034188744
RUSC1	5.364792384	5.351604556	-0.003550825	0.800133112
RUSC2	7.625008291	7.57539931	-0.009416969	0.117196536
RUVBL1	3.606400139	3.689936401	0.033036474	0.036657797

RUVBL2	7.615691709	7.651556077	0.006778097	0.367251282
RWDD1	8.969390325	8.932791908	-0.00589877	0.234863467
RWDD2A	4.834721033	4.917991528	0.024636602	0.167042613
RWDD2B	4.360988742	4.304622014	-0.018768705	0.357076651
RWDD3	6.29128502	6.406451592	0.026170774	0.157711061
RWDD4A	5.359524868	5.298896141	-0.016413258	0.38813639
RXFP1	2.252821457	2.1238	-0.085085067	0.063990415
RXFP2	1.955083344	1.902617148	-0.039244824	0.408554583
RXFP3	2.641778583	2.644164556	0.00130241	0.912111236
RXFP4	2.039928424	2.082321563	0.029674342	0.266418766
RXRA	7.476417139	7.332163873	-0.028108035	0.03213919
RXRB	6.037323689	6.090147542	0.012568027	0.591949423
RXRG	2.993939013	3.049280373	0.026423975	0.362505334
RYBP	8.046396477	8.005941648	-0.007271726	0.661346398
RYK	5.015797735	4.886916915	-0.037554595	0.035194638
RYR1	4.356606212	4.519509768	0.052961576	0.00024518
RYR2	4.64120598	4.832333218	0.058220214	0.260820112
RYR3	2.875125993	2.932269134	0.028392346	0.313185698
S100A1	4.207120781	4.455078394	0.082617582	0.000944862
S100A10	9.372578669	9.096692894	-0.043103881	0.003600762

<b>S100A11</b>	6.289094715	6.030539458	-0.0605653	0.060412459
<b>S100A12</b>	6.236195166	5.652042303	-0.141893815	0.047640892
<b>S100A13</b>	10.41155976	10.53309715	0.016743492	0.30400255
<b>S100A14</b>	2.056638993	2.052956592	-0.002585454	0.681974151
<b>S100A16</b>	6.529088682	6.564803162	0.007870117	0.599120578
<b>S100A1L</b>	1.854681298	1.871189887	0.012784669	0.960935752
<b>PPAPDC1A</b>	2.277544861	2.477269915	0.121271597	0.001660732
<b>S100A3</b>	2.473329053	2.477968866	0.002703872	0.843595119
<b>S100A4</b>	8.150483517	7.884141331	-0.047932009	0.272400264
<b>S100A5</b>	2.625567583	2.585702007	-0.022073312	0.466318924
<b>S100A6</b>	11.14403216	10.99496171	-0.019428746	0.552534925
<b>S100A7</b>	2.088070483	2.061950951	-0.018160397	0.689581537
<b>S100A7A</b>	1.812616086	1.846786345	0.026943577	0.567866916
<b>S100A8</b>	9.703407563	9.379378993	-0.048999065	0.346020632
<b>S100A9</b>	6.360153795	6.046349951	-0.07299717	0.224959446
<b>S100B</b>	7.185703093	7.298925718	0.022554813	0.550694256
<b>S100G</b>	1.871795411	1.891983021	0.015476387	0.593380427
<b>GCGR</b>	3.055605722	3.324347493	0.121612796	0.013188829
<b>S100PBP</b>	5.753331285	5.63623807	-0.029664994	0.004394071
<b>S100Z</b>	2.305778623	2.232630669	-0.046509392	0.132614246

S1PR1	6.721235801	6.749229831	0.005996364	0.864701097
S1PR2	4.988079232	5.086324641	0.028139165	0.308902124
S1PR3	3.424858993	3.395572423	-0.012389788	0.593380472
S1PR4	5.58249098	5.231193746	-0.093768811	0.124127842
S1PR5	2.488966834	2.438266528	-0.02969117	0.409337399
SAA1	8.652184093	8.483085683	-0.028475228	0.77096193
SAA2	5.955523404	5.879864641	-0.018445362	0.697220432
SAA3P	2.105919007	2.083935225	-0.015139516	0.954340029
SAA4	2.598758987	2.583498887	-0.00849658	0.789490851
SAAL1	3.71777645	3.584894634	-0.052509307	0.027519439
SAC3D1	6.531560278	6.541064007	0.002097664	0.70233025
SACM1L	6.11307449	6.024612775	-0.02102963	0.111811513
SACS	6.05008949	6.099614563	0.011761599	0.646909001
SAE1	8.187163377	8.202973085	0.00278321	0.852241123
SAFB	6.263232046	6.275350423	0.002788693	0.980186869
SAFB2	6.706873417	6.698385394	-0.001826989	0.794807065
SAG	11.67906808	11.82693896	0.018151565	0.735567984
SAGE1	1.92193296	1.877399789	-0.033822112	0.452504489
SALL1	2.719009318	2.766391965	0.024924488	0.625745665
SALL2	7.992100662	8.123396458	0.023508302	0.394616597

SALL3	2.081411146	2.169638085	0.059892436	0.125313532
SALL4	4.352372636	4.174657296	-0.060144311	0.090870922
SAMD1	4.05094596	3.98194612	-0.02478514	0.270296361
SAMD10	2.383551033	2.25472481	-0.080161152	0.029314222
SAMD11	9.141937881	9.036743831	-0.016696989	0.255302799
SAMD12	3.212103258	3.253312134	0.018390975	0.296285252
SAMD13	2.339588232	2.390372965	0.030981099	0.111967114
SAMD14	3.536000636	3.662833373	0.050841538	0.134759502
SAMD3	2.915712086	2.894687148	-0.010440834	0.39117786
SAMD4A	4.720072881	4.676930261	-0.013247219	0.524299759
SAMD4B	3.17086006	3.110666113	-0.027650658	0.236226196
SAMD5	6.460098589	6.333543225	-0.028543358	0.047563329
SAMD7	4.25100004	4.526547155	0.090608711	0.265825633
SAMD8	3.030193291	2.962853894	-0.032422339	0.111655998
SAMD9	3.527710483	3.398052528	-0.054024011	0.267012867
SAMD9L	4.778269788	4.629264746	-0.04570524	0.239793191
SAMHD1	2.882104927	2.771759465	-0.056320795	0.153891588
SAMM50	8.603430351	8.616153099	0.002131881	0.513125395
SAMSN1	4.47605404	4.481452577	0.001738976	0.924156542
SAP130	5.803547199	5.781055014	-0.005602161	0.582922231

SAP18	9.18405294	9.219581908	0.00557037	0.038621944
SAP30	8.350456682	8.465098444	0.019671746	0.127538428
SAP30BP	6.713199583	6.710449627	-0.000591098	0.725488047
SAP30L	6.595310775	6.499892866	-0.021024702	0.044626968
SAPS1	4.537448894	4.711013268	0.054156001	0.021765187
SAPS2	4.250025861	4.284788873	0.011752499	0.548853305
SAPS3	4.450464603	4.439091056	-0.003691651	0.830123481
SAR1A	8.425374258	8.351937556	-0.012629847	0.331737247
SAR1B	5.955440934	5.789494437	-0.040770956	0.024650141
SAR1P3	2.064776113	1.96177362	-0.073826786	0.007974161
SARDH	3.495961417	3.44050069	-0.02307073	0.10995788
SARM1	4.778824563	4.886289648	0.03208358	0.409337455
SARS	8.859690232	8.827401831	-0.005267386	0.942805184
SARS2	5.182469192	5.255016387	0.020055628	0.290895181
SART1	7.359956656	7.338117979	-0.00428717	0.429598974
SART3	4.339069371	4.364916028	0.008568248	0.685520317
SASH1	9.196895993	9.254972768	0.00908172	0.240619326
SASH3	3.951486616	3.890383683	-0.022483076	0.605367314
SASS6	2.640604861	2.705532507	0.035044142	0.447538861
SAT1	9.995443841	9.87430719	-0.017591102	0.458753499



SAT2	11.57499788	11.57744866	0.00030543	0.953239881
SATB1	8.38870098	8.306882676	-0.014140243	0.023909892
SATB2	2.440911887	2.443025338	0.001248609	0.904456326
SAV1	6.944538497	6.706328493	-0.050355671	0.000559284
SBDS	7.366003583	7.302985183	-0.012395795	0.240898069
SBF1	5.768836841	5.818613831	0.01239504	0.390035652
SBF2	4.362513801	4.299111944	-0.021121019	0.17088908
SBK1	2.437801974	2.388562739	-0.029438166	0.535142714
SBK2	3.130425993	3.177220007	0.021405998	0.288694637
SBN01	5.936992291	5.977763359	0.009873546	0.652370096
SBN02	4.02067498	3.96313543	-0.020795449	0.580558209
SC4MOL	3.469311695	3.686587542	0.087636552	0.014190053
SC5DL	5.646107623	5.712837077	0.016950758	0.30465746
SC65	4.995835728	4.914485746	-0.023685579	0.245074466
SCAF1	4.008600424	4.057397711	0.017456107	0.17261998
SCAMP1	5.378801616	5.495281951	0.030908725	0.191826196
SCAMP2	5.004236364	4.994989711	-0.002668227	0.873388942
SCAMP3	6.569304053	6.619241092	0.010925278	0.263461341
SCAMP4	3.846829252	3.816035986	-0.011595018	0.372036277
SCAMP5	8.145055119	8.353355246	0.036431332	0.440148408

SCAMPER	1.874725702	1.923222444	0.036846112	0.486824146
SCAND1	6.500817695	6.583880155	0.018316878	0.064586756
SCAND2	3.360035245	3.463691993	0.043834279	0.014998683
SCAND3	2.45117902	2.548480704	0.056161576	0.109498508
SCAP	9.302834384	9.314612232	0.001825368	0.960385882
SCAPER	6.038500325	6.129861423	0.021664162	0.701818729
SCARA3	7.295865735	7.461242655	0.032336748	0.040207243
SCARA5	7.986317099	7.412238035	-0.107621143	0.03628711
SCARB1	9.615899424	9.797330338	0.026966878	0.00155793
SCARB2	6.061315079	5.946821944	-0.027511959	0.327630731
SCARF1	4.071593225	3.947251592	-0.044744958	0.221290498
SCARF2	6.29919447	6.244996373	-0.012466617	0.499883495
SCARNA17	9.020124113	9.110336824	0.014357109	0.648892504
SCCPDH	8.469066325	8.606967979	0.023302174	0.033839297
SCD	5.244354232	5.518121021	0.073411961	0.035254656
SCD5	5.860069907	6.038883923	0.043364067	0.39884463
SCEL	1.979898457	1.937099345	-0.031528496	0.110727251
SCFD1	7.582393623	7.597879204	0.002943423	0.602480405
SCFD2	5.313923285	5.291471754	-0.006108355	0.59051974
SCG2	4.573175013	4.662417176	0.027881966	0.724970785

SCG3	5.769914517	5.90919912	0.034412669	0.937316655
SCG5	7.935471099	8.298116275	0.064468	0.103661512
SCGB1A1	3.037927543	3.022860331	-0.007173139	0.470550981
SCGB1C1	2.378547808	2.473235965	0.056318867	0.183508374
PTPRZ1	4.948769053	5.384930923	0.121858121	1.88E-06
F5	2.860632821	3.113335662	0.122126797	0.001124104
SCGB2A1	1.948236377	2.024331282	0.055276678	0.187864208
SCGB2A2	1.866675252	1.822506563	-0.034546951	0.377604887
SCGB3A1	3.443980894	3.589094218	0.059542657	0.383977835
SCGB3A2	4.495021781	4.457566965	-0.012071635	0.529706742
SCGN	6.313803053	6.565341866	0.056360877	0.059941954
SCHIP1	8.315940152	8.357149923	0.007131642	0.837122612
SCIN	3.044549132	3.037618986	-0.003287674	0.91484713
SCLT1	6.592735437	6.690179021	0.021167628	0.589092002
SCLY	5.751192589	5.767454077	0.004073462	0.672384415
SCMH1	5.509010351	5.540708754	0.00827736	0.370559827
SCML1	5.08511945	5.167805528	0.023270117	0.389275383
SCML2	2.01855951	2.018578901	1.39E-05	0.875019638
SCML4	2.369845523	2.323242268	-0.028653415	0.633585638
SCN10A	1.953892702	1.997166739	0.031603542	0.502957263

SCN11A	2.041299285	1.998950599	-0.0302449	0.604404294
SCN1A	3.482859662	3.706397479	0.089745264	0.248734533
SCN1B	4.026630907	3.997183394	-0.01058947	0.876107093
SCN2A	3.027164695	3.314766711	0.130940171	0.02559162
SCN2B	6.137703576	6.232431493	0.022096148	0.762534545
SCN3A	2.585765815	2.686579479	0.055178899	0.107223661
SCN3B	2.481235417	2.514699373	0.019327316	0.566465311
SCN4A	2.748832377	2.601293535	-0.07958973	0.180571349
SCN4B	6.627931384	6.615963049	-0.00260749	0.636536377
SCN5A	2.530947066	2.63590643	0.058621824	0.077277708
SCN7A	3.83607555	3.766004007	-0.026596599	0.816165771
SCN8A	2.833549927	2.997725099	0.081257466	0.129097875
SCN9A	2.788523715	2.824337782	0.0184111	0.565531461
SCNM1	7.929577192	7.908938521	-0.003759863	0.663348052
SCNN1A	2.428809788	2.463986338	0.020744747	0.620379932
SCNN1B	2.111162179	2.172567282	0.041363446	0.10543065
SCNN1D	3.882265583	3.882565261	0.000111359	0.934573442
SCNN1G	1.961999298	1.948487592	-0.009969781	0.635060323
SC01	6.241582384	6.243337268	0.000405571	0.982387971
SC02	7.466984252	7.409821415	-0.011086916	0.534688637

SCOC	4.826622788	4.937348423	0.032722377	0.143231778
SCP2	7.364475338	7.326367042	-0.007484768	0.445890361
SCPEP1	7.090106821	6.968848711	-0.024887028	0.241452019
SCRG1	6.182381709	6.563442796	0.086290035	0.042826468
SCRIB	9.233325993	9.16569793	-0.010605683	0.19656469
SCRN1	9.436518576	9.65074219	0.032385194	0.228136852
SCRN2	6.507667371	6.610704373	0.022663488	0.19042084
SCRN3	4.887471205	5.00072612	0.033049391	0.112122628
SCRT1	3.419430894	3.548952303	0.053636952	0.08826566
SCRT2	5.571448914	5.556443908	-0.003890702	0.651375817
SCT	3.105432437	2.929620211	-0.084080531	0.175900763
SCTR	2.174883053	2.13191988	-0.028784606	0.459173307
SCUBE1	2.966059007	2.760900556	-0.103408374	0.071889441
SCUBE2	4.355871285	4.089073324	-0.09118739	0.103808229
SCUBE3	2.528514126	2.456550169	-0.041656135	0.352771241
SCYE1	6.96996953	6.851932366	-0.024641438	0.004080801
SCYL1	9.816366775	9.809981282	-0.000938771	0.795337917
SCYL1BP1	4.361175053	4.253165458	-0.03617992	0.031262824
SCYL2	6.841716444	6.800162282	-0.008789137	0.225486326
SCYL3	5.134768609	5.134086183	-0.000191751	0.76253438

<b>SDAD1</b>	4.986940358	5.011594965	0.007114872	0.809742995
<b>SDC1</b>	4.086213172	4.120655394	0.012109348	0.90390989
<b>SDC2</b>	6.474104325	6.316253831	-0.035611464	0.201877082
<b>SDC3</b>	3.93044202	3.922054739	-0.003081897	0.838200741
<b>SDC4</b>	5.450187291	5.616514528	0.043369299	0.122616578
<b>SDCBP</b>	8.145451033	7.898836169	-0.044354487	0.150142689
<b>SDCBP2</b>	4.161125424	4.250914331	0.03079941	0.315840749
<b>SDCCAG1</b>	9.355070815	9.374959514	0.003063886	0.764637767
<b>SDCCAG10</b>	7.168204636	7.13516269	-0.006665498	0.240897788
<b>SDCCAG3</b>	6.693832675	6.721646923	0.005982273	0.693142492
<b>SDCCAG8</b>	4.352364993	4.406079437	0.017695958	0.401549381
<b>SDF2</b>	7.597940954	7.537715113	-0.011481231	0.09503068
<b>SDF2L1</b>	10.43427546	10.43854896	0.000590756	0.991743817
<b>SDF4</b>	9.703832391	9.695046859	-0.00130676	0.72445223
<b>SDHA</b>	8.633098232	8.693045493	0.00998329	0.478649469
<b>SDHALP1</b>	7.261413894	7.312620289	0.010137964	0.580085719
<b>SDHALP2</b>	6.484728258	6.275179162	-0.04738947	0.00810549
<b>SDHB</b>	8.022005947	8.068230077	0.008289189	0.316173292
<b>SDHC</b>	4.105830815	4.176890838	0.024755259	0.622328651
<b>SDHD</b>	6.273369828	6.132520261	-0.03276052	0.007452275

<b>SDK1</b>	3.677851768	3.760436923	0.032036963	0.129271778
<b>SDK2</b>	4.017713523	4.064539662	0.016717267	0.210290122
<b>SDPR</b>	4.185599364	3.870262493	-0.113002809	0.103661677
<b>SDR16C5</b>	3.351862987	3.356475056	0.001983743	0.837122727
<b>SDR39U1</b>	8.181622424	8.190469852	0.001559256	0.955988656
<b>SDR42E1</b>	2.379117146	2.277377796	-0.06305267	0.0489725
<b>SDR9C7</b>	1.989173192	1.994585824	0.003920308	0.878282557
<b>SDS</b>	4.762343192	4.861998549	0.029877873	0.973034538
<b>SDSL</b>	7.293058927	7.256404697	-0.007269132	0.669366829
<b>SEC11A</b>	10.07193123	9.98867519	-0.011975088	0.204323846
<b>SEC11B</b>	4.991368225	4.973210479	-0.005257848	0.691615498
<b>SEC11C</b>	10.62113195	10.78378723	0.021926408	0.063102313
<b>SEC13</b>	9.429607523	9.37587969	-0.008243667	0.091663415
<b>SEC14L1</b>	7.351059735	7.292465627	-0.011545564	0.508691636
<b>SEC14L2</b>	6.148221033	6.499493225	0.080158202	0.002435839
<b>LEFTY2</b>	2.227497603	2.424712782	0.122389985	0.003391882
<b>PHKG1</b>	2.226667742	2.424759225	0.122955199	0.004831824
<b>SEC14L5</b>	2.89576451	2.943804317	0.023737491	0.640973345
<b>SEC16A</b>	6.441266563	6.47754262	0.008102206	0.64690904
<b>SEC16B</b>	3.127772788	3.175201493	0.021712432	0.158320373

SEC22A	4.701409311	4.696294246	-0.001570486	0.754658915
SEC22B	6.216813907	6.192825845	-0.005577519	0.485960243
SEC22C	6.321135682	6.330370746	0.002106213	0.689073037
SEC23A	7.160805517	7.145873803	-0.003011449	0.885904113
SEC23B	5.492643934	5.576420472	0.021838576	0.311863064
SEC23IP	6.149494921	6.138810317	-0.002508829	0.835506278
SEC24A	5.357331669	5.344892141	-0.00335378	0.771489779
SEC24B	5.096711642	5.12393419	0.007685214	0.650879085
SEC24C	3.98611449	4.040183092	0.019437526	0.319180637
SEC24D	4.269685868	4.006779577	-0.091686785	0.098495905
SEC31A	6.649591325	6.589458606	-0.01310574	0.1434204
SEC31B	7.882081278	7.83407588	-0.008813524	0.340051912
SEC61A1	7.524320768	7.485961282	-0.007373767	0.374999584
SEC61A2	3.737688079	3.746063563	0.003229202	0.90882954
SEC61B	10.76839618	10.68636157	-0.011032658	0.153092241
SEC61G	7.756608179	7.695021014	-0.01150066	0.211296214
SEC62	5.995854808	6.027146563	0.007509699	0.893536164
SEC63	7.081010801	7.143263141	0.012627951	0.286505511
SECISBP2	7.80718402	7.8232875	0.002972709	0.768325444
SECTM1	4.495208483	4.407084845	-0.028563356	0.735343394



SEDLP	6.593313689	6.631871268	0.008412281	0.482082182
SEH1L	5.35054355	5.341820373	-0.002353995	0.875563306
SEL1L	5.555891722	5.568936725	0.003383418	0.913752615
SELE	4.322220258	3.963256444	-0.125086273	0.112122842
SELENBP1	8.656655113	8.533118775	-0.020736553	0.709506263
SELI	5.182612987	5.338110373	0.042649472	0.052733318
SELK	11.06798691	11.12872273	0.007895178	0.580082828
SELL	2.014405503	1.931783246	-0.060420902	0.043827139
SELM	8.971612497	8.948800944	-0.003672921	0.769379494
SELP	5.077245278	4.583316739	-0.147653968	0.039475004
SELPLG	5.155714715	5.05431988	-0.028655463	0.300451978
SELS	8.984327046	8.926902908	-0.009250711	0.586239265
SELT	7.633375861	7.612509732	-0.003949063	0.47608367
SELV	2.414280371	2.44740038	0.019656911	0.517580562
SEMA3A	4.542940901	4.664611993	0.038130544	0.332426166
SEMA3B	9.669814225	9.706335894	0.005438613	0.475229257
SEMA3C	4.71100294	4.528770979	-0.056914649	0.482512681
SEMA3D	3.609084669	3.738642704	0.050881613	0.337961477
SEMA3E	4.836312146	4.945178021	0.032115095	0.61067586
SEMA3F	4.051016152	4.076489197	0.009043354	0.67692016

SEMA3G	4.599857192	4.359814211	-0.077322414	0.182374569
SEMA4A	3.319267609	3.230619542	-0.039054089	0.39730389
SEMA4B	4.01540653	4.202075894	0.065556162	0.02071898
SEMA4C	10.11992113	10.20117905	0.011537862	0.206050709
SEMA4D	2.651905053	2.723024	0.038180575	0.052733346
SEMA4F	4.491199007	4.443495592	-0.015405593	0.619893094
SEMA4G	3.649733265	3.73158688	0.031998245	0.247604123
SEMA5A	3.650235464	3.636412577	-0.005473637	0.82045442
SEMA5B	5.956362007	5.986898972	0.007377487	0.675911212
SEMA6A	5.768810523	5.751073655	-0.004442564	0.809208275
SEMA6B	4.799235596	4.865326831	0.019732085	0.757281413
SEMA6C	4.796727967	4.694463373	-0.031090371	0.014054599
SEMA6D	5.552286457	5.513629923	-0.010079566	0.654360699
SEMA7A	3.802299748	3.86630793	0.024084276	0.577255203
SEMG1	1.859052623	1.842390169	-0.01298899	0.559945053
SEMG2	1.962223225	1.967244169	0.003686858	0.812952811
SENP1	5.012149808	5.094173944	0.023418686	0.069207236
SENP2	6.038775748	6.038090049	-0.000163826	0.871215503
SENP3	5.76639045	5.697057542	-0.017451549	0.12362251
SENP5	6.489870709	6.474964275	-0.003317504	0.933476319

SENP6	4.922337603	4.952614746	0.008846791	0.839818198
SENP7	6.268811954	6.198325063	-0.016313636	0.341800818
SENP8	2.976775457	3.059492106	0.039541776	0.202364878
15-Sep	10.31963064	10.30255282	-0.002389473	0.777298411
SEPHS1	6.446769033	6.468212852	0.004790858	0.4046535
SEPHS2	8.617637901	8.673815535	0.009374282	0.187632211
SEPN1	5.06575353	5.086789528	0.005978517	0.830123481
SEPP1	10.25263454	9.830343366	-0.06068096	0.012960728
SEPSECS	2.092141921	2.143784106	0.035178903	0.220510028
1-Sep	2.292575371	2.270130338	-0.014194033	0.750469259
10-Sep	6.272211457	6.230333415	-0.009664827	0.660846675
11-Sep	6.51822445	6.51861912	8.74E-05	0.592902868
12-Sep	3.535637073	3.747396599	0.083918479	0.195849028
13-Sep	6.09344955	6.130182718	0.008670896	0.351699683
14-Sep	3.658798325	3.608346838	-0.020031877	0.668362396
2-Sep	6.49531347	6.553605599	0.0128897	0.565531276
3-Sep	2.98959855	3.163305197	0.081480986	0.048263675
4-Sep	7.409114384	7.577919641	0.032500734	0.340401372
5-Sep	7.10626251	7.162886472	0.011450092	0.478221584
6-Sep	5.748483603	5.74399357	-0.001127302	0.958187205

	<b>7-Sep</b>	8.406687384	8.409088789	0.000412053	0.957087752
	<b>8-Sep</b>	6.825035298	6.913499549	0.018579667	0.186710799
	<b>9-Sep</b>	10.5193484	10.55788288	0.005275224	0.795870799
<b>SEPW1</b>		12.37936209	12.35416351	-0.002939643	0.577715085
<b>SEPX1</b>		6.463128079	6.44498381	-0.004055847	0.752563346
<b>ZNF385D</b>		3.475939179	3.789006606	0.124416817	0.003452632
<b>SERBP1</b>		8.626356728	8.616078486	-0.001719986	0.856028993
<b>SERF1A</b>		7.492628636	7.610179415	0.022458519	0.416818443
<b>SERF1B</b>		8.123595616	8.177793965	0.00959329	0.649885231
<b>SERF2</b>		10.80915894	10.673882	-0.018169304	0.202850731
<b>SERGEF</b>		7.832704053	7.897959387	0.0119695	0.215100454
<b>SERHL</b>		2.385796821	2.306429514	-0.048809982	0.139130278
<b>SERHL2</b>		4.993195762	4.839201493	-0.045194459	0.057634708
<b>SERINC1</b>		8.386444225	8.420703113	0.00588145	0.378350953
<b>SERINC2</b>		2.325059874	2.307894676	-0.010690482	0.881003388
<b>SERINC3</b>		7.415303344	7.321222845	-0.018421073	0.029934152
<b>SERINC5</b>		4.201074788	4.363231901	0.054638684	0.011327175
<b>SERP1</b>		7.22603953	7.116463472	-0.022044675	0.134399884
<b>SERP2</b>		8.200648219	8.231456303	0.005409742	0.886993761
<b>SERPINA1</b>		5.235779775	5.307865176	0.019727309	0.410121051

SERPINA10	2.023234914	1.985118387	-0.02743879	0.283708226
SERPINA11	1.923862583	1.876091085	-0.036275882	0.072435951
SERPINA12	2.012853768	2.010003993	-0.002043998	0.630150341
SERPINA13	1.843419252	1.843409852	-7.36E-06	0.905002784
SERPINA3	10.91397084	11.29339646	0.049303344	0.111034194
SERPINA4	1.930118768	1.924647035	-0.004095734	0.920869598
SERPINA5	5.882005589	6.237577232	0.084677619	0.006932447
SERPINA6	2.569053702	2.578017908	0.005025238	0.89899396
SERPINA7	1.936015325	1.909016986	-0.020260433	0.995046249
SERPINA9	1.991536152	2.020924451	0.021133721	0.502077953
SERPINB1	7.968837119	8.047454599	0.014163323	0.626234158
SERPINB10	1.851928119	1.894377394	0.032695668	0.261405235
SERPINB11	1.990984391	1.89458481	-0.071600188	0.081651961
SERPINB12	1.976350795	1.858453838	-0.088736189	0.037094111
SERPINB13	1.915314954	1.948738415	0.024958799	0.397304115
SERPINB2	2.245477523	2.271852211	0.016846706	0.994495837
SERPINB3	1.907875563	1.898163606	-0.007362732	0.66535196
SERPINB4	1.884929152	1.854693894	-0.0233292	0.825285618
SERPINB5	1.939125311	1.822126303	-0.089783072	0.000249177
SERPINB6	5.824624007	5.880434648	0.013757871	0.794275139

SERPINB7	1.930212437	1.961916261	0.023503827	0.731707171
SERPINB8	4.262286099	4.167629423	-0.032400433	0.25994356
SERPINB9	4.764511536	4.541323592	-0.069215475	0.046871808
SERPINC1	2.641664636	2.433443634	-0.118447968	0.430405465
SERPIND1	2.088784371	2.071832225	-0.011756388	0.454582575
SERPINE1	2.618258762	2.65844831	0.02197673	0.888628713
SERPINE2	5.760150675	5.709383514	-0.012771575	0.468009344
SERPINE3	2.18013202	2.350473331	0.10853581	0.096959011
SERPINF1	12.37229297	12.41428877	0.00488871	0.597092045
SERPINF2	2.576056907	2.657539993	0.044926939	0.240069187
SERPING1	7.956802642	7.991474838	0.006272964	0.881003289
SERPINH1	5.494007298	5.042605486	-0.123689468	0.047951434
SERPINI1	4.837140623	5.031689944	0.056888545	0.164933956
SERPINI2	1.968617298	1.95277281	-0.011658564	0.298203528
SERTAD1	9.227931656	8.925577444	-0.048061811	0.028554386
SERTAD2	5.314263258	5.293142056	-0.005745325	0.601519712
HEPACAM	3.146619536	3.430728218	0.12471209	0.002584542
SLC7A11	2.570164536	2.804025254	0.125638622	0.000327224
SESN1	4.706375636	4.663449296	-0.013219041	0.540605978
SESN2	5.038508742	4.975497993	-0.018155868	0.870672344

SESN3	2.660665921	2.626731317	-0.018518736	0.592426145
SESTD1	3.796574801	3.86324888	0.02511619	0.23134963
SET	5.739867954	5.761426563	0.005408528	0.644433031
SETBP1	8.431759305	8.139182408	-0.050949803	0.020454986
SETD1A	3.257982205	3.251568099	-0.002843085	0.857654299
SETD1B	2.943394868	2.997284415	0.026174891	0.355997308
SETD2	6.766974305	6.810499106	0.009249619	0.552538242
SETD3	4.858041225	4.89702593	0.011531102	0.553461724
SETD4	5.61365843	5.458727493	-0.040376606	0.004422752
SETD5	4.483627291	4.464954655	-0.006020833	0.84305527
SETD6	5.939798974	5.976323106	0.008844043	0.756232246
SETD7	3.716060424	3.644247754	-0.028152917	0.273003824
SETD8	3.473094841	3.384149641	-0.037428444	0.038623915
SETDB1	7.489131775	7.50252169	0.00257711	0.640972986
SETDB2	7.189584755	6.998886401	-0.038783056	0.001956645
SETMAR	4.435730656	4.350495317	-0.0279921	0.114004589
SETX	7.044680781	6.955478725	-0.01838452	0.012274229
SEZ6	4.265849636	4.418639408	0.050769088	0.405821531
SEZ6L	3.868580272	3.968251901	0.0366994	0.825822809
SEZ6L2	9.037544808	9.170129514	0.021011215	0.746286316

SF1	8.261661603	8.219632028	-0.007358159	0.19993147
SF3A1	7.43040804	7.364335176	-0.012886148	0.175020518
SF3A2	8.982121974	9.009264676	0.004353047	0.61989251
SF3A3	7.488709132	7.436640141	-0.010066094	0.28401755
SF3B1	8.844654914	8.760494063	-0.01379362	0.010382933
SF3B14	8.991571742	8.970722324	-0.003349167	0.678434163
SF3B2	9.816853768	9.817242162	5.71E-05	0.99119339
SF3B3	5.92282143	5.97919969	0.013667804	0.335878627
SF3B4	2.241911536	2.218521176	-0.015131028	0.881003402
SF3B5	10.42001273	10.41217814	-0.00108514	0.828508538
SF4	7.13746706	7.153707141	0.003278876	0.537415234
SFI1	7.453154404	7.497829655	0.008621901	0.47267475
SFMBT1	5.187243828	5.145305937	-0.011711324	0.306611449
SFMBT2	2.479836331	2.444116901	-0.020931616	0.787897866
SFN	2.432470325	2.480961239	0.028476991	0.359603528
SFPQ	5.755592185	5.811604641	0.013972188	0.54563848
SFRP1	7.937341483	8.204735268	0.04780091	0.188558878
SFRP2	2.553030841	2.673059415	0.06628094	0.051895799
SFRP4	6.512117483	6.027531599	-0.111559418	0.152700307
SFRP5	5.873412881	6.021441937	0.035909948	0.355997423



SFRS1	6.665051834	6.562039127	-0.022471899	0.00889896
SFRS10	8.742511397	8.634870979	-0.01787315	0.053241015
SFRS11	8.719981775	8.577119352	-0.023831924	0.003361844
SFRS12	5.081734291	5.01394212	-0.019375601	0.042614303
SFRS12IP1	6.893764417	6.848287465	-0.009548736	0.316173234
SFRS14	7.260575967	7.35537693	0.018715276	0.228671366
SFRS15	4.392934927	4.39820212	0.001728776	0.64542294
SFRS16	7.661650291	7.805669303	0.026867166	0.117519863
SFRS17A	8.19970302	8.145363556	-0.009592566	0.156900093
SFRS18	8.482205841	8.38061607	-0.017383192	0.044994122
SFRS2	7.83730451	7.867590845	0.00556438	0.396150877
SFRS2B	6.401721894	6.372586352	-0.006580986	0.603442005
SFRS2IP	7.080758974	7.107744225	0.005487758	0.521606567
SFRS3	10.3342405	10.29340274	-0.005712385	0.460845733
SFRS4	8.342798099	8.249875887	-0.016158916	0.024826861
SFRS5	9.621758656	9.655707028	0.00508129	0.860363057
SFRS6	4.359322695	4.183190296	-0.059500373	0.044116562
SFRS7	8.172528523	8.057969697	-0.020366127	0.082136111
SFRS8	8.006640517	8.013653796	0.001263151	0.928541043
SFRS9	6.862665298	6.954352627	0.019147228	0.125313532

SFT2D1	7.354302252	7.280612887	-0.014528568	0.401162331
SFT2D2	3.208093179	3.094339859	-0.052084385	0.160159656
SFT2D3	4.130104351	4.241536423	0.038408717	0.026847484
SFTA1P	2.001080225	1.969636697	-0.022849461	0.645422979
SFTA2	2.047724874	2.062596225	0.010439534	0.646413556
SFTA3	1.810029139	1.81576569	0.004565124	0.635060122
SFPA1	1.873338073	1.921125852	0.036340753	0.625745295
SFPA1B	2.167207821	2.219853775	0.034627142	0.156093916
SFPA2B	1.991742033	1.980534972	-0.008140628	0.72031928
SFTPB	2.219358808	2.224440035	0.003299278	0.841436464
GPC5	2.177941477	2.37629443	0.125748413	0.003673039
SFTPD	4.007019079	4.172765979	0.058474633	0.031589074
SFXN1	3.841877656	3.880751521	0.014524485	0.661346664
SFXN2	2.950331238	2.969858824	0.009517415	0.865243649
SFXN3	6.447248781	6.467999838	0.004635989	0.832813781
SFXN4	5.784152225	5.83131007	0.011714517	0.178335665
SFXN5	5.143221185	5.287397155	0.039885498	0.022898395
SGCA	5.724532834	5.6046555	-0.030532265	0.839818217
SGCB	5.86168353	5.725903782	-0.033811652	0.021765187
SLC39A2	2.573069132	2.807625049	0.125860061	0.009358739

<b>SGCE</b>	6.34033043	6.303377993	-0.00843285	0.514905605
<b>SGCG</b>	2.32557706	2.30843443	-0.010673992	0.890809396
<b>SGCZ</b>	1.82549847	1.843871021	0.014447283	0.561804167
<b>SGEF</b>	5.547713444	5.708625134	0.041250059	0.021804804
<b>SGIP1</b>	5.58911445	5.733285556	0.036742419	0.838739805
<b>SGK1</b>	9.145075166	9.023535268	-0.01930226	0.317841653
<b>SGK196</b>	2.307118854	2.437532831	0.079329322	0.015027289
<b>SGK2</b>	2.184295894	2.170879345	-0.008888758	0.701818661
<b>SGK269</b>	5.894218212	5.780608746	-0.028079043	0.028354592
<b>SGK3</b>	7.052551139	7.019869444	-0.006701023	0.552538479
<b>SGK493</b>	7.951460768	7.868014113	-0.015220378	0.565998109
<b>SGMS1</b>	7.545320113	7.542598577	-0.000520462	0.785775108
<b>SGMS2</b>	2.373946841	2.383725768	0.005930643	0.866328942
<b>SGOL1</b>	2.040183046	2.009235415	-0.022051988	0.43933219
<b>SGOL2</b>	2.445259748	2.500733021	0.032363319	0.218180196
<b>SGPL1</b>	3.63621857	3.566051007	-0.028111582	0.354919681
<b>SGPP1</b>	3.919053656	4.037239789	0.042863952	0.100908906
<b>SGPP2</b>	2.190419113	2.250199423	0.038845925	0.23869178
<b>SGSH</b>	8.380246801	8.455091915	0.012827706	0.576783569
<b>SGSM1</b>	3.108283384	3.145646	0.017238283	0.485960399

SGSM2	6.705322576	6.651890965	-0.011542217	0.237867872
SGSM3	8.63068002	8.645558317	0.002484899	0.698241129
SGTA	9.529778113	9.585588979	0.008424456	0.507363706
SGTB	2.916532338	2.977644838	0.029917615	0.310216064
SH2B1	5.358737854	5.399907577	0.011041473	0.48898805
SH2B2	4.19710853	4.22245893	0.008687621	0.806002327
SH2B3	3.128302781	3.026474423	-0.047741996	0.264051349
SH2D1A	2.406658742	2.295809204	-0.068028835	0.21433646
SH2D1B	2.297777331	2.23543407	-0.039684002	0.319180695
SH2D2A	6.235928596	6.23262243	-0.000765091	0.651375895
SH2D3A	2.618791093	2.627232824	0.00464308	0.956538297
SH2D3C	4.518325629	4.373495606	-0.047001403	0.08385139
SH2D4A	3.033276331	3.145799704	0.052549883	0.180122659
SH2D4B	2.015971596	2.012292676	-0.00263516	0.962035324
SH2D5	4.176286291	4.444905514	0.089932137	0.055489634
SH2D6	2.036523073	2.019689127	-0.011974911	0.886449004
SH3BGR	4.908410033	4.857572535	-0.015020233	0.773601277
SH3BGRL	7.708848589	7.629759908	-0.014877733	0.399616263
SH3BGRL2	5.172243887	5.187861225	0.004349584	0.809743039
SH3BGRL3	8.64956896	8.60995043	-0.006623308	0.584343383

SH3BP1	2.646128391	2.669270859	0.012562644	0.996147072
SH3BP2	4.311445907	4.237701803	-0.024889707	0.310215718
SH3BP4	3.320516146	3.12949307	-0.085478532	0.002602223
SH3BP5	7.472475762	7.333709197	-0.027043252	0.158524005
SH3BP5L	7.793239589	7.782326852	-0.002021596	0.889718957
SH3D19	6.823789834	6.699751401	-0.026465649	0.30465769
SH3GL1	7.226477457	7.175672225	-0.010178586	0.340750774
SH3GL2	5.575583252	5.823318366	0.062718764	0.623792025
SH3GL3	4.015559053	4.255420317	0.083700781	0.186250747
SH3GLB1	7.684502848	7.502573113	-0.034566454	0.013163312
SH3GLB2	4.818695384	4.836030986	0.005180885	0.794807232
SH3KBP1	6.412143517	6.269502049	-0.032455854	0.152502183
SH3PXD2A	7.898422252	7.706921479	-0.035409804	0.052145898
SH3PXD2B	3.244807954	3.200424993	-0.019869597	0.414053059
SH3RF1	6.402081967	6.225588613	-0.040330901	0.020492517
SH3RF2	2.225996861	2.220109162	-0.003820943	0.782064463
SH3RF3	2.938770338	2.839906556	-0.049369158	0.344963067
SH3TC1	5.454267099	5.458710782	0.001174909	0.95818721
SH3TC2	3.426719669	3.640189218	0.087185271	0.09557868
SH3YL1	3.847319656	3.663718127	-0.070545189	0.051069575

SHANK1	2.557221026	2.576380373	0.010768745	0.462108134
SHANK2	4.660992172	4.892125796	0.069824412	0.027374156
SHANK3	7.151019881	6.828792725	-0.06651847	0.039607237
SHARPIN	6.188827596	6.191328662	0.000582913	0.936767934
SHB	3.607259497	3.668778218	0.024396484	0.613579927
SHBG	2.604582987	2.675401472	0.038702994	0.215356485
SHC1	6.802590934	6.644783817	-0.033862074	0.356716641
SHC2	8.498682318	8.391460042	-0.018317326	0.120622718
SHC3	4.72085849	4.94560207	0.067096925	0.177891114
SHC4	4.081273974	4.009078549	-0.025748877	0.509134429
SHCBP1	2.073937815	2.120584711	0.032089479	0.528352564
SHD	4.922121596	5.238839035	0.089966837	0.037788925
LIX1	5.824867497	6.356168486	0.125932135	0.01465927
SHF	4.393683325	4.432791197	0.012784516	0.440148626
SHFM1	10.89026197	11.0142752	0.016335903	0.091923114
SHH	2.113523642	2.051534014	-0.042947177	0.128923927
SHISA2	2.407305391	2.479535169	0.042650515	0.572551855
SHISA3	2.837278722	2.94945643	0.055941216	0.250436707
SHISA4	10.00127015	10.03934636	0.00548211	0.654359388
SHISA5	10.39739973	10.44830393	0.007045997	0.687040817

SHKBP1	3.368452411	3.437230458	0.029160667	0.446302216
SHMT1	3.515541828	3.62068231	0.042514536	0.028755277
SHMT2	7.834526053	7.830411493	-0.000757878	0.793211071
SHOC2	6.448031735	6.467545866	0.004359536	0.813488015
SHOX	2.933538285	2.781632275	-0.076710109	0.060318261
SHOX2	2.519741728	2.462796218	-0.032978608	0.985139506
SHPK	6.216599457	6.346915049	0.029929906	0.068996233
SHPRH	5.107149656	5.107638197	0.000137999	0.920321915
SHQ1	3.166778013	3.184763254	0.008170391	0.932379377
SHROOM1	8.238797536	8.095445866	-0.025323249	0.121285062
SHROOM2	4.609075642	4.730985514	0.037663299	0.419594969
SHROOM3	6.634425623	6.893158028	0.055193521	0.033955673
SHROOM4	2.674919503	2.610253437	-0.035305588	0.208787629
SI	1.907550927	1.848803634	-0.045129574	0.371297654
SIAE	3.731334344	3.729560261	-0.000686101	0.978536183
SIAH1	5.391498391	5.268635099	-0.033257015	0.10843215
SIAH2	4.382976179	4.290748585	-0.030681469	0.085344259
SIAH3	2.40897855	2.522249106	0.066289221	0.060507024
SIDT1	2.395874987	2.331922408	-0.039032847	0.294375137
SIDT2	9.589251391	9.500894796	-0.013354799	0.178111811

<b>SIGIRR</b>	8.951998795	8.90356931	-0.007826035	0.786835657
<b>SIGLEC1</b>	3.120947066	3.042847007	-0.036562091	0.51624236
<b>SIGLEC10</b>	2.800974397	2.885358486	0.042821779	0.512681798
<b>SIGLEC11</b>	3.09941404	3.030932669	-0.032233689	0.527901614
<b>SIGLEC12</b>	2.313297993	2.256583627	-0.035810878	0.819918037
<b>SIGLEC15</b>	2.931586364	2.892623549	-0.019302978	0.713618928
<b>SIGLEC5</b>	3.02457743	3.013387768	-0.005347262	0.993945435
<b>SIGLEC6</b>	2.071538788	2.088245627	0.011588583	0.680456472
<b>SIGLEC7</b>	2.822139755	2.721727915	-0.052266582	0.217922251
<b>SIGLEC8</b>	2.124331649	2.123946148	-0.000261829	0.945550703
<b>SIGLEC9</b>	2.745845252	2.820841599	0.038875334	0.608260317
<b>SIGLECP3</b>	2.617468371	2.552929979	-0.036018136	0.580085764
<b>SIGMAR1</b>	6.910621113	6.883274746	-0.005720287	0.867957195
<b>SIK1</b>	9.243422397	9.233191697	-0.001597672	0.828509625
<b>SIK2</b>	3.974588762	4.088279592	0.040688267	0.383601203
<b>SIL1</b>	8.668520503	8.665638444	-0.000479739	0.923608565
<b>SILV</b>	11.50986854	11.02857958	-0.061624365	0.072533016
<b>SIM1</b>	2.129882205	2.116991486	-0.008758176	0.584343965
<b>SIM2</b>	2.024958801	2.005012218	-0.014281528	0.547474434
<b>SIN3A</b>	6.041908437	6.109071021	0.015948692	0.135119351



SIN3B	3.029309881	2.94021112	-0.043069415	0.205558079
SIP1	5.241062238	5.27825343	0.01020138	0.509576919
SIPA1	5.949082325	5.833429437	-0.028322858	0.624280064
SIPA1L1	5.649035205	5.688801627	0.010120282	0.430001835
SIPA1L2	6.752319788	6.683020711	-0.014882886	0.393851145
SIPA1L3	4.081477781	4.102692746	0.00747951	0.920869551
SIRPA	6.617154589	6.619686134	0.000551831	0.719802966
SIRPB1	2.636433166	2.614393754	-0.012110983	0.40309965
SIRPB2	3.33816249	3.227970141	-0.048426948	0.069101685
SIRPD	2.09535053	2.091755268	-0.002477543	0.43040519
SIRPG	2.652682868	2.566825134	-0.047467194	0.148973794
SIRT1	5.344810371	5.230745556	-0.03112217	0.064586788
SIRT2	6.094642768	6.005817817	-0.021180949	0.05349649
SIRT3	6.783215384	6.838992225	0.011814447	0.311863064
SIRT4	3.757970596	3.803798669	0.017487109	0.584817846
SIRT5	5.579557351	5.535751345	-0.01137153	0.573960894
SIRT6	5.228443007	5.239278908	0.002986879	0.798534235
SIRT7	6.562100159	6.451848486	-0.024445055	0.084470814
SIT1	2.429436338	2.436057852	0.003926767	0.980186904
SIVA1	10.09142748	10.01097133	-0.011548305	0.503835045

SIX1	5.585009285	5.220627831	-0.097336364	0.124128021
SIX2	3.472037993	3.326856289	-0.061623188	0.171320914
SIX3	4.230500636	4.407374169	0.05909098	0.003123485
CARD18	2.069005927	2.258664465	0.126532189	0.004490319
SIX5	2.737280265	2.685339035	-0.027638911	0.224169454
SIX6	6.013014821	6.288914915	0.064722603	0.21255936
SKAP1	4.624262179	4.379379507	-0.07849672	0.097376297
SKAP2	4.067516391	3.911227993	-0.056526524	0.050092544
SKI	6.035878325	5.854155218	-0.044102725	0.091002716
SKIL	3.260112046	3.228049007	-0.014259068	0.303035378
SKIV2L	6.532891424	6.491677683	-0.009130292	0.565998016
SKIV2L2	8.122804603	8.051973458	-0.012635524	0.058456174
SKP1	10.59700013	10.63655227	0.005374677	0.310866798
SKP2	2.61295498	2.604701063	-0.004564461	0.871215458
SLA	6.657981013	6.449232239	-0.045957334	0.290895238
SLA2	2.25074151	2.117098725	-0.08831183	0.027325979
IL22RA1	2.209527477	2.412987211	0.127082397	0.012202842
SLAIN2	5.462165735	5.459314535	-0.00075327	0.995046247
SLAMF1	3.001119007	3.03492	0.016157959	0.348144027
SLAMF6	1.888125503	1.89764293	0.007253889	0.854946954

SLAMF7	3.697271351	3.675802859	-0.008401536	0.635552194
SLAMF8	5.357748609	5.366204077	0.002275031	0.985139512
SLAMF9	2.90827406	2.915319106	0.00349058	0.678435032
SLBP	7.708035172	7.595306338	-0.021255001	0.130319755
SLC10A1	2.049519954	2.063368908	0.009715747	0.592903309
SLC10A2	1.929322748	1.889478092	-0.030106715	0.675911139
SLC10A3	7.30918847	7.156157169	-0.030526161	0.047024747
SLC10A4	3.96636845	3.939673373	-0.009742676	0.880459043
SLC10A7	2.478359119	2.42918931	-0.028910327	0.088523298
SLC11A1	4.102004974	4.108776204	0.002379511	0.816165793
SLC11A2	4.313394609	4.366118394	0.017527545	0.277862105
SLC12A1	2.091468291	2.050132155	-0.028799214	0.247886459
SLC12A2	6.638083417	6.619350732	-0.004077044	0.763060349
SLC12A3	2.099776947	2.073491697	-0.018173813	0.474378002
SLC12A4	6.460671894	6.447640155	-0.002912981	0.952142151
SLC12A5	5.761498159	6.034093246	0.066692987	0.841436353
SLC12A6	2.920116821	3.021948282	0.049452884	0.256747256
SLC12A7	9.856526543	9.830583592	-0.003802263	0.486822171
SLC12A8	2.274570636	2.219018704	-0.035672409	0.359965712
SLC12A9	7.955345503	7.905532683	-0.009061912	0.826897234

SLC13A1	1.899662623	1.887305782	-0.009415033	0.74733146
SLC13A2	2.878474384	2.908297683	0.014870572	0.301096519
SLC13A3	6.942323252	7.186418479	0.049854407	0.189954376
SLC13A4	5.001145563	5.206934697	0.058175717	0.090607564
ADRB1	2.44560857	2.672249507	0.127861205	0.004759647
PIPOX	3.175579841	3.470252021	0.128020397	0.000404913
SLC14A2	2.235543305	2.16060957	-0.049187097	0.065187805
SLC15A1	1.954218053	1.964586535	0.007634263	0.283398154
SLC15A2	2.139814159	2.199294697	0.039555428	0.357437062
SLC15A3	8.489312901	8.563123697	0.012489375	0.17240266
SLC15A4	7.694589589	7.920924049	0.041824365	0.006846671
SLC16A1	6.944913623	7.055825169	0.022858063	0.491591091
SLC16A10	2.382589139	2.26024369	-0.076051864	0.034130322
SLC16A11	3.888447311	4.048830711	0.058311132	0.00434667
SLC16A12	3.158942305	3.272596958	0.050994348	0.637028689
SLC16A13	2.227945278	2.157225331	-0.046536918	0.179227299
SLC16A14	6.174777907	6.225320796	0.011760935	0.861989557
SLC16A2	6.241595993	6.211162958	-0.007051558	0.447951255
SLC16A3	12.39976956	12.70014104	0.034531209	0.017934647
SLC16A4	3.513601457	3.459157077	-0.022530031	0.58292286

SLC16A5	6.715561808	6.511714113	-0.044470736	0.602480491
SLC16A6	6.198794026	6.425019599	0.051713288	0.068785825
SLC16A7	2.800723311	2.848365676	0.024334909	0.937865421
SLC16A8	9.162054921	9.183673514	0.003400143	0.827434731
SLC16A9	4.064217192	3.881309599	-0.066433985	0.107223493
SLC17A1	1.862352596	1.946968669	0.064103426	0.168317608
SLC17A2	1.876155	1.836661204	-0.030693495	0.863616168
SLC17A3	2.074283086	2.068684613	-0.003899087	0.662347245
SLC17A4	2.132192642	2.117685704	-0.009849303	0.956538307
SLC17A5	4.891510709	5.097404993	0.059482881	0.03543495
SLC17A6	4.711804854	4.998078641	0.085093812	0.172620338
SLC17A7	5.469790947	5.635326408	0.043013481	0.31517572
SLC17A8	3.051219013	3.112685	0.028773846	0.505158888
BSPRY	5.472594126	5.981324444	0.128240112	0.001652913
SLC18A2	2.040717344	2.067554613	0.018849066	0.831737412
SLC18A3	2.241319291	2.151364711	-0.059096066	0.213319706
SLC19A1	5.132027113	5.183659662	0.014442208	0.755183416
SLC19A2	7.583849583	7.382900768	-0.038742583	0.077508995
SLC19A3	2.324127596	2.357329627	0.02046423	0.588140677
SLC1A1	5.285576709	5.358986127	0.019899189	0.574900981

SLC1A2	5.529682146	5.809645254	0.071253518	0.361778569
SLC1A3	7.906202298	8.299796141	0.070091031	0.051398694
SLC1A4	4.954562483	4.808798641	-0.043081147	0.053582076
SLC1A5	3.43933353	3.403110845	-0.015274885	0.815094431
SLC1A6	2.625716834	2.718680099	0.050195063	0.306285526
SLC1A7	9.896463675	10.1817993	0.041007532	0.073205746
SLC20A1	8.832527053	8.941512789	0.017692675	0.179450115
SLC20A2	7.888204013	7.847390232	-0.007483921	0.468432227
SLC22A1	2.301277894	2.314858599	0.008488861	0.826897519
SLC22A10	2.38708898	2.341491852	-0.027824327	0.744198248
SLC22A11	2.001715589	2.058804261	0.040569668	0.092999352
SLC22A12	2.623200543	2.634172873	0.006021923	0.98734086
SLC22A13	2.066600927	2.025474901	-0.028999615	0.531515937
SLC22A14	2.081558854	2.120567725	0.02678621	0.513126149
SLC22A15	5.834054993	5.860382141	0.006495757	0.820454399
SLC22A16	2.137192199	2.14216081	0.00335013	0.352056487
SLC22A17	6.482285762	6.540738014	0.012950808	0.523401502
SLC22A18	5.906414775	5.884533472	-0.00535463	0.853864509
SLC22A18AS	4.207233079	4.304496	0.032972582	0.079973624
SLC22A2	1.998756987	2.052257261	0.038108514	0.212559305

SLC22A23	6.27680194	6.27285112	-0.000908364	0.774657708
SLC22A24	1.995907093	1.970904803	-0.018186472	0.343906706
SLC22A25	1.834418662	1.808061331	-0.020879321	0.457918169
SLC22A3	2.631397318	2.715648204	0.0454675	0.396535403
SLC22A4	3.222907576	3.248418993	0.011374912	0.634568573
SLC22A5	6.497957722	6.391590739	-0.023811323	0.216636689
SLC22A6	3.561922848	3.395892275	-0.068865573	0.238966881
SLC22A7	2.403721596	2.40060862	-0.001869595	0.862531706
SLC22A8	5.251420325	5.285694627	0.009385404	0.87230217
SLC22A9	1.936383987	1.913310944	-0.017293715	0.777829577
SLC23A1	1.976754291	1.940499204	-0.026705715	0.764638911
SLC23A2	6.386541384	6.53151257	0.032382276	0.0638914
SLC23A3	2.297405722	2.187525282	-0.070705969	0.054615584
SLC24A1	7.067437464	7.094817789	0.005578421	0.702330148
SLC24A2	2.448513616	2.581122887	0.076092611	0.087751859
SLC24A3	7.071520583	7.020206296	-0.010507044	0.574901346
SLC24A4	4.862875702	4.970100796	0.031465395	0.797469005
SLC24A6	5.880924887	5.84708788	-0.008324789	0.927444773
SLC25A1	6.243029026	6.224519725	-0.004283648	0.88590418
SLC25A10	3.256410126	3.440407056	0.079296859	0.003000052

SLC25A11	7.334906861	7.380969127	0.009031609	0.396535065
SLC25A12	6.550932742	6.629915373	0.017290119	0.395767307
SLC25A13	5.582013126	5.734630465	0.038915006	0.011439153
SLC25A14	7.667004232	7.706865408	0.00748122	0.822600686
SLC25A15	3.707269642	3.718966563	0.004544726	0.778887538
SLC25A16	3.519469179	3.474269275	-0.018648277	0.538325958
SLC25A17	6.210028543	6.272168528	0.014364425	0.046188612
SLC25A18	2.610697642	2.717433437	0.057809315	0.039277183
SLC25A19	4.539945881	4.545452437	0.001748802	0.672384305
SLC25A2	2.139874325	2.164102894	0.016243026	0.512237749
SLC25A20	4.343180444	4.205297901	-0.046543889	0.135119584
SLC25A21	2.515221397	2.568937901	0.030486621	0.347081297
SLC25A22	8.279813258	8.485988239	0.035484449	0.187632843
SLC25A23	6.854553338	6.941455211	0.018175483	0.113689149
SLC25A24	6.918454801	6.809204486	-0.022963597	0.032417438
SLC25A25	7.505749225	7.592483817	0.016575839	0.320859188
SLC25A26	3.651593748	3.714841768	0.024774491	0.223906674
SLC25A27	4.876408132	4.757684472	-0.035559282	0.127539246
SLC25A28	9.167665205	9.167975275	4.88E-05	0.925251962
SLC25A29	9.883179543	9.842040627	-0.006017778	0.312521699



SLC25A3	12.20930926	12.2925423	0.009801737	0.139673353
SLC25A30	2.239464993	2.147955	-0.060190346	0.310874416
SLC25A31	1.84028845	1.839132296	-0.000906653	0.84791583
SLC25A32	7.399450974	7.435884542	0.00708614	0.925252424
SLC25A33	8.354841364	8.465155866	0.018924197	0.228671088
SLC25A35	3.755823225	3.813013908	0.021802632	0.242562495
SLC25A36	7.310595834	7.355201183	0.008775809	0.183053653
SLC25A37	5.65083204	5.447628106	-0.052835091	0.015638953
SLC25A38	5.643340775	5.569334662	-0.019044483	0.051316228
SLC25A39	7.270715265	7.258301754	-0.002465262	0.680456328
SLC25A4	9.514324278	9.71739943	0.030469074	0.151515081
SLC25A40	4.057461629	4.038245338	-0.006848889	0.772545397
SLC25A41	4.37256404	4.464142634	0.02990361	0.311533631
SLC25A42	4.654434364	4.690817831	0.011233621	0.511793498
SLC25A43	3.031559344	2.945873331	-0.041364667	0.179674591
SLC25A44	8.181907609	8.286656289	0.018352837	0.075332502
SLC25A45	2.423279278	2.419046331	-0.002522281	0.97028416
SLC25A46	5.158732974	5.231478239	0.020201889	0.085093526
SLC25A5	9.783928954	9.846105718	0.009139302	0.455412808
SLC25A6	10.64118556	10.6573848	0.002194566	0.666853931

SLC26A1	7.358866066	7.3027005	-0.011053414	0.844674796
SLC26A10	4.954404219	4.944160197	-0.00298609	0.708479743
SLC26A11	8.637945656	8.67861438	0.006776482	0.132791258
SLC26A2	3.809513795	3.957929528	0.055139046	0.043971662
SLC26A3	1.987748709	2.080182556	0.065574762	0.243676783
SLC26A4	4.585967272	4.473165782	-0.035929831	0.935122049
SLC26A6	4.954463331	4.975605134	0.006143204	0.989542305
SLC26A7	3.516725338	3.240795606	-0.117884629	0.10177195
SLC26A8	1.898218642	1.977643415	0.059136145	0.091531819
SLC26A9	2.00878549	1.969799204	-0.02827494	0.680962317
SLC27A1	8.48700053	8.471680514	-0.002606584	0.727040963
SLC27A2	4.622888795	4.880617289	0.078268969	0.055753988
SLC27A3	5.116916762	5.063471077	-0.015148054	0.626234322
SLC27A4	4.17600843	4.190543275	0.005012667	0.665352035
SLC27A5	7.368254649	7.436319958	0.013265923	0.163261228
MOXD1	4.96165643	5.426260542	0.129136481	0.016581967
SLC28A1	2.086194192	2.114036486	0.01912682	0.211548866
SLC28A2	1.97644047	1.93120988	-0.03339954	0.427587193
SLC28A3	1.899788311	1.948270641	0.036355429	0.180795875
SLC29A1	6.971727046	7.018801521	0.009708621	0.30988657

SLC29A2	2.824333397	2.801873979	-0.011518333	0.504277446
SLC29A3	2.749931775	2.782912866	0.017199912	0.48682399
SLC29A4	4.612626086	4.84356138	0.070479877	0.035737445
SLC2A1	10.25158089	10.62651446	0.051822061	0.000688601
SLC2A10	4.348033589	4.232852606	-0.038732833	0.669869472
SLC2A11	5.640880331	5.703286127	0.015873082	0.634077066
SLC2A12	4.68724894	4.846956394	0.048337685	0.323556903
SLC2A13	3.596006238	3.569680655	-0.010600508	0.354202523
SLC2A14	9.548302278	9.840313183	0.043459993	0.028156021
SLC2A2	1.903117987	1.889248817	-0.010552287	0.882636488
SLC2A3	4.155585682	4.320389493	0.056109558	0.063496918
SLC2A3P1	2.110556066	2.11719269	0.004529423	0.851159562
SLC2A4	2.748573172	2.746523923	-0.001076029	0.780475543
SLC2A4RG	7.891659887	7.836127014	-0.010187998	0.468855269
NRCAM	5.330353709	5.83229838	0.12983326	0.015113385
SLC2A6	3.439275106	3.518136718	0.032707028	0.315175778
SLC2A8	7.908715384	7.944250451	0.00646773	0.308901316
SLC2A9	3.247293007	3.132022465	-0.052143006	0.163053316
SLC30A1	3.872995113	4.087937113	0.077923322	0.000718732
SLC30A10	2.633987914	2.777727761	0.076656485	0.014190099

SLC30A2	3.979236417	3.941318437	-0.0138133	0.626234281
SLC30A3	4.163492497	3.823887345	-0.122754203	0.023064498
SLC30A4	2.742623391	2.781787944	0.020455918	0.350630361
SLC30A5	5.151413079	5.132052317	-0.005432353	0.27209894
SLC30A6	2.271823344	2.214598859	-0.036805256	0.036969027
SLC30A7	4.136698781	4.065891063	-0.024908348	0.328996541
SLC30A8	1.932522192	1.924313141	-0.006141395	0.325250134
SLC30A9	4.211385238	4.31880962	0.036338869	0.295966229
SLC31A1	4.255042106	4.364955965	0.036793691	0.005852144
SLC31A2	6.255208371	6.246524831	-0.002004154	0.960935761
SLC32A1	7.79478343	8.028639831	0.042646655	0.355278374
SLC33A1	4.879461298	4.799585007	-0.023812211	0.276642194
SLC34A1	2.399295722	2.308854937	-0.055433453	0.050905637
SLC34A2	2.183292397	2.211109859	0.018265351	0.946649018
SLC34A3	5.286038834	5.296468944	0.002843839	0.762008603
SLC35A1	5.780411781	5.699340408	-0.020377306	0.186710642
SLC35A2	4.502564199	4.422612197	-0.025848103	0.180571193
SLC35A3	3.269422901	3.330425775	0.026670627	0.183735552
SLC35A4	6.289056808	6.299409789	0.002372997	0.90117825
SLC35A5	4.272678205	4.337055239	0.021575153	0.238142135

SLC35B1	6.16830845	6.21228388	0.010248848	0.51001961
SLC35B2	7.766147497	7.881590028	0.0212876	0.04921042
SLC35B3	3.283871192	3.262724599	-0.009320322	0.552076973
SLC35B4	4.832850828	4.946984986	0.033675056	0.032305999
SLC35C1	5.867289781	5.785135197	-0.020343572	0.222857375
SLC35C2	5.916262497	6.004830535	0.021437467	0.189488174
SLC35D1	3.779667132	3.834710493	0.020858479	0.25790634
SLC35D2	3.885020556	3.795703577	-0.033554902	0.306285756
SLC35D3	1.90025096	1.943482901	0.032454452	0.314179471
SLC35E1	5.292118225	5.428918768	0.036819606	0.046188638
SLC35E2	4.816526132	4.706130085	-0.033451794	0.20754092
SLC35E3	4.308693755	4.527319408	0.071406533	0.00072781
SLC35E4	13.2098244	13.13475358	-0.008222154	0.405752924
SLC35F1	4.621220046	4.808613303	0.057347126	0.223644281
SLC35F2	5.254297967	5.499253261	0.065737713	0.061458572
SLC35F3	3.431728152	3.549792401	0.048799383	0.161808535
SLC35F4	2.377262139	2.528698028	0.089093767	0.066710092
SLC35F5	4.612959411	4.563789493	-0.01546035	0.223644116
SLC36A1	2.111914543	2.078126824	-0.023267757	0.328313205
SLC36A2	1.809812053	1.826304338	0.013087315	0.918131505

SLC36A3	2.370856311	2.335074993	-0.021939345	0.646413674
SLC36A4	5.467147616	5.782971141	0.081022573	0.001137843
SLC37A1	4.375105179	4.49406143	0.038702145	0.070377027
SLC37A2	4.061677675	3.924909092	-0.049416517	0.320859362
SLC37A3	6.155648934	6.1399205	-0.003690979	0.413263786
SLC37A4	6.389586603	6.659084289	0.059601208	0.000706197
SLC38A1	7.501136205	7.780050211	0.052670327	0.296603699
SLC38A10	8.540979444	8.448694908	-0.01567302	0.314510227
SLC38A11	3.059926099	2.870122831	-0.09238433	0.027470987
SLC38A2	7.997546974	7.74347243	-0.046576897	0.005365415
SLC38A3	5.150682185	5.318547176	0.046268687	0.194897256
SLC38A4	1.922701424	1.928704599	0.004497452	0.879914883
SLC38A5	3.879669695	3.947592211	0.025039136	0.5392376
SLC38A6	6.73012747	6.588257162	-0.030736961	0.056732633
SLC38A7	5.488603377	5.50246743	0.003639611	0.838739729
SLC38A9	5.792787099	5.763550648	-0.007299782	0.850077947
SLC39A1	5.26002257	5.315456711	0.015124666	0.565531554
SLC39A10	3.257364298	3.271359641	0.006185295	0.852782339
SLC39A11	4.84122945	4.748022789	-0.028046613	0.221290609
SLC39A12	7.38054247	7.60932607	0.044041827	0.320523133

SLC39A13	10.72717462	10.76441364	0.004999594	0.417606376
SLC39A14	7.394318894	7.407940394	0.002655227	0.60633072
HSD17B2	4.684065066	5.125830634	0.130024694	0.017607423
SLC39A3	3.904590901	3.984909049	0.029375397	0.070269879
SLC39A4	4.291180841	4.297066486	0.001977398	0.934573481
SLC39A5	3.852919583	3.920295951	0.025010496	0.296604678
SLC39A6	6.003066411	5.968494092	-0.008332657	0.454998471
SLC39A7	6.922411702	7.047267732	0.025789278	0.147811619
SLC39A8	6.751745391	6.97595938	0.047131139	0.079381213
SLC39A9	3.339468391	3.266575951	-0.031839275	0.378724753
SLC3A1	3.298421828	3.390560289	0.039747784	0.150730144
SLC3A2	9.806154265	9.702089761	-0.015391931	0.162636035
SLC40A1	7.470826437	7.217509373	-0.049766769	0.015345035
SLC41A1	6.19638155	6.262695535	0.015357761	0.280928697
SLC41A2	2.476011033	2.556091563	0.045921774	0.146656289
SLC41A3	10.25510146	10.22739303	-0.003903318	0.584341007
SLC43A1	3.781370934	3.648220261	-0.051716543	0.208787629
SLC43A2	5.679777099	5.822748915	0.035866096	0.064686628
SLC43A3	3.668592079	3.647513056	-0.008313354	0.468009238
SLC44A1	7.996995583	7.797459303	-0.036453973	0.007732983

SLC44A2	7.356948444	7.387384894	0.005956265	0.678940158
SLC44A3	3.919460159	3.893588648	-0.009554487	0.535596888
SLC44A4	2.064096682	2.076569972	0.008691937	0.516688161
SLC44A5	1.994628437	1.999334352	0.003399733	0.792147822
SLC45A1	3.01569647	3.111063211	0.044916479	0.373887044
SLC45A2	4.097824159	4.031373169	-0.023586744	0.717739794
SLC45A3	3.493050086	3.381329704	-0.046896633	0.226015693
SLC45A4	5.114559298	5.087355507	-0.00769402	0.98458919
SLC46A1	3.830665808	3.911103937	0.029980707	0.080211635
SLC46A2	1.979118861	1.961785028	-0.0126913	0.646909237
SLC46A3	3.215830907	3.29514457	0.035150213	0.128403309
SLC47A1	4.007779073	4.071538317	0.022770997	0.354561217
CRYAA	6.48545743	7.097573007	0.13011745	0.01141665
SLC48A1	7.920243742	8.107748359	0.033756483	0.000117098
SLC4A1	2.341430589	2.255109613	-0.054192711	0.018140614
SLC4A10	3.461202305	3.68423112	0.090090299	0.127539155
SLC4A11	2.987119205	3.138003951	0.071092357	0.045588329
SLC4A1AP	7.305301914	7.317192732	0.002346361	0.841975961
SLC4A2	4.276215093	4.240189415	-0.012205709	0.473100432
SLC4A3	6.886270364	6.996867021	0.022986249	0.580558073



SLC4A4	4.566496881	4.778536218	0.065480906	0.014162857
SLC4A5	2.801333126	2.849395676	0.024542418	0.246758806
SLC4A7	6.765605093	6.767610923	0.000427659	0.894081841
HAMP	4.005309252	4.392614979	0.133166412	0.000349572
SLC4A9	2.281367921	2.312820746	0.019754324	0.846835299
SLC5A1	1.984886762	1.957967458	-0.019699917	0.636536337
SLC5A10	3.220601172	3.176400169	-0.019937336	0.936219325
SLC5A11	2.348759298	2.291430796	-0.035650158	0.414053004
SLC5A12	2.117019079	2.124614493	0.005166819	0.552077115
SLC5A2	4.218763934	4.264471542	0.01554661	0.576312706
SLC5A3	4.993576755	4.794879873	-0.058578875	0.259943332
SLC5A4	2.05533145	2.031621275	-0.01673958	0.345315685
SLC5A5	2.360296894	2.390492761	0.018339694	0.438923971
SLC5A6	5.213014166	5.076703761	-0.038225703	0.132082098
SLC5A7	1.952733609	1.893720106	-0.044272037	0.560874353
SLC5A8	2.079025722	2.108552634	0.020345427	0.480793767
SLC5A9	1.939745232	1.934265838	-0.004081093	0.908282651
SLC6A1	3.536188748	3.799070148	0.103451069	0.157103231
SLC6A10P	7.188678861	7.216723704	0.005617366	0.650382042
SLC6A11	2.109058848	2.167808958	0.039638272	0.133148099

SLC6A12	5.039242391	4.730409056	-0.091241908	0.07938132
SLC6A13	8.458358861	8.516596655	0.009899255	0.607294941
SLC6A14	1.921243887	1.87877731	-0.032246595	0.238416622
SLC6A15	3.54937757	3.579928232	0.012364615	0.752039553
SLC6A16	4.752421815	4.86601231	0.034077078	0.069207137
SLC6A17	2.608816874	2.633594613	0.013637612	0.511350052
SLC6A18	2.542234424	2.556980641	0.008344168	0.568334671
SLC6A19	4.091258901	3.99936507	-0.032773857	0.32457244
SLC6A2	1.909072113	1.957549254	0.036177008	0.280928926
SLC6A20	5.464897801	5.67567938	0.054598577	0.269398207
SLC6A3	1.897188026	1.852970359	-0.034022865	0.191356775
SLC6A4	2.022501033	2.009821655	-0.009072953	0.724970659
SLC6A5	2.063757172	2.120506437	0.039135633	0.042826393
SLC6A6	7.100123682	7.215880373	0.023331265	0.872845451
SLC6A7	2.043732093	2.124343754	0.055811147	0.096543236
SLC6A8	6.813777689	6.881478486	0.014263684	0.216636196
SLC6A9	2.803965596	2.913802338	0.055434365	0.074207645
SLC7A1	3.921745954	3.815904739	-0.039470926	0.179898495
SLC7A10	5.809243695	5.828925817	0.004879689	0.838200684
GDPD2	2.794711828	3.067561028	0.134392517	0.012467245

SLC7A13	1.832150682	1.845252317	0.010279941	0.487688982
SLC7A14	3.993012841	4.085888683	0.033172188	0.683999749
SLC7A2	2.503277093	2.426891838	-0.044708183	0.22364406
SLC7A3	1.997755	1.942481183	-0.040479042	0.093537556
SLC7A4	4.427594119	4.25825912	-0.056259233	0.027811797
SLC7A5	7.556534331	7.589691817	0.006316586	0.663348052
SLC7A6	2.886571265	2.779011437	-0.054785072	0.006039997
SLC7A60S	6.846537298	6.698545824	-0.031526578	0.001022071
SLC7A7	5.280550874	5.044989739	-0.065837106	0.10888815
SLC7A8	7.370120179	7.346607563	-0.004609933	0.806536374
SLC7A9	2.49742653	2.530234634	0.018828938	0.559945146
SLC8A1	5.305199536	5.548522754	0.064696703	0.069207269
SLC8A2	3.63500857	3.843337803	0.08040102	0.188791084
SLC8A3	3.983178742	4.184818479	0.071244825	0.27089667
SLC9A1	3.251259053	3.284601718	0.014719933	0.524299709
SLC9A10	1.949362768	1.873970697	-0.056904201	0.295329276
SLC9A11	1.934001013	1.833746451	-0.076794377	0.002900582
SLC9A2	1.958592325	2.020345141	0.044784637	0.504717914
SLC9A3	2.052262046	2.019688754	-0.023081974	0.378351408
SLC9A3R1	8.981619179	9.251368289	0.042691205	0.005839819

SLC9A3R2	7.274170272	7.054099458	-0.044320779	0.130846899
SLC9A5	4.927061649	5.006727514	0.023140417	0.566465219
SLC9A6	6.87724902	6.960834373	0.017428662	0.402711761
SLC9A7	3.342981781	3.455522683	0.047768457	0.22390684
SLC9A8	4.084547265	4.217635556	0.04625826	0.025184414
SLC9A9	5.796750623	5.563875866	-0.059154189	0.037031569
SLC01A2	2.737311808	2.803038465	0.03423176	0.541519452
SLC01B1	1.922451066	1.935455556	0.009726303	0.370928569
GABRB1	3.856436046	4.237763901	0.136035027	0.012226641
SLC01C1	4.213724669	4.001263451	-0.074640428	0.147233208
SLC02A1	6.14971947	5.669029937	-0.117418713	0.158727835
SLC02B1	6.794901172	6.55607369	-0.051620498	0.264346409
SLC03A1	3.834696258	3.984557345	0.055307152	0.01392023
SLC04A1	7.931434808	7.994151676	0.011363071	0.77835857
SLC04C1	2.076810709	1.987819951	-0.063182639	0.095441433
SLC05A1	1.980042411	1.974958528	-0.003708973	0.306938294
SLC06A1	1.918881106	1.861505979	-0.043795075	0.624280064
SLFN11	5.876927179	5.579224979	-0.074997294	0.163469743
SLFN12	2.650663881	2.555199817	-0.052917625	0.376487006
SLFN13	2.08353294	2.018247556	-0.045928764	0.041361729

SLFN5	4.746520854	4.736520789	-0.003042705	0.913752676
SLFNL1	2.47164049	2.465326401	-0.003690245	0.779946166
SLIT1	3.428649735	3.447535134	0.007924726	0.999449579
SLIT2	7.298728166	7.123280944	-0.035103199	0.007909163
SLIT3	7.115254914	6.852820592	-0.054217527	0.043682866
SLITRK1	2.893950795	3.056182028	0.078690082	0.14135616
SLITRK2	8.243570801	8.091429296	-0.026874826	0.099483573
SLITRK3	3.348796232	3.629660148	0.116191879	0.044627146
SLITRK4	4.252050914	4.301155373	0.016565376	0.798001667
SLITRK5	2.415295914	2.405873648	-0.005639077	0.817237412
SLITRK6	6.092107629	6.165375768	0.017247397	0.683493082
SLK	5.58698006	5.560299873	-0.00690598	0.522055203
SLMAP	6.470103993	6.507327556	0.008276275	0.268800291
SLM01	6.399442848	6.468662965	0.015521241	0.180795927
SLM02	5.708668325	5.694297986	-0.003636252	0.645423058
SLN	5.968799464	6.41551057	0.104123301	0.063398534
SLPI	9.04151594	8.857997697	-0.029584059	0.5618037
SLTM	7.724611755	7.761328704	0.006841233	0.565530859
SLU7	7.688162636	7.681678704	-0.001217233	0.865243665
SLURP1	2.516979404	2.60771988	0.051095493	0.346374628

<b>SMA4</b>	4.648851073	4.562896761	-0.026924198	0.315507918
<b>SMAD1</b>	7.058973987	7.131204415	0.014687255	0.062228308
<b>SMAD2</b>	6.096361808	6.034620817	-0.014685404	0.352770437
<b>SMAD3</b>	6.62891453	6.459494007	-0.037351493	0.280006328
<b>SMAD4</b>	3.868473702	3.781200148	-0.03292025	0.003681106
<b>SMAD5</b>	5.140316146	5.197533592	0.015970085	0.824748488
<b>SMAD50S</b>	2.716194755	2.698390479	-0.009487794	0.929089373
<b>SMAD6</b>	4.473288245	4.192067711	-0.093673704	0.044480704
<b>SMAD7</b>	5.27171347	5.080613908	-0.053269125	0.039872996
<b>SMAD9</b>	6.285979119	6.086765718	-0.046461643	0.066505535
<b>SMAP1</b>	4.802973371	5.00474638	0.059369151	0.011920059
<b>SMAP2</b>	4.838899185	4.883714028	0.013299842	0.484234667
<b>SMARCA1</b>	7.756994682	7.719719113	-0.006949458	0.333803998
<b>SMARCA2</b>	6.396795795	6.327646056	-0.015680525	0.036595457
<b>SMARCA4</b>	9.616485974	9.746729148	0.019408349	0.02327303
<b>SMARCA5</b>	4.354647278	4.364994662	0.003424023	0.772017522
<b>SMARCAD1</b>	5.89759596	5.838798282	-0.014455518	0.14877922
<b>SMARCAL1</b>	5.320286801	5.241146775	-0.021621508	0.03628711
<b>SMARCB1</b>	4.263406715	4.421401282	0.052496987	0.171537009
<b>SMARCC1</b>	6.108266119	6.048359711	-0.014218975	0.270296532

SMARCC2	10.77986803	10.75728785	-0.003025128	0.545633785
SMARCD1	6.474579232	6.507253746	0.007262373	0.587664925
SMARCD2	5.358131987	5.42380281	0.017574609	0.471399972
SMARCD3	9.936708755	9.880681352	-0.00815755	0.16097923
SMARCE1	8.013952874	8.061588465	0.008550111	0.123790282
SMC1A	6.73034104	6.89446369	0.03475872	0.035495296
SMC1B	1.903374762	1.859952437	-0.033293918	0.187633001
SMC2	2.762775139	2.771064359	0.004322072	0.965884328
SMC3	7.744259417	7.713515338	-0.005738781	0.899539785
SMC4	3.639652384	3.539270746	-0.040348539	0.103515083
SMC5	4.931336675	4.895392944	-0.010554086	0.43121234
SMC6	6.239410821	6.051194641	-0.044189813	0.253578285
SMCHD1	5.290609629	5.203225866	-0.024027637	0.041019261
SMCP	2.011125914	1.960762415	-0.036588674	0.159544991
SMCR5	4.069203404	4.029493246	-0.014147982	0.717739633
SMCR7	6.409947159	6.583941169	0.038638981	0.031262845
SMCR7L	7.051663245	7.033708676	-0.003677998	0.468854844
SMCR8	2.567806881	2.49321669	-0.042528429	0.243397987
SMEK1	6.323414874	6.184773465	-0.031983123	0.007780682
SMEK2	4.565630881	4.594481556	0.00908785	0.706427798

<b>SMEK3P</b>	1. 898530139	1. 817793789	-0. 062694353	0. 020719041
<b>SMG1</b>	5. 65934343	5. 565064085	-0. 024236387	0. 147232774
<b>SMG5</b>	8. 18320053	8. 199267648	0. 002829849	0. 83927885
<b>SMG6</b>	4. 734780079	4. 739446021	0. 00142102	0. 717223959
<b>SMG7</b>	5. 203456464	5. 156603514	-0. 013049148	0. 639492773
<b>SMN1</b>	9. 31960796	9. 251603176	-0. 010565881	0. 504716846
<b>SMN2</b>	2. 228136755	2. 214647204	-0. 008760889	0. 844674906
<b>SMNDC1</b>	7. 787712563	7. 733650155	-0. 010050133	0. 165143573
<b>SMO</b>	7. 490535795	7. 311314521	-0. 034938102	0. 102060797
<b>CRYM</b>	7. 020043954	7. 714685732	0. 136127324	0. 008898928
<b>SMOC2</b>	9. 659655026	9. 658982211	-0. 00010049	0. 757281161
<b>SMOX</b>	6. 602486854	6. 733068155	0. 028254545	0. 106923138
<b>SMPD1</b>	6. 670605762	6. 645392169	-0. 005463439	0. 999449579
<b>SMPD2</b>	4. 465099298	4. 516624408	0. 016552688	0. 320186962
<b>SMPD3</b>	5. 66119553	5. 956071345	0. 073254282	0. 259651621
<b>SMPD4</b>	9. 268628079	9. 198158641	-0. 01101073	0. 120786321
<b>SMPDL3A</b>	5. 504798801	5. 313876268	-0. 050925199	0. 038884203
<b>SMPDL3B</b>	2. 338612517	2. 376550211	0. 023216041	0. 670875051
<b>SMPX</b>	2. 659249695	2. 798331211	0. 073547482	0. 116874432
<b>SMR3A</b>	2. 327148252	2. 363622261	0. 02243637	0. 328996137



<b>SMR3B</b>	1.889563702	1.859967923	-0.022775416	0.610675605
<b>SMS</b>	6.771274616	6.750022394	-0.004535142	0.681974044
<b>SMTN</b>	6.877958192	6.910428092	0.00679474	0.617461534
<b>SMTNL2</b>	2.104431192	2.0522575	-0.03621858	0.331738285
<b>SMU1</b>	5.569245132	5.471706866	-0.025490851	0.034955653
<b>SMUG1</b>	4.812908781	4.845793958	0.009823983	0.772017548
<b>SMURF1</b>	2.806673311	2.757936141	-0.025272096	0.180122347
<b>SMURF2</b>	3.355207636	3.349771359	-0.002339423	0.725487984
<b>SMYD1</b>	1.947084305	1.98078157	0.024754446	0.34496301
<b>SMYD2</b>	7.185947517	7.27890362	0.018542763	0.642455027
<b>SMYD3</b>	6.456973788	6.351425021	-0.023777856	0.033608455
<b>SMYD4</b>	4.496409417	4.418492528	-0.025219161	0.116552718
<b>SMYD5</b>	4.204948662	4.198575106	-0.002188392	0.975785223
<b>GLYATL1</b>	2.543393245	2.800276021	0.138814499	0.007990489
<b>EGF</b>	3.021976762	3.329185711	0.139676784	0.017281152
<b>SNAI3</b>	3.204977199	3.171769338	-0.015026236	0.953241056
<b>SNAP23</b>	3.139297457	3.110127486	-0.013468016	0.534688637
<b>SNAP25</b>	5.899740066	6.228766408	0.078295077	0.225751148
<b>SNAP29</b>	3.634140656	3.631025359	-0.001237253	0.879370679
<b>SNAP47</b>	7.802885139	7.881819246	0.014521001	0.071671446

SNAP91	3.988260669	4.265691979	0.097020088	0.165564519
SNAPC1	5.16931994	5.162679676	-0.001854409	0.623304151
SNAPC2	7.93515347	7.914078394	-0.00383677	0.794274659
SNAPC3	3.60619553	3.57101262	-0.01414439	0.951592732
SNAPC4	7.618893702	7.586885908	-0.006073684	0.67490248
SNAPC5	6.552556801	6.556344021	0.000833602	0.861447309
SNAPIN	6.776566225	6.813954662	0.007937922	0.227606165
SNCA	7.838197278	7.704631268	-0.024795971	0.037408604
SNCAIP	2.472935364	2.555313718	0.047275891	0.258487327
SNCB	7.82491351	8.003986592	0.032643945	0.328654267
SNCG	6.316417815	6.333046627	0.003793096	0.883180985
SND1	9.973747583	10.03511517	0.008849577	0.190650976
SNED1	5.09800845	4.834086563	-0.076690457	0.164933855
SNF8	9.226884079	9.221400338	-0.00085768	0.981837626
SNHG1	8.215077682	8.090649908	-0.022018621	0.041292907
SNHG10	4.792923881	4.863934493	0.021217771	0.43526134
SNHG11	5.485085695	5.586861225	0.026523824	0.129620358
SNHG12	8.481087974	8.492544373	0.001947502	0.907735794
FABP7	5.405315735	5.956831507	0.140166261	0.018481069
SNHG5	10.27092029	10.34135539	0.00985983	0.603921834

HLA-DQA2	3.278780742	3.613695775	0.140315626	0.010158685
SNHG8	9.931447563	9.851115345	-0.011716938	0.242839101
SNIP	5.748504358	5.949057944	0.049474585	0.360690249
SNIP1	2.898072305	2.880818789	-0.008614676	0.758331085
SNN	6.809455934	7.078175542	0.055838008	0.005669666
SNORA70	5.662282238	5.477054817	-0.047983343	0.011172108
SNORD114-3	1.808416238	1.808912303	0.00039569	0.53378087
SNORD123	5.568120556	5.482111197	-0.022458856	0.405821811
SNORD22	2.733137166	2.633487803	-0.053583087	0.241452187
SNPH	6.438892139	6.678417965	0.052693904	0.307919231
SNRK	4.451611709	4.460027352	0.002724799	0.6982413
SNRNP200	9.926638517	9.970820035	0.006406905	0.681467085
SNRNP25	7.338697497	7.425535261	0.016970994	0.125143654
SNRNP27	7.061569132	6.940864155	-0.024873503	0.042755639
SNRNP35	7.085276503	7.029612768	-0.011378936	0.644927927
SNRNP40	4.32482702	4.348391	0.00783924	0.617461366
SNRNP48	6.66016453	6.565035563	-0.020754991	0.11575165
SNRNP70	10.33957564	10.28824806	-0.007179642	0.309883512
SNRPA	6.593210854	6.516522099	-0.016879024	0.14210333
SNRPA1	6.829678417	6.861103923	0.006623069	0.350274761

SNRPB	5.504526589	5.516884451	0.003235272	0.888628805
SNRPB2	6.032715861	5.965310549	-0.016210388	0.248168793
SNRPC	8.49710647	8.453770965	-0.007376616	0.135840858
SNRPD1	9.120207907	9.092974965	-0.004314332	0.482941456
SNRPD2	10.8116775	10.77279449	-0.005197847	0.36981138
SNRPD3	9.782864377	9.669080352	-0.016878263	0.052901146
SNRPE	8.743741245	8.789363049	0.007507912	0.264049526
SNRPF	8.843415238	8.78556069	-0.00946927	0.055929899
SNRPG	8.54410606	8.551616528	0.001267606	0.824748323
SNRPN	5.614803166	5.629441817	0.003756432	0.819381696
SNTA1	9.107549331	9.163163338	0.008782832	0.115909899
SNTB1	3.866043589	3.928886134	0.023262453	0.422781345
SNTB2	9.352901139	9.352483754	-6.44E-05	0.875019194
SNTG1	2.19365751	2.303245	0.070329582	0.07005642
SNTG2	5.048800801	5.126686648	0.022085963	0.570675651
SNUPN	8.153464781	8.090035113	-0.011267293	0.126336577
SNURF	7.788796682	7.783283718	-0.001021511	0.941158432
SNW1	8.483598907	8.418273775	-0.011151985	0.058181078
SNX1	7.075543079	7.036586535	-0.007965142	0.432829104
SNX10	7.669281106	8.052457317	0.070337758	0.037471529

SNX11	5.662667722	5.668032831	0.001366238	0.640973225
SNX12	6.917757695	6.9284795	0.002234296	0.752562947
SNX13	5.583062364	5.561035387	-0.005703154	0.327630616
SNX14	8.582500311	8.592766528	0.001724692	0.668361541
SNX15	3.007775702	3.067354246	0.028297807	0.198484687
SNX16	3.15369843	3.156704035	0.001374293	0.92306076
SNX17	6.840558172	6.834439423	-0.001291041	0.974134757
SNX18	3.568699563	3.448998556	-0.049220926	0.019972544
SNX19	4.389813265	4.485651162	0.031157859	0.017281019
SNX2	9.197686788	9.066386423	-0.020743418	0.006039738
SNX20	2.111038106	2.089289887	-0.014939942	0.635060364
SNX21	7.517416212	7.524719239	0.001400871	0.693142318
SNX22	2.592998815	2.6201855	0.015047407	0.384354693
SNX24	4.357361364	4.450937021	0.030654324	0.276642251
SNX25	5.258543795	5.304087444	0.012441219	0.54243326
SNX26	11.6889175	11.64609336	-0.00529524	0.356709472
SNX27	6.986015748	6.970078887	-0.00329491	0.971384272
SNX29	7.451867225	7.487244866	0.006832969	0.786305693
SNX3	9.020970404	8.83140993	-0.030638854	0.006608754
TMEM179	2.552667934	2.814413648	0.140828508	0.002146751

SNX32	2.216050053	2.293872718	0.049794874	0.144366558
SNX33	3.178127993	3.10242457	-0.034781093	0.332770222
SNX4	6.365401868	6.469307211	0.023359626	0.151122687
SNX5	6.972459185	6.965737049	-0.001391571	0.775186133
SNX6	7.522008437	7.425329261	-0.018662924	0.17002852
SNX7	6.393800921	6.310923176	-0.018822763	0.310874243
SNX8	5.591956589	5.663990373	0.018465652	0.384731834
SNX9	5.991122934	5.824199218	-0.040766733	0.11011144
SOAT1	3.798123629	3.750402169	-0.018241557	0.626234322
SOAT2	2.452540649	2.334949838	-0.070885492	0.217922251
SOBP	7.236113927	7.313558704	0.015358456	0.256457696
SOCS1	4.305809642	4.406505718	0.033350537	0.475230784
SOCS2	6.164850821	5.953156634	-0.050411131	0.138210672
SOCS3	6.842860477	6.822958401	-0.004202111	0.741069033
SOCS4	2.469652517	2.45367081	-0.00936636	0.832813801
SOCS5	5.241151331	5.304379789	0.017300309	0.291841279
SOCS6	3.669927901	3.495453838	-0.070271938	0.021528864
SOCS7	2.432628377	2.429108169	-0.002089207	0.764112588
SOD1	12.36223272	12.34359377	-0.00217684	0.958186323
SOD2	7.581084225	7.685230162	0.019684274	0.855488202

SOD3	10.64505495	10.70391743	0.007955496	0.267010243
SOHLH1	2.602454735	2.68097319	0.042883722	0.601519799
SOHLH2	2.094240841	2.044562761	-0.034635015	0.236772492
SOLH	6.080007232	5.971617225	-0.025951347	0.003324718
SON	7.352638728	7.306996986	-0.008983488	0.178557707
SORBS1	5.426001238	5.340077148	-0.023028792	0.246758919
SORBS2	7.957762556	8.00485862	0.00851307	0.362868773
SORBS3	7.811376934	7.738033563	-0.013609892	0.29980824
SORCS1	5.061339265	5.161268542	0.028206514	0.341800818
SORCS2	5.298430219	5.628881739	0.087283347	0.012107931
SORCS3	3.269846536	3.322047549	0.022849796	0.650382314
SORD	5.708421715	5.817021563	0.027188733	0.200903365
SORL1	10.27768472	10.38670792	0.01522316	0.212052097
SORT1	7.221927338	7.320732923	0.019604188	0.007136292
SOS1	2.254547874	2.286947366	0.020585017	0.304657748
SOS2	5.677927325	5.526404007	-0.039023349	0.091266998
SOST	4.749314046	4.167781739	-0.188439429	0.02403949
SOSTDC1	5.110168841	5.25209388	0.039521745	0.477366231
SOX1	8.565770841	8.55651738	-0.001559362	0.736383136
SOX10	4.606785887	4.374900662	-0.074510287	0.238691724

SOX11	2.690964702	2.757749965	0.035368192	0.246758975
SOX12	3.189983642	3.279476204	0.039916381	0.357076995
SOX13	3.812682662	3.672088162	-0.054205761	0.103808064
SOX14	1.930377927	1.96089281	0.02262735	0.84089693
SOX15	2.109756848	2.153894493	0.029870846	0.203098721
SOX17	6.14142596	6.056636704	-0.020056793	0.492460473
SOX18	5.787854185	5.644492563	-0.036184687	0.193711708
SOX2	6.458495768	6.729974634	0.059402878	0.171969554
SOX21	2.484551775	2.431820549	-0.030948834	0.218180141
SOX20T	2.758752291	2.976426972	0.109565575	0.039277183
SOX3	11.07920181	11.06238062	-0.002192062	0.665348586
SOX30	2.082130338	2.057592754	-0.017102915	0.905549366
SOX4	8.512994993	8.515072894	0.000352098	0.717739536
SOX5	3.863838828	3.956485324	0.034184489	0.139868905
SOX6	1.956454768	1.974089437	0.012945596	0.551615989
DNAH17	2.651652894	2.929092401	0.143561769	0.004568649
SOX8	7.66664955	7.933652408	0.049388957	0.103808147
SLC13A5	2.898626742	3.20262938	0.143887285	0.003889088
SP1	3.775630967	3.711806134	-0.0245964	0.280620916
SP100	8.471204742	8.439529486	-0.005404589	0.336223542



SP110	5.134488808	5.026963732	-0.030533368	0.689073423
SP140	5.260667464	5.203319338	-0.015813606	0.246196273
SP140L	2.699144172	2.549676915	-0.082187593	0.067018355
SP2	3.827576079	3.84329131	0.005911278	0.729632085
SP3	7.172133868	7.138049169	-0.006872577	0.64245463
SP3P	3.712462788	3.691594493	-0.008132478	0.527450613
SP4	2.653262444	2.752158352	0.052796097	0.182374516
SP5	4.88110696	4.967046303	0.02517983	0.245635033
AGRP	3.152085523	3.483351359	0.144169323	4.22E-05
SP8	1.889208742	1.849576831	-0.030586885	0.275122276
SPA17	5.484156563	5.586527521	0.026682052	0.04993113
SPACA1	1.964987563	1.998333775	0.02427739	0.546556028
SPACA3	2.320189152	2.396427218	0.046642699	0.111036281
SPACA4	2.086766523	1.997042923	-0.063403853	0.331738227
SPACA5	2.131158861	2.076310901	-0.037615653	0.122449428
SPAG1	2.057931199	1.996422317	-0.043777814	0.09113478
SPAG11B	2.006838172	1.985628979	-0.015328209	0.445067518
SPAG16	4.597018576	4.761223085	0.050633731	0.047331937
SPAG17	2.111321603	2.209280908	0.065430517	0.036410494
SPAG4	4.605080728	4.896533127	0.088534198	0.000816469

SPAG4L	2.063401086	2.135542965	0.049578643	0.044334719
SPAG5	5.858098834	5.884794254	0.006559442	0.826897498
SPAG6	2.040861113	2.151513007	0.076173557	0.035495318
SPAG7	6.100720735	6.205398782	0.024544234	0.101052476
SPAG8	5.254479252	5.19906393	-0.015295897	0.501638654
SPAG9	5.628283649	5.586463458	-0.010759772	0.216123262
SPAM1	1.94950104	1.864372303	-0.064414939	0.166407819
SPANXA1	1.955514623	1.965190627	0.007120939	0.907735926
SPANXB2	1.94948202	1.930484944	-0.014127546	0.473100221
SPANXD	1.929523801	1.875474479	-0.040989209	0.347435177
SPANXN3	1.920289	1.935382725	0.01129544	0.834429089
SPARC	10.63452049	10.53210083	-0.013961745	0.334146264
SPARCL1	10.60706542	10.59693047	-0.00137914	0.890808943
SPAST	3.609766517	3.727780958	0.046411565	0.080929233
SPATA1	2.36507943	2.395000655	0.018137414	0.609709081
SPATA12	1.929307417	1.940901127	0.008643585	0.42879358
SPATA13	5.051826119	5.207030092	0.043655761	0.047254929
SPATA16	1.919272788	1.937926887	0.013954365	0.818845546
SPATA17	2.483834026	2.517481923	0.019412645	0.55392356
SPATA18	2.61669855	2.49943181	-0.066147564	0.059288346

SPATA19	2.016979623	2.01075481	-0.004459337	0.717224153
SPATA2	2.878813086	2.889927458	0.005559158	0.695180412
SPATA20	7.051442278	7.023350113	-0.005759017	0.693651756
SPATA22	2.329166901	2.188321592	-0.089989253	0.037471779
SPATA2L	8.346466589	8.352030866	0.00096147	0.883725302
SPATA3	1.919113331	1.930991127	0.008901624	0.58386986
SPATA4	2.797240026	2.844839648	0.024343282	0.678435032
SPATA5	3.060390921	3.044421352	-0.007547904	0.770962089
SPATA5L1	5.647295669	5.597059796	-0.012891006	0.286193893
SPATA6	3.427219325	3.447212507	0.008391718	0.641467014
SPATA7	5.079570815	5.105527338	0.007353376	0.816165642
SPATA8	2.122539801	2.110952296	-0.007897631	0.788959725
SPATA9	2.367602914	2.327057627	-0.0249202	0.405432188
SPATS1	2.017127808	1.992508866	-0.017716354	0.458755
SPATS2	2.984221152	3.041590521	0.027471487	0.276337845
SPC24	2.188976179	2.083798514	-0.071040467	0.137478524
SPC25	2.60373553	2.848843549	0.129793478	0.021528833
SPCS1	8.927762139	9.125160056	0.031551274	0.012761364
SPCS2	8.705109795	8.60953307	-0.015927498	0.114320459
SPCS3	7.731308821	7.530533148	-0.037960658	0.039408946

SPDEF	2.500614583	2.545216415	0.025505618	0.199933455
SPDYA	1.910188722	1.92004788	0.007427108	0.56087412
SPEF1	5.082844	5.142278739	0.016771861	0.654360815
SPEF2	2.923470013	2.906264923	-0.008515575	0.799067179
SPEG	8.227595212	8.237069092	0.001660273	0.695180308
SPEM1	1.839246987	1.86496438	0.020032848	0.905002784
SPEN	5.44235049	5.369085725	-0.01955343	0.178113105
SPERT	2.074372099	2.169037261	0.064380129	0.034836768
SPESP1	2.53838449	2.514513746	-0.013631171	0.964234659
SPG11	5.88670604	5.914432218	0.006779091	0.572082587
SPG20	7.297800854	7.127438775	-0.034078041	0.008425222
SPG21	9.103383993	9.088728021	-0.002324535	0.99449583
SPG7	8.478930066	8.487235127	0.001412419	0.697729872
SPHAR	6.864993391	6.776903754	-0.018632049	0.396150877
SPHK1	7.506316099	7.63960388	0.02539279	0.123118742
SPHK2	8.976070159	8.942535014	-0.00540009	0.996697478
SPHKAP	4.311473715	4.228740514	-0.027953049	0.479078194
SPI1	2.746449583	2.606667627	-0.07536117	0.05461567
SPIB	2.395263934	2.405157176	0.005946542	0.827972471
SPIC	1.968217589	1.969739113	0.001114839	0.910470149

SPIN1	6.152105755	6.084720218	-0.015889376	0.154090443
SPIN2B	6.466374987	6.406559254	-0.01340743	0.125313802
SPIN3	3.226969331	3.269872092	0.019054336	0.337613338
SPIN4	3.569677132	3.446145352	-0.050810039	0.03191824
SPINK1	2.120263411	2.066295507	-0.037196916	0.172620082
SPINK2	2.232842232	2.237023986	0.002699409	0.585292039
SPINK4	6.552962285	6.414046746	-0.03091236	0.320522844
SPINK5	2.54942243	2.362697796	-0.109735332	0.140239893
SPINK5L3	1.897532179	1.854517993	-0.033080086	0.605848824
SPINK6	2.311742358	2.28697162	-0.015542157	0.879914926
SPINK7	4.150865556	4.11895019	-0.011135525	0.219472219
SPINLW1	1.894537238	1.938217458	0.032884945	0.182148119
SPINT1	2.648827556	2.616347923	-0.017799521	0.438516297
SPINT2	10.45192338	10.45671329	0.000661006	0.914298849
SPIRE1	4.079619318	4.076501592	-0.001102958	0.690598116
SPIRE2	2.969341576	3.064929465	0.04571081	0.177891114
SPN	2.928181265	2.954239549	0.01278195	0.53151579
SPNS1	4.369222762	4.376801965	0.002500446	0.798001502
SPNS2	9.32669245	9.126892754	-0.031241766	0.139313886
SPNS3	3.976253649	3.922875704	-0.019498166	0.527450613

SP011	1.865880848	1.943705831	0.058953031	0.30335923
SPOCD1	5.076786331	5.076331852	-0.000129157	0.902817168
SPOCK1	7.186814344	7.580238169	0.076890761	0.000864458
SPOCK2	7.315295702	7.259088268	-0.011127824	0.320186962
SPOCK3	4.076772603	4.312947972	0.081246825	0.292157545
SPON1	7.724930053	8.202874056	0.086607608	0.001970339
SPON2	8.944549887	8.825450866	-0.019338901	0.656852113
SPOP	8.15982055	8.155347141	-0.000791137	0.802799293
SPOPL	5.949674464	5.825657782	-0.030389778	0.036657752
SPP1	10.93757828	11.15753689	0.028725233	0.062130461
SPP2	1.979771715	1.986615972	0.004978931	0.859279529
SPPL2A	6.049897132	5.96740019	-0.019808081	0.84197598
SPPL2B	10.39136298	10.37467365	-0.002318941	0.504273124
SPR	6.075707629	5.794964324	-0.068252668	0.065288378
SPRED1	3.583586954	3.520246021	-0.025728102	0.390416295
SPRED2	2.754761815	2.703367056	-0.027170174	0.38247244
SPRN	2.890768815	3.047036732	0.075953656	0.045290726
SPRR1A	4.976337887	4.99347743	0.004960404	0.728077207
SPRR1B	2.013448411	2.018804479	0.003832685	0.908282673
SPRR2C	2.345341265	2.349504908	0.002558921	0.856029655

SPRR2D	2.067196219	1.996666662	-0.050081837	0.165564367
SPRR2E	4.119185238	4.176875887	0.02006527	0.528352466
SPRR2G	1.96481551	2.044338317	0.057240113	0.061650255
SPRR3	2.138869603	2.16734388	0.019079545	0.41090565
SPRR4	1.917664623	1.960311479	0.031732474	0.600559625
SPRY1	5.681352609	5.792242732	0.027887616	0.337961247
SPRY2	7.488021821	7.620070303	0.025219669	0.034247166
SPRY3	2.936498093	2.897413035	-0.019331341	0.210792979
SPRY4	4.621358106	4.515041831	-0.033577533	0.370191483
SPRYD3	7.906169358	7.956880085	0.009223997	0.277251406
SPRYD4	5.93441153	5.987422176	0.012830023	0.390035483
SPRYD5	1.922090099	1.903178768	-0.014264883	0.257616102
SPSB1	6.844527682	6.758001261	-0.01835437	0.317173975
SPSB2	6.543443775	6.578560134	0.007721735	0.751515845
SPSB3	9.797352046	9.813457514	0.00236964	0.603440191
SPSB4	7.525532325	7.578051451	0.010033299	0.262284849
SPTA1	2.399943046	2.298111042	-0.06255166	0.418007228
SPTAN1	8.617898298	8.628993345	0.001856192	0.72859491
SPTB	5.922964675	6.085430894	0.039039938	0.257616045
SPTBN1	6.771526993	6.76667362	-0.001034397	0.850078036

SPTBN2	6.098153834	6.272668451	0.040706765	0.155491066
SPTBN4	4.613445199	4.83985693	0.069119881	0.212812609
SPTBN5	7.772515967	7.834666711	0.011490228	0.915394342
SPTLC1	6.594713397	6.56114793	-0.007361713	0.577726201
SPTLC2	3.950734874	3.914831127	-0.013170958	0.277251692
SPTLC3	2.705870272	2.624582894	-0.044004509	0.107223451
SPTY2D1	3.219580364	3.217208894	-0.001063048	0.900632092
SPZ1	1.898266464	1.872070521	-0.020047738	0.519367904
SQLE	7.381323649	7.557786859	0.034084284	0.023315367
SQRDL	9.80537343	9.753230282	-0.007692455	0.853322827
SQSTM1	8.851632033	8.870069937	0.003002001	0.783653587
SR140	6.502929762	6.566978401	0.014139869	0.436073359
SRA1	6.502828205	6.571644239	0.015187071	0.196804257
SRBD1	4.214387483	4.288571556	0.025174227	0.336572029
SRC	4.780442305	4.786369634	0.001787707	0.999449579
SRCAP	3.616656616	3.626068901	0.003749711	0.703353798
SRCRB4D	3.942803603	3.907022465	-0.013152298	0.83335227
SRD5A1	2.819628861	2.740736486	-0.040941654	0.414447138
NXPH3	3.561968735	3.938342838	0.144913852	0.000325494
SRD5A2L2	1.874296901	1.909166732	0.026593599	0.343906706



<b>SRD5A3</b>	6.049112907	6.048193648	-0.000219257	0.969184104
<b>SREBF1</b>	10.30991859	10.61155236	0.041602782	2.51E-05
<b>SREBF2</b>	6.984686371	7.07156019	0.017833214	0.166407819
<b>SRF</b>	7.128379258	7.106930866	-0.004347431	0.385108861
<b>SRFBP1</b>	5.154429483	5.15744288	0.000843186	0.958736869
<b>SRGAP1</b>	4.86839751	4.900132627	0.009373827	0.544721841
<b>SRGAP2</b>	7.87783247	7.804434148	-0.013504702	0.120788359
<b>SRGAP2P1</b>	4.427559821	4.25807412	-0.056310737	0.073761426
<b>SRGAP3</b>	4.051771344	4.258274718	0.071716267	0.051233872
<b>SRGN</b>	8.137536768	7.883240415	-0.045803384	0.309557884
<b>SRI</b>	8.744675795	8.70690862	-0.006244316	0.31617283
<b>SRM</b>	6.991850424	7.011049148	0.003956027	0.650382197
<b>SRMS</b>	1.94748851	1.896885894	-0.037981919	0.347435349
<b>SRP14</b>	13.01694697	12.99140065	-0.002834132	0.779388387
<b>SRP14P1</b>	5.817062517	5.793104437	-0.005954135	0.445478994
<b>SRP19</b>	6.246422735	6.291935493	0.010473671	0.911564148
<b>SRP54</b>	5.580270629	5.561851915	-0.004769757	0.645918228
<b>SRP68</b>	5.11259302	5.172861169	0.016907285	0.318845618
<b>SRP72</b>	8.864561245	8.947200521	0.013387124	0.039474158
<b>SRP9</b>	6.696011285	6.783326641	0.018691006	0.131728022

SRPK1	8.922155377	8.96307962	0.00660224	0.551615087
SRPK2	5.410951013	5.376670218	-0.009169195	0.623792025
SRPK3	2.52646002	2.567407683	0.023195052	0.241729414
SRPR	9.135640298	9.162187993	0.004186317	0.756231486
SRPRB	7.26783457	7.183370951	-0.016864563	0.277557014
SRPX	7.008480841	6.674091641	-0.070530263	0.227872591
SRPX2	4.100922411	3.973530113	-0.04552717	0.540149869
SRR	3.385486517	3.563914007	0.074099353	0.003158591
SRRD	4.444157026	4.446990415	0.000919503	0.994495838
SRRM1	7.98387804	7.961282986	-0.004088738	0.46210728
SRRM2	8.869421788	8.774038521	-0.015599016	0.050904864
SRXN1	7.576969682	7.557874577	-0.003640398	0.852241193
SRY	1.856848199	1.820206845	-0.028753472	0.580558119
RNF182	4.398621722	4.865375782	0.145499701	0.016303198
SS18	4.839761689	4.901926775	0.018412923	0.339005488
SS18L1	4.104430185	4.09024062	-0.004996232	0.886993841
SS18L2	9.671787854	9.656897521	-0.002222832	0.944451824
SSB	9.490830483	9.401281021	-0.013676982	0.032584591
SSBP1	6.649654185	6.735302324	0.018463389	0.216379784
SSBP2	6.803924053	6.85558369	0.010912466	0.498131395

SSBP3	3.780940662	3.872730183	0.034605783	0.063398471
SSBP4	6.943364848	6.956259	0.002676667	0.984038871
SSFA2	6.642179762	6.50763319	-0.029523834	0.035980826
SSH1	4.247774901	4.208198204	-0.01350466	0.511350052
SSH3	7.203397053	7.111386986	-0.018546462	0.271196681
SSNA1	7.752855629	7.762652289	0.001821867	0.913752543
SSPN	7.054643887	6.995136725	-0.012221002	0.607777779
SSPO	2.780582596	2.919256028	0.070213553	0.216123974
SSR1	5.937355325	6.084521352	0.035323321	0.008255547
SSR2	10.36277457	10.24974814	-0.015821868	0.104688477
SSR3	5.004663483	4.920120035	-0.024579552	0.252146827
SSR4	9.699290079	9.65906281	-0.00599594	0.59147155
SSRP1	10.0194563	10.00951577	-0.001432041	0.727038243
SSSCA1	7.007323603	7.124579423	0.023941329	0.206299727
SST	3.392581139	3.340359824	-0.022379802	0.993945435
SSTR1	3.049656861	2.901278768	-0.071958001	0.020009301
SSTR2	5.060233748	5.209104373	0.041831315	0.141542787
SSTR3	2.403822974	2.442477761	0.023014772	0.460848834
SSTR4	2.056930894	2.086650021	0.020695323	0.457918598
SSTR5	2.044405185	2.04495131	0.000385337	0.894627417

SSU72	9.072774517	9.068442317	-0.000689043	0.801198001
SSX1	1.877731411	1.848218056	-0.022855737	0.514015401
SSX2	2.581795656	2.571204232	-0.00593061	0.982387971
SSX2IP	5.78435257	6.153264197	0.089196447	0.066403483
SSX3	2.103280742	2.073764254	-0.020389534	0.783124181
SSX4B	2.098341921	2.059479352	-0.026970119	0.353844287
SSX5	2.180021974	2.296199444	0.074905281	0.028604633
SSX7	1.896102675	1.936844106	0.030670748	0.949395284
SSX8	1.95363943	1.899090303	-0.040855716	0.574901255
SSX9	2.029703411	2.015739838	-0.009959481	0.889173868
ST13	7.589746563	7.52026888	-0.013267467	0.257905545
ST14	3.917190318	3.88440693	-0.012124879	0.553923607
ST18	3.056654715	3.246611577	0.0869812	0.212812663
ST3GAL1	8.386486914	8.304639718	-0.014149014	0.189254967
ST3GAL2	5.423405232	5.40467019	-0.004992388	0.940060585
ST3GAL3	5.699501099	5.74122138	0.010522047	0.473951794
ST3GAL4	5.354762066	5.334282387	-0.005528271	0.787367059
ST3GAL5	6.89538751	7.058107359	0.033649744	0.015877571
ST3GAL6	4.139766675	3.992947852	-0.052095227	0.111967071
ST5	7.467785974	7.44553531	-0.004305003	0.432829104

ST6GAL1	6.212411808	6.076311746	-0.031957577	0.466741118
ST6GAL2	2.184846371	2.232453387	0.031098214	0.293423527
ST6GALNAC1	2.237043384	2.279028296	0.026825601	0.314511497
ST6GALNAC2	7.211039172	7.265638303	0.010882368	0.666354718
ST6GALNAC3	5.79596694	5.715094979	-0.020271891	0.494637634
ST6GALNAC4	4.554690033	4.415148303	-0.044890977	0.033036737
ST6GALNAC5	4.152216093	4.316847944	0.056096749	0.191591672
ST6GALNAC6	7.752591331	7.769184056	0.003084473	0.848996684
ST7	3.989729397	4.06708957	0.027705865	0.159954486
ST7L	3.547517656	3.561745852	0.005774712	0.498131293
ST70T1	5.033121993	5.310071127	0.077277619	0.077046843
ST8SIA1	4.677803834	4.99172888	0.093708215	0.148004985
ST8SIA2	2.468239192	2.41549843	-0.031161295	0.188559036
ST8SIA3	4.765256437	5.067415394	0.088696243	0.17240307
ST8SIA4	2.280004735	2.228543408	-0.032935758	0.398073952
EDN2	2.235169404	2.476871007	0.148134559	0.005054343
STAB1	6.268954126	5.970566373	-0.070356979	0.183508374
STAB2	2.093545311	2.040300324	-0.037166616	0.478221793
STAC	2.630421523	2.836641092	0.108889615	0.032980149
STAC2	7.651088046	8.032978746	0.070270134	0.088136803

STAC3	2.430501417	2.481370514	0.029883197	0.199691539
STAG1	2.987167642	2.966428183	-0.010051349	0.696200078
STAG2	7.853048649	7.855487937	0.000448056	0.917036512
STAG3	4.513820709	4.601911	0.027883967	0.108128948
STAG3L1	5.542885477	5.438228563	-0.027500412	0.081289818
STAG3L2	6.200627411	6.13314038	-0.015788229	0.327289955
STAG3L4	2.667183795	2.602878239	-0.035209419	0.184647341
STAM	3.673871199	3.620599479	-0.021072458	0.337613396
STAM2	3.939506311	3.871896754	-0.024974363	0.102785853
STAMBP	4.666472424	4.710889838	0.013667226	0.510463058
STAMBPL1	2.948382358	3.037253711	0.042843796	0.111811556
STAP1	1.941284033	1.918961169	-0.016685699	0.794275139
STAP2	3.557306947	3.551030176	-0.002547844	0.942805361
STAR	4.393073199	4.33432762	-0.019422331	0.503397019
STARD10	6.520989219	6.535816606	0.003276668	0.908829421
STARD13	3.901473861	3.807095465	-0.035328488	0.215356649
STARD3	4.432731212	4.416391704	-0.005327749	1
STARD3NL	8.589895152	8.546406465	-0.007322589	0.20457038
STARD4	3.321580656	3.269271725	-0.022900655	0.617947579
STARD5	2.616445325	2.605292732	-0.006162628	0.916489099

STARD6	1.856758212	1.945887894	0.067642638	0.047408971
STARD7	9.356488199	9.339830401	-0.002570787	0.890809021
STARD8	5.819229775	5.441928141	-0.096710306	0.119309071
STARD9	5.949606192	5.999839852	0.012129814	0.439331753
STAT1	4.86869347	4.971734739	0.030214653	0.443014367
STAT2	3.876021695	3.768588232	-0.040552476	0.203098451
STAT3	5.070419318	5.180439718	0.030969498	0.372775867
STAT4	3.313823868	3.300326563	-0.00588814	0.876107093
STAT5A	4.728964954	4.622010331	-0.033003966	0.434855411
STAT5B	3.81795598	3.640285338	-0.068748931	0.000638392
STAT6	8.645622351	8.388751761	-0.043513665	0.145126049
STATH	2.015629179	1.934026979	-0.059622326	0.030459823
STAU1	7.908536444	7.911368641	0.000516564	0.649884919
STAU2	5.046638536	5.123612134	0.021838507	0.147232822
STBD1	2.621008828	2.718816246	0.052856436	0.112903919
STC1	2.910680993	2.880326324	-0.015124461	0.432424928
STC2	3.553423748	3.707907218	0.061395403	0.084470851
STEAP1	5.020305874	4.954311035	-0.019090822	0.595769316
STEAP2	6.152793212	6.223620739	0.016512641	0.953790548
STEAP3	4.316761325	4.235400092	-0.02745107	0.429196387

STEAP4	3.643575093	3.710729535	0.026348126	0.956538307
STGC3	2.624219464	2.515423352	-0.061087148	0.173272654
STH	2.564802318	2.542922056	-0.012360392	0.744720221
STIL	1.878481172	1.878079373	-0.000308619	0.798534235
STIM1	5.161249066	5.184882894	0.006591152	0.765165153
STIM2	3.545900616	3.557454824	0.004693335	0.770434558
STIP1	5.91047951	5.828277944	-0.0202055	0.606813002
STK10	5.716464815	5.569046063	-0.037693003	0.424780027
STK11	5.930261947	5.914202324	-0.003912233	0.512681044
STK11IP	8.135734675	8.129421958	-0.001119857	0.687549006
STK16	4.55324798	4.73251388	0.055710703	0.027714023
STK17A	3.860246821	3.781160225	-0.029864111	0.049850613
STK17B	3.646962821	3.385572444	-0.107295702	0.073096247
STK19	5.608034808	5.728971887	0.030780954	0.268800519
STK24	7.445694689	7.417644859	-0.005445263	0.626722979
STK25	8.323189106	8.32733807	0.000718979	0.635059718
STK3	2.914894205	2.984206352	0.033903776	0.418800378
STK31	2.424468437	2.484554127	0.0353185	0.209788623
STK32A	3.867890609	3.669318901	-0.076034698	0.098074828
STK32B	2.130443715	2.15154993	0.014222383	0.711561646



STK32C	5.422966874	5.656889401	0.060926607	0.103369106
STK33	5.144177702	5.196044866	0.014473408	0.341450324
STK35	4.329593954	4.608102282	0.08994101	0.074656137
STK36	4.975346444	4.958158366	-0.004992634	0.931831031
STK38	3.475033444	3.310919183	-0.069795066	0.003422119
STK38L	3.793041298	3.649635303	-0.055602773	0.018861884
STK39	7.76381596	7.713719465	-0.009339241	0.53969313
STK4	4.192458073	4.087093077	-0.036721257	0.068996267
STK40	9.650486007	9.547617535	-0.015460824	0.015997623
STMN1	10.61857354	10.6684379	0.006758976	0.966983785
STMN2	10.07123091	10.07593199	0.000673267	0.970284132
STMN3	9.806223689	9.963344254	0.022932401	0.447950876
STMN4	5.954508013	6.282748479	0.077413514	0.068157731
STOM	7.682657278	7.383291296	-0.057341318	0.173708314
STOML1	8.645987742	8.762066676	0.019240402	0.041087359
STOML2	6.190842205	6.243956965	0.012324906	0.285260242
STOML3	1.973142199	1.952586549	-0.015108433	0.760431876
STON1	7.31673449	7.407712866	0.017828271	0.342852873
STON1-GTF2A1L	3.16386706	3.200420394	0.016572443	0.782064362
STON2	2.628195815	2.662225852	0.018560201	0.403488099

STOX1	3.322477775	3.418718768	0.041196199	0.272702216
STOX2	6.027788576	6.099517563	0.017066323	0.373886759
STRA13	8.602202808	8.581822085	-0.003422153	0.406210705
STRA6	6.918241715	6.73483907	-0.038761948	0.408163286
STRA8	1.946954702	1.866903782	-0.060571744	0.023696279
STRADA	5.489942662	5.501971373	0.003157552	0.636044024
STRADB	4.736226834	4.812675324	0.02310092	0.430002
STRAP	9.723652404	9.786087754	0.009233898	0.401934802
STRBP	6.577568311	6.707241317	0.028165183	0.376487177
STRC	3.107092	3.196148246	0.040769366	0.223381832
STRN	2.674988053	2.688199866	0.007107958	0.514015602
STRN3	4.027418424	4.035432704	0.002868009	0.957087901
STRN4	5.732935894	5.707993007	-0.006290579	0.412870709
STS	2.896909742	2.94028807	0.021442772	0.328313205
STT3A	8.110172623	8.01121481	-0.017711595	0.052062205
STT3B	4.324052013	4.220085	-0.035111819	0.022003908
STUB1	10.45540881	10.47015904	0.002033883	0.600076189
STX10	6.763338841	6.673268915	-0.019341992	0.087495732
STX11	2.731812848	2.635062408	-0.052021519	0.128403263
STX12	8.588130623	8.667716655	0.013307859	0.230543316

STX16	8.180141305	7.973262352	-0.036955624	1.24E-07
STX17	4.984580536	4.926855352	-0.016804988	0.504717914
STX18	6.099689152	6.147483359	0.011260202	0.328654383
STX1A	5.206556126	5.224265493	0.004898797	0.912111194
STX1B	2.821076609	2.878330282	0.028986303	0.32491097
STX2	5.255970967	5.233951415	-0.006056774	0.897902024
STX3	3.733232901	3.583312415	-0.059131683	0.03208382
STX4	7.213934636	7.149704289	-0.012902778	0.498569268
STX5	7.085045377	7.093249197	0.001669539	0.810277514
STX6	5.562796517	5.606718979	0.011346427	0.418006728
STX7	5.094172258	4.95659819	-0.039497434	0.035194551
STX8	7.129268795	7.131650711	0.00048193	0.934573418
STXBP1	6.066524464	6.185085401	0.027923288	0.783654166
STXBP2	2.780731636	2.691502352	-0.047052833	0.173926708
STXBP3	6.53263649	6.575546	0.009445331	0.507807262
STXBP4	3.971849106	3.953251141	-0.006771206	0.539237503
STXBP5	3.885535841	3.927656951	0.015555358	0.701307241
STXBP5L	4.085029073	4.312963683	0.078333222	0.315508148
STXBP6	4.06181355	3.908064958	-0.05566957	0.041706566
STYK1	2.855226907	2.880262063	0.01259468	0.906095948

STYX	4.588162093	4.591180394	0.000948758	0.933476334
STYXL1	5.171792444	5.035923359	-0.03840805	0.034130279
SUB1	8.612978682	8.585804317	-0.004558968	0.524298472
SUCLA2	5.086589152	5.094106986	0.002130688	0.681468163
SUCLG1	7.417506497	7.331101803	-0.016904246	0.029934249
SUCLG2	3.839139298	3.79929319	-0.015051859	0.517580712
SUCNR1	2.182579702	2.149993373	-0.021702125	0.976335381
SUDS3	5.959952397	5.857973711	-0.024899089	0.04913115
SUFU	3.001908026	2.968683627	-0.016056423	0.311203677
SUGT1	9.189681364	9.055528993	-0.021215919	0.05513812
SUGT1L1	3.607940444	3.692571169	0.033450203	0.361052775
SULF1	10.73473499	10.74069282	0.000800481	0.927992548
SULF2	10.59076754	10.44128776	-0.020507493	0.011597235
SULT1A1	6.644086907	6.500606627	-0.03149659	0.081410448
SULT1A2	8.625476073	8.490253127	-0.02279652	0.155290296
SULT1A4	8.51167751	8.381001077	-0.022320913	0.05522589
SULT1B1	2.795195086	2.722186472	-0.038183081	0.474804103
CDH20	2.663360199	2.951728993	0.148312714	0.007062898
SULT1C4	2.202498603	2.182306077	-0.013287644	0.482942865
SULT1E1	2.303104146	2.053527127	-0.165475646	0.063398597

SULT2A1	1.983230675	1.921417704	-0.045681306	0.194659498
SULT2B1	2.063185424	2.096345937	0.023003323	0.472249701
SULT4A1	4.911866556	5.186886303	0.078597379	0.065793394
SUMF1	7.185839795	7.083930535	-0.020606706	0.260527492
SUMF2	5.298740808	5.339873979	0.011156136	0.421584651
SUM01	3.775302755	3.812765577	0.014245488	0.48466558
SUM01P3	3.929326543	3.922201289	-0.00261849	0.904456326
SUM02	9.102090967	9.089686683	-0.001967438	0.741066651
SUM03	5.739263722	5.795773993	0.014135669	0.277251864
SUNC1	2.137595417	2.103091007	-0.023477539	0.520710835
SUOX	4.569939351	4.641194232	0.022321056	0.207789829
SUPT16H	5.223315629	5.348727472	0.034229813	0.035676639
SUPT16HP	2.776041563	2.769441754	-0.003433972	0.743676275
SUPT3H	2.379530914	2.371357873	-0.004963794	0.957637555
SUPT4H1	8.909497775	8.949350824	0.006438925	0.419593583
SUPT5H	7.904515603	7.917272915	0.002326528	0.853864337
SUPT6H	6.578435179	6.615843514	0.008180662	0.563200492
SUPT7L	7.664169119	7.567952465	-0.018226369	0.064387172
SUPV3L1	5.672043609	5.66956657	-0.000630177	0.677929942
SURF1	8.585658695	8.677137437	0.015290357	0.119800125

<b>SURF2</b>	7.614942682	7.735625056	0.022684692	0.050416356
<b>SURF4</b>	7.181549258	7.1185635	-0.012708967	0.140796702
<b>SURF6</b>	4.577150689	4.603281732	0.008212953	0.638506388
<b>SUSD1</b>	5.478518232	5.306732655	-0.045961872	0.035374714
<b>SUSD2</b>	4.528321026	4.361350451	-0.054201318	0.442604572
<b>SUSD3</b>	7.126907702	7.02173043	-0.02144963	0.444245488
<b>SUSD4</b>	3.035978656	3.174802937	0.064505397	0.204818048
<b>SUSD5</b>	2.624600517	2.670304972	0.024906669	0.427989231
<b>SUV39H1</b>	3.118811252	3.178111162	0.027173343	0.400775675
<b>SUV39H2</b>	3.791079159	3.876866014	0.032282295	0.25936025
<b>SUV420H1</b>	3.83110306	3.883720113	0.019679398	0.498131754
<b>SUV420H2</b>	3.637515457	3.666163648	0.011317807	0.683493082
<b>SUZ12</b>	7.24563257	7.327651155	0.016239175	0.31384756
<b>SUZ12P</b>	3.341948285	3.185725423	-0.069067482	0.11011161
<b>SV2A</b>	4.010900907	4.248578782	0.083053994	0.04303925
<b>SV2B</b>	9.930784689	10.15175325	0.031749286	0.485526521
<b>SV2C</b>	5.825498768	5.819468401	-0.001494204	0.985139506
<b>SVEP1</b>	4.173952682	3.837736866	-0.121158449	0.036844302
<b>SVIL</b>	5.056714695	4.807978042	-0.072770075	0.008685577
<b>SVIP</b>	2.826082113	2.989111465	0.080913312	0.043971612

<b>SVOP</b>	8.158540384	8.392016394	0.040706429	0.359241573
<b>SVOPL</b>	3.759660073	3.91766038	0.059390109	0.241452243
<b>SWAP70</b>	5.686350331	5.52422212	-0.041731656	0.243676558
<b>SYAP1</b>	6.49603196	6.638480944	0.031294423	0.01924966
<b>SYCE1</b>	2.294126391	2.393213901	0.061004472	0.095304503
<b>SYCE2</b>	2.422182861	2.502641423	0.047143813	0.059102652
<b>SYCN</b>	2.231449722	2.200909423	-0.019881528	0.331051266
<b>SYCP1</b>	2.064560013	2.105247641	0.028155592	0.30303532
<b>SYCP2</b>	2.443890139	2.320593303	-0.074685728	0.006391779
<b>SYCP2L</b>	2.016813139	1.99440343	-0.016120153	0.734823477
<b>SYCP3</b>	2.029832172	1.997843035	-0.02291721	0.355278719
<b>SYDE1</b>	3.867247146	3.809757725	-0.021607711	0.462108241
<b>SYDE2</b>	5.341981689	5.327264972	-0.00397999	0.674399028
<b>SYF2</b>	7.262098728	7.182270246	-0.015946606	0.1167134
<b>SYK</b>	4.965605563	4.808787718	-0.046296427	0.2254871
<b>SYMPK</b>	7.184034907	7.327583683	0.028543179	0.049131177
<b>SYN1</b>	8.857253987	8.84998057	-0.001185202	0.968084067
<b>SYN2</b>	3.129264192	3.185583246	0.025734074	0.440557716
<b>SYN3</b>	3.459202159	3.504549852	0.018789818	0.439332244
<b>SYNC</b>	5.623671497	5.388824232	-0.061541792	0.027085847

SYNCRIP	7.715371623	7.768461394	0.009893242	0.14550711
SYNE1	5.930359093	5.83504081	-0.023376719	0.259360364
SYNE2	5.793240887	5.854480683	0.015170549	0.446302162
SYNGAP1	2.387651013	2.398639141	0.006624147	0.865786232
SYNGR1	7.272591709	7.363715486	0.017964302	0.134041379
SYNGR2	9.930825715	9.761794141	-0.02476735	0.158317445
SYNGR3	5.349914212	5.453937197	0.02778233	0.639492933
SYNGR4	5.973850152	6.001744359	0.00672082	0.977435763
SYNJ1	3.35157655	3.411257472	0.025463764	0.361052717
SYNJ2	3.571604848	3.477827021	-0.038386295	0.156295523
SYNJ2BP	6.227003808	6.202981704	-0.005576292	0.499007037
SYNM	7.584372159	7.900133972	0.058847361	1.65E-05
SYNPO	6.921340086	6.825071577	-0.020207218	0.487689034
TNNI3	2.713254576	3.008185887	0.148869302	0.002643909
SYNPO2L	2.283797285	2.431183866	0.090224407	0.093672722
SYNPR	9.505893768	9.634109479	0.019329039	0.057633545
SYP	4.75768553	4.886023599	0.038400915	0.287130239
SYPL1	6.682664649	6.561971866	-0.02629407	0.389275157
SYS1	5.695546205	5.731684901	0.009125096	0.54289067
SYT1	7.614978861	7.925562796	0.057673353	0.344258405



SYT10	2.073547066	2.025614451	-0.033741192	0.787897841
SYT11	6.280438325	6.545116359	0.059553589	0.017905617
SYT12	3.742695404	3.773322937	0.011757937	0.631621708
SYT13	6.216166914	6.339255838	0.02828825	0.837661696
SYT14	2.207111338	2.15925588	-0.03162519	0.375000039
SYT14L	1.852248669	1.861274169	0.007012786	0.724453302
CA3	2.668720417	2.963409493	0.151109824	0.00348336
SYT16	1.933693444	1.944414669	0.007976827	0.963684809
SYT17	5.07461745	5.249436711	0.048863554	0.11227857
SYT2	2.517379503	2.598019028	0.045489273	0.066710417
SYT3	5.354220053	5.551133831	0.052106042	0.104543172
SYT4	6.466732801	6.722165697	0.055889104	0.502077698
SYT5	2.694164914	2.686361056	-0.004184942	0.83389066
SYT6	3.987675152	4.111022641	0.043949429	0.405043069
SYT7	2.090743099	2.138531106	0.032604391	0.425580689
SYT8	2.036385146	2.012976662	-0.016680001	0.80226607
SYT9	2.814741689	2.892119254	0.039124511	0.206547934
SYTL1	3.383674596	3.248239683	-0.058932742	0.121783049
SYTL2	4.527763755	4.589606676	0.019571837	0.413264845
SYTL3	5.186915377	5.025868627	-0.045503872	0.441375785

SYTL4	4.027067523	3.969654711	-0.020716138	0.558088974
WNT10A	4.17907055	4.642974697	0.151867305	0.002146745
SYVN1	6.973637762	6.917816373	-0.011594707	0.159340268
T	2.612293887	2.647329908	0.019220782	0.349208247
TAAR1	1.839485126	1.831152732	-0.006549882	0.609225733
TAAR2	2.515910377	2.49442519	-0.012373129	0.541519307
TAAR5	3.224813318	3.270908803	0.020475889	0.242006809
TAAR6	1.816733834	1.879428077	0.048946638	0.070377094
TAAR8	2.151916073	2.117043113	-0.023571163	0.729632333
TAAR9	1.914229079	1.871616099	-0.032478947	0.343906937
TAC1	3.115497007	3.306711289	0.085934758	0.063300465
TAC3	4.289205834	4.504695986	0.070719193	0.233508315
TAC4	2.189150947	2.208167331	0.012478066	0.846835335
TACC1	9.188078291	9.109009542	-0.012468957	0.853864061
TACC2	4.073753046	4.021310915	-0.018692641	0.278167941
TACC3	3.826230325	3.765575423	-0.023053379	0.234049876
TACR1	2.002079364	2.007753423	0.004082934	0.785244748
TACR2	2.784964113	2.694977563	-0.047385475	0.298844734
TACR3	1.960524649	1.883332993	-0.057951674	0.130846807
TACSTD2	2.622301079	2.551839239	-0.039295893	0.209788623

TADA1L	4.405079285	4.569441063	0.052849719	0.102640655
TADA2B	4.883898914	4.923052542	0.011519797	0.61891971
TADA2L	3.263273152	3.351430585	0.038457299	0.062325314
TADA3L	9.419722026	9.42519293	0.000837663	0.812951695
TAF1	6.738712437	6.686271986	-0.01127092	0.263166906
TAF10	7.597517358	7.618811493	0.004037894	0.728077207
TAF11	6.503935517	6.498623563	-0.001178772	0.688057475
TAF12	7.807071536	7.802460049	-0.000852424	0.77835839
TAF13	3.11606851	2.900198838	-0.103575138	0.225223163
TAF15	8.095102272	8.237461254	0.025150467	0.064986465
TAF1A	4.65971049	4.593059725	-0.020784779	0.45541512
TAF1B	6.406225596	6.40747862	0.000282156	0.888083663
TAF1C	7.328978126	7.211050549	-0.023402603	0.13225925
TAF1D	5.662311947	5.538625549	-0.031863227	0.165354197
TAF1L	3.431940232	3.474518789	0.017788754	0.606813088
TAF2	5.195506662	5.205087859	0.002658069	0.730669351
TAF3	6.940925828	6.894272662	-0.009729755	0.366884703
TAF4	4.374698073	4.371376704	-0.001095742	0.866328926
TAF4B	2.287714709	2.268352077	-0.012262568	0.64294945
TAF5	2.499408563	2.5260085	0.015272745	0.226279795

TAF5L	3.434780583	3.540952662	0.043919616	0.288381586
TAF6	9.475670762	9.386986972	-0.013565915	0.058363345
TAF6L	2.979032358	2.924172162	-0.026815541	0.454166464
TAF7	10.35670912	10.31209444	-0.006228273	0.665851692
TAF7L	1.942950192	1.984985563	0.030879597	0.131551421
TAF8	3.783166795	3.737911211	-0.017362084	0.383977778
TAF9	7.525257053	7.617541838	0.017584655	0.112746821
TAF9B	6.141503689	6.337220338	0.045258248	0.226810045
NETO1	2.915647629	3.239381627	0.151902067	0.006540282
TAGLN	9.087997636	8.823500366	-0.042611359	0.135298762
TAGLN2	7.801672954	7.875932261	0.013667181	0.782064438
TAGLN3	5.917859371	6.174616352	0.061274087	0.338657523
TAL1	2.493086331	2.382605838	-0.06539254	0.019753264
TAL2	2.679968358	2.698009366	0.00967939	0.404653893
TALD01	9.776160358	9.746499627	-0.00438377	0.487687062
TANC1	7.661481444	7.814953479	0.028613903	0.121119288
TANC2	3.279971649	3.30943088	0.012899795	0.687549853
TANK	6.280514775	6.290117655	0.00220419	0.98183768
TAOK1	5.610061954	5.711976134	0.025973248	0.176562359
TAOK2	4.694848768	4.829457246	0.040782376	0.034071985

TAKK3	8.211174828	8.121541711	-0.015835033	0.243397425
TAP1	8.890235159	8.996223634	0.017097944	0.420787904
TAP2	2.27015202	2.254655148	-0.009882122	0.738464672
TAPBP	6.621159086	6.677809542	0.012291153	0.224959059
TAPBPL	3.890638298	3.8826065	-0.002981365	0.826897458
TAPT1	6.512750272	6.553827782	0.009070855	0.923608656
TARBP1	4.59266802	4.526044366	-0.021081776	0.290895008
TARBP2	6.120213993	6.068174972	-0.012319412	0.20481794
TARDBP	9.362872358	9.268583197	-0.014602366	0.08496749
TARP	2.44080557	2.316011415	-0.075715013	0.072216872
TARS	9.206812212	9.169921613	-0.005792319	0.994495819
TARS2	7.304929907	7.36705493	0.01221757	0.122783461
TARSL2	3.836734291	3.803555338	-0.012530261	0.561804167
TAS1R1	2.941627921	3.025271218	0.040449712	0.011194164
TAS1R2	1.93341151	1.908854007	-0.018441969	0.793210951
TAS2R1	1.870462695	1.859452873	-0.008517009	0.467586302
TAS2R10	2.439506411	2.348595401	-0.054791076	0.323218948
TAS2R13	1.961042662	1.859774197	-0.076493453	0.025866198
TAS2R14	2.817151172	2.829763852	0.00644468	0.713104518
TAS2R16	1.913191722	1.935149535	0.016463598	0.379846605

TAS2R3	1. 87408345	1. 855959183	-0. 014020213	0. 568334625
TAS2R38	1. 847647444	1. 866148366	0. 014374194	0. 774657761
TAS2R39	1. 962362993	2. 029826035	0. 048764155	0. 460848994
TAS2R4	2. 017803099	2. 017286444	-0. 000369447	0. 922512928
TAS2R40	1. 965971868	1. 895221085	-0. 052876523	0. 040140123
TAS2R41	1. 837309921	1. 879806732	0. 032989339	0. 217407293
TAS2R42	1. 893770861	1. 833260479	-0. 046849995	0. 083235465
TAS2R43	2. 07034696	2. 012512754	-0. 040874637	0. 326609498
TAS2R44	3. 649302338	3. 657379077	0. 003189485	0. 683492939
TAS2R45	1. 967921265	1. 98594543	0. 01315348	0. 754134951
TAS2R46	1. 914740834	1. 924542317	0. 007366261	0. 524749381
TAS2R48	2. 059980179	2. 095670958	0. 024781761	0. 555310244
TAS2R49	1. 83674194	1. 849585711	0. 010053214	0. 99944958
TAS2R5	2. 055102152	2. 013585866	-0. 029443112	0. 460010135
TAS2R50	2. 011737636	1. 936067641	-0. 055312809	0. 1075246
TAS2R60	2. 43501957	2. 36885181	-0. 039745417	0. 127194844
TAS2R7	1. 935691	1. 977660768	0. 030946309	0. 450431456
TAS2R8	1. 935844642	1. 927227423	-0. 006436349	0. 918679065
TAS2R9	2. 149482848	2. 078754049	-0. 048270524	0. 244794323
TASP1	5. 003623351	5. 038141444	0. 009918431	0. 56040961

TAT	2.064188265	2.040038556	-0.016978139	0.208537799
TATDN1	4.657368722	4.735785676	0.024088687	0.081772845
TATDN2	6.008233146	6.005238662	-0.000719214	0.976335373
TATDN3	4.011964728	3.88747738	-0.045474642	0.108583982
TAX1BP1	11.6256473	11.67703361	0.006362778	0.433225655
TAX1BP3	3.569245258	3.557733796	-0.004660472	0.958736889
TAZ	5.118275834	5.02627293	-0.026168887	0.106324013
TBC1D1	5.74293343	5.659500394	-0.021113137	0.692633402
TBC1D10A	8.550146437	8.679390232	0.021644561	0.183053653
TBC1D10B	9.360442066	9.374586613	0.002178408	0.8140225
TBC1D10C	5.985539629	5.839934056	-0.035529241	0.505158838
TBC1D12	3.684688609	3.645299303	-0.015505429	0.274212654
TBC1D13	9.729937881	9.649817303	-0.011928966	0.060128335
TBC1D14	7.01349898	6.957092458	-0.011649879	0.387378039
TBC1D15	7.157852967	7.174511373	0.00335367	0.681467768
TBC1D16	6.477737921	6.350945204	-0.028518777	0.111811214
TBC1D17	6.020911364	6.104787338	0.01995916	0.197283817
TBC1D19	4.900713742	4.841080246	-0.01766287	0.377604943
TBC1D2	4.857017291	4.805218472	-0.015468597	0.409337399
TBC1D20	4.823450106	4.78254212	-0.012287769	0.325250134

TBC1D21	1.938045768	1.907647239	-0.022808227	0.784184201
TBC1D22A	6.199973026	6.26677738	0.015461805	0.296285137
TBC1D22B	3.77783604	3.850951958	0.027655036	0.284328253
TBC1D23	6.138133258	6.07432569	-0.015075703	0.239517531
TBC1D24	5.168852238	5.25169857	0.022940152	0.238416678
TBC1D25	3.003097344	3.019748296	0.007977062	0.741069003
TBC1D26	2.199011735	2.28520857	0.055470543	0.265529322
TBC1D29	1.991706424	1.994812662	0.002248255	0.951043325
TBC1D2B	6.519220662	6.361300775	-0.035377707	0.194185152
TBC1D3	8.824895603	8.769985218	-0.009004801	0.634076176
TBC1D30	2.042955146	2.096871662	0.037581035	0.206795545
TBC1D3B	2.088526166	2.032821563	-0.039001634	0.316173407
TBC1D4	3.129595629	2.998839211	-0.061572089	0.189023395
TBC1D5	5.205074616	5.088137915	-0.032781069	0.003738287
TBC1D7	7.471351987	7.372506782	-0.019214087	0.144366462
TBC1D8	5.34723055	5.38048543	0.008944458	0.304982578
TBC1D8B	3.518321252	3.407167542	-0.046314327	0.228671699
TBC1D9	7.238046623	7.232657331	-0.001074599	0.91484713
TBC1D9B	8.999821881	8.999894514	1.16E-05	0.747853174
TBCA	11.48784556	11.49414996	0.000791518	0.702837821



TBCB	8.613932258	8.653002162	0.006528785	0.587665281
TBCC	6.779878371	6.835204113	0.011725028	0.738985191
TBCCD1	3.904673788	3.881411606	-0.008620593	0.895173105
TBCD	8.589843298	8.583810979	-0.001013506	0.709505701
TBCE	8.326169159	8.324502606	-0.000288797	0.915394252
TBCEL	4.770277159	4.702663683	-0.020594931	0.234592717
TBK1	5.800310987	5.762707035	-0.009383575	0.242006472
TBKBP1	4.53967753	4.648779831	0.034262279	0.023231416
TBL1X	5.95197502	6.037178514	0.020505989	0.438515751
TBL1XR1	7.046892934	7.037066521	-0.002013144	0.634076378
TBL1Y	6.97330057	6.978742676	0.00112547	0.74994601
TBL2	8.312488675	8.271183754	-0.007186651	0.379845809
TBL3	2.900737013	2.940574246	0.019678414	0.625256802
TBP	5.189529848	5.151003077	-0.01075044	0.074319336
TBPL1	6.666902232	6.603785556	-0.013723298	0.599600014
TBR1	1.979974477	1.898890408	-0.060325188	0.11784345
TBRG1	5.200205126	5.020497254	-0.05073827	0.025591638
TBRG4	6.342642781	6.319207782	-0.005340388	0.518920459
TBX1	3.921831861	3.885358169	-0.013480086	0.718255435
TBX10	2.183108119	2.197804331	0.009679368	0.938962973

TBX15	3.558578199	3.402834852	-0.064563804	0.241729526
TBX18	3.57043243	3.316411965	-0.106475586	0.045439386
TBX19	3.244519159	3.070897049	-0.079344538	0.018174406
TBX2	10.13189203	10.1330918	0.000170827	0.828509484
TBX20	1.873204583	1.881534507	0.006401276	0.540149579
TBX21	3.691328854	3.517046866	-0.069775711	0.134579763
TBX22	1.917079781	1.872452535	-0.033981229	0.139129996
TBX3	3.017923675	2.976191472	-0.020088975	0.224432785
TBX4	1.967554007	2.005071134	0.027250184	0.436886963
TBX5	2.045017291	2.057217627	0.008581378	0.636536337
TBX6	2.295773874	2.221289493	-0.047583122	0.14877951
TBXA2R	4.16313904	3.974216796	-0.067001168	0.14916832
TBXAS1	4.465225377	4.42201281	-0.014029791	0.594813103
TC2N	3.724508278	3.74759719	0.008915925	0.706427798
TCAM1	2.636924709	2.790516908	0.081676009	0.028654842
TCAP	5.35484702	5.176681303	-0.048817857	0.032139375
TCEA1	7.810725768	7.824151035	0.002477611	0.719286877
TCEA2	6.821217119	6.881317965	0.012655724	0.318845675
TCEA3	5.635971225	5.606042387	-0.007681593	0.792147797
TCEAL1	7.249896715	7.228028366	-0.004358274	0.754134724

TCEAL2	9.078692636	9.178856317	0.015829846	0.360689447
TCEAL3	10.32593423	10.43225156	0.014778251	0.041497964
TCEAL4	11.17925246	11.23355454	0.006990779	0.338999036
TCEAL5	9.46667345	9.618064866	0.022889098	0.06022342
TCEAL6	10.12342972	10.23546713	0.015878801	0.044115577
TCEAL7	4.981095967	4.970818	-0.002979925	0.93402488
TCEAL8	9.450951046	9.388588437	-0.009551248	0.076241712
TCEB1	9.62954855	9.628808148	-0.000110931	0.901177664
TCEB1P3	3.509998146	3.584680993	0.030374468	0.314179182
TCEB2	10.26176908	10.28076263	0.002667823	0.896263337
TCEB3	5.64666943	5.616425521	-0.007747931	0.243676839
TCEB3B	2.087777868	2.006031345	-0.057624073	0.194185152
TCEB3C	2.006098437	2.069115542	0.04462181	0.289008435
TCERG1	4.244110934	4.289850486	0.015465	0.470126723
TCERG1L	5.123534887	5.398879789	0.07552058	0.20878752
TCF12	6.019873768	5.980850796	-0.009382508	0.389654953
TCF15	6.051845172	5.963369042	-0.021247458	0.610675605
TCF19	2.283500517	2.259741725	-0.015089225	0.763586428
TCF20	5.447067861	5.295387746	-0.040743514	0.274212883
TCF21	2.082719881	2.051893077	-0.021513259	0.732226388

TCF23	2.111175391	2.147494563	0.02460804	0.414053004
TCF25	8.62517996	8.699293232	0.012343637	0.168529486
TCF3	7.666597636	7.629294521	-0.007036808	0.393850243
TCF4	9.502462881	9.49385688	-0.001307183	0.964784278
TCF7	4.295986397	4.331601655	0.01191115	0.500760565
TCF7L1	5.457046464	5.191926718	-0.071850307	0.21689343
TCF7L2	2.483039079	2.472732627	-0.006000716	0.633585557
TCFL5	6.997223113	6.968157697	-0.00600522	0.848456239
TCHH	2.511575377	2.495262796	-0.009400809	0.591949335
TCHP	3.938118815	3.818879401	-0.044357278	0.055842251
TCIRG1	7.924589921	7.641932599	-0.052398748	0.126508077
TCL1A	3.298704808	3.131565739	-0.075015516	0.185104411
TCL1B	2.425151894	2.32230531	-0.062517457	0.10843215
TCL6	2.569610205	2.63305588	0.035188612	0.050823585
TCN1	2.157356868	2.126248007	-0.020954962	0.956538297
TCN2	4.722121616	4.788688056	0.020195261	0.344610852
TCOF1	8.46123649	8.43648193	-0.004226998	0.588140277
TCP1	8.265847013	8.212096915	-0.009412009	0.605366669
TCP10	2.300429232	2.305851979	0.003396829	0.973584644
TCP10L	5.250160695	5.251385218	0.000336448	0.885359438

TCP11	1.968080954	1.979658275	0.008461851	0.83281382
TCP11L1	4.014848775	3.863730627	-0.055351132	0.00810552
TCP11L2	2.592379238	2.544695796	-0.026783585	0.542890814
TCTA	4.940913444	4.975260275	0.009994218	0.390415956
TCTE1	2.441201815	2.366379282	-0.044910241	0.1222825
TCTE3	2.852770364	2.822181169	-0.015553017	0.552999841
TCTEX1D1	2.447986199	2.387044704	-0.036369839	0.21003959
TCTEX1D2	7.079871907	7.182405261	0.020743799	0.401162331
TCTN1	6.438436126	6.385188866	-0.011981011	0.288067902
TCTN2	2.825706331	2.94004138	0.057224923	0.049449907
TCTN3	8.190069781	8.227724275	0.006617703	0.468008389
TDG	7.277661437	7.275098641	-0.000508128	0.591472479
TDGF1	2.20028653	2.126844331	-0.048976967	0.074656068
TDGF3	1.853678424	1.856188458	0.001952207	0.915394393
TDH	3.15547304	3.193975535	0.017496965	0.700795957
TD02	3.272767033	3.03918281	-0.106827453	0.1236226
TDP1	5.565426874	5.499716599	-0.01713507	0.370559827
TDRD1	1.981118093	1.999969972	0.013663459	0.943903392
DEFB119	5.451909901	6.061350099	0.152877454	0.015171007
TDRD12	2.422146728	2.46605719	0.025919994	0.111345735

TDRD3	3.007147556	2.985680077	-0.010336075	0.984038869
TDRD5	2.014389483	1.928743155	-0.06268162	0.032417417
TDRD6	1.960431437	2.002815768	0.030858532	0.339354143
TDRD7	9.132669735	9.179279246	0.007344216	0.617946992
TDRD9	6.387748086	6.421849218	0.007681373	0.704378052
TDRG1	4.586352801	4.666486254	0.024989308	0.827972551
TDRKH	3.260030278	3.352357528	0.040290657	0.212559469
TEAD1	6.922035954	6.7797865	-0.029956592	0.06528841
TEAD2	2.523474947	2.517750852	-0.003276238	0.792679507
TEAD3	5.298558033	5.258006859	-0.011083769	0.497256828
TEAD4	4.976201821	4.863123599	-0.03316174	0.44506779
TEC	2.353711649	2.378198613	0.014931617	0.522952571
TECTA	2.075594477	2.131450282	0.038310801	0.140054258
TECTB	2.253635099	2.287448486	0.021485315	0.802799593
TEDDM1	1.969033815	1.908943782	-0.044713271	0.081651743
TEF	5.002882377	5.184773373	0.051521397	0.098215054
RGS7	2.898695907	3.228542415	0.155478988	0.006002003
TEKT1	1.894513245	1.894912704	0.000304161	0.452504435
CTNNA2	3.598031788	4.01867819	0.15951312	0.010178953
TEKT3	2.079596609	2.068010944	-0.008059888	0.648892426

TEKT4	3.539397291	3.602195817	0.025372898	0.610192343
TEKT5	2.601938709	2.618173261	0.008973594	0.923608628
TELO2	6.974497755	6.99355212	0.003936076	0.84413493
TENC1	6.995717695	6.929206056	-0.013782013	0.990643063
TEP1	4.483503801	4.282445972	-0.066191576	0.055138585
TEPP	2.807852781	2.874908528	0.034048758	0.430808655
TERF1	7.190331742	7.194158528	0.000767616	0.7059143
TERF2	4.026245046	4.179183944	0.053786279	0.027616583
TERF2IP	10.35463503	10.40490938	0.006987697	0.966434069
TERT	2.674267146	2.695471662	0.011394152	0.428391268
TES	6.321808185	6.264627141	-0.013108617	0.234864025
TESC	7.737068397	7.737169331	1.88E-05	0.848996773
TESK1	9.06817149	9.075291063	0.00113224	0.953790432
TESK2	3.715398974	3.651448148	-0.025048397	0.339005776
TESSP2	1.970726914	1.947797437	-0.016884224	0.544721841
TET1	2.56618851	2.597501908	0.017497656	0.487256668
TET2	4.466608245	4.4695195	0.000940016	0.64889266
TET3	2.066899126	2.109594239	0.029497556	0.136567257
TEX10	7.548044099	7.560924542	0.002459805	0.841975738
TEX101	2.174074113	2.088585831	-0.057874689	0.079855013

TEX11	1.852667073	1.908047303	0.042493288	0.038689016
TEX12	1.934594702	1.938280148	0.002745752	0.915941736
TEX13A	1.950800238	1.951698289	0.000663991	0.992844629
TEX13B	2.198474629	2.112081514	-0.057837368	0.198244215
TEX14	2.356899841	2.225599718	-0.082696309	0.023653792
TEX15	1.910536748	1.911373254	0.000631528	0.405432132
TEX2	8.249681238	8.255554592	0.00102676	0.921417291
TEX261	5.778803152	5.783488218	0.001169166	0.95873684
TEX264	5.443593258	5.584407838	0.036845034	0.060886051
TEX28	1.919050801	1.94209543	0.01722119	0.70233025
TF	10.37723187	10.8984895	0.07070654	0.035131438
TFAM	5.133364887	5.021566014	-0.031767463	0.016801578
TFAP2A	4.388076444	4.179925134	-0.070111556	0.003889083
TFAP2B	4.755675066	5.109475458	0.103525045	0.092063196
TFAP2C	2.817964139	2.947723944	0.064948169	0.066812857
TFAP2D	2.368327185	2.394376415	0.01578157	0.573021489
PROX1	3.689320722	4.124343148	0.160809159	0.009510284
TFAP4	1.947452563	1.959842218	0.009149325	0.66334809
TFB1M	5.917804934	6.000517148	0.020024701	0.21973137
TFB2M	6.370657007	6.390892592	0.004575275	0.654858552



TFCP2	4.877680987	4.825987521	-0.01537122	0.367617974
TFCP2L1	3.12089057	3.10616893	-0.006821479	0.988441577
TFDP1	3.200441629	3.17822512	-0.010049679	0.568802472
TFDP2	2.578444656	2.552892204	-0.014368458	0.518027261
TFDP3	2.017251874	1.973691613	-0.031494642	0.224432619
TFE3	5.650418053	5.626383113	-0.006149819	0.849537343
TFEB	6.827383437	6.87935107	0.010939704	0.699773591
TFEC	2.638991073	2.58226143	-0.031351403	0.423580189
TFF1	2.46320049	2.502185915	0.022654928	0.157103033
TFF2	2.213212702	2.217875493	0.003036269	0.668362285
TFF3	4.544760298	4.524034366	-0.006594316	0.721868536
TFG	7.329856722	7.321573549	-0.001631253	0.848456043
TFIP11	5.912017656	5.858659965	-0.013079859	0.580085583
TFPI	6.248975464	6.273452423	0.005639934	0.4591732
TFPI2	6.508205411	6.909163099	0.086251183	0.048735278
TFPT	7.845043881	7.814497585	-0.005628395	0.154289887
TFR2	2.653564119	2.716035556	0.033570957	0.228938511
TFRC	7.163020815	7.214981	0.010427461	0.683493153
TG	3.380263894	3.321486507	-0.025306827	0.304332629
TGDS	5.997716881	5.902683746	-0.023042375	0.105430567

TGFA	2.257530377	2.246715486	-0.006927961	0.970284153
TGFB1	3.807902152	3.637198901	-0.066168585	0.116713575
KCNA4	3.62891543	4.056955408	0.160859009	0.014998731
CST6	2.937369589	3.284996535	0.161367047	0.000174403
TGFB3	3.885367881	3.601899113	-0.109293432	0.03980642
TGFB1	8.039568245	7.831204908	-0.037883728	0.297883067
TGFBR1	2.343003987	2.308727063	-0.021261781	0.895718781
TGFBR2	7.330882861	6.951083268	-0.076749126	0.206299998
TGFBR3	4.442230874	4.340243732	-0.033508314	0.610192386
TGFBRAP1	6.333901722	6.321265627	-0.002881043	0.93621928
TGIF1	4.235699993	3.968412261	-0.094038501	0.086985664
TGIF2	2.513704993	2.521191521	0.00429037	0.763060404
TGIF2LY	1.881402894	1.859113958	-0.017193623	0.414841773
TGM1	3.709808808	3.666460761	-0.016956737	0.569738763
TGM2	6.417587589	6.076709042	-0.078740865	0.186941219
TGM3	1.996704788	1.951129655	-0.033311397	0.370191426
TGM4	1.883060397	1.882803007	-0.000197211	0.75203961
TGM5	1.930069099	1.962935169	0.024360026	0.534688539
TGM7	2.12725747	2.061516085	-0.045288941	0.161395157
TGOLN2	8.874708113	8.805145373	-0.011352847	0.124295925

<b>TGS1</b>	4.112691523	4.19901331	0.029967496	0.36505632
<b>TH</b>	2.791279318	2.780829718	-0.005411094	0.337961132
<b>TH1L</b>	6.590684212	6.61645643	0.005630514	0.837661639
<b>THADA</b>	5.22640049	5.206119796	-0.005609171	0.601999625
<b>THAP1</b>	6.223709662	6.111179972	-0.026323791	0.098355319
<b>THAP10</b>	5.328110536	5.476369965	0.039595901	0.337266063
<b>THAP11</b>	5.16765455	5.194264627	0.007409884	0.624280105
<b>THAP2</b>	3.34466149	3.232848648	-0.049054238	0.164095836
<b>THAP3</b>	6.189662861	6.126973218	-0.014686286	0.134399838
<b>THAP4</b>	8.639602901	8.669032599	0.004906004	0.332079977
<b>THAP5</b>	2.499870411	2.567303528	0.038400564	0.113847106
<b>THAP6</b>	4.943303609	4.908496662	-0.010194283	0.315507744
<b>THAP7</b>	4.461818609	4.503561556	0.013434517	0.400388736
<b>THAP8</b>	6.709808556	6.786383359	0.016371325	0.394999886
<b>THAP9</b>	2.091070517	2.015986894	-0.052755454	0.605367271
<b>THBD</b>	7.274459709	6.836994085	-0.089477923	0.219990685
<b>THBS1</b>	5.464897026	5.185625035	-0.075676421	0.281853241
<b>THBS2</b>	3.64762049	3.689072042	0.016302328	0.947747479
<b>THBS3</b>	5.234469212	5.091075507	-0.040072789	0.054528854
<b>THBS4</b>	7.774588152	8.013957683	0.043748639	0.089170388

<b>THEG</b>	2.149578709	2.152283387	0.001814111	0.781005099
<b>THEM2</b>	7.864412788	7.904911754	0.007410309	0.473525797
<b>THEM4</b>	4.834933589	4.878798317	0.013029772	0.527901515
<b>THEM5</b>	6.852225119	6.921816444	0.014578134	0.129620496
<b>THG1L</b>	4.642669119	4.617252127	-0.007919951	0.552538289
<b>THNSL1</b>	2.557316298	2.560979542	0.002065119	0.547015207
<b>THNSL2</b>	6.843093126	6.824811183	-0.003859448	0.741590238
<b>THOC1</b>	2.782813444	2.75079493	-0.016695604	0.40387638
<b>THOC2</b>	6.486560258	6.517456556	0.006855423	0.769906893
<b>THOC3</b>	7.183629709	7.249586415	0.013185707	0.274515519
<b>THOC4</b>	6.63326602	6.603247408	-0.006543683	0.353844459
<b>THOC5</b>	4.351015159	4.320067704	-0.010298121	0.658348967
<b>THOC6</b>	2.69606096	2.665691831	-0.016343111	0.589092046
<b>THOC7</b>	8.461873715	8.503780556	0.007127213	0.329337776
<b>THOP1</b>	10.07504792	10.14948573	0.010619928	0.325586297
<b>THPO</b>	2.101562258	2.089723937	-0.008149829	0.611643149
<b>THRA</b>	9.769920265	9.823604211	0.007905648	0.354560012
<b>THRAP3</b>	7.896579311	7.856476254	-0.007345446	0.304331418
<b>THRB</b>	3.080318258	3.081259169	0.000440617	0.700284706
<b>THRSP</b>	4.024613629	4.261880211	0.082639756	0.15191006

THSD1	8.153691543	8.024367239	-0.023065747	0.030885798
THSD4	4.853571272	4.464563873	-0.120527426	0.036844324
THSD7A	5.211064265	5.239819592	0.007939093	0.844674887
THSD7B	3.184911689	3.212396275	0.012396502	0.834967732
THTPA	6.321590139	6.388194021	0.01512063	0.434855137
THUMPD1	5.276886788	5.291542303	0.004001248	0.694160881
THUMPD2	4.283058311	4.219762577	-0.02147949	0.221811929
THUMPD3	5.650916391	5.766528894	0.02921832	0.081289818
THY1	9.75471751	9.743822648	-0.00161222	0.947198164
THYN1	7.734473609	7.747356444	0.002401009	0.464210232
TIA1	5.704440974	5.688271155	-0.004095273	0.867414361
TIAL1	5.823579728	5.764037303	-0.014826572	0.439740081
TIAM1	4.193042272	4.247337986	0.018561542	0.25559151
TIAM2	7.260380351	7.426669394	0.032670228	0.078792304
TICAM1	6.837454874	6.744489021	-0.019750261	0.318845445
TICAM2	3.821098245	3.766343824	-0.020822644	0.303035436
TIE1	3.861143225	3.610612324	-0.096784546	0.058917501
TIFA	4.967257517	5.069689169	0.029447754	0.308246824
TIGD1	3.731025106	3.79285193	0.023710983	0.365056091
TIGD2	6.204261291	6.221092092	0.003908416	0.786305544

<b>TIGD3</b>	3.370540298	3.476704634	0.044740633	0.468009291
<b>TIGD4</b>	2.937116503	2.950258437	0.006440845	0.844134948
<b>TIGD5</b>	6.299338278	6.33624362	0.008427519	0.375742983
<b>TIGD6</b>	4.094723437	4.186449599	0.031961243	0.064986721
<b>TIGD7</b>	3.195307788	3.231656634	0.016319013	0.623304151
<b>TIGIT</b>	2.727517993	2.598799359	-0.069743459	0.216124083
<b>TIMD4</b>	2.505492159	2.439157373	-0.03871118	0.743154655
<b>TIMELESS</b>	6.975402298	7.157655458	0.037210675	0.059567597
<b>TIMM10</b>	7.69758302	7.730444718	0.00614589	0.697220295
<b>TIMM13</b>	10.65048603	10.58840703	-0.008433709	0.066400664
<b>TIMM17A</b>	9.636643576	9.714001056	0.011534897	0.129793892
<b>TIMM17B</b>	4.758653914	4.818731141	0.018099774	0.348143912
<b>TIMM22</b>	5.426408656	5.499459549	0.019292148	0.193003053
<b>TIMM23</b>	6.955554325	7.015236972	0.012326343	0.259651621
<b>TIMM44</b>	6.141085344	6.109587831	-0.007418597	0.652370018
<b>TIMM50</b>	7.389789159	7.409178303	0.00378035	0.84197585
<b>TIMM8A</b>	4.452642656	4.510759007	0.018708377	0.400388792
<b>TIMM8B</b>	10.62168222	10.63560671	0.001890062	0.338997768
<b>TIMM9</b>	8.416585245	8.447090225	0.005219435	0.377977038
<b>TIMP1</b>	9.212162762	9.131631275	-0.012667295	0.894081728

TIMP2	8.192286576	8.003200775	-0.033689081	0.358157767
TIMP3	10.70550149	10.69492578	-0.001425908	0.546554162
TIMP4	5.740705464	5.643307268	-0.024687134	0.572082541
TINAG	1.991061219	1.981259458	-0.007119758	0.750469231
TINAGL1	3.443610755	3.233498838	-0.090825986	0.047640759
TINF2	9.070948033	9.101998282	0.004929975	0.479933703
TINP1	8.01188751	7.93582862	-0.013761295	0.437700456
TIPARP	7.888745344	7.753923338	-0.024869395	0.191591513
TIPIN	6.149562483	6.315518197	0.038417342	0.003966505
TIPRL	6.948079252	6.984981408	0.007642066	0.391940328
TIRAP	3.322280795	3.296843915	-0.011088427	0.424779806
TJAP1	5.505257808	5.408179556	-0.025667075	0.116874344
TJP1	7.271477172	7.146150669	-0.02508214	0.15171257
TJP2	8.373117073	8.412819592	0.00682461	0.944452426
TJP3	2.285538854	2.273166746	-0.007830829	0.830123461
TK1	5.68264543	5.471713085	-0.054570118	0.162015399
TK2	4.867486801	4.83692681	-0.009086359	0.681468055
TKT	10.7604721	10.72806023	-0.004352133	0.838198457
TKTL1	5.757762722	5.863938901	0.026361735	0.336225271
TKTL2	1.98832051	1.908181486	-0.059351941	0.153295116

FAM181A	3.347351523	3.745261627	0.162046438	0.002966553
TLE1	7.804071325	7.709602711	-0.017570446	0.325929154
TLE2	8.587365371	8.417588169	-0.028808649	0.053838888
TLE3	4.59590306	4.532869317	-0.019923799	0.159544842
TLE4	6.196558199	6.232941486	0.008446058	0.545638432
TLE6	4.246139026	4.265575782	0.006588886	0.624768474
TLK1	3.082226291	3.061285148	-0.009835353	0.850078
TLK2	5.225660338	5.223968183	-0.000467244	0.625256761
TLL1	2.17993255	2.143128451	-0.024565174	0.632112326
TLL2	2.653167848	2.627767366	-0.013878387	0.555310197
TLN1	4.291703172	4.172233063	-0.040730548	0.156901033
TLN2	5.723714894	5.63468907	-0.022615808	0.362141723
TLR1	4.520508722	4.54841743	0.008879526	0.92689669
TLR10	1.918878013	1.909320676	-0.007203572	0.794807089
TLR2	6.01329149	5.968903331	-0.010689005	0.721352192
TLR3	3.523627305	3.511160106	-0.005113555	0.90773597
TLR4	5.215892636	5.22599343	0.002791137	0.885359411
TLR5	3.740246291	3.538562965	-0.079969683	0.064487076
TLR6	2.845456464	2.771719458	-0.037878865	0.446714233
TLR7	3.026032656	2.985452303	-0.019478037	0.895173143



TLR8	2.312593066	2.189428965	-0.078956783	0.193239006
TLR9	2.235081854	2.19646112	-0.025146705	0.590996287
TLX1	2.067987132	1.988477683	-0.056562838	0.357436947
TLX2	5.581828232	5.543621986	-0.009908845	0.669869546
TLX3	1.978259715	1.984728803	0.004710046	0.695690228
TM2D1	9.081029245	9.121615366	0.006433515	0.282778411
TM2D2	6.658509954	6.642665486	-0.003437102	0.679445066
TM2D3	8.152199523	8.168862732	0.002945879	0.701306868
TM4SF1	6.23706894	5.970451451	-0.063028182	0.19489715
TM4SF18	4.594274642	4.49956681	-0.030050988	0.839279002
TM4SF19	2.000952974	2.017590035	0.011945794	0.495509998
TM4SF20	1.911516921	1.891292944	-0.01534513	0.780475569
TM4SF4	2.166211311	2.16837993	0.001443576	0.925800499
TM4SF5	2.022099113	2.034895232	0.009100806	0.997798321
TM6SF1	3.387081146	3.209130232	-0.077860212	0.006918092
TM6SF2	2.306455232	2.278807789	-0.017398048	0.603923171
TM7SF2	8.306550689	8.560780127	0.043492753	0.000476905
TM7SF3	7.08467606	7.090289211	0.001142587	0.731706925
TM7SF4	1.935769146	1.919238824	-0.012372664	0.470550875
TM9SF1	6.551890033	6.577141711	0.005549612	0.766744719

TM9SF2	7.917953821	7.886539324	-0.00573528	0.227074421
TM9SF3	6.706295616	6.668264901	-0.008204662	0.415236796
TM9SF4	7.392816371	7.359589458	-0.006498789	0.376114397
TMBIM1	6.426629093	6.523558789	0.021597	0.485528498
TMBIM4	7.631337464	7.645822176	0.002735722	0.935122049
TMBIM6	11.14403032	11.15222539	0.001060537	0.829582321
TMC1	1.910553841	1.886975648	-0.01791511	0.85819592
TMC2	1.983523914	1.958452444	-0.018351695	0.151515715
TMC3	1.909017013	1.835691387	-0.056506424	0.327971968
TMC4	2.856823397	2.758615127	-0.050467664	0.04261455
TMC5	2.280100079	2.172864796	-0.069498742	0.05664314
TMC6	4.771660609	4.647220908	-0.038123207	0.497694189
TMC7	2.214770629	2.175587697	-0.025752122	0.303683543
TMC8	4.45054506	4.228078556	-0.073979852	0.03252933
TMCC1	5.650575119	5.69943443	0.01242105	0.682480247
TMCC2	7.536890411	7.610097887	0.013945596	0.40077545
TMCC3	3.957224298	3.84863288	-0.040142781	0.448364407
TMC01	7.47032545	7.505456183	0.006768665	0.356355828
TMC02	2.170759748	2.121761099	-0.032937839	0.383601033
TMC03	7.877086927	7.850980944	-0.004789273	0.436886252

TMC04	5.382356331	5.315463458	-0.018042419	0.980186904
TMC05A	1.936296311	1.986342866	0.036814926	0.355637583
TMC06	4.580728358	4.583919606	0.00100473	0.762008603
TMC07	3.786389722	3.851799366	0.024709647	0.447951526
TMED1	5.264088424	5.292167979	0.007675132	0.396919647
TMED10	8.596674033	8.620046866	0.00391711	0.615033104
TMED10P	4.187155974	4.266480732	0.027075873	0.14005421
TMED2	5.921161291	5.846560817	-0.01829193	0.142855297
TMED3	8.197018371	8.22044719	0.004117647	0.632111797
TMED4	6.331072219	6.399331958	0.015471454	0.43526112
TMED5	6.645890616	6.54079062	-0.022997516	0.137295803
TMED6	2.064804225	2.086259542	0.01491365	0.510020115
TMED7	5.003107497	4.981391345	-0.006275695	0.871758814
TMED8	8.317423073	8.356052063	0.006684864	0.579612821
TMED9	6.211160291	6.60641507	0.089004815	0.016738673
TMEFF1	2.482287046	2.564270669	0.046878597	0.117843713
TMEFF2	5.734884543	5.51077793	-0.05750845	0.014575494
CPA6	2.457132987	2.755862761	0.165528103	0.00169233
TMEM101	6.325041371	6.278086296	-0.010750057	0.306611564
TMEM102	3.305071099	3.417770331	0.048374146	0.125654233

<b>TMEM104</b>	6.585172556	6.686547394	0.022040221	0.116071626
<b>TMEM105</b>	2.541169656	2.575423768	0.01931714	0.359242261
<b>TMEM106A</b>	2.318566947	2.27611969	-0.02665696	0.405432244
<b>TMEM106B</b>	7.047328788	7.100509739	0.010846075	0.312193305
<b>TMEM106C</b>	9.438496338	9.494145394	0.008481104	0.541518921
<b>TMEM107</b>	7.436301709	7.545683282	0.021066241	0.527450564
<b>TMEM108</b>	5.564163788	5.722753993	0.040544702	0.334494813
<b>TMEM109</b>	7.656663974	7.566168113	-0.017153111	0.490288253
<b>TMEM11</b>	8.591623828	8.607638162	0.002686604	0.575841616
<b>TMEM110</b>	2.456131119	2.544404359	0.050940383	0.049210799
<b>TMEM111</b>	9.667454358	9.628359613	-0.005846022	0.269992864
<b>TMEM114</b>	3.484714404	3.489888246	0.002140417	0.768325471
<b>TMEM115</b>	3.898816901	3.896985993	-0.000677657	0.930734242
<b>TMEM116</b>	4.804446675	4.758575246	-0.013840602	0.41999243
<b>TMEM117</b>	5.849341536	5.794693042	-0.013541988	0.281236707
<b>TMEM119</b>	2.195867974	2.20918538	0.00872317	0.924156551
<b>TMEM120A</b>	7.210385033	7.174220106	-0.007254293	0.881003289
<b>TMEM120B</b>	5.401916517	5.406756408	0.001292016	0.84791592
<b>TMEM121</b>	8.365563119	8.407696042	0.007247856	0.712589583
<b>TMEM123</b>	6.699889596	6.587244479	-0.024462227	0.99614707

<b>TMEM125</b>	3.881161834	4.092709014	0.076567506	0.380970781
<b>TMEM126A</b>	8.400907914	8.368572183	-0.005563757	0.499444192
<b>TMEM126B</b>	7.367749556	7.36887012	0.000219403	0.929637635
<b>TMEM127</b>	7.979217338	8.06913093	0.016166056	0.138394048
<b>TMEM128</b>	6.194631026	6.212588951	0.00417625	0.800666218
<b>TMEM129</b>	7.838060119	7.927057669	0.016288833	0.042053589
<b>TMEM130</b>	9.226538563	9.308209197	0.012714128	0.543347839
<b>TMEM131</b>	5.796722788	5.767822296	-0.007210778	0.312854651
<b>TMEM132A</b>	10.73294707	10.94256523	0.027904716	0.008862695
<b>TMEM132B</b>	2.654441656	2.662271063	0.004249038	0.97523505
<b>TMEM132C</b>	4.738880285	4.71088412	-0.008548371	0.746809107
<b>TMEM132D</b>	2.024183093	2.083343507	0.041560943	0.173054926
<b>TMEM133</b>	5.76728349	5.711498859	-0.01402254	0.421584596
<b>TMEM134</b>	7.322910245	7.394012683	0.013940405	0.231618605
<b>TMEM135</b>	3.367228477	3.482610577	0.048607545	0.036042007
<b>TMEM136</b>	7.93026443	7.964678063	0.006247076	0.566932143
<b>TMEM138</b>	6.532271066	6.567491134	0.007757689	0.740026978
<b>TMEM139</b>	3.146451331	3.259846648	0.05107847	0.058825091
<b>TMEM140</b>	4.602362881	4.326302514	-0.089240191	0.054442268
<b>TMEM141</b>	9.028501444	9.054273662	0.004112364	0.791615748

<b>TMEM143</b>	6.841620662	6.865479937	0.005022461	0.833352231
<b>TMEM144</b>	2.076254993	2.049216613	-0.018911145	0.56133919
<b>TMEM145</b>	8.143094444	8.297329042	0.027069865	0.489420881
<b>TMEM146</b>	1.952975947	1.901645641	-0.038425746	0.182827205
<b>TMEM147</b>	9.586295318	9.598269577	0.001800949	0.88590368
<b>TMEM149</b>	8.103056152	8.115327232	0.002183131	0.859821301
<b>TMEM14A</b>	7.680249437	7.772195359	0.017168997	0.347081182
<b>TMEM14B</b>	8.603233219	8.75844969	0.025796578	0.154289838
<b>TMEM14C</b>	9.827246914	9.82158793	-0.00083101	0.591470356
<b>TMEM14E</b>	1.896254152	1.825072338	-0.055198692	0.231618326
<b>TMEM150</b>	6.365576556	6.276388106	-0.020356626	0.550694209
<b>TMEM151A</b>	5.378028258	5.591154852	0.056068967	0.01005801
<b>TMEM154</b>	2.745146338	2.65747719	-0.046825749	0.936767994
<b>TMEM155</b>	2.179141755	2.207994669	0.018976641	0.992844631
<b>TMEM156</b>	1.96740804	1.965038014	-0.001738981	0.744198072
<b>TMEM158</b>	11.12946363	11.10280034	-0.003460468	0.403482603
<b>TMEM159</b>	6.365306411	6.295122486	-0.015995515	0.258777961
<b>TMEM160</b>	8.09418696	8.241359732	0.025996213	0.009339883
<b>TMEM161A</b>	4.981853801	4.972131704	-0.002818173	0.732226296
<b>TMEM161B</b>	6.425026781	6.505314289	0.017916291	0.526099086

<b>TMEM163</b>	3.194488172	3.336815894	0.062887291	0.333804459
<b>TMEM165</b>	6.334990762	6.261201106	-0.016903075	0.104101538
<b>TMEM167A</b>	5.655522543	5.516088465	-0.036014734	0.009644628
<b>TMEM167B</b>	5.719296073	5.698218134	-0.005326741	0.731188354
<b>TMEM168</b>	4.148337682	4.231652923	0.028687966	0.350274646
<b>TMEM169</b>	2.631453709	2.772661845	0.07541166	0.018931928
<b>TMEM17</b>	4.608944073	4.716912542	0.03340659	0.15014303
<b>TMEM170A</b>	7.124450848	7.065476676	-0.01199192	0.239517251
<b>TMEM170B</b>	6.665583834	6.794197958	0.027572008	0.423180463
<b>TMEM171</b>	2.462818192	2.564646697	0.058449965	0.096128889
<b>TMEM173</b>	8.06900402	7.833417901	-0.042748682	0.2988441
<b>TMEM174</b>	2.206051278	2.181110211	-0.016403655	0.673391282
<b>TMEM175</b>	9.868070695	9.870715077	0.000386552	0.907188572
<b>TMEM176A</b>	8.076630417	8.096507718	0.003546238	0.844674759
<b>TMEM176B</b>	7.688162391	7.69819231	0.001880903	0.75990665
<b>TMEM177</b>	6.296820907	6.523035437	0.050919831	0.079617862
<b>TMEM178</b>	4.548262801	4.362533585	-0.060149379	0.011966801
<b>OXTR</b>	3.866153543	4.341716387	0.167366553	0.004470937
<b>TMEM179B</b>	4.700501907	4.649297915	-0.015801939	0.601519885
<b>TMEM18</b>	7.335529212	7.369425155	0.006651037	0.603923128

<b>TMEM180</b>	5.965929046	5.997535993	0.007623091	0.531515742
<b>TMEM181</b>	6.090072285	6.045043289	-0.010706681	0.287442545
<b>TMEM182</b>	2.387462993	2.347661592	-0.024253908	0.462108348
<b>TMEM183B</b>	6.232999291	6.168642908	-0.014973415	0.23081218
<b>TMEM184A</b>	2.341804318	2.349859148	0.004953755	0.971384276
<b>TMEM184B</b>	10.7453353	10.83374057	0.011820947	0.117353586
<b>TMEM184C</b>	5.799550397	5.737403577	-0.015543059	0.06743065
<b>TMEM185A</b>	7.248086993	7.205144923	-0.008572822	0.274818382
<b>TMEM185B</b>	3.516373927	3.577815437	0.024990474	0.266122057
<b>TMEM186</b>	6.406174947	6.38353888	-0.005106756	0.509576767
<b>TMEM187</b>	6.646022629	6.560854106	-0.018607565	0.036657752
<b>TMEM188</b>	5.691842305	5.582677521	-0.027938469	0.004904991
<b>TMEM19</b>	3.997372987	4.084379056	0.03106457	0.035737357
<b>TMEM190</b>	2.394659013	2.455216831	0.036030202	0.302388421
<b>TMEM191A</b>	7.81955951	8.015724021	0.035745498	0.130846669
<b>TMEM191B</b>	7.870029192	7.855842556	-0.002602971	0.741068943
<b>TMEM192</b>	4.947348609	5.026699718	0.022955948	0.314843349
<b>TMEM194A</b>	3.575562126	3.605343824	0.011966778	0.861447407
<b>TMEM195</b>	1.987868603	2.004573514	0.012072928	0.507807312
<b>TMEM196</b>	2.827169225	3.028428387	0.099211056	0.091002794



<b>TMEM198</b>	4.808011298	4.998048697	0.055924672	0.027181706
<b>TMEM199</b>	6.378389086	6.331538507	-0.010636001	0.340750774
<b>TMEM2</b>	6.651165311	6.796879577	0.031265434	0.084346671
<b>TMEM20</b>	2.404155788	2.448943662	0.0266292	0.487256668
<b>TMEM200A</b>	5.408878649	5.567619986	0.041731214	0.315840923
<b>TMEM200B</b>	2.406783159	2.373382535	-0.020161518	0.421186417
<b>TMEM201</b>	6.825941311	6.835946817	0.002113163	0.733784312
<b>TMEM202</b>	1.993034424	1.984331359	-0.00631367	0.920869589
<b>TMEM203</b>	8.066952762	8.058308345	-0.001546798	0.946648942
<b>TMEM204</b>	8.774042728	8.201997218	-0.097266478	0.025319045
<b>TMEM205</b>	10.89102942	10.92498844	0.00449143	0.686025424
<b>TMEM206</b>	4.285716026	4.465032887	0.059134542	0.05074203
<b>TMEM208</b>	10.15128774	10.21996457	0.009727443	0.234045525
<b>TMEM209</b>	6.05510904	6.206929352	0.035726785	0.006650239
<b>TMEM213</b>	1.86124898	1.899243789	0.029154045	0.658848273
<b>TMEM214</b>	3.221732477	3.222999373	0.000567206	0.79480716
<b>TMEM216</b>	6.77133857	6.628074613	-0.030851213	0.010867668
<b>TMEM217</b>	2.682630861	2.645259859	-0.020239095	0.905002818
<b>TMEM218</b>	7.158198199	7.046481676	-0.022693394	0.020832868
<b>TMEM219</b>	7.219243649	7.199848556	-0.003881135	0.81402335

<b>TMEM22</b>	5.248031338	5.331010387	0.022632658	0.169171518
<b>TMEM220</b>	4.340492874	4.486295528	0.047665785	0.108280318
<b>TMEM222</b>	7.052955868	7.091942162	0.007952758	0.55531015
<b>TMEM25</b>	7.752343265	7.799705035	0.008787113	0.786836178
<b>EPCAM</b>	2.734628821	3.073451782	0.168514826	0.002044936
<b>TMEM27</b>	6.009176603	6.343744894	0.078167434	0.101195964
<b>TMEM30A</b>	4.578182026	4.581715254	0.001112975	0.814023328
<b>TMEM30B</b>	3.189908371	3.090809852	-0.045530082	0.07287533
<b>TMEM31</b>	2.112573172	2.158889042	0.031287785	0.33865735
<b>TMEM33</b>	4.326241828	4.298162768	-0.009394194	0.368351927
<b>TMEM35</b>	5.618497808	5.780121866	0.040915455	0.4426043
<b>TMEM37</b>	6.244079874	6.510005817	0.06016984	0.001645136
<b>TMEM38A</b>	6.551270967	6.790526085	0.051748528	0.073539072
<b>TMEM38B</b>	4.947055338	4.970564289	0.006839607	0.99229423
<b>TMEM39A</b>	4.786036331	4.605679113	-0.055417449	0.020833051
<b>TMEM39B</b>	5.683114331	5.74086619	0.01458669	0.237867704
<b>TMEM40</b>	2.686089854	2.65707693	-0.015667568	0.467163418
<b>TMEM41A</b>	3.507475146	3.586785254	0.032258491	0.155290395
<b>TMEM41B</b>	6.439768172	6.441011958	0.000278617	0.649389082
<b>TMEM42</b>	9.117844225	9.057515859	-0.009577335	0.211043236

<b>TMEM43</b>	6.382930344	6.305491155	-0.017610153	0.226279961
<b>TMEM44</b>	4.465741185	4.256976007	-0.069070682	0.109958134
<b>TMEM45A</b>	4.753340007	4.506599077	-0.076902493	0.064786564
<b>TMEM45B</b>	2.032497589	2.052896465	0.014407228	0.962585139
<b>TMEM47</b>	5.461661801	5.511220415	0.013031846	0.560409469
<b>TMEM48</b>	3.974493709	4.019932972	0.016400352	0.559480776
<b>TMEM49</b>	6.557544159	6.388183859	-0.037749782	0.177891269
<b>TMEM5</b>	7.087967351	7.20226043	0.023077809	0.036287199
<b>TMEM50A</b>	8.882242609	8.727899746	-0.025289447	0.017055635
<b>TMEM50B</b>	7.45429294	7.428538507	-0.004993113	0.799599748
<b>TMEM51</b>	7.562067881	7.291983289	-0.052469545	0.289950689
<b>TMEM52</b>	2.123976152	2.146193845	0.015012819	0.305633736
<b>TMEM53</b>	6.989028616	7.092415211	0.021185045	0.044189113
<b>TMEM54</b>	6.589660775	6.563529394	-0.005732398	0.657850041
<b>TMEM55A</b>	7.861489954	7.8519815	-0.001745992	0.762008685
<b>TMEM55B</b>	8.317469735	8.356910775	0.006825021	0.585766188
<b>TMEM56</b>	3.836565358	3.865342951	0.01078109	0.861447456
<b>TMEM57</b>	4.868362404	4.903476965	0.010368533	0.465053562
<b>TMEM59</b>	10.91161836	10.90237753	-0.001222308	0.717221958
<b>TMEM59L</b>	4.256386702	4.452886408	0.065111581	0.16451462

<b>TMEM60</b>	5.992083318	5.948744042	-0.01047258	0.761483018
<b>TMEM61</b>	3.562604146	3.753646225	0.075360496	0.130495623
<b>TMEM62</b>	3.931016801	4.085236958	0.055517232	0.028404573
<b>TMEM63A</b>	3.935956662	3.843145606	-0.034426699	0.275729718
<b>TMEM63B</b>	4.812391351	4.939451486	0.037596873	0.13102272
<b>TMEM64</b>	4.857589424	4.585773092	-0.083075584	0.07005642
<b>TMEM65</b>	3.45463394	3.461887394	0.003025951	0.937316692
<b>TMEM66</b>	6.87662947	6.880737746	0.000861646	0.793211312
<b>TMEM67</b>	2.349533007	2.422780782	0.044289838	0.082990454
<b>TMEM68</b>	4.53190855	4.545843042	0.004429123	0.704377918
<b>TMEM69</b>	4.262472232	4.352503493	0.03015502	0.133326265
<b>TMEM70</b>	7.137228689	7.081540268	-0.011300812	0.100194016
<b>TMEM71</b>	3.328876086	3.095245915	-0.104981133	0.040815061
<b>TMEM72</b>	2.140408815	2.167649127	0.018244874	0.872302125
<b>TMEM74</b>	3.357219834	3.572125556	0.089515781	0.131022904
<b>TMEM77</b>	6.641760675	6.533901676	-0.023620994	0.110881617
<b>TMEM79</b>	5.404321265	5.27281112	-0.035541121	0.198244269
<b>TMEM8</b>	6.717043272	6.753726401	0.007857413	0.489854748
<b>TMEM80</b>	6.583369199	6.70577481	0.026577929	0.080211671
<b>TMEM81</b>	2.720549894	2.581522761	-0.075675969	0.194659445

<b>TMEM84</b>	1.954415232	2.006050169	0.037620674	0.138027436
<b>TMEM85</b>	8.84903702	8.841588577	-0.001214862	0.834967131
<b>TMEM86A</b>	3.329566477	3.370729507	0.017726514	0.331738285
<b>TMEM86B</b>	4.809704821	4.841013218	0.009360677	0.49550969
<b>TMEM87A</b>	9.097734702	9.142456479	0.007074489	0.373884935
<b>TMEM87B</b>	3.904529927	3.839621761	-0.024184672	0.232157442
<b>TMEM88</b>	7.071895523	7.021525155	-0.010312527	0.964234659
<b>TMEM89</b>	2.185801444	2.138321796	-0.031683373	0.402711873
<b>TMEM9</b>	7.777428947	7.923723563	0.02688524	0.001929497
<b>TMEM90A</b>	3.757619788	3.943775782	0.069758435	0.143231921
<b>TMEM92</b>	2.011315788	2.086118761	0.052681681	0.022164216
<b>TMEM93</b>	8.932179053	8.96320057	0.005001809	0.506921719
<b>TMEM95</b>	2.217819821	2.184530894	-0.021818655	0.951043325
<b>TMEM97</b>	4.950625755	5.044843965	0.027198756	0.220250164
<b>TMEM98</b>	9.401507457	9.441483366	0.006121441	0.608259632
<b>TMEM99</b>	6.985732636	6.861628282	-0.025860455	0.011529293
<b>TMEM9B</b>	9.111746901	9.152614655	0.006456268	0.065994853
<b>TMF1</b>	4.163967351	4.13743893	-0.009220739	0.519815449
<b>TMIE</b>	3.655591245	3.672361246	0.00660322	0.655356904
<b>TMIGD2</b>	2.518399781	2.524502972	0.003492055	0.901724561

<b>TMLHE</b>	4.745501278	4.760400479	0.004522458	0.534688247
<b>TMOD1</b>	4.221764305	4.237178549	0.005257886	0.875563351
<b>TMOD2</b>	3.195360801	3.125455092	-0.031912568	0.276033724
<b>TMOD3</b>	5.136906808	5.081488035	-0.015648871	0.572082633
<b>TMOD4</b>	2.45606051	2.444491148	-0.006811924	0.822064072
<b>TMPO</b>	3.006148808	3.023683986	0.008390941	0.766218287
<b>TMPRSS11A</b>	1.994103755	2.023838965	0.021354024	0.280928869
<b>TMPRSS11B</b>	1.952744238	1.900967493	-0.038769142	0.210541524
<b>TMPRSS11D</b>	1.87386804	1.890215641	0.01253147	0.804934369
<b>TMPRSS11E</b>	1.91252096	1.808258387	-0.080874716	0.042826121
<b>TMPRSS11F</b>	1.864759801	1.825365641	-0.030804329	0.603442091
<b>TMPRSS12</b>	1.938325762	1.938156035	-0.000126333	0.861447358
<b>TMPRSS13</b>	2.188697119	2.065043049	-0.083900465	0.001854456
<b>TMPRSS2</b>	2.261160662	2.238800211	-0.014337715	0.461268584
<b>CXCL10</b>	2.795748172	3.142790908	0.168811877	0.005331303
<b>TMPRSS4</b>	2.030800954	2.004978761	-0.018461889	0.775714635
<b>TMPRSS5</b>	5.541159967	5.522403451	-0.004891726	0.985689836
<b>TMPRSS6</b>	2.253796735	2.224066099	-0.019157743	0.546097326
<b>TMPRSS9</b>	2.293356841	2.355584894	0.038624475	0.460010884
<b>TMSB10</b>	9.950169338	9.774426345	-0.025709044	0.057543407

TMSB15A	4.427608987	4.425012782	-0.000846197	0.522503837
TMSB15B	4.449613834	4.589006817	0.044501815	0.094621816
TMSB4X	8.882208205	8.686313782	-0.03217432	0.03326451
TMSB4Y	1.914404828	1.972211585	0.042918396	0.284949024
TMSL3	10.95553779	10.71387454	-0.032179999	0.025865542
TMTC1	7.447971073	7.253861915	-0.038098187	0.116392296
TMTC2	5.871518391	5.976992437	0.025686081	0.333459253
TMTC3	4.667081974	4.64319481	-0.007402995	0.497256521
TMTC4	6.162245662	6.326796592	0.038019016	0.020795007
TMUB1	7.111464854	7.159248366	0.009661366	0.367984665
TMUB2	6.423426093	6.407031641	-0.003686884	0.790553006
TNAP	2.872209629	2.771587035	-0.051448736	0.12379082
SEC14L3	3.683060219	4.141082592	0.169102991	0.000263658
TNF	2.440528464	2.395657317	-0.026772023	0.558552643
TNFAIP1	9.636441517	9.673066408	0.005472808	0.414444911
TNFAIP2	9.076191477	9.006751197	-0.011080236	0.754134526
TNFAIP3	4.476289748	4.671098915	0.061458572	0.025005231
TNFAIP6	3.801325993	3.816673317	0.005812953	0.451674738
TNFAIP8	5.70502149	5.634942331	-0.017831475	0.937865443
TNFAIP8L1	2.902867205	2.956658866	0.026489222	0.637521162

TNFAIP8L2	3.501717238	3.358272218	-0.060343413	0.130495668
TNFAIP8L3	2.10847143	2.084473937	-0.01651414	0.53605111
KRT40	2.227147497	2.505292401	0.169781889	0.004432367
TNFRSF10B	5.082297907	5.005818901	-0.021874845	0.804934392
TNFRSF10C	4.155703762	4.111196007	-0.01553466	0.79214787
TNFRSF10D	2.022533781	1.908435683	-0.083773233	0.003957832
TNFRSF11A	2.436723768	2.445422035	0.005140756	0.831199395
TNFRSF11B	5.164135781	5.024562239	-0.039529026	0.473951952
TNFRSF12A	6.656822132	6.794439803	0.029520986	0.243676727
TNFRSF13B	1.95279747	2.006785873	0.039344356	0.254152257
TNFRSF13C	2.43901755	2.459673479	0.012166672	0.869586042
TNFRSF14	9.723889179	9.450269514	-0.041177977	0.339003702
TNFRSF17	2.465124662	2.574127246	0.062422766	0.7588562
TNFRSF18	2.405393801	2.343806824	-0.037419437	0.273305661
TNFRSF19	3.505774702	3.371151507	-0.056491818	0.018967021
TNFRSF1A	6.49349304	6.319156317	-0.039262801	0.276033782
TNFRSF1B	3.73212606	3.687393246	-0.017396434	0.248451579
TNFRSF21	5.461022775	5.466040775	0.001325048	0.991743839
TNFRSF25	8.035316523	7.910796831	-0.022531835	0.279392655
TNFRSF4	2.93391902	2.888484704	-0.022516196	0.475230679



TNFRSF6B	6.059206464	6.162706134	0.024435133	0.483373362
TNFRSF8	3.454620238	3.400721028	-0.022686464	0.729632364
TNFRSF9	1.987640311	2.013184993	0.018423042	0.274819069
TNFSF10	5.903609126	5.771917655	-0.032546487	0.572082816
TNFSF11	2.012252609	2.020183901	0.005675204	0.387377869
TNFSF12	9.373775086	9.234329754	-0.021622928	0.11996369
TNFSF13	4.731159457	4.732733824	0.000479999	0.856029723
TNFSF13B	4.977304	4.737792444	-0.071149508	0.18419116
TNFSF14	4.219265152	4.032703704	-0.065244344	0.165775143
TNFSF15	1.988500808	1.992029986	0.002558216	0.582449426
TNFSF18	1.934590139	1.955835866	0.015757354	0.753086968
TNFSF4	2.955744728	2.985903958	0.014646084	0.451260185
TNFSF8	2.052554974	1.976396261	-0.054548631	0.261698364
TNFSF9	2.441946483	2.437548641	-0.002600575	0.813487949
DKK1	2.821591159	3.174084056	0.169831374	0.019753279
TNIP1	7.328338252	7.381015113	0.010333149	0.723935976
TNIP2	4.893062192	4.920591401	0.008094102	0.694670768
TNIP3	2.211784066	2.346459423	0.085274968	0.100765742
TNK1	2.304714179	2.355728042	0.031585152	0.332426051
TNK2	6.787490503	6.777409937	-0.002144238	0.87284536

TNKS	3.539977278	3.506233641	-0.013817966	0.4255808
TNKS1BP1	3.220176291	3.169275359	-0.02298666	0.415236741
TNKS2	3.183318894	3.265321951	0.036693556	0.080929088
TNMD	2.10641202	2.067747232	-0.026727822	0.695690124
TNN	3.091066583	2.875054711	-0.10451532	0.051316339
TNNC1	4.581925066	4.522638296	-0.018789246	0.575842299
TNNC2	5.484208358	5.553729183	0.018173445	0.633094494
TNNI1	2.192348132	2.193834606	0.000977856	0.88644895
TNNI2	2.862895417	2.887441655	0.012316826	0.908282651
CACNG6	2.245667768	2.526852204	0.170196777	3.61E-05
TNNI3K	2.194883331	2.209402775	0.009512191	0.756232049
TNNT1	3.268863272	3.376465423	0.046724749	0.434449866
TNNT2	2.183531066	2.132989127	-0.033786446	0.116713488
TNNT3	2.28543206	2.23657593	-0.031175194	0.04034153
TNP1	2.050343013	1.976647246	-0.052809856	0.158931864
TNP2	2.130755371	2.045463845	-0.058936932	0.00958678
TNP01	7.648989099	7.812561507	0.030526551	0.098776954
TNP02	3.973548861	4.011233261	0.013617779	0.415236796
TNP03	4.458860344	4.538954873	0.025685131	0.418800656
TNR	2.560250689	2.572478486	0.006873932	0.748899913

TNRC18	9.338903742	9.308876261	-0.004646187	0.364689166
TNRC4	5.261846232	5.628309472	0.097132568	0.035676793
TNRC6A	4.692355172	4.647616232	-0.013821271	0.193711602
TNRC6B	6.915031881	6.90616462	-0.001851179	0.729113855
TNRC6C	7.495418079	7.520370063	0.004794705	0.669366718
TNS1	4.295680159	4.095336711	-0.068904507	0.16810451
TNS3	6.737966185	6.553332176	-0.040084527	0.158320522
TNS4	2.144498583	2.158495613	0.009385798	0.697220501
TNXB	7.394720093	7.158974211	-0.046742656	0.0767013
TOB1	6.932713788	7.050849415	0.024376868	0.071998132
TOB2	6.991473728	6.887722852	-0.0215695	0.252146544
TOE1	7.047475417	6.925192444	-0.025252378	0.048420341
TOLLIP	4.309040046	4.368702592	0.019838388	0.119964795
TOM1	4.567934483	4.552020331	-0.005034957	0.76200863
TOM1L1	3.684464026	3.767548423	0.032171286	0.041019261
TOM1L2	8.309112675	8.373132528	0.011073039	0.903909708
TOMM20	8.290035007	8.268169415	-0.003810244	0.629169752
TOMM20L	4.646318199	4.70769369	0.018932494	0.286505798
TOMM22	6.466015709	6.396082289	-0.015688512	0.100479494
TOMM34	3.137973854	3.20635307	0.031099966	0.034013754

<b>TOMM40</b>	5.30971455	5.402804599	0.025074202	0.096543077
<b>TOMM40L</b>	7.388000914	7.441156606	0.010342837	0.602480405
<b>TOMM5</b>	9.332039563	9.306214599	-0.003997968	0.199931095
<b>TOMM6</b>	8.41336404	8.390198204	-0.003977878	0.603922697
<b>TOMM7</b>	12.48611597	12.51254596	0.003050597	0.437676355
<b>TOMM70A</b>	4.472554987	4.49413757	0.006945068	0.86958615
<b>TOP1</b>	5.055543265	4.907898824	-0.042760623	0.03326451
<b>TOP1MT</b>	6.962862079	6.860826282	-0.021298109	0.47224986
<b>TOP1P2</b>	4.40964743	4.338125289	-0.023591591	0.120458492
<b>TOP2A</b>	2.039802351	2.039447761	-0.000250814	0.604885632
<b>TOP2B</b>	10.14923381	10.23671712	0.012382302	0.954889446
<b>TOP3A</b>	4.648924265	4.653366387	0.00137786	0.700284536
<b>TOP3B</b>	3.401167609	3.475306697	0.031110198	0.133504755
<b>TOPBP1</b>	3.708316099	3.89029407	0.069114988	0.003384368
<b>TOPORS</b>	5.979039675	5.986046155	0.001689618	0.676415613
<b>TOR1A</b>	3.748167212	3.818559275	0.026843103	0.183508218
<b>TOR1AIP1</b>	4.77179653	4.799733345	0.00842173	0.415631875
<b>TOR1AIP2</b>	3.161904225	3.083264887	-0.03633483	0.114004848
<b>TOR1B</b>	3.534386298	3.531898056	-0.001016029	0.631621708
<b>TOR2A</b>	5.291444033	5.307694338	0.004423803	0.803866683

<b>TOR3A</b>	7.671135291	7.723746718	0.00986075	0.350986362
<b>TOX</b>	3.933238285	3.995348127	0.022603624	0.493765833
<b>TOX2</b>	7.957451172	7.858556197	-0.01804212	0.119636338
<b>TOX3</b>	4.63198047	4.851144563	0.066696002	0.07156316
<b>TOX4</b>	8.033588033	8.058273944	0.00442637	0.368718789
<b>TP53</b>	2.266504821	2.237662908	-0.018476511	0.618433498
<b>TP53BP1</b>	6.488532146	6.235163718	-0.057464703	7.97E-05
<b>TP53BP2</b>	6.983953079	7.028907394	0.009256581	0.533781212
<b>TP53I11</b>	4.702358424	4.572363197	-0.040444503	0.217922471
<b>TP53I13</b>	5.292624901	5.263045824	-0.008085455	0.5655316
<b>TP53I3</b>	4.306569079	4.303701458	-0.00096097	0.982387979
<b>TP53INP1</b>	7.146332636	7.1038315	-0.008605706	0.393468306
<b>TP53INP2</b>	4.165348914	4.223293289	0.01993109	0.59576914
<b>TP53RK</b>	4.369469146	4.273521049	-0.032032786	0.063104326
<b>TP53TG1</b>	7.465469483	7.452496289	-0.002509239	0.584343248
<b>TP53TG3</b>	2.85755755	2.810088634	-0.024166918	0.492025782
<b>TP53TG5</b>	2.03212657	1.986696535	-0.032618742	0.492460628
<b>TP63</b>	2.557989669	2.467677021	-0.051856856	0.091399331
<b>TP73</b>	2.152485815	2.177772915	0.016849797	0.803866706
<b>TPBG</b>	4.842990623	4.694728063	-0.044856616	0.17878125

TPCN1	7.837301649	7.787697648	-0.009160152	0.344609931
TPCN2	4.023635642	3.958509437	-0.023542378	0.485528706
TPD52	7.412598543	7.685971099	0.052248173	0.201633075
TPD52L1	8.306860841	7.94986481	-0.063373059	0.123118518
TPD52L2	3.968116192	3.815715	-0.056500852	0.021255892
TPD52L3	1.909395185	1.908667915	-0.000549613	0.857112678
TPH1	1.904403013	1.960670092	0.042007987	0.130319938
TPH2	1.935790596	1.920467542	-0.011465317	0.670371929
TPI1	11.08611655	11.27010725	0.023747164	0.102928424
TPK1	5.464217232	5.496091754	0.00839125	0.573491077
TPM1	8.605835139	8.379947761	-0.038373953	0.003923263
TPM2	9.575678265	9.220169317	-0.054581436	0.071020303
TPM3	7.258244987	7.257044901	-0.000238556	0.864700985
TPM4	7.119183351	6.949519951	-0.034798433	0.137478336
TPMT	3.862983503	3.92225138	0.021966485	0.391940498
TPO	2.542985079	2.5689295	0.014644301	0.886449018
TPP1	7.27796951	7.223284577	-0.010880998	0.446714233
TPP2	5.909300331	5.804444641	-0.025829284	0.037094179
TPPP	2.686795848	2.816983556	0.068264438	0.099200757
TPPP2	2.31690053	2.379089908	0.038213687	0.244794379

TPPP3	5.514755219	5.461172648	-0.014086084	0.568334855
TPR	8.831109675	8.83528157	0.000681381	0.795338681
TPRG1	2.269022464	2.301013563	0.020198596	0.746809078
TPRG1L	6.858308795	6.916576254	0.012205209	0.61019196
TPRKB	6.937219258	7.000956345	0.013194527	0.720835592
TPRX1	2.498004576	2.515214289	0.009905199	0.802266047
TPRXL	2.597078066	2.447168423	-0.085775985	0.011990212
TPSAB1	3.758687139	3.661341282	-0.037856578	0.385486965
TPSD1	1.991823636	1.967196275	-0.017949003	0.804934118
TPSG1	12.73354683	12.73014662	-0.000385292	0.820983961
TPST1	7.891010245	7.748357077	-0.026319572	0.109804657
TPST2	6.314374199	6.044512592	-0.063013749	0.045216549
TPT1	12.31859083	12.19499724	-0.014547798	0.080681322
TPTE	2.510906543	2.488628676	-0.012857348	0.700284638
TPTE2	1.973187901	1.99796657	0.018004098	0.609225989
TPTEps1	1.832120695	1.868122965	0.028074873	0.309558345
TPX2	2.561933815	2.596305415	0.019226899	0.60440451
TRA2A	3.903490172	3.803836662	-0.03730934	0.040747058
TRA@	7.700997212	7.689589155	-0.002138755	0.964784534
TRABD	7.782052914	7.742705338	-0.007313051	0.496382618

TRADD	8.809537331	8.731516042	-0.012834083	0.526098149
IBSP	1.99419247	2.248808324	0.17335604	0.01110624
TRAF2	6.442973364	6.372688613	-0.015824462	0.573960894
TRAF3	5.722636861	5.756507042	0.008513611	0.775714687
TRAF3IP1	5.860565543	5.935335451	0.018289679	0.071889102
TRAF3IP2	3.124035954	3.124453817	0.000192958	0.823674412
TRAF3IP3	4.022344589	3.844345077	-0.065298839	0.310874301
TRAF4	4.31594343	4.356112894	0.013365388	0.349919104
TRAF5	5.646864086	5.389585761	-0.067275515	0.077857321
TRAF6	4.473473603	4.20769743	-0.088364537	2.11E-05
TRAF7	5.089716662	5.068203683	-0.00611084	0.814023263
TRAFD1	3.168457483	3.28699519	0.052988689	0.051563988
TRAIIP	4.293651934	4.550782169	0.083909287	0.014631341
TRAK1	6.744528921	6.733912972	-0.002272604	0.701307173
TRAK2	5.156273477	5.02583138	-0.036966514	0.016211114
TRAM1	9.544089543	9.38355793	-0.024472531	0.083111913
TRAM1L1	4.177317007	4.336622352	0.053995184	0.062228526
TRAM2	4.54643545	4.518832359	-0.008785833	0.890264177
TRAP1	6.624591901	6.70695562	0.017826474	0.264346352
TRAPPC1	5.073157709	5.061492472	-0.003321158	0.942805333



TRAPPC10	6.641549285	6.662449676	0.00453291	0.879914783
TRAPPC2	4.170960457	4.173619415	0.000919415	0.955439105
TRAPPC2L	6.862642377	6.920699134	0.012153612	0.388895418
TRAPPC3	6.503937166	6.530030106	0.005776323	0.259068992
TRAPPC4	8.902693868	9.041922718	0.022387639	0.007606928
TRAPPC5	9.611892139	9.747936366	0.020276374	0.000196756
TRAPPC6A	6.247662411	6.355505437	0.024690363	0.065388984
TRAPPC6B	3.218507742	3.286939246	0.030352852	0.163678357
TRAPPC9	7.267080252	7.360598331	0.018447207	0.080928943
TRAT1	2.203743285	2.185435944	-0.012035081	0.995596659
TRBV5-4	6.499289682	6.333322852	-0.037319427	0.264937439
TRDMT1	3.075969629	3.071597965	-0.002051862	0.861447407
TRDN	2.278896901	2.422773585	0.08832393	0.016180623
TREH	2.003528861	1.984486838	-0.013777298	0.625256885
TREM1	2.868687358	2.948054437	0.039372419	0.343906994
TREM2	3.524756775	3.695727754	0.068334776	0.013550181
TREML1	2.37557955	2.368884113	-0.004071896	0.588140855
TREML2	2.444741417	2.426889894	-0.010573222	0.567399668
TREML3	1.925584848	1.90905488	-0.012438117	0.53015887
TREML4	1.91272547	1.883738711	-0.022030955	0.419594914

TRERF1	4.686648735	4.542116049	-0.045192102	0.03471812
TREX1	6.023918026	6.135298979	0.026431512	0.419992541
TREX2	2.075945914	2.057421915	-0.012931179	0.974134772
TRGV5	2.708173093	2.725368704	0.009131468	0.518027311
TRGV7	1.983965848	1.947758063	-0.026572704	0.366884818
TRH	5.943643974	6.585335577	0.147909259	0.032194807
TRHDE	1.91548843	1.918843218	0.002524527	0.920869626
TRHR	2.019970868	2.028076739	0.005777757	0.919226643
TRIAP1	5.170174199	5.104059352	-0.018567785	0.206052494
TRIB1	9.525103861	9.508602937	-0.002501437	0.901178063
TRIB2	6.576882894	6.660728873	0.018276076	0.460010884
TRIB3	7.379410801	7.311359838	-0.013365873	0.712590107
TRIM10	3.999329596	4.086882993	0.031242757	0.116232005
TRIM11	7.136592444	7.04863743	-0.017890988	0.252432373
TRIM13	6.982176768	6.904007577	-0.016242834	0.043467247
TRIM14	3.228222351	3.208197352	-0.008977059	0.715678196
TRIM15	1.956030563	1.953320014	-0.002000586	0.936219318
TRIM16L	4.716346238	4.691518127	-0.007614794	0.873388957
TRIM17	2.309106126	2.21888038	-0.057502586	0.082623613
TRIM2	8.636482285	8.776569732	0.023213372	0.400387893

TRIM21	2.936154159	2.918592549	-0.0086549	0.554385442
TRIM22	4.945185351	4.7608715	-0.054798906	0.247886571
TRIM23	2.655542278	2.714911662	0.031898758	0.212053569
TRIM24	8.15041351	8.265573239	0.020241622	0.149947292
TRIM25	3.894543172	3.873394634	-0.007855616	0.975785217
TRIM26	7.44100402	7.369331493	-0.013963547	0.670371707
TRIM27	6.503248311	6.39397	-0.024448536	0.162222562
TRIM28	7.436845695	7.388590394	-0.009391687	0.171536549
TRIM29	2.126566192	2.16394462	0.025137816	0.281544716
TRIM3	2.219268616	2.261595873	0.027256857	0.3596037
TRIM31	1.959841967	1.953795606	-0.004457777	0.851159491
TRIM32	6.073703265	6.149063225	0.017790215	0.248168681
TRIM33	6.942616437	7.027550493	0.017542446	0.203834068
TRIM34	3.418103523	3.296184768	-0.052398977	0.242284708
TRIM35	5.977497106	6.009035373	0.007591888	0.316173638
TRIM36	5.508711821	5.745678282	0.060762221	0.29215743
TRIM37	5.645127298	5.805204655	0.040340814	0.239517475
TRIM38	3.469889146	3.279806092	-0.081279051	0.152502379
TRIM39	6.612434702	6.649192683	0.007997615	0.242006528
TRIM4	7.415902828	7.354967092	-0.011903454	0.077046173

TRIM40	1.981098834	1.919885232	-0.045280785	0.144556084
TRIM41	5.204752768	5.207509239	0.000763859	0.982938262
TRIM42	1.98594894	1.957123648	-0.021093625	0.531968455
TRIM43	2.015726464	1.990439852	-0.018212601	0.394233759
TRIM44	6.316046517	6.335265944	0.004383386	0.994495832
TRIM45	4.773802185	4.577949282	-0.060437306	0.050416493
TRIM46	2.714687649	2.75514243	0.021340691	0.424379639
TRIM47	5.824258927	5.736279035	-0.02195929	0.391559179
TRIM48	1.907871894	1.943611817	0.026775806	0.111345778
TRIM49	2.119641914	2.179470592	0.040157176	0.281544945
TRIM5	3.147917424	3.072605352	-0.034935219	0.264641924
TRIM50	2.797009331	2.759705958	-0.019370508	0.926348547
TRIM52	6.214640172	6.143409521	-0.016631305	0.349563503
TRIM53	1.974164748	2.078478599	0.074285502	0.037788742
TRIM54	1.940999967	1.966580711	0.018889304	0.54380592
TRIM55	1.910736344	1.918014275	0.005484738	0.47480384
TRIM56	5.695350119	5.577605324	-0.030138682	0.555772975
TRIM58	2.707310974	2.67552238	-0.017040014	0.61115942
TRIM59	2.313594119	2.289886007	-0.014860009	0.359965826
TRIM6	4.212929272	4.0517975	-0.056261622	0.383601374

TRIM60	1.808610815	1.890710408	0.064046414	0.007622711
TRIM62	4.504619775	4.527443239	0.007291218	0.486824094
TRIM63	9.08274043	8.643885979	-0.071447609	0.208536443
TRIM64	1.918807285	1.907686944	-0.008385381	0.592903176
TRIM65	3.186022947	3.224568613	0.01734951	0.513126048
TRIM66	3.65085251	3.567597056	-0.033280708	0.227872646
TRIM68	5.442724132	5.354121711	-0.023678979	0.196804471
TRIM69	4.290666815	4.260792092	-0.010080219	0.64690904
TRIM7	3.61529706	3.670718873	0.021948433	0.152502281
TRIM72	2.082562821	2.087531958	0.003438268	0.614549119
TRIM73	1.87659998	1.86507769	-0.008885428	0.897356152
TRIM74	3.331795146	3.422938852	0.03893582	0.058548373
TRIM8	8.172964715	8.149701232	-0.004112335	0.714133533
TRIM9	2.51408098	2.621426697	0.060321084	0.088781808
TRIML1	1.93519294	1.868546021	-0.050561315	0.118982022
TRIML2	1.98293149	1.912428577	-0.052228964	0.366885046
TRIO	5.29870096	5.235480563	-0.017316741	0.236499288
TRIOBP	5.333388146	5.361642197	0.00762262	0.892445428
TRIP10	6.061352497	6.021044014	-0.009626081	0.316840165
TRIP11	6.35518655	6.165093507	-0.043811698	0.021725665

TRIP12	7.173322689	7.135393634	-0.007648511	0.300451343
TRIP13	1.847121119	1.876094099	0.022453721	0.974684886
TRIP4	7.052865093	7.000406401	-0.010770765	0.216123755
TRIP6	8.863118735	8.879281979	0.002628578	0.90828251
TRIT1	6.107266887	5.953313176	-0.036834102	0.007165897
TRMT1	7.865731868	7.776506092	-0.016458896	0.164304951
TRMT11	4.503807788	4.564187662	0.019212853	0.341800646
TRMT12	6.079654053	5.995649873	-0.020073096	0.120128978
TRMT2A	4.203216225	4.271580486	0.023276292	0.201146298
TRMT2B	3.68358251	3.601857521	-0.032368445	0.108583771
TRMT5	9.955568325	9.953606789	-0.000284281	0.644926389
TRMT6	4.379184808	4.430890479	0.016934332	0.319851309
TRMT61A	5.075534079	5.102733162	0.007710561	0.671881184
TRMT61B	2.638921225	2.632988493	-0.003247069	0.775186185
TRMU	7.405810371	7.398699528	-0.001385899	0.466740906
TRNAU1AP	5.307384735	5.35184907	0.012036296	0.197283229
TRNT1	3.699456172	3.659670563	-0.015599421	0.197523436
TRO	7.73172196	7.557852894	-0.03281332	0.003673027
TROAP	3.518968841	3.514083197	-0.002004392	0.877194767
TROVE2	7.590542517	7.584897831	-0.001073255	0.794806873

TRPA1	2.032246437	1.989346986	-0.030780423	0.361052431
TRPC1	6.390641311	6.495845627	0.023556632	0.417214464
TRPC2	2.097635397	2.033326986	-0.044921698	0.320187192
TRPC3	5.76765649	5.80176081	0.008505575	0.979086422
TRPC4	2.285173053	2.213621824	-0.04589465	0.124128066
TRPC4AP	5.265375344	5.299076528	0.009204585	0.514460403
TRPC5	1.836594318	1.933018345	0.073822342	0.143420495
TRPC6	1.984875662	1.927290092	-0.042474897	0.233508037
TRPC7	2.081139033	2.127761437	0.031963056	0.323894858
TRPM1	6.597115344	6.580600493	-0.003616091	0.940060685
TRPM2	4.371950954	4.442064035	0.022952974	0.270296704
TRPM3	6.150114265	6.315624669	0.038312221	0.316173811
TRPM4	4.551227053	4.424452592	-0.040756591	0.231618827
TRPM5	2.555238821	2.484413901	-0.040552591	0.2510056
TRPM6	2.556877285	2.620041972	0.035207002	0.555772928
TRPM7	4.946591384	4.808465317	-0.040858217	0.249584691
TRPM8	2.007161993	1.987564746	-0.0141552	0.62721217
TRPS1	4.914105795	4.93283219	0.005487292	0.823137549
TRPT1	7.756106728	7.864280408	0.019982107	0.038688807
TRPV1	6.378029377	6.414616352	0.00825224	0.974134772

TRPV2	7.76577802	7.603789514	-0.030411873	0.246196216
TRPV3	1.996203748	1.945232021	-0.037316735	0.245915287
TRPV4	3.582655371	3.490140141	-0.037744305	0.439332299
TRPV5	2.120116225	2.146822528	0.018059577	0.457918598
TRPV6	2.111235119	2.175746958	0.043423525	0.258196521
TRRAP	5.320224053	5.276499979	-0.011905729	0.076357161
TRUB1	5.697191695	5.707457246	0.002597198	0.729113731
TRUB2	6.787080543	6.840294394	0.011267284	0.144366079
TRYX3	1.888514907	1.875140965	-0.010253117	0.592425836
TSC1	6.258247834	6.186937648	-0.016533298	0.425981738
TSC2	6.083076808	6.06256093	-0.004873879	0.605849125
TSC22D1	6.838113119	6.86367862	0.005383714	0.734823508
TSC22D2	3.487284662	3.412626197	-0.031221737	0.098074828
TSC22D3	6.454485861	6.354137324	-0.022605911	0.321195647
TSC22D4	6.023421874	6.190821	0.039547439	0.019753191
TSEN15	5.843705371	5.885792303	0.010353192	0.633094129
TSEN2	5.631752914	5.658155049	0.006747672	0.648892621
TSEN34	10.15145705	10.18186478	0.004314998	0.500757347
TSEN54	6.566183887	6.538465556	-0.006103049	0.552538242
TSFM	9.219218709	9.199567655	-0.003078432	0.797468202



TSG101	9.209336974	9.216268648	0.001085478	0.680455716
TSGA10	2.755089119	2.680705761	-0.039486112	0.393468588
TSGA10IP	1.98998455	2.068612289	0.055906043	0.264641867
TSGA13	1.877749252	1.866409732	-0.008738688	0.932927883
TSGA14	4.480073815	4.568435683	0.028177742	0.32525025
TSHB	2.33490102	2.385008261	0.03063287	0.538326297
TSHR	1.925454205	1.867987915	-0.043713689	0.044847328
TSHZ1	7.388151636	7.342528796	-0.008936458	0.701307173
TSHZ2	3.339556815	3.389676268	0.021490836	0.735343364
TSHZ3	6.780502881	6.840303183	0.012667995	0.385109031
TSKS	2.38334457	2.340629803	-0.026090769	0.384354863
TSKU	7.626682834	7.535834063	-0.017288507	0.989542308
TSLP	2.322949179	2.242922908	-0.050577557	0.185333365
TSN	6.76954094	6.724229577	-0.009689023	0.322880761
TSNARE1	5.740300179	5.820849239	0.02010347	0.116874344
TSNAX	5.602239152	5.763503458	0.040942477	0.00803954
TSNAXIP1	4.35974457	4.398505338	0.012769751	0.61843354
TSP50	2.318251623	2.283659683	-0.021689492	0.445067573
TSPAN1	3.32160994	3.349314754	0.011983294	0.388895248
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TSPAN19	3.557258536	3.659855275	0.041020768	0.447539023
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TSPAN31	5.516080868	5.508209028	-0.002060299	0.7635864
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TSPAN33	4.266803344	4.385214162	0.039491683	0.026705377
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TSP0	7.286858325	7.189809415	-0.019343412	0.319180637
TSPYL1	7.586689278	7.544542655	-0.008037003	0.476083775
TSPYL2	6.925625026	6.814532359	-0.023329621	0.253291157
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TSPYL4	8.706254033	8.601343099	-0.017490162	0.337265775
TSPYL5	8.144175934	8.183838493	0.007008947	0.492025111
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TSR1	5.389837344	5.517137648	0.033678239	0.007925394
TSR2	6.422689152	6.556052908	0.029650023	0.125824696
TSSC1	7.676326199	7.799459408	0.022958113	0.201146513
TSSC4	7.525628166	7.509311641	-0.003131343	0.49856896
TSSK1B	1.964555649	2.020412986	0.040447185	0.130144941
TSSK2	1.936118212	1.891913556	-0.033320869	0.504277345
TSSK3	2.141678841	2.09529657	-0.031587696	0.795339325
TSSK4	2.087134053	2.07442081	-0.008814681	0.720835656
TSSK6	2.066437967	2.032176718	-0.024120191	0.857112678
TST	9.199169583	9.156568141	-0.006696653	0.858737458
TSTA3	5.817500702	5.820088831	0.000641693	0.613095225
TTBK1	2.950981205	2.892151775	-0.029051468	0.410905594
TTBK2	3.045401609	3.137847472	0.043142731	0.084719581

TTC1	6.454981589	6.46841769	0.002999861	0.949944609
IL20RA	3.313014662	3.741730345	0.175561003	3.82E-05
TTC13	4.078599291	4.035261211	-0.015411709	0.34566836
TTC14	3.838875755	3.785838049	-0.020071171	0.255015051
TTC15	6.781800576	6.903870148	0.025736968	0.046037888
TTC16	2.285999238	2.209141	-0.04933942	0.271798302
TTC17	4.68761851	4.591621211	-0.029851534	0.003444933
TTC18	4.903123722	4.946398711	0.012677369	0.352056832
TTC19	6.888691921	7.042022225	0.031759722	0.010424731
TTC21A	6.448643788	6.385116662	-0.0142828	0.197283443
TTC21B	3.825370477	3.847419394	0.008291626	0.698751802
TTC22	2.188466477	2.156891563	-0.020966637	0.493330885
TTC23	4.644247225	4.522078317	-0.038458795	0.12548386
TTC23L	2.239857762	2.226754268	-0.00846476	0.977435777
TTC25	5.497367715	5.649025641	0.039261066	0.116552892
TTC26	2.351626609	2.371335831	0.012040986	0.472249595
TTC27	6.72140806	6.679212683	-0.009085439	0.572082587
TTC28	5.348109132	5.200896056	-0.0402687	0.030565756
KCNJ4	2.363599781	2.679782134	0.181129944	4.34E-05
TTC3	8.460644801	8.52535112	0.010991635	0.234591545

<b>TTC30A</b>	3.116516377	3.207459359	0.041496691	0.302388248
<b>TTC30B</b>	4.164835265	4.389765662	0.075884494	0.031589095
<b>TTC31</b>	3.552365338	3.613991472	0.024813141	0.408554583
<b>TTC32</b>	7.797619689	8.109808113	0.056633987	0.051563988
<b>TTC33</b>	3.750369139	3.874324514	0.046912196	0.123790999
<b>TTC35</b>	8.140313325	8.085365204	-0.009771386	0.277251291
<b>TTC37</b>	5.355210305	5.323516	-0.008563821	0.546096895
<b>TTC38</b>	6.655038675	6.578866908	-0.016607923	0.444245379
<b>TTC39A</b>	3.167558384	3.254825014	0.039208772	0.347081757
<b>TTC39B</b>	3.115719649	3.098529725	-0.007981618	0.623792025
<b>TTC39C</b>	7.879356821	7.992089528	0.020494875	0.729113607
<b>TTC4</b>	3.710050762	3.810482796	0.038534875	0.074655929
<b>TTC5</b>	4.633211589	4.715767303	0.025479962	0.380970838
<b>TTC7A</b>	6.19837206	6.410556993	0.048560358	0.000567921
<b>TTC7B</b>	6.934857762	7.002949648	0.014096422	0.54563848
<b>TTC8</b>	6.056584682	6.252960908	0.046035013	0.060318107
<b>TTC9</b>	4.551673768	4.527446394	-0.0076996	0.785244873
<b>TTC9B</b>	4.897770404	5.001597423	0.030263795	0.321532336
<b>TTC9C</b>	6.256044967	6.196095641	-0.013891469	0.262578945
<b>TTF1</b>	5.858096834	5.842453789	-0.003857623	0.965334427

TTF2	2.58343394	2.584257993	0.000460111	0.964784539
TTK	2.207785775	2.286046599	0.05025462	0.275122219
TTL	2.798098444	2.798502479	0.000208305	0.594335281
TTLL1	4.563824536	4.661734592	0.030623543	0.226810156
TTLL10	1.947259788	1.884722246	-0.047093442	0.096958972
TTLL11	3.367477358	3.399798225	0.013780881	0.547933804
TTLL12	7.144158444	7.328382873	0.036730802	0.003648798
TTLL2	1.874562841	1.835719711	-0.030208394	0.095441394
TTLL3	5.179990099	5.075697148	-0.02934335	0.141729699
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ADAMTS5	5.027529801	5.701561268	0.181507301	1.30E-05
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TTPA	1.91140351	1.978747042	0.049954821	0.097515684
TTPAL	6.667147225	6.642823908	-0.005272914	0.539237649
TTR	12.36692405	12.52911149	0.018797396	0.484927506
TTRAP	8.587535609	8.542180451	-0.007639802	0.235952154
TTTY1	1.927367523	1.90831	-0.014336148	0.81938176

TTTY10	1.981313338	1.966818465	-0.010593251	0.788959651
TTTY11	1.848330351	1.818793592	-0.023240806	0.400775506
TTTY12	1.928025358	1.887262979	-0.030828558	0.282161651
TTTY13	2.087968821	2.036157655	-0.036250899	0.755707775
LEMD1	2.859053119	3.255035746	0.187135963	0.001769614
KCNJ16	2.583742152	2.942846725	0.187750301	0.009117096
TTTY2	1.913505629	1.985100908	0.0529942	0.340751004
TTTY20	1.922112921	1.850536282	-0.054749673	0.260527492
TTTY21	1.989541775	1.970524676	-0.013856376	0.554847891
TTTY22	1.894642437	1.904816007	0.007726045	0.920869607
TTTY23	1.840146325	1.848481782	0.006520334	0.90390981
TTTY3	1.991650272	1.956996458	-0.025323192	0.625745459
TTTY4C	1.849287424	1.810797296	-0.030344415	0.71670877
TTTY5	2.012115636	2.013612289	0.001072707	0.769907213
TTTY6	2.060377954	1.988223648	-0.051428959	0.374999868
TTTY7	1.85726747	1.842815408	-0.011270031	0.539693275
TTTY8	1.940577742	1.888434063	-0.039295819	0.368719702
TTTY9A	1.893251437	1.886901634	-0.004846808	0.590996154
TTYH1	9.444544159	9.661575423	0.032777288	0.36578628
TTYH2	3.454781159	3.601292099	0.059920294	0.011711788

TTYH3	4.813711841	4.807864465	-0.001753555	0.865786232
TUB	5.837304457	5.874242366	0.009100474	0.815629983
TUBA1A	9.67334047	9.792901817	0.017722242	0.381344806
TUBA1B	13.24854046	13.30602931	0.006246684	0.701769722
TUBA1C	10.82934603	10.92081642	0.012134591	0.287438693
TUBA3C	4.571872536	4.641949725	0.021945716	0.694161262
TUBA3D	8.277174172	8.429365169	0.026285668	0.184190741
TUBA4A	10.71276071	10.82230839	0.014677944	0.442192001
TUBA8	6.383203285	6.26402081	-0.027191588	0.316840338
TUBAL3	2.029862311	1.991745965	-0.027348218	0.512237749
TUBB	9.046982762	9.108291627	0.009743762	0.543347358
TUBB1	2.028176404	2.02406243	-0.00292935	0.559480729
TUBB2A	10.94075305	11.09476803	0.020167461	0.444242825
TUBB2B	7.765471589	8.068451268	0.055218235	0.111036068
TUBB2C	12.32939147	12.48895708	0.018551411	0.110407557
TUBB3	9.838811325	10.02319114	0.026785969	0.539692647
TUBB4	5.350954755	5.442188739	0.024390661	0.327972084
TUBB6	10.60405448	10.63708085	0.004486297	0.673892608
TUBD1	4.323709649	4.29785962	-0.008651284	0.752563232
TUBE1	2.943937185	2.948128915	0.002052723	0.853864423



TUBG1	4.604069212	4.640783352	0.011458828	0.841975961
TUBG2	5.067648503	5.089778859	0.006286514	0.76253438
TUBGCP2	7.003853033	7.024337542	0.004213362	0.487689086
TUBGCP3	4.561484887	4.597654676	0.011394574	0.515796558
TUBGCP4	4.097133828	4.17663857	0.027727286	0.328313435
TUBGCP5	3.410283689	3.521541972	0.046315521	0.112903833
TUBGCP6	6.664746291	6.624706507	-0.008693416	0.448364028
TUFM	10.33404911	10.29678344	-0.005211914	0.533323373
TUFT1	6.093989232	6.063652401	-0.007199897	0.594813059
TUG1	8.325400212	8.311251415	-0.002453908	0.742632443
TULP1	9.309022086	9.434809739	0.019363805	0.554846947
TULP2	2.145015728	2.146289282	0.000856312	0.969184122
TULP3	4.665734821	4.618050683	-0.014820307	0.400388961
TULP4	7.588488099	7.586828683	-0.000315517	0.939511783
TUSC1	6.307113152	6.312739408	0.001286381	0.787366836
TUSC2	9.025495066	9.080876345	0.008825462	0.900085886
TUSC3	6.196740993	6.179588155	-0.003998977	0.686534749
TUSC4	7.594236596	7.526171268	-0.012988826	0.17370775
TUSC5	2.173915358	2.140880592	-0.022091438	0.454582575
TUT1	3.951598457	4.07815457	0.045480103	0.068262062

TWF1	7.147738053	7.144037676	-0.000747075	0.847375457
TWF2	6.536500252	6.605363669	0.015119593	0.4038761
TWIST1	3.305791543	3.196939479	-0.048304321	0.273910362
TWIST2	5.045444695	4.828284754	-0.063470668	0.30271141
TWISTNB	6.017900649	6.009048493	-0.002123725	0.951592709
TWSG1	2.81270043	2.842768655	0.015340792	0.533327669
TXK	2.281384146	2.214655951	-0.0428268	0.089821361
TXLNA	3.81125406	3.801178789	-0.003818898	0.708479777
TXLNB	2.681034258	2.749289282	0.036269062	0.641467093
TXN	9.719128106	9.723483662	0.000646388	0.871214742
TXN2	8.511526265	8.569659669	0.009820056	0.162844449
TXNDC1	9.479879272	9.489660817	0.001487837	0.77994499
TXNDC10	3.761557854	3.801046134	0.015066256	0.436479943
TXNDC11	6.766348517	6.835832725	0.014739606	0.034071729
TXNDC12	4.866904947	4.870687141	0.001120719	0.734303743
TXNDC13	8.082021834	8.190944113	0.019313502	0.215100563
TXNDC14	6.713238834	6.69180438	-0.004613697	0.794274971
TXNDC15	8.003694185	8.07757669	0.013256499	0.052062149
TXNDC16	4.513477258	4.499950211	-0.004330299	0.739505861
TXNDC17	8.955905841	8.965972239	0.001620672	0.882636266

TXNDC2	2.04576096	2.109681408	0.044387567	0.200660701
TXNDC3	2.260500947	2.210674577	-0.032155853	0.430405135
TXNDC4	5.766633245	5.696427162	-0.017671936	0.055753754
TXNDC5	8.012463695	7.920844613	-0.016591639	0.424779751
TXNDC6	2.93823355	3.064529035	0.060716299	0.098777236
TXNDC9	6.48500504	6.503744486	0.004162883	0.787897644
TXNIP	11.31838793	11.13750521	-0.023242384	0.722383008
TXNL1	10.08401098	10.06158891	-0.003211443	0.72290034
TXNL4A	9.099640391	9.093393451	-0.000990756	0.669365716
TXNL4B	3.26702355	3.224447479	-0.018924884	0.541519355
TXNRD1	3.409584007	3.334288683	-0.032216713	0.267310031
TXNRD2	2.915270848	2.989915993	0.036475024	0.08286804
TXNRD3	3.343662788	3.409303915	0.028047854	0.5342349
TYK2	6.918709656	6.864678718	-0.011310799	0.123286337
TYMP	7.61354049	7.541585817	-0.01369958	0.895718793
TYMS	5.590676795	5.785325162	0.049375105	0.232967255
TYR	7.315381166	6.723980732	-0.121617447	0.074095401
TYR03	5.903130742	5.849272655	-0.013223055	0.485096961
TYROBP	9.964240152	9.807326303	-0.022899914	0.198483135
TYRP1	9.590462834	9.112053113	-0.073824285	0.187630843

TYSND1	4.040394033	4.123639169	0.029422102	0.309230177
TYW1	6.67982155	6.703722148	0.005152792	0.480364416
TYW3	6.396583073	6.360747472	-0.008105141	0.248450732
U2AF1	9.999244801	10.09571693	0.013852321	0.033319811
U2AF1L4	4.293501172	4.359376634	0.021967267	0.180122503
U2AF2	4.682112113	4.626531697	-0.017228405	0.252718258
UACA	4.596754589	4.56248831	-0.010794784	0.875019682
UAP1	4.433722331	4.50365907	0.022579197	0.550694018
UAP1L1	5.116259026	5.001825923	-0.032634458	0.122449383
UBA1	6.006413384	6.040080528	0.008064014	0.488554699
UBA2	7.415446921	7.403608289	-0.002305078	0.939511754
UBA3	4.698350993	4.80299643	0.031780241	0.245634977
UBA5	6.610175609	6.678820444	0.014904729	0.177004178
UBA52	11.36346574	11.27904001	-0.010758628	0.075440976
UBA6	3.253218457	3.17321388	-0.035922939	0.090870845
UBA7	5.406958795	5.144482444	-0.071791419	0.159136041
UBAC1	8.087179457	8.066486592	-0.00369619	0.90008598
UBAC2	5.619218596	5.6859175	0.017023642	0.337613569
UBAP1	6.148967	6.225291739	0.017797384	0.256746915
UBAP2	6.04834953	6.075455606	0.006451088	0.421983162

UBAP2L	4.380840417	4.430779458	0.016352856	0.154289788
UBASH3A	2.321478007	2.180424585	-0.090434521	0.022003892
UBASH3B	2.101039285	2.087697254	-0.009190622	0.750469259
UBB	13.74507738	13.70324368	-0.004397597	0.522086294
UBC	13.93911135	13.95834054	0.001988846	0.651451188
UBD	5.531654967	5.872668021	0.086304913	0.177004643
UBE2A	8.545230278	8.445238852	-0.016981144	0.001786234
UBE2B	6.030642854	5.966035303	-0.015539284	0.116071365
UBE2C	3.800696808	3.702944972	-0.037590832	0.463790005
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UBE2D1	4.956917185	4.977472423	0.005970167	0.5608744
UBE2D2	6.761547358	6.766251155	0.001003289	0.836583796
UBE2D3	8.326127079	8.170576246	-0.027207747	0.001645106
UBE2D3P	2.045796026	2.077495965	0.022183365	0.912658272
UBE2D4	6.091132649	6.142555099	0.012128371	0.273305375
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UBE2E1	2.926100815	2.942728866	0.008175147	0.783124131
UBE2E2	3.505896788	3.578936746	0.029747522	0.299487092
UBE2E3	8.906335179	9.035858528	0.020829776	0.01132697
UBE2F	7.823396146	7.784492401	-0.00719205	0.406991012

UBE2G1	5.200364358	5.200716958	9.78E-05	0.593380383
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UBE2NL	4.06977296	4.100181134	0.010739332	0.330708246
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UBE2Q2	3.479368735	3.445724732	-0.014018126	0.658848311
UBE2R2	7.840307464	7.886348204	0.008447179	0.096681271
UBE2S	7.928151245	8.000465908	0.013099533	0.127194164
UBE2T	5.78606306	5.801754958	0.003907317	0.821527501
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UBE3B	3.409917636	3.470924197	0.025582966	0.173926913
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UBE4B	7.349761119	7.455838754	0.020673299	0.024782621
UBFD1	7.190890874	7.07714562	-0.023002912	0.021294592
UBIAD1	5.914249543	5.868681246	-0.011158766	0.274818955
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UBL4A	3.680342828	3.723941951	0.016990423	0.29756301
UBL4B	4.630529629	4.484614197	-0.046193337	0.565065092
UBL5	11.25462189	11.22771966	-0.003452641	0.604396793
UBL7	4.503662139	4.586433676	0.026274176	0.140425339
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UBN2	2.106038305	2.183956324	0.052412328	0.153493581
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UBP1	7.902090828	7.808362225	-0.017214449	0.016769983
UBQLN1	5.615651927	5.628228063	0.003227273	0.875019445
UBQLN2	7.484080344	7.515013246	0.005950601	0.44506741
UBQLN3	2.066306735	2.10747312	0.028459798	0.319515944
UBQLN4	2.576588192	2.516596789	-0.033987889	0.315840749
FAM22A	2.77745347	3.170708768	0.191042628	8.77E-06
UBR1	6.447991576	6.446884697	-0.000247678	0.971384255
UBR2	6.028084358	5.93051662	-0.02354182	0.021923856
UBR3	4.555883503	4.662342408	0.033324105	0.194422379
UBR4	6.853355325	6.785596408	-0.014334864	0.079498964
UBR5	3.952789338	3.957408775	0.001685025	0.78736701
UBR7	6.437261755	6.506670972	0.015472468	0.195372611
UBTD1	5.981224305	6.094685838	0.027111035	0.268502046
UBTD2	3.152741503	3.047559127	-0.048952675	0.00856318
UBTF	4.278715411	4.282466401	0.001264203	0.588140855
UBXN1	10.21225634	10.17751154	-0.004916799	0.290258904
UBXN10	2.881005192	2.931083345	0.024861731	0.278167998
UBXN11	3.900266073	3.952988739	0.019371299	0.474804051
UBXN2A	3.53793455	3.505698972	-0.013205239	0.739505861
UBXN2B	4.484389477	4.424163049	-0.019507028	0.179003964



UBXN4	5.75851943	5.818393415	0.01492292	0.278167826
UBXN6	8.695044033	8.784860134	0.014825983	0.062908312
UBXN7	3.869886424	3.950403507	0.029708797	0.460010938
UBXN8	6.224778563	6.057087127	-0.039398353	0.017410893
UCA1	2.008938795	2.014525014	0.004006108	0.86795718
UCL1	11.5099148	11.62290501	0.014093545	0.631106902
UCL3	6.225183351	6.270487056	0.010461178	0.488121711
UCL5	5.831247954	5.919434465	0.02165468	0.472249754
UCL5IP	5.065225437	4.983017613	-0.023606807	0.124973956
UCK1	6.943792477	6.952676873	0.00184471	0.937316618
UCK2	5.644155748	5.616359401	-0.00712254	0.303683601
UCKL1	5.919907775	5.921588761	0.000409602	0.851159579
UCN	4.417489119	4.410949401	-0.00213737	0.563666213
UCN2	7.465908159	7.545815423	0.015359049	0.286505626
UCN3	2.252129185	2.19066712	-0.039919307	0.286506085
UCP1	1.945300503	1.963675915	0.013563812	0.511793699
UCP2	4.361806921	4.33419307	-0.009162488	0.851159562
UCP3	5.289119026	5.279640148	-0.002587841	0.947198208
UCRC	10.33410912	10.36284846	0.004006593	0.697728947
UEVLD	3.446867894	3.520446704	0.030472495	0.0591025

UFC1	6.878263238	6.863524387	-0.003094747	0.971934332
UFD1L	7.816069411	7.820446577	0.000807714	0.568333979
UFM1	4.909215444	4.870595056	-0.01139444	0.376115023
UFSP2	8.207993517	8.287639768	0.013931705	0.208787031
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UGP2	8.24719057	8.185503958	-0.010831503	0.161807885
UGT1A6	2.049729649	2.077124859	0.019154305	0.698751939
UGT1A8	1.935611437	1.937086338	0.001098889	0.681974115
UGT2A1	2.220916781	2.169997021	-0.033462273	0.1219494
UGT2A3	1.776997768	1.796107451	0.015431791	0.388895135
UGT2B10	2.701598391	2.718531549	0.009014346	0.954889585
UGT2B11	2.053158735	2.024415761	-0.020339559	0.676415831
UGT2B15	2.054338927	2.065846662	0.008058955	0.690598221
UGT2B17	2.121564258	2.059833028	-0.04260098	0.050092517
UGT2B28	1.960181311	1.971223577	0.008104311	0.499007037
UGT2B4	1.906091881	1.919852563	0.010377858	0.49289537
UGT2B7	2.37594645	2.374147732	-0.001092611	0.882092089

UGT3A1	2.014563152	2.027591514	0.009299999	0.89080937
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UGT8	2.319476748	2.324482838	0.00311039	0.75203961
UHMK1	4.377470404	4.243041901	-0.044998499	0.030459823
UHRF1	2.548731689	2.42782338	-0.070116033	0.004045328
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UHRF2	6.265135391	6.147784141	-0.027279176	0.058272887
UIMC1	8.307022868	8.246805387	-0.010496163	0.060506288
ULBP1	2.003920411	1.946002746	-0.042311464	0.569738671
ULBP2	2.203725424	2.151807908	-0.034395186	0.200175853
ULBP3	1.905320139	1.908802937	0.002634743	0.701818661
ULK1	10.19779279	10.33559441	0.019364433	0.080090793
ULK2	5.770072	5.893480979	0.030530691	0.026143247
ULK3	8.348473159	8.458611958	0.01890857	0.39922921
ULK4	3.521008887	3.74665688	0.089614993	0.085595253
UMOD	2.610533483	2.662870732	0.028637732	0.298844446
UMODL1	2.052987377	2.024179845	-0.02038728	0.438516297
UMPS	6.679865808	6.630024056	-0.010805016	0.86578628
UNC119	9.99409594	10.14898804	0.02218791	0.476510139

UNC119B	6.626810344	6.648611838	0.004738521	0.866871588
UNC13A	3.939864199	4.08025188	0.050512312	0.482082705
UNC13B	5.75360857	5.762571507	0.002245673	0.981837695
UNC13C	2.277169748	2.389759937	0.06962386	0.10782646
UNC13D	3.670776192	3.614850345	-0.022149235	0.293423354
UNC45A	7.603181245	7.529559754	-0.014037668	0.122282232
UNC45B	2.045827	2.00690657	-0.027710698	0.36945508
UNC50	8.707603543	8.681244577	-0.004373835	0.976335365
UNC5A	3.20844045	3.383028577	0.076443157	0.10812899
UNC5B	8.245339351	8.273046394	0.004839801	0.693651478
UNC5C	2.651048695	2.656252099	0.002828906	0.539237745
UNC5CL	2.666833417	2.510975852	-0.086879556	0.003608789
UNC5D	2.907398689	3.101041148	0.093023749	0.119145459
UNC84A	6.948974013	6.897012261	-0.010828454	0.303359519
UNC84B	4.557207371	4.706566007	0.046524808	0.11463784
UNC93A	2.018327974	1.959430211	-0.042726438	0.239793135
UNC93B1	3.45263302	3.357415796	-0.040345781	0.205558079
UNG	2.610109649	2.515284782	-0.053388663	0.296923988
UNK	7.972054914	7.985944268	0.002511356	0.778887256
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UNQ1829	1.977898901	1.964653887	-0.00969351	0.859821367
UNQ1870	2.063966702	2.018849345	-0.031886441	0.338309212
UNQ1887	6.332444914	6.352997739	0.004674884	0.678434706
UNQ1944	1.918045417	1.902727127	-0.011568205	0.759906595
UNQ1945	2.770459689	2.819826585	0.025481066	0.281853356
UNQ3028	2.06089698	2.02092588	-0.028255979	0.903363477
UNQ3029	2.023524013	2.068413613	0.031654735	0.169814309
UNQ3104	1.922326	1.961921465	0.029414274	0.65336507
UNQ353	1.861207742	1.833056324	-0.021987977	0.762008685
UNQ565	2.442143629	2.306431359	-0.082485694	0.075900409
UNQ5814	2.390454205	2.278961394	-0.068908282	0.074656033
UNQ5815	1.945923709	1.904230655	-0.03124691	0.205064419
UNQ5836	1.949414192	1.961660282	0.009034566	0.578198015
UNQ5840	1.978529318	2.001955669	0.016981584	0.596247312
UNQ6125	1.946481927	1.928126472	-0.013669264	0.529707037
UNQ6126	1.857747762	1.79967669	-0.04581688	0.045216524
UNQ6167	2.325886709	2.243712711	-0.051892864	0.444656639
UNQ6190	2.015727132	1.946583218	-0.050356333	0.151712717
UNQ6193	2.306161993	2.316248641	0.006296273	0.827434974
UNQ6228	3.848986159	3.689872317	-0.060907589	0.194185312

UNQ6484	1.952821927	1.956082345	0.002406705	0.416422865
UNQ6487	2.158748523	2.159046761	0.000199299	0.585766322
UNQ6490	1.979295795	1.955180549	-0.017685393	0.712590009
UNQ6493	2.222958589	2.212114803	-0.007054814	0.919774289
UNQ6494	2.04256398	2.048494408	0.004182686	0.748899797
UNQ6975	1.93463747	1.935134268	0.000370423	0.544263761
UNQ9165	2.332211795	2.367572408	0.021709739	0.80173264
UNQ9368	2.829420417	2.744111817	-0.04416729	0.835506375
UNQ9374	1.912927152	1.920978521	0.006059454	0.877738582
UNQ9419	1.932328748	1.936359683	0.0030064	0.697730764
UPB1	3.668159146	3.620240627	-0.01897064	0.378351294
UPF1	9.932658305	9.92938443	-0.000475601	0.891353495
UPF2	4.27624847	4.313551817	0.012530604	0.681974223
UPF3A	6.880447517	6.922343894	0.008758211	0.497256213
UPF3B	6.032405212	6.015696296	-0.004001607	0.734303773
UPK1A	2.075067907	2.052167331	-0.016010179	0.599120578
UPK1B	1.806437768	1.832688444	0.020813994	0.461688012
UPK2	2.295850834	2.396594493	0.061956913	0.005609999
UPK3A	2.159209046	2.077828986	-0.055426007	0.066199636
UPK3B	2.589444033	2.536579127	-0.029758212	0.321532279

UPP1	5.240761483	5.187452542	-0.014750218	0.21999063
UPP2	2.128304073	2.106957993	-0.014542734	0.859279529
UPRT	4.899568437	4.924245317	0.007247956	0.509134278
UQCC	6.099301795	6.101037077	0.000410396	0.915394342
UQCR	10.53638215	10.55621158	0.002712595	0.519363022
UQCRB	9.69161943	9.717437162	0.003838119	0.705401402
UQCRC1	8.926099066	9.018209014	0.014811129	0.148972582
UQCRC2	10.03642885	10.12195392	0.012241789	0.106920587
UQCRFS1	9.901871417	9.982045958	0.011634331	0.220247688
UQCRH	11.56316364	11.59960966	0.004540091	0.870126837
UQCRQ	12.51077838	12.60807813	0.011176828	0.113833397
URB1	3.29437547	3.352469507	0.025219217	0.070806453
URB2	3.867597583	3.952008493	0.031148355	0.422382226
URG4	7.355836954	7.411929437	0.010959645	0.284327908
URM1	6.968266801	6.922522972	-0.009501927	0.259651621
UROC1	1.970451861	1.989437493	0.013834067	0.703865858
UROD	9.748305113	9.805347225	0.008417313	0.220507221
UROS	4.058706093	4.208648683	0.052337213	0.041430551
USE1	6.012323821	5.990504232	-0.005245272	0.602960967
USF1	2.852930172	2.903017746	0.025108955	0.283088598

USF2	4.301000781	4.291805507	-0.003087695	0.863074018
USH1C	3.247585066	3.460556035	0.09163655	0.061650286
USH1G	2.148513344	2.25097012	0.067208168	0.016150055
USH2A	2.405652967	2.44765762	0.024973229	0.721352192
USHBP1	3.406312497	3.199277373	-0.090464717	0.032306041
USMG5	11.28355513	11.30125075	0.002260758	0.886992127
USO1	7.650709821	7.587757162	-0.011920097	0.261405121
USP1	8.574209272	8.648056085	0.01237225	0.439331535
USP10	5.808926318	5.907334387	0.024235748	0.242840506
USP11	10.56265449	10.65280444	0.012260839	0.250432526
USP12	2.674679417	2.593870901	-0.044259305	0.367985293
USP13	4.702288874	4.75130162	0.014959624	0.551154054
USP14	5.38295696	5.35195862	-0.008331929	0.36177834
USP15	5.914534675	5.843844514	-0.017346876	0.111035983
USP16	8.500592735	8.569076768	0.011576335	0.255302062
USP17	2.837156252	2.947028817	0.054815561	0.091930091
USP18	5.263744199	5.123369979	-0.038996302	0.294057953
USP19	4.586550762	4.69107519	0.032509018	0.189255758
USP2	2.712970437	2.841312704	0.066684291	0.167466938
USP20	7.939238603	7.971235359	0.005802671	0.251860772



USP21	3.54363547	3.552809085	0.003729962	0.783654065
USP22	5.812427781	5.792252592	-0.005016368	0.582922635
USP24	4.846636821	4.823285359	-0.006967813	0.722385389
USP25	5.322069748	5.134521627	-0.051757548	0.004883995
USP26	1.844880464	1.815902951	-0.022840241	0.949944574
USP27X	2.997696371	3.029731063	0.015335474	0.53106337
USP28	2.650264364	2.587055894	-0.034825052	0.250152457
USP29	1.995409477	1.986503204	-0.006453711	0.576784069
USP3	4.293439907	4.211283	-0.027874171	0.09008265
USP30	5.280056636	5.353915324	0.020040917	0.173054618
USP31	4.26070296	4.299831789	0.013188746	0.534688442
USP32	7.054124795	7.084390401	0.006176619	0.492025472
USP33	7.603814066	7.616541655	0.002412826	0.911017038
USP34	5.359131722	5.291601676	-0.018294809	0.388135994
USP35	8.338322682	8.123724183	-0.037615946	0.000393435
USP36	4.545200351	4.36088569	-0.059722715	0.041845083
USP37	5.493936781	5.548487225	0.01425417	0.401936486
USP38	2.400673417	2.374358423	-0.015901421	0.479935641
USP39	9.771064026	9.757883035	-0.001947484	0.438104526
USP4	8.704132007	8.666246246	-0.006293206	0.174580857

USP40	4.521619258	4.467646007	-0.017324637	0.490288511
USP41	2.591427834	2.531852746	-0.033553719	0.10602545
USP42	7.484639662	7.499346732	0.002832067	0.84359499
SLC27A6	3.154681821	3.641949648	0.207216473	0.002295003
USP44	2.315065788	2.376471796	0.037768088	0.218954741
USP45	3.75536647	3.755720289	0.00013592	0.919774241
USP46	3.279544768	3.3898835	0.047740124	0.142855059
USP47	6.938014219	6.956922472	0.003926446	0.548393364
USP48	7.255069841	7.14575838	-0.02190237	0.000298165
USP49	2.234839411	2.16850262	-0.043471981	0.078323606
USP5	4.428074656	4.530461014	0.032978319	0.25790634
USP51	7.320603073	7.220357225	-0.019892287	0.131551283
USP53	6.576930589	6.45278681	-0.027492083	0.91047016
USP54	7.201472086	7.244871232	0.008668203	0.421185807
USP6	4.655240258	4.688519338	0.010276755	0.701818661
USP6NL	3.815002219	3.742168162	-0.027809506	0.046948081
USP7	6.558774781	6.598130169	0.008630904	0.324233216
USP8	5.134588311	5.090352211	-0.012483124	0.263756345
USP9X	9.885099351	9.907455042	0.00325905	0.604882919
USP9Y	2.188353192	2.11137593	-0.05166213	0.337613511

USPL1	5.940045099	5.875657352	-0.015723619	0.538781779
UST	4.340078384	4.377577754	0.012411705	0.481652781
UTF1	3.985229377	3.994735669	0.00343728	0.818845461
UTP11L	6.069169828	6.101971444	0.007776238	0.648892855
UTP14A	4.845726715	4.912312789	0.019689383	0.196326457
UTP14C	4.601613013	4.568289141	-0.010485695	0.657849659
UTP15	4.38124155	4.343034451	-0.01263636	0.436887018
UTP18	6.192909543	6.254634303	0.014308162	0.324233562
UTP20	5.583943	5.553166746	-0.007973498	0.465053455
UTP23	5.985318411	6.034046979	0.01169793	0.322880472
UTP3	7.863440868	7.784121056	-0.014626595	0.032641407
UTP6	6.325806179	6.258243648	-0.015491526	0.176121107
UTRN	6.893318669	6.766423345	-0.026805268	0.21999052
UTS2	2.167054828	2.202897042	0.023666414	0.672384341
UTS2D	2.091983	2.093393394	0.000972323	0.847915902
UTS2R	10.38477768	10.39445168	0.001343325	0.778886768
UTX	6.307218795	6.41286588	0.023965254	0.118492986
UTY	2.160473139	2.115414275	-0.030407071	0.188095835
UVRAG	3.338937152	3.330784634	-0.003526865	0.83281386
UXS1	5.82446445	5.784233225	-0.009999678	0.342501977

UXT	8.977450358	8.971497099	-0.000957019	0.943903259
VAC14	4.705566192	4.782837282	0.023498386	0.047718242
VAMP1	2.591004046	2.694911345	0.056726545	0.096958972
VAMP2	6.972571397	7.070448035	0.020110835	0.357797415
VAMP3	5.06240645	5.008086296	-0.015563921	0.707453555
VAMP4	3.993296914	3.845837077	-0.054282698	0.001039742
VAMP5	7.076417152	6.926261859	-0.030942165	0.531515693
VAMP7	6.013862245	5.979650106	-0.008230753	0.421186084
VAMP8	8.720710272	8.531789408	-0.031597286	0.260527208
VANGL1	5.280976377	5.254749176	-0.007182786	0.817773329
VAPA	7.044032338	7.080967169	0.007544895	0.277862392
VAPB	6.498824464	6.487569275	-0.002500742	0.760957323
VAR5	5.377388742	5.497060676	0.031754633	0.125143924
VAR52	7.179900742	7.098202155	-0.016510237	0.102205261
VASH1	8.017418974	8.031408585	0.002515168	0.709506396
SCGB1D1	3.927511417	4.560179915	0.215475276	1.83E-06
VASN	9.604520046	9.623132437	0.002793062	0.563665469
VASP	8.147624709	8.086081704	-0.010938748	0.406990956
VAT1	8.64316957	8.361224859	-0.047846163	0.077508995
VAT1L	8.763709735	8.91066769	0.023991838	0.077161552

VAV1	5.062387748	4.874960972	-0.054427344	0.206300268
VAV2	3.944963748	3.795942768	-0.055553802	0.018073166
VAV3	6.804741113	6.845606338	0.008638056	0.447951147
VAX2	3.911126768	4.085006338	0.062754019	0.183508427
VBP1	4.635822742	4.637271528	0.0004508	0.974684904
VCAM1	5.900272404	5.576488113	-0.081424716	0.421186417
VCAN	4.275408576	4.201253162	-0.025242573	0.659847304
VCL	5.864636868	5.792112437	-0.017952172	0.588140811
VCP	9.982546947	9.993605408	0.001597304	0.970283908
VCPIP1	4.901523185	4.959363106	0.016924711	0.447538644
VCX	4.456835583	4.723469803	0.083827296	0.053753275
VCX2	3.897818199	4.09461219	0.071060015	0.067534327
VCX3A	4.759824166	5.039489444	0.082369301	0.037156947
VCY	2.908672768	2.987750218	0.038698542	0.221551021
VDAC1	9.013588066	9.180372106	0.026451113	0.189487804
VDAC2	10.15123752	10.22160705	0.009966422	0.283705182
VDAC3	7.326751132	7.424289542	0.019079363	0.280928984
VDR	3.741275272	3.775574162	0.013165937	0.712589976
VEGFA	6.703653139	7.044102148	0.071468327	0.000255977
VEGFB	10.05900381	10.01523463	-0.006291215	0.514011687

VEGFC	6.525819086	6.432252577	-0.020834934	0.606813131
VENTX	2.885652079	2.83050538	-0.0278377	0.5122379
VENTXP1	1.873486093	1.854878549	-0.014400541	0.996697485
VEPH1	3.333148728	3.506455683	0.073127801	0.283708226
VEZF1	8.799782053	8.832323042	0.005325147	0.535596255
VEZT	7.093336291	7.054361211	-0.007948897	0.386620931
VGf	2.85443057	2.910590324	0.028108818	0.495509844
VGLL1	2.013973225	1.955371627	-0.04260168	0.297883298
VGLL2	2.16496957	2.115221155	-0.033538236	0.090870807
VGLL3	4.419225563	4.350316831	-0.022673095	0.313185525
VGLL4	6.633751285	6.681219514	0.010286537	0.404264828
VHL	12.3615778	12.3585962	-0.000348018	0.991193132
VHLL	2.031466212	2.007714458	-0.016967269	0.692633332
VIL1	2.018365192	1.995943394	-0.016116426	0.853323364
VILL	6.273331735	6.482373085	0.047290201	0.115432758
VIM	12.8561739	12.92931093	0.008184039	0.918674338
VIP	2.998408669	2.945272099	-0.025796106	0.625256967
TNC	3.095126483	3.601323641	0.218528889	4.87E-06
VIPR2	4.264083748	4.448118866	0.060959568	0.145508023
VISA	5.447152086	5.397212725	-0.013287598	0.30303532

VIT	5.381292424	4.988002915	-0.109490398	0.174364213
VKORC1	8.932226656	8.908005479	-0.003917415	0.624279402
VKORC1L1	4.80345043	4.850312697	0.01400666	0.64443311
VLDLR	6.360428795	6.430406063	0.015785813	0.287130297
VMA21	4.459652252	4.426645655	-0.010717325	0.309558518
VMAC	2.560689861	2.514940972	-0.026007992	0.290265405
VM01	8.757153821	8.581048944	-0.02930804	0.483803233
VN1R1	2.806445053	2.863624444	0.029098486	0.491591246
VN1R2	1.867442781	1.858116542	-0.007223048	0.617461366
VN1R3	1.948004377	1.905623373	-0.031733906	0.12979522
VN1R4	1.858535397	1.879669746	0.01631304	0.583870084
VN1R5	2.060524682	1.993161465	-0.047953158	0.214591016
VNN1	2.309601868	2.188857106	-0.077466405	0.098495824
VNN2	5.409470828	5.105473542	-0.083442692	0.260820112
VNN3	2.072116457	2.027368211	-0.031496952	0.031863257
VPRBP	4.910520755	4.983385993	0.021250295	0.250436594
VPREB1	2.025823192	2.015219282	-0.007571434	0.89899396
VPREB3	3.368369523	3.511778155	0.060151294	0.048656356
VPS11	7.005765993	7.027932303	0.004557494	0.361415013
VPS13A	5.390723404	5.409176155	0.004929994	0.630150382

VPS13B	5.987732881	6.000374838	0.003042765	0.713104191
VPS13C	5.034580715	4.918546894	-0.033639477	0.401162219
VPS13D	4.406863384	4.372563556	-0.011272818	0.131198724
VPS16	8.024010603	8.044357373	0.003653663	0.301095712
VPS18	9.325659033	9.485837754	0.02456951	0.029519452
VPS24	7.629695642	7.593285683	-0.00690122	0.150533141
VPS25	7.774431046	7.808980472	0.006397106	0.19824384
VPS26A	7.608907404	7.610643796	0.000329193	0.767798177
VPS26B	5.930022464	5.951127951	0.005125567	0.938962966
VPS28	11.32060234	11.35206477	0.004004003	0.660339319
VPS29	7.089813828	7.067342803	-0.004579855	0.479935013
VPS33A	5.222420093	5.403876014	0.049276061	0.028906758
VPS33B	5.511760735	5.687341042	0.045241056	0.006039979
VPS35	9.262253728	9.305425211	0.006708797	0.919774079
VPS36	5.483670841	5.431517437	-0.013786667	0.421983218
VPS37A	6.149463868	6.154831746	0.001258782	1
VPS37B	7.17580198	7.203239697	0.005505834	0.89135468
VPS37C	8.493359358	8.478682465	-0.002495196	0.911564137
VPS37D	3.95564349	4.124625972	0.060350893	0.114320934
VPS39	4.98749149	5.079527028	0.026379789	0.005457413



VPS41	5.160870742	5.150071408	-0.003022061	0.787897693
VPS45	5.378138325	5.389315725	0.002995246	0.749945866
VPS4A	8.056289026	8.129405697	0.013034445	0.130495118
VPS4B	6.117473642	6.180012585	0.014673796	0.283088771
VPS52	4.538727258	4.595331063	0.017881006	0.33622504
VPS53	3.356003225	3.368422542	0.005329022	0.684506451
VPS54	5.433788298	5.3717905	-0.016555318	0.113531493
VPS72	6.933638623	6.950051155	0.003410951	0.527450367
VPS8	3.833290755	3.796924458	-0.013752135	0.599120752
VRK1	5.432628305	5.541419592	0.028605268	0.197043984
VRK2	5.455451675	5.328005725	-0.034103014	0.41208394
VRK3	6.08248351	6.193526535	0.026100596	0.222334294
VSIG1	2.088702914	2.063788415	-0.017312236	0.563200539
VSIG2	2.814158411	2.770012845	-0.022810875	0.591472567
VSIG4	9.244234424	9.01242588	-0.036638356	0.273909618
VSNL1	5.53839351	5.791943444	0.064579952	0.425180248
VSTM2A	3.190887205	3.268024275	0.034461088	0.65535702
VSTM2B	2.076126874	2.188832028	0.076266635	0.026705358
VSTM2L	4.721951417	4.962324176	0.071632788	0.074656102
VSX1	3.183957762	3.377102106	0.084964602	0.1098047

VTA1	3.642138629	3.681147951	0.015369899	0.526099136
VTCN1	1.944687556	1.966563725	0.016138554	0.552076878
VTI1A	4.15288094	4.049889352	-0.036230019	0.043539245
VTI1B	9.433289285	9.426015155	-0.00111291	0.948296282
VTN	4.619393179	4.911208873	0.088374835	0.032194848
VWA1	8.008572616	8.021609528	0.00234661	0.882091907
VWA3A	1.995931311	1.908638556	-0.06451815	0.059102652
VWA3B	2.004849013	1.964351761	-0.029440291	0.342502035
VWA5A	4.334311775	4.267285155	-0.022484413	0.551155099
VWA5B1	1.925925126	1.943817331	0.013341032	0.859821417
VWA5B2	2.63402496	2.521795366	-0.062817805	0.120788625
VWC2	3.603854066	3.762696373	0.062226285	0.405042844
VWC2L	2.190076503	2.077702049	-0.075992486	0.082379771
VWCE	6.991478344	6.914579486	-0.015956029	0.327971911
VWDE	2.040047894	2.037087148	-0.002095322	0.934024896
VWF	10.46661184	10.14337785	-0.045256337	0.258484828
WAC	9.352283483	9.309319739	-0.006642912	0.52789994
WAPAL	7.401713563	7.535751528	0.02589209	0.677929797
WARS	8.353425649	8.329812979	-0.004083848	0.500760054
WARS2	4.540604536	4.653276873	0.03536264	0.065087231

WAS	3.037169934	3.007607549	-0.014111304	0.673895027
WASF1	6.271787477	6.243228387	-0.006584431	0.675407029
WASF2	7.576464338	7.461734592	-0.022013706	0.379098325
WASF3	7.737993735	7.805439894	0.01252038	0.549773234
WASH1	10.26355209	10.24190696	-0.003045758	0.731704033
WASH2P	11.98939223	12.01094736	0.00259142	0.850614872
WASH5P	2.873086656	2.854851627	-0.00918574	0.47736581
WASL	2.698442305	2.65222607	-0.024923088	0.460010884
WBP1	8.669632834	8.644009563	-0.004270227	0.730150471
WBP11	6.180590682	6.185765106	0.001207327	0.862531609
WBP2	6.210083305	6.331236472	0.02787466	0.071671683
WBP2NL	1.892475993	1.827290599	-0.050568912	0.251290639
WBP4	5.96736406	5.889576979	-0.018929781	0.040341458
WBP5	7.810008656	7.599455444	-0.039428105	0.008493931
WBSCR16	4.479993464	4.452618824	-0.008842515	0.92306076
WBSCR17	3.847555848	3.895406711	0.017831697	0.693142561
WBSCR19	2.849123232	2.848948261	-8.86E-05	0.892445415
WBSCR22	5.663201954	5.791578599	0.032338656	0.039939594
WBSCR23	3.056217411	2.998727704	-0.02739665	0.364691053
WBSCR27	2.719169424	2.614890838	-0.056415324	0.055930806

WBSR28	1.985641093	1.934957761	-0.037302804	0.325589702
WDFY1	4.57282749	4.500207387	-0.023095006	0.47182481
WDFY2	4.301393384	4.253832972	-0.016040693	0.113847063
WDFY3	5.426565828	5.487961768	0.016230946	0.120458581
WDFY4	4.538425033	4.408657761	-0.04185224	0.352056544
WDHD1	2.745084576	2.817578352	0.03760513	0.029726482
WDR1	8.915337377	8.922123493	0.001097723	0.873388253
WDR12	6.129202007	6.089439099	-0.009389907	0.292789789
WDR13	7.711493033	7.701058613	-0.001953432	0.975785174
WDR16	3.521737046	3.633018542	0.044881536	0.347081584
WDR17	2.092588318	2.113611958	0.014422021	0.584817801
WDR18	8.659635013	8.761555415	0.016880791	0.050092216
WDR19	4.639036728	4.623404162	-0.004869785	0.548853019
WDR20	4.16239353	4.185973458	0.008149794	0.788428672
WDR21A	5.905931967	5.846576014	-0.014572765	0.220509808
WDR21C	2.312457728	2.329623345	0.010669724	0.364326129
WDR22	7.695151245	7.637355669	-0.010876471	0.019607748
WDR23	7.795818669	7.920616507	0.022912194	0.036410249
WDR24	5.641202828	5.702498437	0.015591336	0.312854651
WDR25	5.468168609	5.622131197	0.040059392	0.000563581

WDR26	6.908943974	6.810140113	-0.020780732	0.048972392
FNDC1	2.410961616	2.824315254	0.228292451	4.13E-07
WDR3	6.018427755	5.948906627	-0.016762115	0.124804303
WDR31	3.560138179	3.768713148	0.082138753	0.129970172
WDR32	5.630555894	5.643894923	0.003413764	0.768852335
WDR33	4.846507358	4.897122106	0.014988727	0.093537087
WDR34	7.396812172	7.401630796	0.000939532	0.990092682
WDR35	3.420025669	3.40055781	-0.008235735	0.774129519
WDR36	4.233900603	4.198104937	-0.012249171	0.439331971
WDR37	7.498205662	7.542921923	0.008578096	0.562734678
WDR38	2.143900219	2.056497042	-0.060048765	0.331394574
WDR4	4.99223055	4.906515908	-0.024985624	0.083727985
WDR40A	3.833857834	3.865269592	0.011772201	0.737423634
WDR40B	1.99466343	1.971701211	-0.016704389	0.434449811
WDR41	5.638803623	5.494474218	-0.037407668	0.005976815
WDR42A	3.904783437	4.017171296	0.040937443	0.198967022
WDR43	5.103188881	5.191499683	0.024752314	0.0513162
WDR44	5.333524967	5.311053049	-0.006091396	0.535596547
WDR45	8.217390834	8.243922296	0.004650521	0.449602778
WDR45L	9.396028834	9.417255458	0.003255525	0.799599163

WDR46	4.298114616	4.251505599	-0.015730117	0.620379682
WDR47	4.51825343	4.550179662	0.010158316	0.993945431
WDR48	4.565745318	4.567774359	0.000640999	0.92086956
WDR49	1.950427172	1.919778296	-0.022850418	0.363232841
WDR5	3.645821404	3.664234331	0.007267877	0.663347939
WDR51A	3.242673351	3.242665768	-3.37E-06	0.680456364
WDR51B	4.105475397	4.085195852	-0.007144044	0.385109145
WDR52	2.664311291	2.674525627	0.005520374	0.961485545
WDR53	4.82042706	4.811706845	-0.002612217	0.912111215
WDR54	8.093121662	8.304190211	0.037143206	0.125653737
WDR55	4.835272285	4.804035479	-0.009350328	0.457083266
WDR59	6.970224609	7.011079648	0.008431478	0.716193386
WDR5B	3.029354556	3.081989254	0.02485139	0.43121256
WDR6	10.16075773	10.08783825	-0.010390945	0.238962904
WDR60	5.394044	5.478935704	0.022528384	0.109651308
WDR61	7.593724894	7.687314373	0.017671935	0.047951247
WDR62	3.900197642	3.966241169	0.02422517	0.573021489
WDR63	2.324251801	2.336120845	0.007348531	0.573960985
WDR64	2.473511815	2.47216143	-0.000787838	0.883180971
WDR65	1.923642762	1.91781731	-0.004375605	0.802265978

WDR66	2.97381294	3.026716092	0.025439454	0.271798416
WDR67	6.021106099	5.769638711	-0.061547558	0.00034408
WDR68	7.056618033	7.043297162	-0.002725968	0.766217989
WDR69	2.182473457	2.222314768	0.026099066	0.707453588
WDR7	7.530734523	7.638151437	0.020432936	0.288381356
WDR70	7.023854106	7.029324704	0.00112322	0.800665985
WDR72	2.07246447	2.034406592	-0.026739327	0.533327767
WDR73	7.171043669	7.196774331	0.005167317	0.619892802
WDR74	7.328660437	7.309373556	-0.003801754	0.796936319
WDR75	5.36012596	5.366514056	0.001718353	0.868500015
WDR76	2.319496126	2.437363514	0.071509998	0.027374248
WDR77	5.013495987	5.045073155	0.009058221	0.628190962
WDR78	3.493870192	3.553680394	0.024487928	0.148585517
WDR79	3.096681099	3.167645641	0.032688133	0.379472636
WDR8	6.28125198	6.303120937	0.005014198	0.670874756
WDR82	7.598041901	7.603442606	0.001025107	0.90281703
WDR85	6.887001854	6.815278852	-0.015103378	0.093672213
WDR87	1.892359881	1.899822739	0.005678336	0.917036581
WDR88	1.897012894	1.8817085	-0.011686331	0.592426101
WDR89	4.635220126	4.714772176	0.024550206	0.223119549

WDR90	6.375992907	6.379185056	0.000722106	0.99779832
WDR91	7.166009662	7.046536415	-0.024255685	0.194185205
WDR92	6.386142099	6.405963746	0.004470978	0.578669376
WDR93	3.247635199	3.302483915	0.024161949	0.421186361
WDSOF1	6.565775219	6.53086493	-0.007691289	0.248734082
WDSUB1	5.308460801	5.320218592	0.003191913	0.932379417
WDTC1	4.485455351	4.526744113	0.013219305	0.443014421
WDYHV1	5.287204795	5.357451387	0.019041645	0.346374398
WEE1	2.984681735	2.999058183	0.00693241	0.812952877
WFDC1	8.287504887	8.160759831	-0.022234331	0.437701112
WFDC10A	1.886363649	1.844088303	-0.032700083	0.353128732
WFDC10B	4.373538616	4.363858197	-0.00319681	0.828510108
WFDC11	2.369799497	2.462731141	0.055494135	0.247040353
WFDC12	1.931895715	1.926796394	-0.00381309	0.454166517
WFDC13	1.975852702	1.858922859	-0.088008496	0.01534495
WFDC2	5.211683815	5.290596979	0.021680962	0.235136449
WFDC3	4.470765649	4.559688282	0.028413276	0.056285962
WFDC5	2.240467364	2.206403155	-0.022103287	0.600079494
WFDC6	1.875908483	1.877400514	0.001147012	0.205557809
WFDC8	1.916753305	1.907412324	-0.007047923	0.719803062



WFDC9	1.98043094	1.968006092	-0.009079708	0.625745418
WFIKKN1	3.561913152	3.536714317	-0.010242653	0.771489832
WFIKKN2	4.241421603	4.388699106	0.049245465	0.320187019
WFS1	7.722702417	7.736096169	0.002499949	0.702841568
WHDC1	7.552171834	7.61332057	0.011634236	0.536051013
WHDC1L1	1.87724447	1.90773469	0.023244007	0.432829379
WHSC1	4.757225086	4.877963493	0.036158674	0.321531932
WHSC1L1	6.183059901	6.093283521	-0.021101112	0.012155201
WHSC2	4.367214444	4.364246866	-0.000980663	0.845754876
WIBG	7.118323603	7.216319697	0.019725734	0.024255936
WIF1	7.648380159	8.157259183	0.092930258	0.026799964
WIPF1	4.667502967	4.440321444	-0.07198682	0.128230133
WIPF2	6.631759119	6.596342282	-0.007725344	0.303035205
WIPI1	8.066101781	7.994592535	-0.012847105	0.590043591
WIPI2	9.514041596	9.517617155	0.000542091	0.990092608
WISP1	2.664549424	2.715109845	0.027118973	0.978536193
WISP2	5.052237974	5.000402077	-0.01487849	0.793211264
WISP3	1.919344742	1.923791225	0.003338379	0.940060657
WIT1	1.98639202	1.962348331	-0.017569218	0.949944627
WIZ	8.304001841	8.389230732	0.014731762	0.011106038

WNK1	6.331214987	6.310346085	-0.004763255	0.456665492
WNK2	3.971268563	4.174145704	0.071881032	0.188095835
WNK3	2.754491311	2.80650988	0.026991226	0.432424873
WNK4	4.112183808	3.835785268	-0.100382793	0.07134628
WNT1	2.08561304	2.068095782	-0.012168504	0.723419124
MTTP	3.548415854	4.174734507	0.234509357	0.001811585
WNT10B	2.382501954	2.415061951	0.0195828	0.625745501
WNT11	2.945728722	3.011708324	0.03195748	0.308573724
WNT16	1.915808748	1.859652641	-0.042920377	0.277251864
WNT2	2.182967364	2.057460951	-0.085425512	0.060412459
WNT2B	3.416069305	3.474924768	0.024644499	0.459173521
WNT3	5.369720192	5.368719352	-0.000268923	0.622815987
WNT3A	2.003706894	2.00434293	0.000457881	0.906095925
WNT4	3.091276722	3.026166606	-0.030711388	0.290580063
WNT5A	3.015071132	3.070115958	0.026101108	0.60729537
WNT5B	4.657512974	4.752682423	0.029182215	0.210793197
WNT6	11.26981707	11.2428833	-0.003452027	0.395377538
WNT7A	2.024629371	1.901786972	-0.09030218	0.034364309
WNT7B	1.92740802	1.944087331	0.012431015	0.56366612
WNT8A	1.959542834	1.934256401	-0.018738061	0.184647341

WNT8B	2.04618194	2.110295077	0.044510311	0.113532095
WNT9A	2.12191547	2.06942438	-0.036137654	0.399230222
WNT9B	2.022874682	1.950699676	-0.052415265	0.440148899
WRB	7.542300113	7.582290331	0.007629142	0.902270801
WRN	4.662329868	4.618637831	-0.013583659	0.557625305
WRNIP1	6.153072947	6.166219704	0.003079198	0.752039582
WSB1	9.571694583	9.421752155	-0.022778982	0.0328098
WSB2	7.797015318	7.903103655	0.019497361	0.023781518
WSCD1	3.406776947	3.693760606	0.116682875	0.023953265
WSCD2	3.408054298	3.471653542	0.026674658	0.488554803
WT1	1.95097947	1.93496262	-0.011892901	0.459173254
WTAP	6.734440854	6.745493437	0.002365814	0.992294223
WWC1	7.885896523	8.091168606	0.037073306	0.101195964
WWC2	6.301108079	6.277887965	-0.005326273	0.461688386
WWC3	7.920293861	7.708177718	-0.039164124	0.103661018
WWOX	5.915198464	5.901764063	-0.003280327	0.826897336
WWP1	6.591553298	6.600854204	0.002034257	0.95763753
WWP2	4.833323305	4.922779134	0.026457512	0.021178414
WWTR1	5.015060238	4.835610317	-0.052569042	0.518474109
XAB2	3.577898841	3.574323824	-0.001442254	0.9071892

XAF1	4.553690861	4.276123937	-0.090732686	0.138210907
XAGE1D	2.01941253	1.989073683	-0.021838937	0.843055215
XAGE3	2.128202728	2.110633648	-0.0119594	0.782064362
XAGE5	1.929204755	1.948427732	0.014304152	0.724970753
XBP1	8.436347411	8.127337711	-0.053835664	0.001998002
XCL1	3.055551868	2.881631986	-0.084546871	0.085469663
XCL2	2.680491861	2.559182563	-0.066814686	0.213573554
XCR1	2.652411682	2.648291183	-0.002242957	0.932379433
XDH	2.024377669	1.986550324	-0.027213124	0.714133631
XG	2.067431967	2.024513542	-0.030264562	0.292789731
XIAP	6.018795768	6.104643944	0.020432288	0.303683832
XIRP1	2.090541543	2.118013345	0.018834967	0.573490894
XIRP2	1.976520636	1.946466345	-0.022105617	0.242006809
XIST	7.434710298	8.171282197	0.13628595	0.193710858
XK	4.169869649	4.463204831	0.098077733	0.043971687
XKR3	1.954919709	1.898778831	-0.042037484	0.161808285
XKR4	4.79445649	4.757151521	-0.0112693	0.632112407
XKR5	1.95328094	1.961904641	0.006355454	0.803866775
XKR6	2.780869603	2.937385437	0.078996488	0.055051192
XKR8	8.452046629	8.422332817	-0.00508084	0.536504652

<b>XKRX</b>	2.106876523	2.032865535	-0.051590975	0.19632651
<b>XKRY2</b>	1.879353848	1.858165268	-0.016357903	0.595290968
<b>XPA</b>	6.119513642	6.231568676	0.026178382	0.032417562
<b>XPC</b>	4.753609371	4.714154676	-0.012024259	0.687549677
<b>XPNPEP1</b>	4.69080604	4.806146606	0.035044809	0.048185475
<b>XPNPEP2</b>	2.411845629	2.430366254	0.011036173	0.776243112
<b>XPNPEP3</b>	3.394471808	3.369459824	-0.01066978	0.423180297
<b>XP01</b>	7.472838444	7.276313113	-0.038448707	0.002463798
<b>XP04</b>	4.468049139	4.494484338	0.008510549	0.578197879
<b>XP05</b>	4.472834192	4.580325155	0.03426074	0.121783005
<b>XP06</b>	5.016601523	5.081838303	0.018640124	0.107072876
<b>XP07</b>	4.242257901	4.292027528	0.016827	0.421584873
<b>XP0T</b>	5.049761113	5.052404556	0.000755023	0.910470149
<b>XPR1</b>	5.110136212	5.236186859	0.035154835	0.206547772
<b>XRCC1</b>	8.50249004	8.528377768	0.004385933	0.509133823
<b>XRCC2</b>	2.023141126	2.106282028	0.058101664	0.024650244
<b>XRCC3</b>	2.545172464	2.433992739	-0.064438554	0.04985075
<b>XRCC4</b>	4.003742013	4.001776028	-0.00070859	0.75623219
<b>XRCC5</b>	7.150554841	7.128447183	-0.004467348	0.45001728
<b>XRCC6</b>	11.49561074	11.55325992	0.007216871	0.201621944

XRCC6BP1	4.251384894	4.205670592	-0.015597022	0.390415956
XRN1	4.915642821	4.951772915	0.010565064	0.902817076
XRN2	4.741113086	4.800750507	0.018034157	0.547474195
XRRA1	2.862981616	2.847194134	-0.007977541	0.822064052
XX-FW88277B6.1	2.235633914	2.152837493	-0.054444544	0.369087192
XYLB	2.025794291	2.004880521	-0.01497142	0.431616353
XYLT1	3.319733715	3.302710444	-0.007417033	0.738985251
XYLT2	9.561972642	9.593621444	0.004767235	0.572080525
YAF2	5.018983225	4.983056662	-0.010364145	0.81455888
YAP1	5.515007828	5.359832113	-0.041175122	0.217922306
YARS	4.450453046	4.504856092	0.017528813	0.505158685
YARS2	5.496447616	5.424998387	-0.018876789	0.128229951
YBX1	9.821648848	9.840396303	0.002751176	0.794806395
YBX2	3.595015517	3.550279176	-0.018065522	0.615519281
YDJC	6.174257119	6.086908669	-0.020555844	0.06050684
YEATS2	7.604512106	7.62667138	0.004197848	0.724453334
YEATS4	6.426938258	6.575021683	0.032864039	0.113374396
YES1	4.514642868	4.490009303	-0.007893433	0.425981848
YIF1A	9.597954887	9.60457888	0.000995327	0.888083238
YIF1B	5.821010901	5.803328662	-0.004389083	0.577255112

YIPF1	7.737358424	7.725398542	-0.002231745	0.688565097
YIPF2	3.931016424	3.962597641	0.011544093	0.299486861
YIPF3	8.027654642	7.98119543	-0.008373701	0.3520562
YIPF4	4.895871404	4.787347662	-0.032339085	0.016960157
YIPF5	6.437539046	6.326208035	-0.025168279	0.091266766
YIPF6	6.48846757	6.509497739	0.004668446	0.584343383
YIPF7	2.148075053	2.063030592	-0.058279187	0.236772548
YKT6	6.303244623	6.35126312	0.010948886	0.352056717
YLPM1	5.668470384	5.648106606	-0.005192163	0.799599935
YME1L1	7.845479848	7.76525069	-0.014829188	0.063006224
YOD1	5.545777013	5.546156261	9.87E-05	0.910470107
YPEL1	4.387477689	4.496669669	0.035465117	0.0392115
YPEL2	5.857191305	5.896345655	0.009612085	0.595769096
YPEL3	6.240050212	6.257473697	0.004022684	0.666856321
YPEL4	6.293743377	6.335889592	0.00962884	0.888083716
YPEL5	8.521282517	8.560514176	0.00662687	0.519367207
YRDC	6.658475801	6.674105894	0.003382611	0.936767949
YSK4	2.13410255	2.144184296	0.006799409	0.769379949
YTHDC1	6.507230093	6.451623669	-0.012381281	0.237045862
YTHDC2	4.091932139	4.096896514	0.001749232	0.81402335

YTHDF1	8.442377278	8.400775831	-0.007126733	0.179673137
YTHDF2	9.130524358	9.134124113	0.000568678	1
YTHDF3	3.019105252	2.922794972	-0.046772422	0.084719506
YWHAB	11.22872089	11.24572963	0.002183672	0.80546612
YWHAE	6.005548351	6.072046423	0.01588684	0.138210437
YWHAG	10.30063975	10.34217653	0.005805892	0.640478479
YWHAH	8.189855616	8.306005155	0.020316749	0.326268893
YWHAQ	10.90839352	10.96798608	0.007859995	0.357432991
YWHAZ	7.939733682	7.954752937	0.002726506	0.996697477
YY1	8.275908682	8.214048901	-0.01082419	0.302711006
YY1AP1	8.168687205	8.135651465	-0.005846366	0.282469658
ZACN	2.889347291	2.846884359	-0.02135973	0.572082633
ZADH2	6.803458424	6.812280873	0.001869617	0.974134766
ZAK	6.718954384	6.4540625	-0.058029187	0.115114125
SCGB1D2	3.233793887	3.813395007	0.23784825	3.42E-06
ZAP70	4.114104682	3.930033655	-0.066036836	0.295329391
ZAR1	2.094889139	2.062123761	-0.022742979	0.786305618
ZBBX	1.854206079	1.91615462	0.047412384	0.115591835
ZBED1	6.516875079	6.5945965	0.017104048	0.17634145
ZBED2	2.021127272	2.037867458	0.01190005	0.610192258



ZBED3	8.753809305	8.726023155	-0.004586654	0.932927796
ZBED4	3.305466762	3.330840261	0.01103216	0.62184115
ZBED5	7.434869901	7.509875035	0.014481404	0.185332893
ZBP1	2.476897331	2.398369901	-0.046479886	0.037980269
ZBTB1	3.782889967	3.792105042	0.003510115	0.913752604
ZBTB10	3.000021298	2.931957465	-0.033108569	0.186941009
ZBTB11	6.017486291	5.970625944	-0.011278763	0.659847152
ZBTB12	2.103515272	2.077335176	-0.01806828	0.744720133
ZBTB16	8.366610947	8.136612965	-0.040214983	0.106623159
ZBTB17	7.531643775	7.494879225	-0.007059536	0.505599203
ZBTB2	3.951675715	3.809916324	-0.052705248	0.015579793
ZBTB20	6.757279517	6.658268261	-0.021295536	0.18533326
ZBTB22	3.905076099	4.118935148	0.076920748	0.01210792
ZBTB24	4.925278126	4.905110775	-0.005919477	0.490288667
ZBTB25	3.109619364	3.085007718	-0.011463898	0.177004384
ZBTB26	3.416468854	3.437865197	0.009007001	0.827434934
ZBTB3	6.140260808	6.203588056	0.014802953	0.300451805
ZBTB32	2.821446881	2.789129282	-0.016620381	0.679445391
ZBTB33	4.51136594	4.497911197	-0.004309137	0.826360083
ZBTB34	5.475928371	5.45248493	-0.006189698	0.383601033

ZBTB37	2.800338914	2.861683275	0.031262565	0.567399391
ZBTB38	7.799147424	7.833310092	0.006305648	0.565530812
ZBTB39	2.202359457	2.219071331	0.010906086	0.641467054
ZBTB4	9.115223669	9.058930577	-0.00893731	0.491155158
ZBTB40	5.872807219	5.781633606	-0.022573095	0.091399293
ZBTB41	2.91815945	3.031791838	0.055111987	0.033839595
ZBTB43	5.24002343	5.301063239	0.016708489	0.370928512
ZBTB44	5.611317086	5.529234141	-0.021259774	0.011711698
ZBTB45	8.686665755	8.700762092	0.002339244	0.841975571
ZBTB46	3.850630709	3.75165819	-0.037566378	0.113689192
ZBTB47	7.484673887	7.594968028	0.021104433	0.027229608
ZBTB48	5.058991728	5.027273852	-0.009073601	0.559016592
ZBTB5	6.329249775	6.307193423	-0.005036326	0.465053562
ZBTB6	2.628550404	2.720603852	0.049659501	0.35635709
ZBTB7A	7.839700371	7.901787324	0.0113805	0.385486625
ZBTB7B	3.918307993	3.904558732	-0.00507129	0.536051159
ZBTB7C	2.649722219	2.691633894	0.02264107	0.412477631
ZBTB8	5.152436841	4.985663887	-0.04746929	0.0183101
ZBTB80S	8.226860795	8.29083738	0.01117579	0.292789271
ZBTB9	3.323885179	3.334288535	0.004508408	0.849537413

ZC3H10	5.254305848	5.280471908	0.007166686	0.59385781
ZC3H11A	8.60080694	8.486328577	-0.019331483	0.002122009
ZC3H12A	4.175801636	4.185051021	0.00319203	0.532421462
ZC3H12C	5.163534934	5.166238106	0.00075507	0.925252478
ZC3H12D	2.064922974	2.11259569	0.032928723	0.202853748
ZC3H13	4.127887344	4.140838035	0.004519176	0.758856088
ZC3H14	5.498219662	5.535780289	0.009822139	0.56366626
ZC3H15	8.190184709	8.108816768	-0.014404576	0.257325749
ZC3H18	6.318437861	6.30856238	-0.002256642	0.736903476
ZC3H3	3.067395755	3.062592338	-0.002260972	0.726523355
ZC3H4	7.012753543	7.037123056	0.005004715	0.51001966
ZC3H6	8.39983849	8.546410782	0.024957073	0.092463441
ZC3H7A	6.756794603	6.827779613	0.015077492	0.114004589
ZC3H7B	5.83797102	5.834088197	-0.000959853	0.936767971
ZC3H8	4.771892861	4.613078415	-0.048831836	0.002359047
ZC3HAV1	4.981469834	4.791377908	-0.05613088	0.036969049
ZC3HAV1L	4.623457583	4.429956437	-0.061679641	0.071998506
ZC3HC1	6.489525709	6.443442197	-0.010281435	0.213065803
ZC4H2	6.700296212	6.714212021	0.002993218	0.710533873
ZCCHC10	5.492377623	5.482406782	-0.002621443	0.661346398

ZCCHC11	6.450280536	6.391005613	-0.013318953	0.398073896
ZCCHC12	2.425329159	2.573571669	0.0855914	0.027909868
ZCCHC13	1.909870974	1.929869401	0.015028044	0.253291213
ZCCHC14	7.488145166	7.457189775	-0.005976347	0.603922955
ZCCHC17	8.938169325	8.96153212	0.00376603	0.528802827
ZCCHC18	2.574383	2.7207455	0.079775308	0.009339942
ZCCHC2	5.189450742	5.180212479	-0.002570575	0.43000211
ZCCHC24	6.406018536	6.389164092	-0.00380078	0.973034538
ZCCHC3	6.049185106	5.927637613	-0.029283557	0.01101893
ZCCHC4	2.86134255	2.890574817	0.014664192	0.249016753
ZCCHC5	1.883219682	1.854412958	-0.022238751	0.598161878
ZCCHC6	3.048185662	3.054702697	0.003081196	0.982938262
ZCCHC7	5.557677841	5.561519345	0.000996856	0.732745421
ZCCHC8	6.581168079	6.453792592	-0.028196454	0.001454262
ZCCHC9	6.676200788	6.543065232	-0.029060691	0.003624742
ZCRB1	3.799128596	3.851056056	0.019585577	0.278473662
ZCWPW1	7.641865715	7.64472593	0.000539874	0.96313491
ZDBF2	5.727361887	5.840312803	0.028174877	0.354920083
ZDHHC1	2.654844225	2.695290451	0.021813537	0.439332026
ZDHHC11	7.696282358	7.543392676	-0.028948201	0.285260242

ZDHHC12	4.131787841	4.251230796	0.041114407	0.087112899
ZDHHC13	4.434413358	4.673209359	0.075670413	0.030038885
ZDHHC14	6.903545318	6.92901481	0.005312791	0.76148288
ZDHHC15	2.417347464	2.468615634	0.030277367	0.206052656
ZDHHC16	5.523313252	5.467123838	-0.014751896	0.557162011
ZDHHC17	5.426937258	5.43237957	0.001446057	0.899539952
ZDHHC18	3.620961358	3.707418042	0.03404202	0.207292336
ZDHHC19	1.981902007	2.008821986	0.019464092	0.508691788
ZDHHC2	4.662712623	4.820218106	0.047928912	0.292157488
ZDHHC20	6.16572894	6.032488782	-0.031518139	0.025184396
ZDHHC21	4.68700755	4.695351676	0.002566099	0.983488566
ZDHHC22	3.717126219	3.981750239	0.099215052	0.059567779
ZDHHC23	3.621719331	3.515279683	-0.04303527	0.213573499
ZDHHC24	6.268753298	6.435519134	0.037877976	0.036906709
ZDHHC3	5.373833881	5.360536866	-0.003574228	0.772545397
ZDHHC4	9.067282748	9.181266155	0.01802285	0.014658928
ZDHHC5	7.410752444	7.39386107	-0.003292097	0.951043325
ZDHHC6	3.670536053	3.765242246	0.036751915	0.06984326
ZDHHC7	7.300038384	7.205648648	-0.018775743	0.0513162
ZDHHC8	4.941135689	4.996761563	0.016150703	0.418403637

ZDHHC8P	3.93199706	4.145542458	0.076298653	0.157305677
ZDHHC9	5.134985974	5.192831077	0.01616096	0.398073952
ZEB1	3.629321205	3.622225056	-0.002823558	0.861989524
ZEB2	7.297292404	7.081563028	-0.04329344	0.021884272
ZER1	6.048609325	6.070400655	0.005188258	0.698751973
ZFAND1	7.018278318	6.908829972	-0.022675753	0.044773688
ZFAND2A	5.784938344	5.69232181	-0.023284358	0.540605882
ZFAND2B	7.952139795	7.877283092	-0.013644995	0.023952979
ZFAND3	4.327878265	4.383512352	0.018427394	0.401549212
ZFAND5	8.363530589	8.294416366	-0.011971622	0.61357942
ZFAND6	9.250002742	9.28259107	0.005073771	0.457499913
ZFAT	6.061228364	6.150216324	0.021026957	0.376859444
ZFC3H1	5.935615815	5.843245169	-0.022627893	0.053241072
ZFHX2	4.833736967	4.766517204	-0.020203466	0.559945099
ZFHX3	9.651658497	9.614322845	-0.00559162	0.535595136
ZFHX4	4.986167881	5.026611085	0.011654612	0.651873015
ZFP1	3.869700755	3.881451479	0.004374246	0.87012914
ZFP106	8.865089483	8.725633845	-0.022875259	0.032083717
ZFP112	5.440927146	5.399363401	-0.011063191	0.573961076
ZFP14	4.343066934	4.295784106	-0.015792698	0.867957289

ZFP161	4.05523702	3.970265824	-0.030550635	0.036906507
ZFP2	3.969800728	4.079388099	0.039286176	0.103808147
ZFP28	2.354962848	2.382712725	0.016900722	0.585292129
ZFP3	2.11074253	2.166211113	0.037423242	0.249584182
ZFP30	1.953953119	1.893671268	-0.045209946	0.100909028
ZFP36	9.293311159	9.297934831	0.000717601	0.755707521
ZFP36L1	9.715408748	9.695722035	-0.002926355	0.407381025
ZFP36L2	9.699383887	9.622918021	-0.011418671	0.664849829
ZFP37	2.677528351	2.708436754	0.016558551	0.683493082
ZFP41	2.589802225	2.546477134	-0.024339166	0.211044978
ZFP42	1.889709795	1.841144423	-0.037561896	0.447951201
ZFP57	2.21958745	2.122971873	-0.064206294	0.075219672
ZFP62	8.580371828	8.579870908	-8.42E-05	0.973584606
ZFP64	5.281374397	5.189682345	-0.025267182	0.028554424
ZFP82	3.596942517	3.726306965	0.050975421	0.134400116
ZFP90	5.413384377	5.422752127	0.002494396	0.745241959
ZFP91	7.374413404	7.391773451	0.003392245	0.436479943
ZFPL1	4.521244596	4.566151887	0.014258881	0.559944959
ZFPM1	11.15139212	11.12620965	-0.00326163	0.355632075
ZFPM2	3.205637854	3.194340394	-0.005093394	0.896264457

ZFR	6.661809748	6.659180732	-0.000569457	0.794274947
ZFR2	5.841815921	6.201233711	0.086138364	0.021411496
ZFX	4.786939536	4.837782176	0.015242229	0.188326988
ZFY	3.093490464	2.988673585	-0.049730248	0.07309611
ZFYVE1	6.338106351	6.30312488	-0.007984621	0.384354466
ZFYVE16	4.316052768	4.22276843	-0.031523369	0.269697364
ZFYVE19	7.656751318	7.57032162	-0.016377808	0.09863641
ZFYVE20	6.170673629	6.161292338	-0.002195002	0.714648465
ZFYVE21	9.258073583	9.165710901	-0.014465247	0.142102712
ZFYVE26	6.995904901	6.952581183	-0.008961992	0.253004424
ZFYVE27	11.4047984	11.48020102	0.00950696	0.266115157
ZFYVE28	5.606932728	5.683848599	0.019656365	0.580085854
ZFYVE9	5.602485199	5.760297754	0.040076455	0.163261027
ZGPAT	8.146608166	8.167644296	0.003720518	0.754134724
ZHX1	6.794216709	6.717788634	-0.016320831	0.113531837
ZHX2	5.022458894	5.074615028	0.014904529	0.808673734
ZHX3	7.780365066	7.850268077	0.012904071	0.170028266
ZIC1	3.351857523	3.700698021	0.14283659	0.063104451
ZIC2	1.996482563	2.080046866	0.059155563	0.03881887
ZIC3	2.992826417	3.272789246	0.129012097	0.028856322



SLC47A2	2.395620126	2.890702683	0.271021074	2.95E-05
ZIC5	2.572558371	2.693942063	0.066515012	0.033666262
ZIK1	4.176198616	4.235241746	0.020253994	0.380970725
GRP	2.287503245	2.764187387	0.273081631	8.31E-06
ZIM3	1.968357854	1.880642803	-0.065766673	0.06743065
ZKSCAN1	9.752662887	9.647855606	-0.015587874	0.052395767
ZKSCAN2	5.794555424	5.862966127	0.016932744	0.320186962
ZKSCAN3	2.569718576	2.553163176	-0.009324625	0.962035324
ZKSCAN4	2.924062596	2.924208049	7.18E-05	0.509134177
ZKSCAN5	3.981214132	4.012655275	0.01134875	0.722385484
ZMAT1	5.394671596	5.356474634	-0.010251335	0.577255022
ZMAT2	8.113063113	8.174433768	0.010872089	0.06599537
ZMAT3	2.94104347	2.907975577	-0.016312955	0.224432619
ZMAT4	5.307844152	5.417340458	0.02945875	0.915394443
ZMAT5	4.762079748	4.728100592	-0.010331051	0.550233745
ZMIZ1	7.095097596	7.070272986	-0.00505661	0.512681647
ZMIZ2	7.228093762	7.146635873	-0.016350937	0.200903473
ZMPSTE24	9.50022255	9.446458944	-0.008187681	0.295009905
ZMYM1	3.341828702	3.353421275	0.004995949	0.712075696
ZMYM2	5.959159291	5.87869862	-0.019611994	0.087240284

ZMYM3	3.677758762	3.748843739	0.027618841	0.213573608
ZMYM4	6.000673007	6.087866613	0.020812434	0.060885897
ZMYM5	3.799465093	3.864926162	0.024644529	0.040140052
ZMYM6	5.135884113	5.068433113	-0.019072837	0.901178274
ZMYND10	4.385910735	4.531740092	0.047188671	0.320859188
ZMYND11	6.185124921	6.260749239	0.017532585	0.135299694
ZMYND12	4.196693517	4.276525063	0.027185888	0.315175778
ZMYND15	5.696573523	5.726602887	0.007585161	0.653365224
ZMYND17	1.821898119	1.888192542	0.051563601	0.289322229
ZMYND19	7.346240119	7.525145585	0.03471344	0.549313198
ZMYND8	5.666920086	5.728115493	0.015495723	0.444245542
ZNF10	4.971109126	4.947382915	-0.006902209	0.690597976
ZNF100	5.976485053	6.115582803	0.033192749	0.051979128
ZNF101	4.570955033	4.583034035	0.003807373	0.881547661
ZNF107	3.250569788	3.311730092	0.026892469	0.295329391
ZNF114	1.997740132	2.009898486	0.008753708	0.718771075
ZNF117	4.300753285	4.442478169	0.046775314	0.164933855
ZNF12	6.715409947	6.67242481	-0.00926433	0.577255067
ZNF121	2.122487728	2.115571514	-0.004708758	0.728077301
ZNF124	4.450688675	4.544971113	0.030242537	0.291841452

ZNF131	6.69808796	6.660449923	-0.008129685	0.529255301
ZNF132	3.320317351	3.336811648	0.007149115	0.712075795
ZNF133	8.67344553	8.624089423	-0.008233081	0.056018394
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ZNF136	4.301663821	4.365253324	0.021170597	0.193002894
ZNF137	3.445978874	3.385293134	-0.025633094	0.158523807
ZNF138	3.604156841	3.742954345	0.054515657	0.063693939
ZNF14	5.312576808	5.256972338	-0.015179651	0.94555071
ZNF140	2.797409834	2.843311549	0.023480556	0.564598629
ZNF141	3.265386311	3.305034176	0.01741151	0.666856433
ZNF142	5.821725026	5.974420993	0.037352203	0.162222412
ZNF143	5.142263159	5.122891711	-0.005445047	0.866328784
ZNF146	3.585748848	3.543704176	-0.017016268	0.434855576
ZNF148	7.620396768	7.642890986	0.004252337	0.864158657
ZNF154	3.995093808	3.92687612	-0.024847293	0.089951929
ZNF155	2.835414808	2.823454937	-0.006098205	0.661846841
ZNF157	3.017547404	3.014951986	-0.001241408	0.923608646
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ZNF160	4.805352755	4.828445	0.006916303	0.558088035

ZNF165	4.719565258	4.85200912	0.03992829	0.158727885
ZNF167	3.545423603	3.546606401	0.000481221	0.913752645
ZNF169	2.037711172	2.009930958	-0.019803632	0.801199301
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ZNF174	3.805217132	3.850342169	0.017007881	0.340750889
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ZNF177	5.571021967	5.464120711	-0.027952649	0.292157488
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ZNF180	4.204333311	4.270841683	0.022643371	0.415632042
ZNF181	3.008336212	3.07011269	0.0293258	0.339354373
ZNF182	5.730154695	5.878233972	0.036808696	0.087495732
ZNF184	4.21439794	4.225741838	0.003878086	0.789490655
ZNF185	3.588909497	3.713958986	0.049412341	0.053071463
ZNF187	4.725071139	4.674824141	-0.015423956	0.263461284
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ZNF192	2.019489596	2.022021394	0.001807548	0.701818762
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ZNF200	4.973297947	5.028127683	0.015818421	0.466318924
ZNF202	2.649385503	2.636679176	-0.006935742	0.958736874
ZNF205	5.329423424	5.39821169	0.018502093	0.301096404
ZNF207	5.746235616	5.681054106	-0.016458507	0.310544981
ZNF208	2.103512212	2.140843901	0.025379412	0.215101165
ZNF211	4.029308291	3.980542423	-0.017567155	0.483373362
ZNF212	6.470341079	6.495471183	0.005592418	0.413264901
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ZNF214	2.710394815	2.8487175	0.071809541	0.02293988
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ZNF217	5.471689364	5.277958408	-0.052006347	0.743154684
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ZNF22	7.243044854	7.194055232	-0.009791074	0.181020608
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ZNF280C	4.191203046	4.170376592	-0.007186749	0.797468958
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ZNF341	2.726084801	2.728698606	0.001382611	0.695690159
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ZNF354C	1.996306225	2.064244049	0.048280505	0.316506873
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ZNF385B	4.08133704	4.266984042	0.064174861	0.276033782
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ZNF408	2.516255351	2.505107592	-0.006405768	0.792147749
ZNF409	3.398614947	3.40344331	0.002048161	1
ZNF41	2.605258987	2.678989007	0.040261864	0.14098333
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ZNF446	7.025513682	7.091718845	0.013531627	0.046339386

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ZNF451	3.246275126	3.273486915	0.012042937	0.450017658
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ZNF468	2.432224318	2.420402437	-0.007029349	0.806002327
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ZNF471	3.450319715	3.433128634	-0.007206138	0.6150342
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ZNF483	2.915095715	2.9888755	0.036059549	0.246477483
ZNF484	3.212992874	3.232965352	0.008940265	0.542433405
ZNF485	2.576068007	2.645489437	0.038363977	0.205311222
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ZNF488	2.643242298	2.70757419	0.034692191	0.25732626

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ZNF493	5.801698106	5.968509599	0.040895494	0.118005353
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ZNF512B	6.716098517	6.740037254	0.005133173	0.556698717
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ZNF518A	4.975819709	4.970119415	-0.001653697	0.869586073
ZNF518B	6.188232444	6.112817563	-0.017689878	0.088136727
ZNF519	2.222293636	2.282980204	0.038868895	0.265529207
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ZNF529	5.279246523	5.268421676	-0.002961215	0.801732593
ZNF530	2.52744004	2.479752437	-0.027480769	0.343555467
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ZNF540	4.920233722	4.995152324	0.021801824	0.609226075
ZNF541	4.778147887	4.895163873	0.03490565	0.105727635
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ZNF543	3.331616106	3.387993718	0.024209028	0.450431727
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ZNF564	4.139350623	4.180021296	0.014105836	0.722385198
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ZNF582	2.18800455	2.281681732	0.060481829	0.097237069
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ZNF621	2.583982219	2.635633535	0.028553646	0.291841509
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ZNF623	2.834548629	2.762588768	-0.037098198	0.463789792
ZNF624	3.571193874	3.643095937	0.02875853	0.324572151
ZNF625	5.775738636	5.769313345	-0.001605837	0.730669567
ZNF626	4.646085987	4.660408268	0.004440491	0.478649627
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ZNF674	2.023576755	2.029993683	0.004567666	0.869043098
ZNF675	6.451103477	6.637499549	0.0410939	0.114637494
ZNF676	2.237373801	2.305354155	0.043182089	0.181922295
ZNF678	2.982276748	3.017541669	0.016959551	0.378724867
ZNF680	6.60858404	6.822580923	0.045976409	0.071998336
ZNF681	5.899095113	6.056573493	0.038008149	0.049850641
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ZNF689	5.043144166	5.100679803	0.01636607	0.419594858
ZNF69	2.21695445	2.241255768	0.015728167	0.592426278
ZNF691	4.732606874	4.760444613	0.008461238	0.598162184
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ZNF7	5.574064901	5.603159162	0.007510674	0.804400435
ZNF70	3.50841757	3.444409704	-0.026563709	0.556235752
ZNF700	4.943853887	4.857173148	-0.02551919	0.072107366
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ZNF704	5.27988157	5.186346261	-0.02578704	0.30563362
ZNF706	8.273381238	8.342160113	0.011943939	0.389274592
ZNF707	5.347873364	5.301354056	-0.012604408	0.414447082
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ZNF71	5.642376735	5.667149493	0.006320263	0.56739953
ZNF710	5.068038768	5.041114366	-0.007684876	0.69110672
ZNF711	2.835379523	2.857059655	0.010989303	0.940060664
ZNF713	6.290475563	6.268779796	-0.004984437	0.923060732
ZNF714	6.789932437	7.00336362	0.044650776	0.061650007
ZNF717	3.176650351	3.237484373	0.027366926	0.122449339
ZNF718	2.356208185	2.343439183	-0.007839661	0.837661677
ZNF720	3.833156265	3.851356289	0.00683378	0.737423513

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ZNF730	3.661427179	3.851775655	0.073117574	0.129970035
ZNF737	2.299553748	2.373425366	0.045616765	0.108129032
ZNF738	5.840709762	6.051560035	0.051163408	0.031208671
ZNF74	4.400398192	4.346868401	-0.01765766	0.323895204
ZNF740	2.420938298	2.358478239	-0.03771002	0.401162387
ZNF746	8.543661623	8.582060613	0.006469581	0.307918077
ZNF747	3.066644954	3.051759993	-0.00701964	0.757806165
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ZNF75A	2.649672119	2.782876134	0.07076285	0.024299478
ZNF75D	4.725184225	4.744699401	0.005946111	0.567398975
ZNF76	3.862135603	3.975734289	0.041822521	0.0512339
ZNF761	3.783837848	3.696536803	-0.033675988	0.07533278
ZNF764	5.118312656	5.132761789	0.004067029	0.782064337
ZNF765	2.838303093	2.787555345	-0.026028209	0.265529093
ZNF766	3.788358987	3.842593451	0.020507298	0.21973126
ZNF767	4.42877955	4.404473232	-0.007939701	0.711047496
ZNF768	5.809640675	5.987144183	0.043419078	0.078323713
ZNF77	4.78275943	4.861076063	0.023432482	0.282470634

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ZNF771	5.005145947	5.026167908	0.00604673	0.744720133
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ZNF773	5.406496861	5.359457852	-0.012607034	0.443835042
ZNF775	6.903970675	6.985157282	0.016866264	0.106323805
ZNF776	2.996986563	3.058493239	0.029308472	0.151122443
ZNF777	7.464702113	7.450879986	-0.002673864	0.906642463
ZNF778	2.963932152	2.968858183	0.002395757	0.603922955
ZNF780A	2.685875258	2.687857465	0.001064333	0.82206401
ZNF780B	5.65031043	5.723951134	0.018681224	0.256457866
ZNF781	2.86886302	2.822612972	-0.023447761	0.323895147
ZNF783	4.593667073	4.451058669	-0.045497784	0.002643893
ZNF784	4.271714252	4.36848638	0.032318349	0.224432453
ZNF785	3.232657881	3.221308197	-0.005074135	0.988441577
ZNF786	5.293008682	5.335802275	0.011617186	0.541976139
ZNF787	6.737296543	6.810874303	0.015670206	0.246758468
ZNF788	1.89834998	1.919370599	0.015887306	0.677929833
ZNF789	3.128751404	3.159601768	0.014155701	0.672384378
ZNF79	3.882989351	3.813506648	-0.026049536	0.314511266
ZNF790	4.190682079	4.274827324	0.028681068	0.113846891



ZNF791	5.138332	5.128903254	-0.002649751	0.973584654
ZNF792	3.045089914	3.094526338	0.023233773	0.540149579
ZNF799	2.637593921	2.637386338	-0.000113547	0.727041181
ZNF8	4.063038397	4.071765148	0.003095353	0.680962138
ZNF80	2.052320603	2.033032592	-0.013622776	0.896264494
ZNF800	5.081928119	5.154771028	0.020532376	0.485960399
ZNF804A	2.138606013	2.148608148	0.00673167	0.80279957
ZNF804B	1.919522444	1.895319521	-0.018306344	0.426784108
ZNF808	2.503383834	2.435618634	-0.039591255	0.159136041
ZNF81	1.992918457	1.98281031	-0.007336016	0.527000006
ZNF812	2.407572344	2.349651732	-0.035132215	0.561339143
ZNF813	3.303867086	3.24864693	-0.024316692	0.078792162
ZNF821	5.786062159	5.868894746	0.020507013	0.422382282
ZNF823	3.445943331	3.359295197	-0.036740399	0.078440434
ZNF826	4.589773927	4.718624415	0.039943249	0.096266925
ZNF827	2.448733689	2.501143535	0.03055197	0.39884463
ZNF828	4.556967914	4.590198761	0.010482413	0.385864897
ZNF829	4.410197411	4.397094261	-0.004292776	0.917036542
ZNF83	4.634249768	4.487890627	-0.046298285	0.026752607
ZNF830	6.433749881	6.35400969	-0.01799256	0.318176328

ZNF831	2.585143603	2.46979843	-0.065851121	0.153891637
ZNF835	2.831182828	2.912905106	0.041053787	0.137661292
ZNF839	4.715168046	4.78344938	0.020742143	0.18717127
ZNF84	5.129542603	5.113780444	-0.004439967	0.479506865
ZNF841	3.566761417	3.499865669	-0.027315166	0.697220364
ZNF843	4.317881212	4.366494993	0.016152132	0.58387004
ZNF844	1.81587051	1.8054665	-0.008289676	0.358158226
ZNF845	5.224153007	5.179456394	-0.012396463	0.136566883
ZNF847P	1.848053848	1.838180183	-0.007728604	0.610192301
ZNF85	5.402347291	5.644073486	0.063150385	0.050823834
ZNF850P	2.698597861	2.689451479	-0.004898044	0.478221793
ZNF853	4.213697199	4.259349923	0.015546614	0.482082339
ZNF862	6.284544907	6.250837908	-0.007758684	0.642455067
ZNF90	1.980788411	1.903690606	-0.057275753	0.034599882
ZNF91	8.650919921	8.877031352	0.037223739	0.086985363
ZNF92	6.970864967	7.131282282	0.032823831	0.021024273
ZNF93	3.583075854	3.748296542	0.065036509	0.050416411
ZNF99	2.385006781	2.463724232	0.046847414	0.027616565
ZNFX1	3.982787967	3.983309866	0.000189036	0.598641141
ZNHIT1	10.67418155	10.6201546	-0.007320687	0.175891331

ZNHIT2	4.679412795	4.66138588	-0.005568554	0.672887867
ZNHIT3	9.560245636	9.526974754	-0.005029521	0.589565977
ZNHIT6	4.958091642	4.952618218	-0.001593525	0.902817099
ZNRD1	8.010139636	7.964654275	-0.008215653	0.274818783
ZNRF1	4.933638159	5.007396852	0.021408888	0.09668147
ZNRF2	3.896827073	3.813854218	-0.031050213	0.068053431
ZNRF3	5.690294656	5.738123423	0.012075639	0.582922815
ZNRF4	1.96937951	2.073003838	0.073981634	0.022981251
ZP1	2.218813199	2.298538965	0.05092891	0.092329988
ZP2	1.936944689	1.889362683	-0.035883088	0.063398471
ZP3	5.832417371	5.886545697	0.013327326	0.562735004
ZP4	1.896807954	1.919919401	0.01747213	0.438108568
ZPBP	4.498740821	4.69741712	0.062346454	0.407772715
ZPBP2	1.944947483	1.868880303	-0.05755703	0.080689385
ZPLD1	2.481368781	2.69280007	0.117970955	0.0512339
ZRANB1	5.686440762	5.630437648	-0.014278862	0.530158723
ZRANB2	7.695301106	7.579698817	-0.021837255	0.027470765
ZRANB3	2.980781629	3.037552204	0.027218516	0.074543686
ZRSR1	4.564581781	4.556835268	-0.002450466	0.911017133
ZRSR2	7.757104907	7.742183373	-0.002777835	0.911017122

ZSCAN1	2.361007675	2.494487232	0.079340553	0.021101259
ZSCAN10	8.607622589	8.555350479	-0.008787865	0.406210705
ZSCAN12L1	1.965411139	1.994047	0.020868277	0.325589586
ZSCAN16	4.48498802	4.607628387	0.038920234	0.072326343
ZSCAN18	8.653553874	8.610276465	-0.007233184	0.484664955
ZSCAN2	2.562929596	2.498394655	-0.03679246	0.165564317
ZSCAN20	4.107912848	4.024623479	-0.029551755	0.217150334
ZSCAN21	4.228969066	4.236785979	0.002664245	0.740547707
ZSCAN22	2.249391132	2.243825908	-0.003573798	0.89517313
ZSCAN29	4.912250437	4.906255338	-0.001761796	0.818845333
ZSCAN4	2.027326444	1.980254028	-0.033892901	0.390416182
ZSCAN5A	4.247066914	4.335305908	0.029666958	0.121949177
ZSWIM1	4.042473351	4.040035965	-0.000870127	0.998899159
ZSWIM2	1.871980371	1.818703373	-0.041655046	0.342151254
ZSWIM3	4.519776636	4.538550542	0.005980146	0.847375582
ZSWIM5	5.350316788	5.527525106	0.047009358	0.063202364
ZSWIM6	6.260646503	6.118962211	-0.033024655	0.01057054
ZSWIM7	7.234899185	7.255702725	0.004142434	0.813487906
ZUFSP	5.918021901	5.896979014	-0.005138976	0.792679386
ZW10	4.564897702	4.794603563	0.070829002	0.001920531

ZWILCH	3.81150249	3.87177781	0.022636344	0.470975133
ZWINT	3.46879647	3.4803555	0.004799484	0.815094388
ZWINTAS	1.857467046	1.904599592	0.036151113	0.28650597
ZXDA	2.177442583	2.224902528	0.031107457	0.346728049
ZXDC	4.792183861	4.78980357	-0.000716768	0.668864334
ZYG11A	2.188295921	2.14660462	-0.027751358	0.4227814
ZYG11B	6.973889649	7.05719157	0.017130637	0.276033495
ZYX	5.75867604	5.759870246	0.000299148	0.984589185
ZZEF1	7.30661449	7.308247246	0.000322353	0.83604496
ZZZ3	4.717734437	4.674234683	-0.013364041	0.433234049