

Table S4. A total of 7596 genes in the training group had prognostic value tested by univariate Cox analysis (p-value<0.05).

ID	HR	HR_95L	HR_95H	Cox_pvalue
ZXDC	0.696042022	0.49660566	0.975571837	0.035418703
ZWINT	1.248155849	1.083554449	1.437761641	0.002125476
ZWILCH	1.468952609	1.140548487	1.891915857	0.002895782
ZSWIM7	0.731176984	0.54453183	0.981797119	0.037330655
ZSWIM3	0.611885834	0.423206009	0.884685627	0.009019757
ZSCAN5B	7.794757646	2.513959915	24.16834349	0.000375597
ZSCAN32	0.307179202	0.126693033	0.744784936	0.009000308
ZSCAN30	0.680821577	0.495462405	0.935526117	0.017741039
ZSCAN26	0.580375829	0.418565421	0.804739439	0.001103724
ZSCAN18	0.774865527	0.6242397	0.961836592	0.020734583
ZSCAN16-AS1	0.668947832	0.504029553	0.887827309	0.005373293
ZSCAN16	0.72107704	0.551443121	0.942893432	0.016863596
ZSCAN12	0.644855596	0.439934219	0.94522936	0.024533719
ZRANB2-AS2	0.018741332	0.001419123	0.247503314	0.002524089
ZPR1	1.41684603	1.004743908	1.997974465	0.046927682
ZNRF3	0.016457027	0.000594356	0.455676253	0.015358236
ZNF91	0.663990672	0.482686666	0.913395053	0.011845593
ZNF90P1	0.001837136	5.05E-06	0.668570487	0.036279528
ZNF90	0.807399958	0.65936034	0.988677439	0.038438144
ZNF891	0.508114729	0.264373063	0.976576717	0.042248178
ZNF879	0.543399719	0.366071507	0.806627254	0.002476424
ZNF862	0.723899619	0.534094489	0.981157208	0.037289975
ZNF859P	160.026827	1.857805134	13784.32262	0.025588045
ZNF852	0.434970236	0.220151861	0.859402711	0.016572033
ZNF846	0.636738693	0.432843191	0.936681395	0.021898948
ZNF844	0.620932423	0.45197186	0.853055483	0.003274237
ZNF836	0.529078693	0.331783091	0.843696592	0.007499507
ZNF835	0.486134879	0.286569332	0.824676945	0.007476761
ZNF831	0.420886365	0.237248707	0.746665114	0.003088494
ZNF821	0.549456443	0.34306318	0.880019774	0.0127096
ZNF815P	0.563451017	0.361478132	0.878274565	0.01130641
ZNF804B	347.407569	2.088246152	57795.8776	0.024951412
ZNF80	0.262220352	0.070251662	0.978759949	0.046380761
ZNF791	0.430264683	0.27511997	0.672898073	0.000218795
ZNF79	0.554273908	0.35237372	0.8718572	0.010670233
ZNF785	0.663032969	0.478926551	0.917912604	0.01328383
ZNF780B	0.587305391	0.392776339	0.878178212	0.009518593
ZNF778	0.574399662	0.383202239	0.860994373	0.007259679
ZNF77	0.444496803	0.292987957	0.674353343	0.000137475
ZNF767P	0.744130484	0.584705268	0.947024437	0.016286686
ZNF763	0.413216772	0.2274264	0.750783994	0.003722459
ZNF76	0.691208048	0.509809341	0.937151454	0.017411457
ZNF75D	0.590185845	0.423315276	0.822836669	0.001870722
ZNF750	0.815567592	0.71805291	0.926325188	0.001701798
ZNF737	0.683932994	0.54078605	0.864971165	0.001521034
ZNF736P9Y	2.566580422	1.546879827	4.258465946	0.000263674

ZNF726	0.686493284	0.476531438	0.988965242	0.043431421
ZNF709	0.023540505	0.001496557	0.370286774	0.007662235
ZNF708	0.515388512	0.352110284	0.754381028	0.000649621
ZNF704	0.762237781	0.615245755	0.944348546	0.012998449
ZNF697	1.472556908	1.137041184	1.907075908	0.003352094
ZNF691	0.576559746	0.404479461	0.821849246	0.002328545
ZNF69	0.686499635	0.515395259	0.91440839	0.010119412
ZNF684	0.564519663	0.353228523	0.902199085	0.016839281
ZNF682	0.642570933	0.499345451	0.826877272	0.000587252
ZNF675	0.701338709	0.496288735	0.991108501	0.044369758
ZNF674-AS1	0.604661428	0.438118663	0.834512367	0.002209606
ZNF671	0.684985843	0.520255825	0.901874776	0.007021035
ZNF662	0.706112136	0.524146291	0.95125036	0.02209861
ZNF660	0.499332679	0.269134531	0.926425621	0.027643561
ZNF66	0.61363846	0.401264177	0.938414593	0.024243648
ZNF658	0.348540276	0.156917326	0.774167691	0.009636265
ZNF655	0.672204534	0.517913788	0.872459753	0.00283106
ZNF641	0.658828286	0.466871409	0.929709342	0.017561871
ZNF630	0.542350173	0.338695283	0.868461195	0.010863006
ZNF626	0.794440949	0.644642502	0.979048728	0.03088253
ZNF608	0.787288424	0.635081703	0.975973737	0.02912221
ZNF598	1.328645427	1.019348646	1.731790863	0.035579251
ZNF596	0.521326673	0.294002215	0.924419907	0.025821999
ZNF589	0.605313553	0.450226044	0.813823417	0.000887088
ZNF586	0.609060354	0.414833083	0.894225967	0.011389302
ZNF582-AS1	0.502434132	0.314540827	0.802566902	0.003972038
ZNF574	1.70653032	1.209926485	2.406960892	0.002319094
ZNF564	0.127874955	0.028838861	0.567012821	0.006796997
ZNF563	0.409565374	0.245340247	0.683719031	0.000639832
ZNF559-ZNF177	0.148511992	0.025738405	0.85692224	0.032954819
ZNF557	0.42113422	0.254348956	0.697286257	0.00077539
ZNF555	0.177704028	0.081412715	0.387884396	1.44E-05
ZNF554	0.473674998	0.28261325	0.793904757	0.004570413
ZNF552	0.701325316	0.545494333	0.901672427	0.005652468
ZNF540	0.365192753	0.219775261	0.606827839	0.000101133
ZNF526	1.520177055	1.031531888	2.24029747	0.034270507
ZNF516	0.752434891	0.594554239	0.952239894	0.017920741
ZNF512	0.623104457	0.467279152	0.830893403	0.001274648
ZNF510	0.574677585	0.353791027	0.933472875	0.02521373
ZNF506	0.511915549	0.36341692	0.721093363	0.000127853
ZNF502	0.660260016	0.515948049	0.844936404	0.000970317
ZNF501	0.67101516	0.451424529	0.997423302	0.048527335
ZNF500	0.641326013	0.421754208	0.975210316	0.03776905
ZNF493	0.502271579	0.348391569	0.724118382	0.000224722
ZNF491	0.507472499	0.271688124	0.947882203	0.033347659
ZNF490	0.203542152	0.068294589	0.606627965	0.004275843
ZNF488	1.494128135	1.125079305	1.984232465	0.005533848
ZNF470	0.526792873	0.30701852	0.903889221	0.019976225
ZNF451	0.490140708	0.305508303	0.786354777	0.003111654

ZNF449	0.618675147	0.401627286	0.953020252	0.029387428
ZNF443	0.598744565	0.37090144	0.966550719	0.035799094
ZNF442	0.327643908	0.126707184	0.84723318	0.021336914
ZNF441	0.449037727	0.294659034	0.684298994	0.000195418
ZNF440	0.714925305	0.540336634	0.945925483	0.01881799
ZNF44	0.457304169	0.308965714	0.676861846	9.20E-05
ZNF439	0.594994705	0.421310105	0.840280581	0.003197825
ZNF431	0.700914253	0.528749257	0.92913755	0.013472507
ZNF43	0.652927478	0.502111665	0.849042795	0.001466858
ZNF429	0.527086013	0.372293523	0.746238244	0.000306145
ZNF41	0.601227145	0.404098515	0.894519694	0.012078547
ZNF397	0.725047437	0.549904194	0.955973407	0.022659218
ZNF396	0.380883972	0.224590693	0.645942172	0.000341446
ZNF394	0.49514743	0.311188406	0.787853829	0.003015345
ZNF367	1.342602217	1.079255464	1.670207633	0.00817798
ZNF366	0.580098044	0.368756918	0.912562516	0.018483209
ZNF354C	0.661246143	0.469741154	0.93082426	0.01774731
ZNF354B	0.684249367	0.491404571	0.952773385	0.024679647
ZNF347	0.630024876	0.422457036	0.939578017	0.023475946
ZNF345	0.642732351	0.416247794	0.992449405	0.046134906
ZNF333	0.447653015	0.249673464	0.802621229	0.006974707
ZNF330	0.717578636	0.5491324	0.937695715	0.015047636
ZNF322	0.743584853	0.589899092	0.937310196	0.012141298
ZNF3	0.67850796	0.480094403	0.958921932	0.02797548
ZNF287	0.573929167	0.399472042	0.824575074	0.002671024
ZNF275	0.740111159	0.551402536	0.993402265	0.045065396
ZNF266	0.62766717	0.485396943	0.811636913	0.000383294
ZNF254	0.621843185	0.484112894	0.798757793	0.000200046
ZNF253	0.576310809	0.428417972	0.775257273	0.000270085
ZNF250	0.643511407	0.42673636	0.97040461	0.035438925
ZNF25	0.520342914	0.371431367	0.72895499	0.000145897
ZNF248	0.553079174	0.382727766	0.799253673	0.001617011
ZNF24	0.72091663	0.532937928	0.975199474	0.033763604
ZNF214	0.680523257	0.479924817	0.96496761	0.030764981
ZNF211	0.698460217	0.539507179	0.904245009	0.006450481
ZNF205-AS1	0.398234579	0.190549894	0.832279548	0.014360887
ZNF204P	0.8252671	0.69942351	0.973753064	0.022903285
ZNF2	0.508489058	0.278768533	0.927511864	0.027430185
ZNF19	0.379944837	0.186334992	0.774723406	0.007764788
ZNF185	1.392513563	1.151509406	1.683958474	0.000637959
ZNF184	0.644117716	0.442468063	0.937666844	0.021682211
ZNF182	0.602940869	0.423171672	0.859078516	0.005096804
ZNF175	0.592526346	0.381116921	0.921206725	0.020099918
ZNF17	0.566930511	0.325494915	0.987450771	0.045008989
ZNF157	0.234493245	0.064954552	0.846547012	0.026807696
ZNF154	0.655908271	0.476284085	0.903275321	0.009793873
ZNF146	1.356875873	1.078679094	1.706821004	0.009136106
ZNF141	0.518666669	0.333770258	0.80598887	0.003511964
ZNF14	0.525411239	0.381001319	0.72455647	8.68E-05

ZNF136	0.470519707	0.30950529	0.715298903	0.000419076
ZNF133	0.709154698	0.505882292	0.994105534	0.046122687
ZNF124	0.651605309	0.450485574	0.94251515	0.022946196
ZNF101	0.539624426	0.370108098	0.786782354	0.001344039
ZNF100	0.618744527	0.446699564	0.857052077	0.003877851
ZNF10	0.560025889	0.392062266	0.799946906	0.001438006
ZMYND19P1	0.105676935	0.014021244	0.796478139	0.029199923
ZMYND15	0.631572192	0.479429758	0.831995569	0.001083403
ZMYND12	0.702027824	0.549158223	0.897451853	0.004751018
ZMYND10	0.845006918	0.727685901	0.981242993	0.027227045
ZMYM6	0.421303356	0.238931519	0.742876111	0.002816617
ZMYM5	0.677982015	0.466170489	0.986033272	0.041995861
ZMIZ1-AS1	0.513095446	0.283005007	0.930255404	0.027941086
ZMAT1	0.721739396	0.583061082	0.893401689	0.002741192
ZKSCAN4	0.555229832	0.380853918	0.80944465	0.002219781
ZIC5	2.004460286	1.365881238	2.941588864	0.000380609
ZIC2	1.328651151	1.095088973	1.612027813	0.003965986
ZG16	1.465192924	1.030672315	2.082902851	0.033313019
ZFP90	0.644644271	0.447843205	0.92792797	0.018154608
ZFP64	1.473005407	1.007661054	2.153248775	0.045569256
ZFP3	0.540187884	0.402090797	0.725714073	4.35E-05
ZFP28	0.624478407	0.412470014	0.945458502	0.026081143
ZFP2	0.436538168	0.256487297	0.742982495	0.002251522
ZFAND4	0.421457691	0.252030952	0.704780837	0.000989014
ZFAND2B	0.697761346	0.488365439	0.996939703	0.048064255
ZEB2-AS1	0.047252495	0.007756637	0.287856486	0.000930613
ZEB2	0.749339965	0.583292123	0.962657236	0.023962429
ZDHHC5	1.655235911	1.093962255	2.504479391	0.017079835
ZDHHC21	0.766327867	0.61469967	0.955358248	0.017984078
ZDHHC2	0.777463269	0.641321116	0.942506211	0.010382364
ZDHHC16	0.718523256	0.539209956	0.95746687	0.024027406
ZDHHC11B	0.767396054	0.652229986	0.902897316	0.001416915
ZDHHC1	0.753250455	0.593757462	0.955585882	0.019584897
ZCWPW2	0.251514769	0.099964232	0.632823136	0.00336878
ZC3H7A	0.682241701	0.482539114	0.964592766	0.030465876
ZC3H6	0.577886269	0.380385226	0.877932466	0.010166584
ZC3H15	1.623704861	1.161707748	2.269432635	0.004548318
ZC3H12D	0.429117508	0.28349636	0.649538624	6.33E-05
ZC3H12C	1.372625179	1.01951849	1.848029144	0.036855579
ZC2HC1C	0.656164905	0.44609494	0.965158633	0.032347759
ZBTB8A	0.540010036	0.313773832	0.929366344	0.026120867
ZBTB5	0.701183285	0.502027035	0.979345663	0.037306518
ZBTB49	0.55399174	0.343983264	0.892214478	0.015139734
ZBTB48	0.645482143	0.479505506	0.868910141	0.003895533
ZBTB45P1	5.059882117	1.318954126	19.41114292	0.018101816
ZBTB4	0.761431917	0.600469853	0.965541503	0.024489522
ZBTB3	0.600262395	0.385221119	0.935345766	0.024113662
ZBTB22	0.681985771	0.491699285	0.945912686	0.021842035
ZBTB20-AS4	0.159534182	0.033896099	0.750857948	0.020204204

ZBTB18	0.771468351	0.662849592	0.897886073	0.000804714
ZBED5	0.68858807	0.49035484	0.966960028	0.031246368
ZAP70	0.770881191	0.630330003	0.942772528	0.011284387
Z95114.4	15.83791755	1.645402857	152.4487643	0.016802838
Z84466.1	23.00136689	1.099350313	481.2504918	0.043278193
Z83851.4	1.70163259	1.294793419	2.236305366	0.000137207
YY1	1.580878596	1.001022592	2.496624106	0.049489773
YWHAZP6	1.742279188	1.092996863	2.777260274	0.019608699
YWHAZP5	1.303227292	1.039144	1.634423499	0.021888078
YWHAZP3	1.333854562	1.032061414	1.723897405	0.027729513
YWHAZP2	1.404805191	1.045819043	1.887016343	0.023975854
YWHAZ	1.59557171	1.239110272	2.054578305	0.000292437
YWHAQP7	19.8350646	1.452510184	270.8619822	0.025101284
YWHAG	1.662334469	1.291427847	2.139767927	7.97E-05
YWHAE	1.435374434	1.046237865	1.969246034	0.025083237
YPEL5P2	0.285396615	0.093971159	0.866768365	0.026950638
YPEL5	0.715703032	0.528777399	0.968707874	0.030325102
YPEL3	0.761621449	0.616236564	0.941306091	0.011747128
YPEL1	0.646187279	0.459599897	0.908525005	0.012012094
YKT6	1.523118026	1.175455769	1.973607671	0.00145861
YES1	1.352702027	1.058281784	1.729031722	0.01585292
YARS2	1.535446396	1.170021426	2.015002105	0.001986374
XXYLT1	1.383111776	1.077575407	1.775280107	0.010878009
XXyac-YR21CG7.1	4503.611615	13.97185356	1451669.78	0.004305673
XXbac-BPGBPG55C20.2	0.256186996	0.106815625	0.61443985	0.002279528
XXbac-BPG348.3	2.872941321	1.284812203	6.424123164	0.010159602
XXbac-BPG299F13.17	0.528043879	0.345996675	0.805875775	0.003070606
XXbac-BPG299F13.14	0.654525736	0.429691492	0.997003542	0.048388552
XXbac-BPG283O16.9	0.766337444	0.589980329	0.995411287	0.046104918
XXbac-BPG252P9.10	1.499790919	1.06369781	2.114672775	0.02076488
XXbac-BPG181B23.7	0.746817292	0.587203205	0.949817819	0.017329957
XXbac-BPG16N22.5	142030.7376	249.9025845	80722376.12	0.000246347
XXbac-BPG13B8.10	0.406007857	0.176916541	0.931752221	0.033441019
XXbac-B444P24.13	0.536008805	0.308744193	0.930561435	0.026714601
XX-FW80269A6.1	0.003649243	1.42E-05	0.940178836	0.047508145
XX-C2158C6.2	0.049363019	0.002831232	0.860652693	0.039126154
XX-C2158C12.1	2.19E+25	88799308345	5.38E+39	0.000558388
XRCC6	1.666102663	1.184649308	2.343223487	0.003348646
XRCC5	1.801297672	1.281241219	2.5324453	0.000709821
XRCC2	1.265788704	1.025965225	1.561671881	0.027868056
XPNPEP3	1.53280142	1.019979284	2.303458736	0.039864054
XKRYP2	1914389475	4.274529501	8.57E+17	0.03547493
XIRP1	1.668707728	1.088744689	2.557611079	0.018762563
XGY1	11.49984522	2.829652906	46.73592292	0.000640426
XCR1	0.450060196	0.277673058	0.729470052	0.001194704
XCL2	0.776074467	0.616857929	0.976386214	0.03046812
WWP2	0.658409823	0.494041405	0.877463894	0.004344255
WWC2-AS2	3.997128828	1.86486967	8.567375579	0.000367923
WT1-AS	2.087677877	1.049337209	4.15347791	0.035977726

WSB2	1.341892812	1.027435652	1.752592794	0.030878409
WSB1	0.830742005	0.721223679	0.956890765	0.010143493
WNT7A	1.239853199	1.069532806	1.437296685	0.004350485
WNT3A	0.632112078	0.426305302	0.937275884	0.022473119
WIF1	0.907526206	0.840958663	0.97936302	0.012543658
WI2-89927D4.1	0.080801647	0.008522597	0.766070038	0.028367265
WI2-237311.2	2.043655138	1.190862178	3.50714499	0.009489575
WHSC1	1.265143585	1.002281362	1.596945081	0.047800213
WHAMML1	0.298267497	0.102606096	0.867039125	0.026282453
WFIKKN2	0.247187906	0.063588847	0.960889581	0.043637447
WFDC3	0.874489603	0.777297454	0.983834518	0.025675555
WFDC2	0.856700801	0.785129293	0.934796687	0.000511274
WDTC1	0.706142118	0.537518815	0.927663696	0.012443048
WDSUB1	0.708124054	0.50303025	0.996838016	0.047915699
WDR91	0.706872184	0.564986366	0.884389987	0.002407649
WDR86-AS1	0.853588173	0.767624558	0.949178556	0.00346634
WDR86	0.850791479	0.727882112	0.994455186	0.042375892
WDR83	0.661359589	0.454444981	0.962485063	0.030796417
WDR76	1.338135979	1.079528191	1.658694893	0.007852038
WDR70	0.683747844	0.468994156	0.996837825	0.048106127
WDR62	1.277570864	1.042911277	1.565029882	0.017994056
WDR59	0.669827167	0.471682224	0.951209121	0.025122886
WDR47	0.641058801	0.457915097	0.897451054	0.00958981
WDR4	1.607574496	1.200507958	2.152668579	0.001439253
WDR37	0.595430701	0.417269692	0.849660848	0.004262648
WDR36	1.490151486	1.034440537	2.146620681	0.032211216
WDR3	1.451118125	1.082066638	1.94603894	0.012892052
WDR19	0.590202732	0.420630252	0.828136501	0.00227951
WDR18	1.297608724	1.013743031	1.660961751	0.03860911
WDR1	1.436586432	1.009214892	2.044936705	0.044338177
WDHD1	1.415826581	1.166297608	1.718742192	0.000439579
WDFY4	0.723573751	0.586152274	0.893213243	0.002605258
WBP2NL	0.255451904	0.090949022	0.717497271	0.009597036
WBP11	1.544778825	1.143834495	2.086264778	0.0045612
WBP1	0.720078671	0.54649639	0.948795459	0.019624537
WASIR2	0.638685943	0.447727219	0.911089871	0.013371583
WASH4P	0.467354565	0.259076657	0.843072052	0.011501903
WASF3	0.764957909	0.608249411	0.962040557	0.021972828
WASF1	1.259664185	1.038685033	1.527656419	0.018994828
WAS	0.842123688	0.712896254	0.994776312	0.043219511
WARSP1	0.471372088	0.261337332	0.850210123	0.01244823
WARS2	1.475635987	1.021276499	2.132137152	0.038257719
VWA3B	0.72438499	0.542774412	0.966761885	0.028560023
VWA2	0.793432099	0.684636382	0.919516568	0.002104571
VTN	1.203766656	1.028731431	1.408583541	0.020706361
VTA1	1.439788049	1.043711179	1.98617172	0.026377491
VSTM5	1.70902969	1.095735363	2.665591147	0.018123098
VSIG2	0.882777739	0.811489578	0.960328458	0.003705366
VSIG10L	1.146114275	1.000528821	1.312883651	0.049115051

VPS18	1.46236165	1.10814804	1.929797753	0.007239592
VPS13D	0.700793062	0.532890537	0.921598119	0.01095249
VPS13C	0.736567415	0.566311308	0.9580094	0.022618008
VPREB3	0.858634457	0.745145192	0.989408692	0.035102387
VOPP1	1.245785866	1.015738912	1.527934399	0.034867817
VNN1	1.198267052	1.057338683	1.357979189	0.004606438
VN2R9P	388999.636	1.017661197	1.49E+11	0.049688778
VN1R91P	173.6720685	1.593584411	18927.13506	0.031189105
VN1R8P	1.29E+27	329792507.9	5.03E+45	0.004263656
VN1R83P	0.632449766	0.45583402	0.877496389	0.006104481
VN1R78P	0.00017369	1.55E-07	0.195097695	0.015692724
VN1R10P	1.21E-09	1.63E-18	0.896879116	0.048791636
VMAC	0.597746889	0.408159867	0.875395578	0.008201816
VIPR2	1.45467633	1.034212364	2.046081924	0.031300135
VIPR1-AS1	0.390823913	0.170377181	0.896501103	0.026562643
VIPR1	0.703255254	0.573822254	0.861883534	0.000693309
VIM-AS1	0.651780375	0.520615969	0.815990447	0.00018864
VENTXP7	77407.77617	9.907660917	604780872.2	0.013838897
VENTX	0.664713631	0.447191196	0.988043179	0.043441074
VEGFC	1.373019086	1.201386191	1.569171866	3.27E-06
VDAC2P1	8773361369	47.33508852	1.63E+18	0.018419576
VDAC2	1.592458648	1.213269074	2.090158398	0.000798918
VDAC1P7	569.4390981	9.969545011	32525.14393	0.002111045
VDAC1P3	227.3075158	1.531098273	33746.1727	0.033425358
VDAC1P2	2.558766933	1.244223899	5.262146322	0.010650701
VDAC1	1.876091119	1.439630613	2.444875687	3.21E-06
VCL	1.269894547	1.0202371	1.580644499	0.032407114
VAX1	5.278011946	3.010301452	9.254026733	6.37E-09
VAT1L	1.433542302	1.083687561	1.896343195	0.011636313
VASP	1.433355326	1.110096932	1.85074603	0.005763044
VANGL1	1.67572544	1.277017239	2.198917653	0.000196257
VAMP8	0.740254758	0.591333435	0.926680405	0.008679882
VAMP2	0.77169009	0.609888684	0.976416863	0.030869503
VAMP1	0.765111518	0.60297781	0.97084109	0.027558275
UTS2	0.623984448	0.394853884	0.986077654	0.043382034
USP9YP8	49143.36011	1.848603262	1306429504	0.03769397
USP9YP3	3.72E+11	871703.584	1.59E+17	5.63E-05
USP9YP24	1.81E+59	1.57E+27	2.09E+91	0.000291895
USP9YP20	2.34E+38	1.50E+15	3.64E+61	0.001185106
USP6	0.074311804	0.008244226	0.669831774	0.020494358
USP54	0.795358908	0.644150387	0.982062272	0.033319723
USP5	1.503278804	1.117175383	2.022822196	0.007111853
USP44	0.729174485	0.563511817	0.943539095	0.016308382
USP4	0.488174876	0.347222325	0.686346159	3.71E-05
USP29	44598035707	519.0590848	3.83E+18	0.008520791
USP20	0.696714972	0.514487559	0.943485888	0.01949078
USP17L8	8.86E+38	9.90E+14	7.93E+62	0.001437407
USP14	1.50757994	1.11399149	2.040228581	0.007831188
USP12PX	0.00025581	8.90E-08	0.735110111	0.041780014

USP1	1.290597293	1.000159689	1.66537543	0.049856683
USHBP1	0.527231658	0.306218758	0.907760267	0.020940507
USF1P1	0.033301225	0.001334234	0.831166941	0.038207527
USE1	0.68623179	0.495318363	0.950730086	0.023591645
UQCRFS1P2	3.03E-05	4.57E-09	0.200501679	0.020452126
UQCRFS1P1	2.425345819	1.221784344	4.814517692	0.011323401
UQCRB	1.326162821	1.001335206	1.756362721	0.048921835
UPRT	0.598844633	0.421228564	0.851354644	0.004283978
UPK1B	1.151884575	1.068210409	1.242113036	0.000237987
UNG	1.369973251	1.0884691	1.72428111	0.007311835
UNC5D	2.252659289	1.7162345	2.956748551	4.85E-09
UNC45B	0.014277176	0.00114044	0.178736093	0.000983127
UNC13B	0.771897618	0.665524772	0.895272359	0.000620998
UMPS	1.414418824	1.000523894	1.999533067	0.049654401
UMODL1-AS1	0.552776358	0.336563619	0.907886903	0.019196399
UHRF1	1.330711164	1.122087679	1.578122847	0.001023617
UGT2B28	2.043241496	1.321806676	3.158431475	0.001302224
UGT2B11	1.294138242	1.080334139	1.550255359	0.00513152
UGDH-AS1	0.3899032	0.241760986	0.628821497	0.000112302
UCP2	0.834832643	0.702710939	0.991795493	0.040006144
UCN2	1.369242864	1.092325605	1.716361873	0.006410919
UCKL1-AS1	0.634973852	0.423888813	0.951173468	0.027612269
UCK2	1.348553105	1.158686123	1.569532456	0.000112307
UCHL5	1.559267065	1.110426708	2.189531072	0.010326108
UCA1	1.184473848	1.073822673	1.306526984	0.000716038
UBXN11	0.765097894	0.627662233	0.932627066	0.008039677
UBTFL1	7.355771133	1.010791325	53.52971245	0.048773831
UBTD1	0.767059738	0.635813382	0.925398329	0.005610496
UBR2	0.680900414	0.477592572	0.970754993	0.033670774
UBQLN1P1	1.46E+12	1.24330378	1.72E+24	0.048231768
UBQLN1	1.518039052	1.067278455	2.159176503	0.020222393
UBE2W	0.73059528	0.554436086	0.962724968	0.025759713
UBE2V2	1.403093821	1.069519083	1.840707943	0.014477169
UBE2T	1.205715773	1.05412035	1.379112474	0.006356943
UBE2SP2	2.358542832	1.254409647	4.434535645	0.007731147
UBE2SP1	1.572626383	1.209789184	2.044284882	0.000716948
UBE2S	1.311293253	1.127795283	1.524647266	0.000425753
UBE2R2	1.603278533	1.13259253	2.269573553	0.007764656
UBE2MP1	1.97610197	1.346717944	2.899626467	0.000498703
UBE2M	1.570830844	1.162884215	2.121887551	0.003244735
UBE2K	1.432618777	1.059992126	1.936237552	0.019333955
UBE2HP1	4.203494343	1.183465128	14.93019462	0.026388698
UBE2H	1.43012697	1.079534004	1.894579645	0.012655817
UBE2G1	1.499400446	1.091576565	2.059591393	0.012385387
UBE2FP3	0.528275883	0.343969535	0.811337577	0.00355692
UBE2E3	1.437044516	1.10819211	1.863482805	0.006241878
UBE2E2	1.261635498	1.017803656	1.563881325	0.033920571
UBE2D1	1.557983189	1.151106081	2.108677608	0.004088748
UBE2C	1.160711037	1.05461661	1.277478562	0.002309194

UBC	1.477600453	1.028781648	2.12222205	0.034551474
UBASH3A	0.695666231	0.516845226	0.936356728	0.016677807
UBALD2	1.349222724	1.054657846	1.726059278	0.017152648
UBAC2	1.518782115	1.089085408	2.118014892	0.013782037
UBA7	0.82938813	0.695185639	0.989497815	0.037783362
UBA2	1.339520021	1.057231992	1.697180845	0.015482795
U91328.19	0.418089882	0.261270901	0.669034129	0.000277408
U62631.5	0.570706227	0.349944232	0.930735723	0.024601312
U52112.12	476.4943377	2.378391263	95462.36458	0.02258577
U47924.27	0.854687476	0.737738101	0.990176162	0.036486651
U2SURP	1.381140526	1.029966469	1.852049761	0.03098886
TYRP1	0.747186062	0.578055769	0.965801295	0.026033848
TYRO3	1.31577966	1.031910776	1.677738186	0.026876463
TYMS	1.340003657	1.148940037	1.562840307	0.000192312
TXNRD1	1.144066912	1.039264938	1.25943737	0.006039102
TXNP5	1.459492531	1.1126899	1.914386431	0.006307383
TXNP4	1.819060787	1.233254604	2.683129773	0.002550989
TXNDC5	0.791652313	0.630997843	0.993210028	0.043504201
TXNDC15	0.683361799	0.508886188	0.917657739	0.011365009
TXNDC11	0.622009338	0.482973491	0.801070087	0.000234772
TXN	1.252026874	1.062129112	1.475876403	0.007402384
TXLNB	0.629763893	0.406877309	0.974747305	0.038012327
TWIST2	1.246327256	1.005772668	1.544416226	0.044159594
TWF1	1.346863982	1.084221602	1.673128983	0.007132352
TUSC5	3.742286321	1.566306069	8.941232619	0.002980701
TUSC2	0.584463971	0.388335772	0.879646322	0.010031474
TUFT1	1.246911417	1.01348868	1.534095162	0.036918797
TUBGCP6	0.781327527	0.637512268	0.957585814	0.017428314
TUBG1	1.252297476	1.019588004	1.538120262	0.031960361
TUBB8P6	124936.0972	1.520088968	10268496592	0.042103983
TUBB8P11	0.569033772	0.357080261	0.906797347	0.017717243
TUBB6	1.242984173	1.058343228	1.459837994	0.008023406
TUBAP2	1.510497457	1.005292034	2.269591809	0.047103182
TUBAL3	1.445268704	1.134178025	1.84168762	0.002900707
TUBA4A	1.258290071	1.052392156	1.504471403	0.011732591
TUBA1C	1.40057816	1.136213859	1.726452435	0.001596885
TUBA1B	1.335656821	1.094316604	1.630222128	0.004422283
TUB-AS1	9.12E+24	37402220.96	2.22E+42	0.004898751
TTY4C	4.41E+38	2.09E+16	9.32E+60	0.000692208
TTY4	1.54E+74	4.10E+13	5.75E+134	0.016375038
TTLL2	0.34403513	0.132784315	0.891371624	0.028041358
TTLL12	1.375299408	1.117939474	1.691905963	0.002572896
TTLL10	0.632190907	0.423796689	0.943059144	0.02462263
TTK	1.254481101	1.070391202	1.470231472	0.005108957
TTC39C-AS1	0.598698147	0.379348458	0.944881843	0.027560318
TTC39B	0.728726876	0.547409961	0.970100834	0.030165095
TTC34	0.39256883	0.18227978	0.845460128	0.016901236
TTC31	0.669471979	0.450755857	0.994313716	0.046787455
TTC3-AS1	0.168669561	0.038817859	0.732895163	0.017569976

TTC28	0.727673838	0.54486059	0.971825131	0.03127393
TTC25	0.797984009	0.652211993	0.97633666	0.028332719
TTC24	0.474638121	0.232021869	0.97094876	0.041280881
TTC23L	0.326514183	0.137637338	0.774582777	0.011101023
TTC21A	0.606944292	0.423494247	0.869861576	0.006543251
TTC19	0.669083136	0.498468114	0.898096046	0.007460115
TTC16	0.454274323	0.240282595	0.858843565	0.015171871
TTBK2	0.525705069	0.310608913	0.889754956	0.016618354
TSTD1	0.843414793	0.713558202	0.996903283	0.045898886
TSR1	1.425901387	1.044099373	1.947319207	0.025657044
TSPYL4	0.71956655	0.548901614	0.943294768	0.017191622
TSPYL2	0.712316881	0.566435081	0.895769622	0.003715131
TSPY16P	3.37E+11	19.51122086	5.81E+21	0.027314212
TSPAN7	0.865860193	0.77419639	0.968376866	0.0116421
TSPAN32	0.515415099	0.336445026	0.789587313	0.00232277
TSPAN11	0.830930849	0.73557523	0.938647807	0.002901145
TSNARE1	0.731259442	0.584035826	0.915595152	0.006357157
TSLP	0.335392234	0.140149906	0.802625947	0.014134883
TSKU	1.161719502	1.017979186	1.325756184	0.026122384
TSGA10	0.626685896	0.402395966	0.975991922	0.03868927
TSC22D3	0.855737027	0.741989194	0.986922539	0.032285607
TSC22D2	1.326269718	1.059906109	1.659572816	0.01356423
TRPC6P	2.153980195	1.008283789	4.601512723	0.047561543
TRPC2	0.316023107	0.11589006	0.86177023	0.024409691
TRPA1	3.010625008	2.031682958	4.461258537	3.96E-08
TROAP	1.171378337	1.027896772	1.334888137	0.017659627
TRMT2B-AS1	0.356789879	0.144169227	0.882983289	0.025804648
TRMT112P7	122.1908435	1.232742385	12111.69699	0.04044371
TRMT112P3	3.394017793	1.350506633	8.529655835	0.009348519
TRMT10B	0.636002891	0.45285213	0.893226841	0.009012835
TRMT10A	1.55713907	1.115553643	2.173523523	0.009251582
TRIP4	1.471755195	1.007866149	2.149157757	0.045443654
TRIP13	1.175426574	1.026963555	1.345352154	0.018967331
TRIP10	1.399977696	1.078807833	1.816762437	0.011390679
TRIML2	2.061296958	1.218866516	3.485980699	0.006969994
TRIM7	1.664871922	1.263164013	2.194329863	0.000296659
TRIM62	0.592335004	0.414136971	0.847209454	0.004130301
TRIM60P5Y	1.26E+34	6.43E+12	2.45E+55	0.001694814
TRIM60P16	24929253316	462.3465323	1.34E+18	0.008400796
TRIM60P15	71877.04692	3.204361643	1612274284	0.028684925
TRIM6-TRIM34	3.17E+14	74.37418659	1.35E+27	0.024424243
TRIM6	1.439346942	1.190868644	1.739670978	0.000165475
TRIM59	1.540326532	1.146279997	2.069830959	0.004162755
TRIM58	1.413697828	1.03867167	1.924132147	0.027721562
TRIM40	1.736291367	1.130664327	2.666315404	0.011699093
TRIM39	0.631043057	0.425775264	0.935271195	0.021830282
TRIM38	0.604624339	0.437719186	0.835171506	0.002267016
TRIM29	1.17141072	1.068881139	1.283775179	0.000710936
TRIM28	1.614798213	1.242575433	2.098523116	0.000337675

TRIM27	0.698285594	0.488969013	0.997205871	0.048227942
TRIM24	0.699396424	0.541911176	0.902648588	0.00601732
TRIM22	0.808646313	0.69192653	0.945055336	0.007573632
TRIM2	0.831124112	0.719146613	0.960537499	0.012235982
TRIM16	1.268030847	1.063429707	1.511996719	0.008170006
TRIM15	1.233300803	1.031928558	1.473969161	0.02113743
TRIM10	1.75709865	1.055835809	2.924124793	0.030079474
TRI-TAT2-2	0.746400462	0.572802207	0.972610864	0.030343432
TRHDE-AS1	2.272077595	1.083414356	4.764877417	0.029855828
TRHDE	2.096810738	1.253832947	3.50653991	0.004770071
TRGV6	0.37002815	0.148805412	0.920133415	0.032431246
TRGV5P	0.193444103	0.055810357	0.670495992	0.009590461
TRGV3	0.563266867	0.332048495	0.955491646	0.033269164
TRG-AS1	0.59256471	0.396737007	0.885052137	0.010572613
TREML1	0.437320216	0.271106407	0.705438772	0.000698272
TREM2	0.874907239	0.778090835	0.983770328	0.02552065
TRDMT1	0.359011051	0.194244153	0.663540871	0.001080218
TRBV7-9	0.805624852	0.665122018	0.975808024	0.027076373
TRBV7-6	0.64671569	0.457389565	0.914409109	0.013652593
TRBV7-4	0.546496106	0.30252342	0.987222721	0.045221915
TRBV6-6	0.710383922	0.517997071	0.974224267	0.033836355
TRBV6-5	0.737695878	0.56927877	0.955937999	0.021405384
TRBV6-1	0.749131324	0.565242972	0.992843377	0.044437171
TRBV5-1	0.712536485	0.563381616	0.901179996	0.004680507
TRBV4-1	0.741278649	0.565027171	0.972509048	0.030680001
TRBV3-1	0.712926304	0.546358872	0.930274844	0.012691729
TRBV29-1	0.808142276	0.665310738	0.981637452	0.031814176
TRBV28	0.836484937	0.72411373	0.96629441	0.015274916
TRBV27	0.66564928	0.446746476	0.991813002	0.045460462
TRBV25-1	0.592732507	0.411349182	0.854096326	0.005013902
TRBV23-1	0.565625178	0.334868129	0.955396512	0.033124572
TRBV21-1	0.411083592	0.205934191	0.820600595	0.011716088
TRBV20-1	0.765466388	0.64385464	0.910048254	0.002463749
TRBV2	0.682051773	0.516192782	0.901203267	0.007108578
TRBV19	0.783709315	0.632522904	0.97103249	0.025828325
TRBV18	0.68213851	0.512909781	0.907202327	0.008553364
TRBV14	0.603607204	0.3897073	0.93491104	0.023730737
TRBV12-4	0.724588245	0.530480109	0.989722549	0.042877884
TRBV12-3	0.565308511	0.36738702	0.869855753	0.009484591
TRBV10-3	0.729171527	0.55041008	0.965990876	0.027729422
TRBV1	0.079359228	0.012094518	0.520722455	0.008295216
TRAV9-2	0.636071208	0.470091989	0.860654065	0.003361022
TRAV9-1	7.447137419	1.19460214	46.42537785	0.031523312
TRAV8-6	0.653468907	0.467507097	0.913401346	0.012770589
TRAV8-5	0.257364429	0.099499095	0.66569901	0.005123264
TRAV8-4	0.668196066	0.474780561	0.940404935	0.020756964
TRAV8-3	0.730419128	0.562689891	0.948145881	0.018275562
TRAV8-2	0.606413632	0.425127951	0.865004271	0.005775897
TRAV6	0.563686506	0.33611847	0.945328821	0.029773477

TRAV4	0.732737614	0.546604789	0.982253398	0.03755149
TRAV38-1	0.499680826	0.26509859	0.941841782	0.031934093
TRAV36DV7	0.646658908	0.423873447	0.986539134	0.043088629
TRAV35	0.568540788	0.344314457	0.938789008	0.027326982
TRAV34	0.173300017	0.062920186	0.47731734	0.000697201
TRAV3	0.642524671	0.451233139	0.914910536	0.014161652
TRAV26-1	0.5661922	0.365466313	0.877163219	0.0108727
TRAV25	0.566277111	0.351182266	0.913114919	0.019656981
TRAV23DV6	0.591385264	0.397237922	0.880420801	0.009674929
TRAV22	0.5745678	0.356837172	0.925150693	0.022603075
TRAV21	0.648963643	0.492218686	0.855623368	0.002173643
TRAV20	0.587611647	0.372824975	0.926138191	0.021990838
TRAV17	0.701985877	0.508659103	0.968790627	0.031328339
TRAV15	0.000308081	9.43E-07	0.100704419	0.00619856
TRAV14DV4	0.595983369	0.423500232	0.838715424	0.002988275
TRAV13-1	0.775699718	0.620602816	0.969557399	0.025641862
TRAV12-2	0.770269186	0.595663354	0.996056943	0.046581365
TRAV12-1	0.675077149	0.515921261	0.883330835	0.004179669
TRAV10	0.514132783	0.304128024	0.869148838	0.013010285
TRAT1	0.749404693	0.572529138	0.980923688	0.035712429
TRAPPC2P8	1.51E+24	8.91E+11	2.56E+36	0.000106572
TRAK2	0.688367291	0.510812483	0.927638895	0.014149119
TRAJ54	0.071222284	0.006643567	0.76353771	0.029044885
TRAJ42	0.44047601	0.197292046	0.983410733	0.045415453
TRAJ34	0.568384046	0.338021265	0.955739941	0.033114356
TRAJ28	0.467790369	0.237002573	0.923314149	0.028528038
TRAJ14	0.536919121	0.294006977	0.980528237	0.042974405
TRAFD1	0.71436126	0.525139534	0.971764601	0.0321622
TRAF7	1.37048997	1.004425354	1.869967488	0.046832289
TRAF3IP3	0.644054759	0.493829543	0.839979175	0.001167106
TRAF3IP2-AS1	0.412548076	0.182315825	0.933522446	0.033580889
TRAC	0.87523316	0.767429622	0.998180241	0.046908739
TPX2	1.25449589	1.123257827	1.401067413	5.78E-05
TPSB2	0.866821378	0.781821168	0.961062878	0.006643901
TPSAB1	0.870627026	0.778642546	0.973478037	0.01502478
TPRKBP1	2294.145339	8.007814265	657245.8679	0.007347465
TPPP2	7.92E-06	3.70E-10	0.169450923	0.02094807
TPPP	0.825975187	0.714318949	0.955084574	0.009876119
TPM3	1.554586277	1.126615606	2.145131383	0.007238984
TPI1P1	1.24090131	1.044042981	1.474878036	0.014325122
TPI1	1.536454559	1.214783084	1.943303824	0.000339279
TPGS1	1.507883369	1.002694154	2.267602983	0.048508286
TPBG	1.275978366	1.06154674	1.533725015	0.009425493
TP73-AS1	0.672083258	0.510731802	0.884409202	0.004555332
TP53TG5	0.258909137	0.091202505	0.735001097	0.011139021
TP53RK	0.697617352	0.500385718	0.97258965	0.033678814
TP53INP1	0.730828549	0.601069508	0.888600006	0.001665213
TP53I3	1.322512195	1.111737491	1.57324775	0.001600601
TOX	0.825457049	0.699775079	0.973711925	0.022842119

TOR4A	1.346711066	1.090129391	1.66368388	0.005777204
TOP2A	1.168331155	1.045268179	1.305882753	0.006151619
TOMM40	1.392988664	1.13122831	1.715319003	0.001802242
TOMM20P2	0.64774619	0.436371231	0.961509597	0.031183692
TNS4	1.224208519	1.127616265	1.32907492	1.41E-06
TNS2	0.821792031	0.682563516	0.989420217	0.038240821
TNS1	0.816600497	0.704420053	0.946645924	0.007205714
TNRC6C	0.668867519	0.490262203	0.91253977	0.011167414
TNRC18P3	106.6796372	2.452043447	4641.249322	0.015270474
TNRC18P1	0.006586146	0.000204269	0.212354252	0.004592029
TNPO1	1.649319148	1.220256856	2.229246769	0.001134491
TNNT1	1.129715721	1.044814162	1.221516377	0.002215223
TNNC2	0.872849217	0.792840966	0.960931371	0.005564228
TNNC1	0.849967361	0.750746208	0.962301917	0.010266834
TNK2-AS1	0.269653956	0.085545111	0.849998972	0.025259609
TNIP2	1.630757364	1.147984314	2.316555677	0.006323647
TNIK	0.805211322	0.675776622	0.959437262	0.015389194
TNFSF8	0.691603359	0.520550889	0.91886349	0.010969221
TNFSF13	0.761937512	0.623370008	0.931306873	0.007933998
TNFSF12	0.759646506	0.613120867	0.941189324	0.011925941
TNFRSF1A	1.433220434	1.090619769	1.88344359	0.00981329
TNFRSF19	0.818650004	0.711739581	0.941619445	0.005071778
TNFRSF17	0.829261164	0.723262621	0.950794438	0.007294859
TNFRSF14	0.806698234	0.674779959	0.964406295	0.018384869
TNFRSF13C	0.789157764	0.648145406	0.960849171	0.018393101
TNFRSF13B	0.626542699	0.435786992	0.900797317	0.011604027
TNFRSF11A	1.441017454	1.105605749	1.878184248	0.006879832
TNFRSF10C	0.788023245	0.653087297	0.950838636	0.012917796
TNFAIP8L2	0.822975745	0.700457447	0.966923945	0.017839109
TNFAIP6	1.165728792	1.003343096	1.354395743	0.045116051
TMX4	0.762639858	0.618609737	0.940204329	0.011170415
TMX2	1.455920976	1.043659059	2.031032903	0.026997684
TMX1	1.370713495	1.067208995	1.760531906	0.013536182
TMTC3	1.296852906	1.000371066	1.681203624	0.04967345
TMSB4X	0.799035899	0.66506989	0.959986879	0.016570698
TMSB10P1	1.231110828	1.019604373	1.486492123	0.030631326
TMPRSS4-AS1	0.270745479	0.0884476	0.82877449	0.022080388
TMPRSS2	0.817441824	0.73645001	0.907340792	0.000152763
TMPRSS11E	1.143517059	1.05459177	1.239940706	0.001166915
TMPRSS11CP	0.237417187	0.071995167	0.782926452	0.018180004
TMPO-AS1	1.585852873	1.184557418	2.123096186	0.001949847
TMPO	1.330594739	1.095635378	1.61594121	0.003960099
TMOD3	1.564937149	1.197414399	2.045263764	0.001041273
TMIE	1.524480372	1.086615836	2.138787534	0.014653996
TMF1P1	3145.885293	1.428422899	6928336.339	0.040290528
TMEM98	0.840541055	0.723842141	0.976054343	0.022740114
TMEM97P2	9654097.323	1507.502664	61825161122	0.000322569
TMEM8B	0.65609761	0.50877662	0.846076759	0.001161384
TMEM81	1.528255277	1.103374388	2.116746788	0.010715384

TMEM65	1.270752058	1.024571237	1.57608445	0.029190329
TMEM64	1.208838283	1.008021878	1.449660991	0.040740285
TMEM63C	0.829572244	0.715988597	0.961174676	0.012880344
TMEM63A	0.804907629	0.652674288	0.992648711	0.042464058
TMEM57	0.560145108	0.40245194	0.779627357	0.000591
TMEM55B	0.650571958	0.457826001	0.924464471	0.016481363
TMEM53	0.701452594	0.505170549	0.973999263	0.034237485
TMEM50B	0.615719081	0.484794779	0.782000969	7.01E-05
TMEM5	1.530529228	1.07187875	2.18543349	0.019185706
TMEM44	1.287361996	1.011840729	1.637906896	0.039805214
TMEM41A	1.48699266	1.097098179	2.01545059	0.010550305
TMEM38B	1.24776176	1.009059961	1.542930519	0.041030987
TMEM35	0.75592476	0.584228057	0.978080794	0.03329073
TMEM253	3.502522406	1.09280665	11.22583141	0.034918053
TMEM252	0.375712292	0.164835816	0.856365619	0.019867506
TMEM25	0.662113482	0.524235688	0.836254137	0.000538166
TMEM243	0.73499172	0.596941682	0.904967512	0.003723068
TMEM241	0.633735701	0.470367079	0.853845766	0.002710833
TMEM239	45.85216776	1.069635042	1965.550123	0.046035019
TMEM232	0.539742502	0.296645523	0.982054154	0.043460071
TMEM231	0.721694124	0.565460818	0.92109372	0.008785197
TMEM215	0.288387839	0.098889959	0.841011026	0.022783683
TMEM212	0.678613888	0.466352092	0.987487387	0.042789888
TMEM194B	2.002883641	1.300185176	3.085362724	0.001628681
TMEM194A	1.268880262	1.024855142	1.571009458	0.028869755
TMEM185B	1.359638326	1.039399354	1.778542935	0.024963571
TMEM184B	1.339496714	1.016988873	1.764278347	0.037540772
TMEM173	0.822076846	0.70078188	0.964366175	0.016152673
TMEM171	1.403490492	1.168544047	1.685675065	0.000287498
TMEM170B	0.587406797	0.41836687	0.824746817	0.002120756
TMEM168	0.669656191	0.464259316	0.965924428	0.031916041
TMEM164	1.260147707	1.001384218	1.585777183	0.048637071
TMEM163	0.81772951	0.723584756	0.924123325	0.001262292
TMEM158	1.167637455	1.00837169	1.352058213	0.038322508
TMEM150A	0.703763909	0.57185823	0.86609515	0.00090817
TMEM130	0.817588775	0.713828825	0.93643095	0.003631873
TMEM125	0.737108971	0.647380247	0.839274348	4.11E-06
TMEM110-MUSTN1	0.199165133	0.044686569	0.887666045	0.034324388
TMEM110	0.228763982	0.097983389	0.534100322	0.000650307
TMEM11	1.693487	1.225167939	2.340820494	0.001425037
TMEM106B	1.255630802	1.004948575	1.568845162	0.045133488
TMED7-TICAM2	4.572642251	1.40289734	14.90419616	0.011684395
TMED7	1.316330979	1.004548264	1.724882028	0.046275933
TMED1	1.339626636	1.008129732	1.780127563	0.043822471
TMCO5B	299536.1617	32.70044276	2743752212	0.006744179
TMC7	1.35928852	1.047046473	1.764644958	0.021154612
TMC3-AS1	0.494050362	0.256918042	0.950053013	0.034554143
TMA16	1.754359525	1.239240882	2.483598942	0.001527472
TM9SF3	1.433687035	1.073280658	1.915117448	0.014740136

TM6SF1	0.632317224	0.483090764	0.82763965	0.000845734
TM4SF4	1.090491797	1.021361088	1.164301609	0.009528283
TM4SF20	1.182825522	1.033414653	1.353838183	0.014808671
TM4SF19-AS1	1.616717701	1.096625352	2.383472276	0.015278666
TM4SF19	1.419891898	1.173558446	1.717931485	0.000310717
TLX3	1.634858771	1.003444875	2.663587477	0.048407606
TLR8-AS1	0.769510996	0.595477013	0.994408112	0.045195482
TLR8	0.811225992	0.664886713	0.989774043	0.0392807
TLR7	0.694464942	0.541629269	0.890427427	0.004039258
TLR4	0.834250401	0.698960989	0.995726146	0.044706315
TLR2	0.810264674	0.709776774	0.924979325	0.001843843
TLR10	0.681544066	0.533271634	0.871042605	0.002191497
TLE2	0.787367271	0.668779984	0.926982316	0.004100582
TLE1P1	1.59249725	1.12033218	2.263656742	0.009508267
TLE1	1.813765636	1.434127223	2.293900937	6.73E-07
TLDC1	1.647991124	1.245903217	2.179844073	0.000464156
TK2	0.741266439	0.57182892	0.960909661	0.023752486
TK1	1.309411925	1.145019451	1.497406518	8.20E-05
TIPIN	1.543765826	1.098251479	2.170006572	0.012439796
TINAG	1.280905865	1.068734725	1.535198396	0.007374776
TIMM10B	0.569956332	0.403588685	0.804904182	0.001411198
TIMELESS	1.229940158	1.030850776	1.4674799	0.021606411
TIFAB	0.427403065	0.210843231	0.86639433	0.01838552
TICRR	1.585997608	1.216185757	2.068260048	0.000662054
TICAM1	1.628169986	1.236350243	2.144163855	0.000519538
THYN1	0.618773793	0.464027199	0.825126218	0.001079203
THSD7B	0.459530916	0.232207472	0.9093965	0.025570377
THSD1	0.647182721	0.466234789	0.898357403	0.009306628
THRA	0.727488235	0.56759531	0.93242337	0.011987647
THOC7-AS1	0.093731535	0.009332646	0.941383653	0.044295481
THEMIS2	0.824924128	0.69743532	0.975717457	0.024642997
THEMIS	0.698336487	0.516977516	0.943317329	0.019268049
THAP9	0.546766412	0.306546312	0.975231139	0.040863194
THAP10	1.467438179	1.033817693	2.082934763	0.031867412
TH	2.346996438	1.42960004	3.853100257	0.000743649
TGM5	1.681448155	1.066044196	2.652111337	0.02541519
TGIF2LY	3.21862747	1.076284264	9.625303593	0.036483583
TGIF1	1.592238359	1.237244662	2.049087841	0.000301447
TFG	1.504904345	1.138212707	1.989730981	0.004123836
TFF1	1.055758341	1.007696425	1.106112562	0.022460786
TFEC	0.769355198	0.59917137	0.987876675	0.039822247
TFEB	0.664306628	0.516552394	0.854324365	0.001439479
TFDP1	1.340684529	1.100763293	1.63289875	0.003565367
TFAP2A-AS1	1.449741044	1.044611527	2.0119911	0.026352851
TFAP2A	1.277337504	1.116706565	1.461074154	0.000357296
TFAM	1.42311715	1.059759493	1.911058532	0.018984081
TEX9	0.716297883	0.537099945	0.955283391	0.023123447
TEX30	1.246906004	1.003721554	1.549009858	0.046204246
TEX13A	52.65753381	7.548091618	367.3532341	6.35E-05

TEX10	1.474728851	1.013768617	2.145287541	0.042206938
TET2	0.677320371	0.459724292	0.997908732	0.048775124
TESPA1	0.589321208	0.425778289	0.81568153	0.00143063
TESK2	0.569008918	0.395566315	0.818500302	0.002368644
TESC-AS1	1.762009259	1.103907001	2.812444006	0.017581191
TES	1.276537197	1.005589854	1.62048892	0.044882067
TERT	1.578514007	1.109578383	2.245633573	0.011145421
TERF2IP	0.654056911	0.468131709	0.913824964	0.012843595
TENM3	1.45744572	1.155217975	1.838742188	0.001488808
TEKT4	0.62735356	0.395484499	0.995165398	0.047641697
TEKT3	0.420481471	0.21462948	0.823766927	0.011570118
TEKT2	0.845842567	0.729824352	0.980303885	0.0261321
TEK	0.782224801	0.63313749	0.966418272	0.022811427
TECRL	10.91175649	1.222370165	97.40619751	0.032375561
TECPR1	0.731734592	0.572491041	0.935273175	0.012618118
TEAD4	1.459298644	1.186040499	1.795514179	0.000353108
TDRP	0.824703106	0.69134241	0.983789224	0.032228227
TDRG1	2.843231322	1.155276115	6.997430524	0.022960742
TDRD10	0.838174814	0.715045895	0.982506191	0.029429881
TDG	1.356670401	1.060062357	1.736270103	0.015378056
TCTEX1D1	0.616496423	0.410751046	0.92529975	0.01955916
TCTE1	0.682947101	0.473616813	0.98479769	0.041152057
TCTA	0.623434382	0.498118186	0.780277532	3.68E-05
TCP11L2	0.703688675	0.502517386	0.985394265	0.040794663
TCP10L2	0.000658801	2.68E-06	0.161769766	0.009089123
TCP10	818.7775975	14.39895525	46558.70809	0.001139139
TCP1	1.447545826	1.110715255	1.886522139	0.006200624
TCOF1	1.462474676	1.086907163	1.967814963	0.012062905
TCN2	0.80840822	0.67466039	0.968670845	0.021171519
TCN1	1.112161517	1.046075532	1.182422494	0.000670996
TCL1A	0.765058072	0.600353524	0.974948643	0.030382086
TCF7L1-IT1	0.198985099	0.044895122	0.881945924	0.033558752
TCF21	0.7323433	0.5844233	0.917702475	0.006809705
TCERG1L-AS1	0.300452688	0.111919605	0.806577347	0.017005081
TCEB3-AS1	0.540105773	0.352732027	0.827013777	0.004601154
TCEB1P5	3201120.797	627.6492667	16326274718	0.000583999
TCEB1P32	1.763126459	1.016616654	3.057804432	0.043525991
TCEB1P31	0.12097067	0.019861726	0.736789075	0.021944931
TCEB1P28	0.20121897	0.058857802	0.687913456	0.010575483
TCEB1P19	0.727175456	0.530498066	0.99676922	0.04769495
TCEB1P18	79.93385757	1.867773628	3420.875791	0.022258259
TCEANC	0.442909881	0.228702941	0.857746566	0.01573539
TCEAL8	0.758696582	0.590537741	0.974739569	0.030765601
TCEAL4P1	8873923.65	1.704194377	4.62E+13	0.042608917
TCEAL4	0.743378566	0.570681217	0.96833692	0.027913671
TCEAL3-AS1	0.18072873	0.046498134	0.702455573	0.013517167
TCEAL3	0.741322999	0.589262831	0.932622524	0.010603126
TCEA3	0.860858671	0.762812246	0.97150728	0.015161046
TBX5-AS1	0.704861459	0.540163733	0.919776072	0.009999732

TBX5	0.788250505	0.622254638	0.998528288	0.048590052
TBX4	0.777173099	0.65042288	0.928623583	0.005517353
TBRG4	1.399149612	1.077564644	1.816707374	0.011715504
TBCD	0.649938075	0.489145057	0.863587385	0.002965121
TBCC	0.717385661	0.524105726	0.981943453	0.03810435
TBCA	1.362674506	1.011155691	1.836395547	0.042068439
TBC1D31	1.483796049	1.097733304	2.005633524	0.010275211
TBC1D27	0.485351858	0.274228433	0.859015324	0.013076558
TBC1D24	0.769489091	0.602499703	0.982761416	0.035792442
TBC1D20	0.682529792	0.474233106	0.982316316	0.039781962
TBC1D10C	0.762723775	0.627363127	0.927290006	0.006582251
TAX1BP3	1.33395971	1.015420778	1.752424754	0.038462532
TAT	1.595302726	1.111675194	2.289329475	0.011262769
TAS1R2	7.65E-22	8.95E-40	0.000653253	0.020994483
TAS1R1	0.628807073	0.422410196	0.936053008	0.02228251
TARID	2.266634333	1.580413072	3.250815431	8.69E-06
TAPT1	0.673804844	0.51944685	0.874031612	0.002937271
TAP2	1.287199968	1.063141612	1.558478888	0.009668301
TANGO2	0.59253102	0.398935693	0.880074198	0.009517591
TANC1	0.677158191	0.500153119	0.916805669	0.011674409
TAGAP	0.770823991	0.639496975	0.929120306	0.006306244
TAF2	1.340939354	1.017324938	1.767496581	0.037355742
TAF1A	1.442664452	1.04297541	1.99552233	0.026816544
TACC3	1.367207698	1.153763353	1.6201389	0.000304446
TAC4	0.81311928	0.67325475	0.982039806	0.031701667
TAAR8	310318166	3356.920875	2.87E+13	0.000803437
SZT2	0.700654045	0.532363495	0.92214454	0.011139275
SYTL3	0.736330921	0.599161065	0.904903968	0.003614114
SYTL1	0.791814137	0.671498641	0.933687113	0.005504655
SYT9	2.800647618	1.487953969	5.271417828	0.001415281
SYT8	1.133312581	1.007298861	1.275090697	0.037444208
SYT16	1.863409077	1.137432733	3.052746141	0.013463878
SYT15	0.306320085	0.134606837	0.697081933	0.004801024
SYT11	0.795328548	0.642957375	0.983809384	0.03482454
SYT10	4.44116426	2.206524813	8.938916015	2.95E-05
SYS1	0.602577772	0.407115624	0.891884149	0.011345466
SYNPR-AS1	0.737382584	0.616420802	0.882080997	0.000860824
SYNGR4	1.283605711	1.010326554	1.630803044	0.040946241
SYNE4	0.793653279	0.65724147	0.958377636	0.016315441
SYNE3	0.60482113	0.383670534	0.953444601	0.030367939
SYNE1	0.717043718	0.574109582	0.895563686	0.003363569
SYNCRIP	1.456449369	1.029815603	2.059829702	0.033495676
SYMPK	1.341494216	1.046044414	1.720392278	0.020633244
SYF2P2	0.007535889	0.000149412	0.380086873	0.014543812
SYDE2	0.669932943	0.486153245	0.923186573	0.0143456
SYAP1	1.428096452	1.077725999	1.892372902	0.013095729
SWT1	0.658817263	0.434538137	0.998854069	0.049372127
SUZ12P1	0.721900347	0.534737365	0.974572088	0.033322484
SUSD6	0.772239531	0.611025134	0.975989138	0.03051085

SUSD3	0.772680153	0.641879475	0.930135082	0.006423415
SUSD2	0.88224595	0.816723374	0.953025151	0.001462838
SUOX	0.627930674	0.463493756	0.850706026	0.002667551
SUMO1P4	2.857246992	1.158630786	7.046127609	0.022626602
SULT2B1	1.230147423	1.07664229	1.405538957	0.002320028
SULT1A1	0.733585471	0.592020106	0.90900231	0.004623899
SUGP2	0.756769015	0.589065976	0.972215958	0.029226959
STYX	1.459554929	1.062751377	2.004514542	0.019494421
STYK1	1.328194326	1.114805375	1.582428832	0.001492288
STXBP5	1.46657123	1.056410429	2.035980633	0.022147437
STXBP1	0.79530979	0.680537345	0.929438576	0.003974098
STX3	0.669366018	0.50194959	0.892621241	0.006267163
STX16-NPEPL1	0.587000744	0.371224061	0.928199193	0.022687047
STRN4	1.354430887	1.017612129	1.802733061	0.037558368
STRIP2	1.263513168	1.097195666	1.45504177	0.001161906
STRAP	1.481561896	1.182124991	1.856847346	0.000644008
STOX1	0.736660373	0.594542023	0.912750459	0.005193523
STK38L	1.326731681	1.043188124	1.687343742	0.021187349
STK33	0.579860739	0.446968901	0.752263696	4.07E-05
STK32A	0.782511435	0.667344411	0.91755342	0.002533838
STK3	1.428328449	1.002871502	2.034280717	0.0481711
STK24P1	2.071579743	1.011865976	4.241117631	0.046345692
STK24	1.497238662	1.157079544	1.937398013	0.002144067
STK19B	1.189360069	1.011485717	1.398514433	0.035893081
STK19	0.603275938	0.408601531	0.89070116	0.011015754
STK17B	0.691967881	0.556729422	0.860057918	0.000904309
STIP1	1.420618847	1.07438705	1.878427249	0.013763031
STIL	1.276577546	1.02643908	1.587673601	0.028200414
STEAP1	1.140063667	1.027349666	1.265143901	0.013588133
STC2	1.232094794	1.072584486	1.415326813	0.003172275
STC1	1.21021998	1.077763938	1.35895473	0.001254282
STARD9	0.559648651	0.345486767	0.906566164	0.018346954
STARD5	0.430633392	0.206664165	0.897325948	0.024500748
STAP1	0.605872287	0.469089274	0.782540228	0.000123926
ST6GALNAC6	0.643386514	0.507221687	0.816105101	0.000278121
ST6GALNAC4	0.790478084	0.66488089	0.939800813	0.007739078
ST6GAL1	0.813685796	0.685090584	0.966419024	0.018816631
ST3GAL6-AS1	0.59059281	0.354767345	0.983179179	0.042846803
ST3GAL6	0.628130215	0.47330396	0.833602928	0.001280211
ST3GAL5-AS1	0.597245115	0.433782925	0.822304676	0.001582707
ST3GAL5	0.80531299	0.709229253	0.914413793	0.000837179
ST3GAL4-AS1	1.566814971	1.267632335	1.936609762	3.27E-05
ST3GAL4	1.239821144	1.052814974	1.460044269	0.009968083
ST3GAL3	0.737503427	0.552278742	0.984849251	0.039072464
ST13P16	0.000247379	2.85E-07	0.214698817	0.016144384
ST13P13	16.54877189	1.727203343	158.5579672	0.014934881
ST13	1.60006041	1.148534997	2.229094735	0.005458977
SSU72P6	1.50E+15	69.91719524	3.20E+28	0.025669834
SSTR4	6.87E-06	3.60E-10	0.131348043	0.018100551

SSSCA1-AS1	0.634874068	0.407820322	0.988339867	0.044230278
SSRP1	1.452477447	1.078332222	1.956438556	0.014040782
SSR4	0.788242454	0.64941711	0.956744375	0.016069809
SSBP3	0.771607526	0.60026937	0.991851666	0.042987948
SS18L1	0.702535043	0.545650138	0.904527375	0.006178066
SRXN1	1.195222199	1.023754536	1.395408817	0.024001599
SRSF9	1.443563468	1.065309557	1.956122023	0.017881911
SRSF8	0.687027321	0.489360396	0.964537679	0.030117039
SRSF1	1.629659468	1.042337395	2.54791778	0.032208182
SRPK2P	5.474724137	1.13928785	26.30819277	0.033771899
SRPK1	1.374592226	1.057774294	1.786301481	0.017305474
SRGAP2-AS1	2.44E-10	1.80E-17	0.003319675	0.008263599
SRGAP1	2.189956	1.53143054	3.131651849	1.74E-05
SQSTM1P1	39.00334279	1.282380131	1186.279101	0.035490861
SQRDL	1.37733113	1.120357483	1.693246194	0.002376517
SPX	1.24442603	1.082349065	1.4307733	0.002130127
SPRY1	0.81390543	0.67018166	0.988451474	0.037788805
SPRR1B	1.08607953	1.02026258	1.156142318	0.009628593
SPRED3	1.429136816	1.050650296	1.943969412	0.022922303
SPOP	0.63131379	0.419903594	0.949163349	0.027054022
SPOCK1	1.223805631	1.089638809	1.374492365	0.000652121
SPNS3	0.58336845	0.380715765	0.893891926	0.013319236
SPN	0.78024576	0.652622982	0.932825631	0.006468699
SPIN4	1.378897177	1.104027448	1.722201226	0.004619471
SPIN3	0.683985482	0.469973235	0.995452729	0.04728168
SPIN2B	0.548392636	0.342960002	0.876879174	0.012121471
SPIB	0.769240145	0.62834187	0.941733199	0.011036643
SPHK1	1.324008324	1.132246235	1.548248066	0.000438349
SPECC1	1.576677199	1.214535664	2.046799499	0.00062679
SPDL1	1.61683881	1.250198239	2.091002576	0.000250443
SPC25	1.393815562	1.173296875	1.655780272	0.000157647
SPC24	1.242822422	1.063434868	1.45247031	0.006270614
SPATS2L	1.265902985	1.03845175	1.543172676	0.019629698
SPATS2	1.362803566	1.047773941	1.772551776	0.021004015
SPATA7	0.563673977	0.344978858	0.921008186	0.022112041
SPATA6L	0.572966344	0.380465785	0.86286453	0.007675016
SPATA6	0.576226472	0.434551443	0.764091231	0.000128763
SPATA5	1.643605568	1.171901278	2.30517648	0.003988393
SPATA31D3	2.17E+72	2752319490	1.72E+135	0.024188855
SPATA31C1	3983285.019	30.63325516	5.18E+11	0.011420924
SPATA22	3.982402181	1.594521359	9.946261956	0.003085973
SPATA18	0.791837009	0.674967558	0.928942201	0.004175005
SPATA13-AS1	0.135710482	0.021504087	0.85645743	0.03360224
SPATA13	0.686905228	0.526653794	0.895918339	0.005591175
SPATA1	0.193068232	0.053770958	0.69322443	0.011677346
SPARCL1	0.861935012	0.756984429	0.981436257	0.024907932
SPANXA1	20.64857249	2.176917976	195.8565048	0.008347601
SPAG8	0.659033623	0.488804796	0.888545529	0.006236873
SPAG5	1.250162067	1.08510707	1.440323482	0.001997746

SP6	1.187675769	1.026549543	1.374092213	0.020765492
SOX9	1.111395	1.00490765	1.229166527	0.03985673
SOX15	1.214730168	1.045695683	1.411088718	0.010945681
SOWAHD	0.722958474	0.53371225	0.979308522	0.036171798
SOWAHC	1.593664115	1.277525035	1.988035649	3.61E-05
SORT1	0.740153929	0.598758457	0.914939626	0.005405351
SORL1	0.843640385	0.725116735	0.981537268	0.027720511
SORD	1.295308921	1.027841366	1.632377579	0.028331143
SORCS2	0.839007709	0.73120294	0.962706655	0.012363137
SOD3	0.842264247	0.740157573	0.958456803	0.009228101
SOD1	1.28392157	1.000797386	1.647141191	0.049271482
SOCS6	1.385074324	1.011887178	1.895894055	0.0419778
SOCS5P1	1.17E+26	92.77837999	1.49E+50	0.034010055
SNX9	1.350749055	1.040631929	1.75328371	0.023868164
SNX8	1.252833393	1.01824429	1.541468512	0.033098939
SNX7	1.308203353	1.064726272	1.607357738	0.010561941
SNX30	0.7205685	0.608945995	0.852651906	0.000135519
SNX29P2	0.011151652	0.000394825	0.314973442	0.008346796
SNX29	0.728652407	0.544688073	0.974749323	0.032988112
SNX22	0.633926127	0.451380354	0.890296466	0.008524425
SNX20	0.733611029	0.588062137	0.915184141	0.006042445
SNX18P7	1.651769576	1.123968672	2.427418841	0.010620747
SNX1	0.633456044	0.435762975	0.920836747	0.016754173
SNW1	1.761406758	1.183451447	2.621614747	0.005269167
SNURF	0.56448229	0.333575862	0.95522576	0.033118969
SNTN	0.79321912	0.650375193	0.967436304	0.022209663
SNTG2	0.063870378	0.007726975	0.527945972	0.010689025
SNTB1	0.763376906	0.647387921	0.900147009	0.001322622
SNRPN	0.825820016	0.706844775	0.964821022	0.015901624
SNRPGP3	2.012390736	1.061394716	3.815466961	0.032152439
SNRPGP14	0.588347538	0.391048428	0.885191708	0.010924681
SNRPEP2	1.347283832	1.004337407	1.807334579	0.046718834
SNRPE	1.396498663	1.078820386	1.807723085	0.011209684
SNRPD2	1.230659697	1.001168843	1.512755116	0.048717272
SNRPCP17	0.002890423	9.11E-06	0.916940842	0.046649178
SNRPCP10	0.037975589	0.002113487	0.682353547	0.026466474
SNRPA1	1.390696244	1.064667447	1.816563519	0.015533089
SNRPA	1.452446351	1.053875033	2.001755745	0.022573093
SNORD115-46	57609.36517	14.08563256	235618737	0.009784078
SNORD115-20	415.0113548	16.90467691	10188.56648	0.000222984
SNORD115-2	509.2414076	2.474457292	104801.49	0.021829435
SNORD115-11	9881.257336	68.130463	1433121.723	0.000291895
SNORD114-19	6.955464603	1.05651018	45.79083928	0.043681452
SNORD114-14	9.850355634	2.054321257	47.23190483	0.004234664
SNORD114-13	4.109735465	1.525358599	11.07275732	0.005191168
SNORD113-6	299.968149	4.742060831	18975.06034	0.007027237
SNORD112	0.519825654	0.278225274	0.971222728	0.040216075
SNORD104	0.873024044	0.772857633	0.986172549	0.028969758
SNORA7	0.770741444	0.595791846	0.997063616	0.047440024

SNORA67	0.555490046	0.344698653	0.895185369	0.015745912
SNORA55	0.793526266	0.64395222	0.977842635	0.029989651
SNN	0.621730392	0.483083667	0.800169217	0.000222785
SNHG7	0.791192258	0.649751148	0.963422982	0.019764744
SNHG3	0.798890086	0.668688216	0.95444387	0.013374359
SNHG24	4.124420044	1.543047211	11.0241868	0.004732895
SNHG19	0.840150815	0.723770262	0.975245087	0.022052996
SNHG12	0.780873638	0.653913279	0.932483952	0.006293065
SNF8	1.434252502	1.001989282	2.052996252	0.048744
SND1-IT1	0.045039981	0.002462307	0.823861527	0.036562046
SNCB	1.886118567	1.075573301	3.307485642	0.026815657
SNCAIP	0.672006791	0.465544565	0.970032005	0.033801781
SNAI3	0.523362667	0.376407366	0.727691608	0.000118018
SNAI2	1.28515047	1.116905559	1.478738928	0.000457739
SNAI1	1.213985484	1.030266168	1.43046603	0.020552245
SMURF2P1	2.332656056	1.144495119	4.754309726	0.019728947
SMTN	1.286543584	1.011064237	1.637081337	0.040416411
SMS	1.582207473	1.269493177	1.971952691	4.43E-05
SMOX	1.342711854	1.155618966	1.560094786	0.000118531
SMOC1	1.124118455	1.032939526	1.223345867	0.006710627
SMNDC1	1.777805408	1.183554643	2.670423447	0.005574887
SMIM7	0.614309388	0.395674998	0.953752515	0.029936249
SMIM4	0.720636273	0.545540721	0.95193011	0.02106382
SMIM17	0.263004652	0.103681826	0.667151128	0.004920822
SMIM15	1.564855007	1.144346129	2.139886816	0.005041326
SMG9	1.506893723	1.068707964	2.124741996	0.019334886
SMG7	1.402656512	1.012490876	1.943173355	0.041890492
SMG1P7	0.581540796	0.353388376	0.956991571	0.032929698
SMG1P5	0.180118322	0.038299878	0.847068229	0.030000375
SMDT1	0.7224744	0.561528318	0.929551087	0.011468073
SMCR5	0.012769388	0.000176662	0.922991884	0.045862599
SMCO2	2.8492006	1.601349124	5.069440473	0.00036862
SMC2	1.424727115	1.149049014	1.766545489	0.001254286
SMARCD3	0.743860312	0.613496207	0.901925974	0.002612792
SMARCAL1	2.094651609	1.274244203	3.443268845	0.003549596
SMAP2	0.715291355	0.55749785	0.917746541	0.008414574
SMAGP	1.228567088	1.009845639	1.494661196	0.039598625
SMAD9	0.684471749	0.536410755	0.873400786	0.002300667
SMAD3	1.367295309	1.084688204	1.723533504	0.00809475
SLMO2P1	6.41E-05	5.72E-09	0.718500799	0.042412074
SLMAP	1.458727175	1.011557381	2.103573173	0.043229313
SLK	1.327897709	1.041287762	1.693395802	0.022248351
SLIT3	0.78803757	0.65841627	0.943177196	0.009376906
SLFN12	0.749125506	0.576979642	0.972632279	0.030138495
SLCO4C1	0.840123831	0.728361885	0.969034851	0.016764395
SLCO4A1	1.24038254	1.082121756	1.421789035	0.001979848
SLCO1B7	11.7848204	2.931762227	47.37150601	0.000510288
SLCO1B3	1.242171866	1.06947517	1.442755276	0.00451973
SLC9B2	1.391902687	1.051028228	1.843331166	0.02104252

SLC9A9	0.77287749	0.602023462	0.992219825	0.043254817
SLC7A8	0.8317752	0.723496952	0.956258326	0.009638622
SLC7A5	1.173423593	1.04299413	1.320163641	0.007810037
SLC7A11	1.137868621	1.023951703	1.264459052	0.016406631
SLC6A8	1.173805677	1.031842508	1.335300451	0.014827249
SLC6A18	0.096140815	0.014060488	0.657378038	0.016956623
SLC6A17	1.856307234	1.362970728	2.528210237	8.69E-05
SLC6A15	1.435594352	1.067612938	1.930410423	0.016713404
SLC6A14	1.112840361	1.019500113	1.214726366	0.016754804
SLC6A1-AS1	0.198009974	0.044895813	0.873309723	0.032445387
SLC52A3	1.255842681	1.043396455	1.511545139	0.015985946
SLC52A1	0.742674999	0.571860087	0.964512415	0.02568634
SLC4A8	0.546033354	0.383111673	0.778238943	0.000817708
SLC4A5	0.530426193	0.332561884	0.84601381	0.007768012
SLC47A1	0.68548787	0.5714764	0.822245012	4.73E-05
SLC46A3	0.703549515	0.582710725	0.849447073	0.00025516
SLC44A4	0.903483955	0.823524844	0.991206596	0.031811022
SLC44A1	1.463522646	1.14594525	1.869110705	0.002277075
SLC43A3	0.825537831	0.71161251	0.957701981	0.011394058
SLC43A2	0.755949853	0.580348015	0.984685337	0.038043028
SLC43A1	0.79470473	0.648979346	0.973152093	0.026196807
SLC3A2	1.344914499	1.067044187	1.695145365	0.01208975
SLC3A1	1.87462909	1.325177465	2.651897061	0.000383993
SLC39A10	1.32163244	1.044492172	1.672307703	0.020205862
SLC38A2	1.252400546	1.004231908	1.561897323	0.045777056
SLC35G2	1.346442687	1.108205074	1.635895695	0.00275263
SLC35F4	2.541680564	1.059075184	6.099793655	0.036755844
SLC35F2	1.233755841	1.020788523	1.491154574	0.029796475
SLC35E3	1.351953848	1.013693407	1.803088777	0.040117483
SLC35E2B	0.74788506	0.596279991	0.938035941	0.011957633
SLC34A2	0.881398002	0.823566105	0.94329093	0.000266352
SLC2A7	4.536053011	1.268947893	16.21483201	0.019995187
SLC2A3P2	0.075312844	0.00690032	0.82199447	0.03394625
SLC2A11	0.598297391	0.409431789	0.874284259	0.007950623
SLC2A1-AS1	1.56229802	1.000287307	2.440074053	0.049852578
SLC2A1	1.260694284	1.134365867	1.401091237	1.71E-05
SLC29A1	0.776422624	0.62596448	0.963045204	0.021302052
SLC27A6	1.417903467	1.017972713	1.974954945	0.038892266
SLC27A4	1.408384542	1.076169838	1.843154256	0.012604401
SLC27A1	0.705548665	0.549172707	0.9064524	0.006367331
SLC26A5	0.555171671	0.319137078	0.965778049	0.037230048
SLC26A11	0.704467226	0.539220733	0.920354212	0.010214127
SLC25A6P5	8.30E-05	2.54E-08	0.271103834	0.022837975
SLC25A5P1	0.574756923	0.341828619	0.966406854	0.036721464
SLC25A53	0.314788251	0.114391793	0.866247837	0.025222849
SLC25A5-AS1	0.488913354	0.267345908	0.894108573	0.020158585
SLC25A47P1	0.507217461	0.320200697	0.803463437	0.003823812
SLC25A47	4.030671139	1.124282587	14.4503793	0.032371705
SLC25A42	0.522023114	0.394113165	0.691446407	5.82E-06

SLC25A4	0.758844714	0.590372077	0.97539386	0.031203082
SLC25A34	0.445306837	0.247564161	0.800997118	0.006918293
SLC25A33	0.71585254	0.5207766	0.984001314	0.039463602
SLC25A29	0.815345262	0.687367593	0.967150478	0.01910999
SLC25A20	0.740968454	0.552137608	0.994379376	0.045768801
SLC25A1P5	0.172787582	0.032093061	0.930280474	0.040943175
SLC25A16	0.684985932	0.517905131	0.905968485	0.007997387
SLC25A14P1	0.03553781	0.001492191	0.846363363	0.039104407
SLC25A14	0.668592072	0.466079204	0.959097413	0.028755788
SLC25A1	1.281001334	1.001619063	1.638311887	0.048512439
SLC24A4	0.073944283	0.011482409	0.476185526	0.00613011
SLC24A3	0.801103843	0.673827758	0.952420497	0.011998129
SLC22A8	3.27E-29	3.65E-55	0.002918323	0.031443828
SLC22A31	0.904600983	0.839884635	0.974303974	0.008113373
SLC22A25	12.84720551	2.917240385	56.57767877	0.000737004
SLC22A23	0.801163412	0.68439443	0.93785511	0.005811569
SLC22A17	0.836828005	0.70926402	0.987334885	0.034771404
SLC22A15	0.751497292	0.568841967	0.992803298	0.044346499
SLC22A10	5.34E-05	5.23E-08	0.054535547	0.005387945
SLC20A1	1.219116844	1.001621326	1.483840092	0.048140956
SLC18A2	0.521715876	0.354408158	0.768005614	0.000974075
SLC16A3	1.361666929	1.163643214	1.593389453	0.000118064
SLC16A13	1.32242443	1.032189075	1.694269408	0.027065928
SLC16A11	0.719450022	0.578318395	0.89502312	0.003122391
SLC16A1	1.250003622	1.116592293	1.399355041	0.000106597
SLC15A2	0.783666021	0.67372708	0.911544823	0.001573174
SLC15A1	1.263601229	1.081856911	1.475877308	0.003146859
SLC14A1	0.586291683	0.373149946	0.921179117	0.020552916
SLC13A5	1.358636661	1.005396477	1.835985722	0.046043196
SLC12A9	0.777972269	0.606411931	0.998068838	0.04824869
SLC11A2	0.671351491	0.506796955	0.889336094	0.005478606
SLBP	1.315699273	1.012343453	1.709957793	0.04019861
SLAMF9	1.261828154	1.031258941	1.543948107	0.023886939
SLAMF6P1	1.690866083	1.213286452	2.356432896	0.001924642
SLAMF6	0.83089243	0.700198758	0.985980369	0.033866114
SLAMF1	0.629991215	0.479697178	0.827373914	0.00089156
SLAIN1	0.800663036	0.667354649	0.960600632	0.016731295
SLA	0.815968219	0.681297614	0.977258868	0.027110594
SKIL	1.300860965	1.019627237	1.659664618	0.034314325
SKA3	1.396328009	1.172572265	1.662781873	0.00017926
SKA2P1	1.969613086	1.083694892	3.579767458	0.026172812
SKA1	1.310862579	1.112472032	1.544632722	0.001225086
SIX5	1.520788293	1.146055624	2.018049546	0.003679125
Six3os1_7	146.260993	1.578869547	13549.11058	0.030957184
Six3os1_5	2.290810947	1.353829563	3.87627434	0.002009488
Six3os1_2	1.505459378	1.093159591	2.073263554	0.01222863
Six3os1_1	1.206904867	1.012369034	1.438822514	0.035989602
SIX1	0.864987498	0.761867003	0.982065596	0.025131259
SIT1	0.803413282	0.676813031	0.953694555	0.012353402

SIRT4	0.593708813	0.402728179	0.87525575	0.008468547
SIRT2	0.632634483	0.450990347	0.887438925	0.00801337
SIM2	1.350421164	1.043043344	1.748381149	0.022621166
SIGLECL1	8.32E-10	1.59E-18	0.434030656	0.041205152
SIGLEC8	0.728644431	0.546209307	0.972013293	0.031317226
SIGLEC6	0.555289558	0.358858431	0.859242716	0.008265066
SIGLEC22P	0.388390606	0.177853701	0.848153635	0.01763256
SIGLEC18P	0.1980972	0.045352966	0.865268663	0.031369513
SIGLEC17P	0.519691333	0.349303014	0.77319425	0.001242571
SIGLEC11	0.574334728	0.330047581	0.999432806	0.049765828
SIGIRR	0.765866396	0.602577067	0.973404678	0.029236246
SIDT2	0.699705985	0.529288859	0.924992956	0.012160675
SIH2-AS1	0.344657244	0.150959465	0.786890813	0.011439796
SIH2	1.351957704	1.01323533	1.803914233	0.04043088
SHOX2	1.300497692	1.045525232	1.617650339	0.018284543
SHISA4	0.779687876	0.638602715	0.951942687	0.014543565
SHISA2	0.819458479	0.728685111	0.921539618	0.00088717
SHE	0.866168953	0.752333333	0.99722905	0.045655749
SHCBP1	1.45928806	1.210297983	1.759501934	7.51E-05
SHC3	0.691091316	0.529282131	0.902367904	0.00663157
SHC1	1.626115551	1.296593548	2.039383728	2.58E-05
SH3TC2	3.187706116	1.54284487	6.586190535	0.00174126
SH3PXD2A-AS1	1.390425753	1.125946636	1.717029666	0.002199156
SH3GL1	1.584839338	1.168764748	2.149034466	0.00304036
SH3BP5-AS1	0.707546778	0.557128316	0.898576554	0.004554773
SH3BP5	0.712647286	0.572367037	0.887308529	0.002453685
SH3BGRL2	0.835039954	0.725651131	0.960918678	0.011854703
SH2D5	1.850477031	1.333930816	2.567048608	0.000228436
SH2D3A	1.300399387	1.038329514	1.628614561	0.022165151
SH2D1A	0.795289063	0.652103453	0.969914653	0.023723397
SH2B1	0.721226141	0.573893292	0.906383039	0.005062297
SGSH	0.747033223	0.563225874	0.99082564	0.042977881
SGOL2	1.522707975	1.214902772	1.908498054	0.000262783
SGOL1	1.468132389	1.183132284	1.821785052	0.000488264
SGK3	0.606416619	0.406053363	0.905647261	0.014514936
SGCG	0.408417513	0.214049457	0.77928189	0.006597754
SGCA	0.819198882	0.67372767	0.996080224	0.045571762
SFXN2	0.691120781	0.510161156	0.936268723	0.017074044
SFXN1	1.53735102	1.173279317	2.014395145	0.001815377
SFTPD	0.903031336	0.850333872	0.958994602	0.000884913
SFTPC	0.941646911	0.903875969	0.980996216	0.003995106
SFTPBB	0.909053377	0.868133865	0.95190163	4.96E-05
SFTA3	0.831294149	0.767114284	0.900843559	6.57E-06
SFTA2	0.915066615	0.854421089	0.98001667	0.011183344
SFTA1P	0.902190981	0.833881389	0.976096333	0.010400275
SFI1	0.704195749	0.518508135	0.956381626	0.024734332
SETP9	0.034535502	0.00128673	0.92692401	0.044944656
SETP22	7.717466976	1.30909213	45.49664241	0.023976481
SETP2	480.4237354	1.555480414	148383.0741	0.034772167

SETP17	0.045773133	0.007417788	0.282453431	0.000895134
SETDB2	0.418656837	0.28319319	0.61891865	1.27E-05
SETD4	0.643452296	0.453592481	0.912781571	0.013454131
SETBP1	0.734315676	0.564329964	0.955503952	0.021517382
SET	1.467642301	1.093873239	1.969125715	0.01051986
SESN3	0.80675798	0.685687035	0.949206278	0.009644701
SESN1	0.725706068	0.55395555	0.95070678	0.01997445
SERPINH1	1.322745302	1.072213044	1.631816684	0.00903401
SERPINE1	1.152224221	1.037188174	1.280019084	0.008281732
SERPIND1	0.863720522	0.777402663	0.959622568	0.006387896
SERPINB7	1.319618469	1.131600798	1.538875641	0.000405583
SERPINB5	1.183861083	1.087206183	1.289108806	0.000102727
SERPINA5	1.19026618	1.022154781	1.386026466	0.024959415
SERPINA15P	5.21E+16	294199590.1	9.24E+24	7.12E-05
SERF1B	0.193412334	0.051986763	0.71957416	0.014249753
SERBP1P4	14589.02112	9.320945577	22834543.51	0.010626186
SERBP1P3	2.3817167	1.024365835	5.537645089	0.043811953
SERBP1P2	5012.949378	5.900098591	4259193.483	0.013295684
SERBP1	1.8268407	1.275528324	2.616442835	0.001009911
SEPW1	0.748005176	0.620638542	0.901509825	0.002298627
8-Sep	1.368665254	1.003507336	1.866697441	0.0474707
SEPT7P2	0.681767191	0.486891833	0.95464017	0.025732366
4-Sep	0.620096565	0.430793289	0.892585283	0.010128556
2-Sep	1.529432127	1.072468621	2.181101233	0.018960606
1-Sep	0.69683584	0.564402117	0.860344377	0.000783193
SEPSECS-AS1	0.409933894	0.213135578	0.788445547	0.00753498
SEPP1	0.808846912	0.711149774	0.919965599	0.001237539
SENP8	0.454651799	0.253244177	0.816240914	0.00828975
SENP7	0.586997855	0.419670103	0.821041289	0.001860101
SEMG2	2168.134975	3.960149337	1187028.284	0.016950947
SEMA7A	1.213497552	1.040319487	1.415503917	0.01377393
SEMA4G	1.203624522	1.034570426	1.40030292	0.016391534
SEMA4B	1.28689839	1.098151071	1.508087102	0.001827278
SEMA4A	0.743375501	0.610544882	0.905104852	0.003150203
SEMA3C	1.228476497	1.075508918	1.403200362	0.002422543
SEMA3A	1.169107928	1.03266957	1.323572793	0.013598233
SELP	0.791596917	0.657289781	0.953347667	0.013755197
SELK	0.586609152	0.429183784	0.801778421	0.000820796
SELENBP1	0.836016789	0.753471769	0.927604856	0.000733344
SEL1L3	0.791008046	0.648377297	0.965014864	0.020833016
SECISBP2	0.676662847	0.474932366	0.964079606	0.030579582
SEC61G	1.491153234	1.21649894	1.827817431	0.000119672
SEC23A	1.225670454	1.006970915	1.491868374	0.042433983
SEC16B	17.93510182	1.630328547	197.3024872	0.018301317
SEC14L6	0.772204263	0.650728491	0.916356717	0.003074103
SEC14L4	0.78067944	0.650170867	0.937384952	0.007983539
SEC14L3	0.324617628	0.146401513	0.71977811	0.005617904
SEC14L1P1	0.505841369	0.271772428	0.941506437	0.031545839
SEC11C	0.848683004	0.739235351	0.974334953	0.019856473

SDR42E1	0.678833131	0.493232267	0.934274683	0.01744691
SDPR	0.881031068	0.778020091	0.997680846	0.045872679
SDK1	0.806134804	0.697401657	0.931820732	0.003554694
SDHAP3	0.85759171	0.756989314	0.971563967	0.015817647
SDCCAG8	0.632818371	0.441674694	0.906683349	0.012635469
SDCBP2	1.184959597	1.070598144	1.311537156	0.001047835
SCPEP1	0.772507496	0.657904376	0.907073814	0.001630631
SCNN1B	0.840445752	0.761426061	0.927665993	0.000559833
SCN7A	0.743884952	0.618459856	0.894746549	0.001687029
SCN4B	0.64943246	0.50134396	0.841263792	0.001079389
SCN2B	0.477820625	0.253055718	0.902222449	0.02277189
SCN1A	0.56794418	0.363125671	0.888289145	0.013173317
SCML4	0.424179032	0.23156799	0.776997937	0.005486426
SCML2	1.290534177	1.015458681	1.640124302	0.037033892
SCMH1	0.686091476	0.502679406	0.936424903	0.017603794
SCIMP	0.776158321	0.629392635	0.957147742	0.017811626
SCGB3A2	0.940342966	0.896869225	0.985924	0.010867091
SCGB3A1	0.925694981	0.882404786	0.971108963	0.001579379
SCGB2B2	0.402789758	0.178267054	0.91009295	0.028780067
SCGB1A1	0.952293798	0.911845652	0.994536166	0.027287977
SCARF1	0.730002302	0.586982259	0.907869619	0.004673161
SCARB1	1.249790605	1.057918235	1.476462458	0.008740245
SCAMP1-AS1	0.709219403	0.528079829	0.95249266	0.02240479
SCAI	0.54299006	0.342723706	0.860279578	0.009296003
SCAF1	1.499243817	1.121870501	2.003557471	0.006195118
SBSPON	0.73744718	0.54941506	0.989831517	0.042558119
SBK3	1.587117111	1.130344931	2.228470844	0.007641443
SBK1	0.879287552	0.773999877	0.998897573	0.048051264
SATB2-AS1	9.331391268	2.595910058	33.54309704	0.00062326
SATB2	1.655017806	1.204426773	2.274180549	0.001889493
SATB1	0.766827787	0.605223474	0.971583026	0.027898482
SAT2	0.718579533	0.558373355	0.924751405	0.010234283
SASH3	0.803210553	0.692838209	0.931165725	0.003665778
SARM1	0.471178405	0.28408744	0.781481538	0.003555735
SARAF	0.740811175	0.578154037	0.94923007	0.017696699
SAPCD2	1.249134406	1.076237231	1.449807457	0.00342756
SAMM50	1.721782489	1.169272658	2.535366681	0.005923148
SAMD9	1.241664929	1.049757389	1.468655339	0.011509604
SAMD4B	1.315933574	1.007666004	1.71850709	0.043795571
SAMD3	0.390862464	0.176080829	0.867632588	0.020946116
SAMD13	1.428150208	1.093232711	1.865671413	0.008956334
SALRNA1	0.41982334	0.209765519	0.840231688	0.014218433
SALL2	0.815078203	0.68481849	0.970114691	0.021364853
SALL1	1.252048517	1.029685165	1.522431848	0.024246808
SAGE2P	8135043210	68.40835426	9.67E+17	0.016156194
SAE1	1.519887556	1.125487234	2.052496122	0.006310148
SACS	1.540090662	1.086237646	2.183573048	0.015335668
SACM1L	0.676640994	0.472732944	0.968502495	0.032770711
SAAL1	1.457617723	1.056419716	2.011179264	0.021783081

S1PR4	0.778252625	0.637095293	0.950685329	0.014079241
S100P	1.069965238	1.016166739	1.12661197	0.010191582
S100B	0.887583822	0.795349309	0.990514521	0.033154074
S100A16	1.260782145	1.100878049	1.443912537	0.000811437
S100A11	1.272314305	1.038869507	1.558216582	0.019876246
S100A10	1.27585334	1.08432146	1.501216941	0.003331015
RXRB	0.616240577	0.433873159	0.875261447	0.006847507
RXFP1	0.395707797	0.195712404	0.800075304	0.009853851
RWDD3	0.669408355	0.449032076	0.997941058	0.04882912
RWDD2A	0.601002292	0.40982584	0.881359151	0.009148186
RUVBL2	1.441756286	1.080054659	1.92458888	0.013045729
RUVBL1	1.302346873	1.007160051	1.684049497	0.043970996
RUFY3	0.641512101	0.477279205	0.862257921	0.003259065
RTN4RL1	0.820672332	0.681982471	0.987566551	0.036400178
RTN2	1.245608274	1.001293772	1.549535227	0.048658634
RTN1	0.692420338	0.529796124	0.904963065	0.007121807
RTL1	1.507121385	1.010045297	2.248824756	0.044546232
RTCA-AS1	0.630470684	0.435066749	0.91363747	0.014802832
RTCA	1.407863614	1.018062983	1.946912901	0.038621275
RSRP1	0.811699702	0.68935815	0.955753416	0.012318112
RSRC1	1.619039111	1.188932841	2.204739875	0.002224927
RSPO3	1.167387231	1.058207272	1.287831772	0.002006582
RSPO1	0.495663014	0.263717293	0.931610592	0.029257725
RSPH9	0.724345039	0.541859042	0.968288236	0.029438574
RSBN1L	0.636178229	0.442166905	0.91531667	0.014822495
RSAD1	0.692910772	0.493411514	0.973072831	0.034215615
RRP1B	1.461137467	1.094299797	1.950948638	0.010143496
RRN3P2	0.53536372	0.308913071	0.927815427	0.025946565
RRM2B	0.750904483	0.599214069	0.940995167	0.012839444
RRM2	1.322748251	1.164307198	1.502750252	1.73E-05
RRM1	1.388047437	1.083412206	1.778340393	0.009495509
RRAS	1.255659717	1.024920115	1.538345577	0.027980178
RRAGD	0.829550184	0.699187251	0.984219186	0.032167752
RRAGB	0.64002804	0.449931532	0.910440507	0.013072755
RPSAP52	1.372210614	1.069169026	1.761145265	0.012945284
RPSAP35	3.01E+31	137.4496163	6.58E+60	0.035483662
RPS6P7	6073.020249	2.35427665	15665777.83	0.029735234
RPS6KL1	0.574153867	0.387080659	0.851638167	0.005810189
RPS6KA5	0.492294663	0.242419921	0.999728216	0.049912157
RPS6KA4	1.464382599	1.10682382	1.937450529	0.007572335
RPS6KA2	0.841581171	0.716800797	0.988083259	0.035171809
RPS6KA1	0.590566723	0.443361394	0.786647325	0.000317583
RPS4Y2	8.177532758	1.363200261	49.05518574	0.021509258
RPS4XP12	0.016461128	0.000397779	0.681203859	0.03061267
RPS3AP34	0.4227623	0.209936615	0.8513425	0.015926873
RPS3AP30	0.000178072	5.94E-08	0.533567469	0.034535461
RPS3AP15	0.024701762	0.001257223	0.485336959	0.014860878
RPS2P24	0.025483287	0.000696086	0.93292745	0.045742719
RPS29P25	55689339706	550579.8241	5.63E+15	2.58E-05

RPS24P18	12.66325036	1.325640188	120.9663913	0.02746947
RPS24P1	2517.950455	19.34117179	327801.9844	0.001619403
RPS20P25	1580.425313	1.041653235	2397865.323	0.048737158
RPS17P13	9.73E-12	4.28E-21	0.022141505	0.021078038
RPS15AP7	1655.071741	1.399149131	1957805.932	0.040072801
RPS15AP32	814.3169373	1.566672142	423261.5469	0.035669345
RPP25	1.313728484	1.09008624	1.583253202	0.004158164
RPLP2P1	9.605246177	1.102141241	83.71046347	0.040559399
RPL7P53	1.51E-08	1.29E-14	0.017589851	0.011508408
RPL7P35	3.90E-07	7.56E-13	0.201610584	0.027908843
RPL7P3	4.20E-05	1.86E-09	0.945865954	0.048741354
RPL7AP64	0.613913261	0.402132155	0.937227943	0.02380293
RPL6P21	7738.856735	10.81468864	5537829.663	0.007587366
RPL4P6	2.032024533	1.192268438	3.463250032	0.009149382
RPL38P1	281.4117428	12.70019623	6235.539002	0.000359956
RPL37P21	6339111293	23.17979438	1.73E+18	0.022780858
RPL35P4	3.087173603	1.121431763	8.498636444	0.029125617
RPL35AP25	0.03665928	0.001664109	0.807580919	0.036134051
RPL34P26	0.11809051	0.018211536	0.765743659	0.025103724
RPL34P22	0.156470513	0.02976156	0.822639044	0.028485817
RPL34-AS1	0.03054335	0.001299548	0.717861858	0.030330491
RPL32P28	559.0050611	1.798129863	173784.2549	0.030746858
RPL32P1	0.557286734	0.391742779	0.7927868	0.001149445
RPL31P52	0.497397244	0.254253898	0.9730589	0.041377153
RPL31P40	0.324053212	0.126621446	0.829326211	0.018758824
RPL31P13	327885.9031	4.89703668	21953922844	0.025079494
RPL30P1	82819.64479	67.39846904	101769278.5	0.00180816
RPL26P3	0.012318461	0.000284589	0.53320491	0.022190962
RPL23AP81	0.301581615	0.116211456	0.782637737	0.013751877
RPL23AP68	0.014284301	0.000247879	0.823150061	0.039970393
RPL23AP64	0.796211608	0.645288949	0.982432639	0.033565842
RPL23AP53	0.564727208	0.361490041	0.88222851	0.01205657
RPL21P33	0.026398129	0.001021185	0.682404578	0.028506109
RPL21P133	38.70428782	1.429864229	1047.66723	0.029822074
RPL21P126	1837.601055	4.601903751	733778.4145	0.013914801
RPL21P122	0.015797072	0.000286899	0.869810066	0.042543508
RPL18AP7	0.301044247	0.115966683	0.781497201	0.01364389
RPL17P50	1.300632284	1.001778428	1.688641211	0.048461011
RPL13AP17	0.652963566	0.484870948	0.879329685	0.005004086
RPIA	0.705370805	0.524731977	0.948194494	0.020755974
RPEP4	0.017144476	0.000606475	0.4846584	0.017089522
RPE65	1.938723934	1.395996281	2.692450221	7.79E-05
RPE	1.688217013	1.241091338	2.296427826	0.000850394
RPARP-AS1	0.603460897	0.453314138	0.803339283	0.000539929
RP6-91H8.3	1.621054405	1.136573201	2.312052915	0.007661464
RP6-159A1.4	0.596165748	0.446005431	0.796881773	0.000476766
RP5-997D24.3	0.000650805	4.46E-07	0.950150589	0.048413687
RP5-997D16.2	0.585578979	0.416295046	0.823701228	0.002111819
RP5-994D16.9	0.559876111	0.367551201	0.852836988	0.006906551

RP5-991G20.1	1.53069205	1.009523121	2.320915788	0.045006525
RP5-991C6.2	0.5377413	0.329542089	0.877477309	0.013023732
RP5-986I17.2	6.25E+11	82115.53789	4.76E+18	0.000780466
RP5-981O7.2	0.534426176	0.332408618	0.859217609	0.009701893
RP5-973N23.4	0.105235842	0.011801028	0.938442221	0.043708462
RP5-966M1.6	0.444678901	0.221402283	0.893122343	0.022748036
RP5-966M1.4	0.000873551	2.17E-06	0.352449861	0.021413373
RP5-964H19.2	3104.701784	2.046253347	4710645.036	0.031432256
RP5-947P14.2	207.7197487	1.023483778	42157.47718	0.04900743
RP5-945I17.2	985939.9382	13.71345034	70884973317	0.015568837
RP5-943J3.2	0.619104144	0.430327219	0.890694161	0.009774367
RP5-935K16.2	0.017701934	0.00068402	0.458113196	0.015088721
RP5-907D15.4	1.425179694	1.063809958	1.90930452	0.017571167
RP5-907C10.3	1.979446133	1.043993638	3.753094706	0.036450926
RP5-906C1.1	0.594491772	0.360979543	0.979059546	0.041041946
RP5-905H7.9	1.93E+32	3.91E+17	9.53E+46	1.66E-05
RP5-905H7.4	2.83E+13	64.78872574	1.23E+25	0.023513468
RP5-905G11.3	0.062677785	0.004471551	0.878555284	0.039774924
RP5-903G2.2	0.699120642	0.492865999	0.991688762	0.04477566
RP5-902P8.10	0.731040775	0.551028131	0.969860856	0.029844707
RP5-901A4.4	0.08237203	0.009248556	0.733644411	0.025249158
RP5-899E9.1	0.628036094	0.4163078	0.947446421	0.026602783
RP5-892K4.1	0.035968017	0.002174557	0.594925071	0.020193713
RP5-892G5.2	0.047870629	0.005241237	0.43722445	0.00708065
RP5-887A10.1	0.694816404	0.533077876	0.90562722	0.00707751
RP5-877J2.1	0.010940602	0.000198701	0.602397594	0.027259116
RP5-837O21.1	1.73E-06	8.55E-12	0.348310723	0.033239029
RP5-837M10.4	0.01031543	0.000251135	0.423708513	0.015823835
RP5-832C2.5	0.408535094	0.16755972	0.996068287	0.048995889
RP5-831C21.1	0.746434941	0.575869341	0.967520026	0.02714529
RP5-827L5.1	9.93E+32	5.67E+11	1.74E+54	0.002331221
RP5-1189B24.1	0.031356659	0.001566313	0.627741741	0.02354323
RP5-1185I7.1	1.380531669	1.031652819	1.847392509	0.030034963
RP5-1181K21.4	14074503.79	8.565071177	2.31E+13	0.024191322
RP5-1173I20.1	0.023275822	0.0009233	0.58676913	0.022386665
RP5-1171I10.5	0.72400131	0.58961884	0.889011444	0.002049184
RP5-1148A21.3	0.795334115	0.632762207	0.999674676	0.049674897
RP5-1147A1.2	0.370895347	0.16834478	0.817152504	0.013854872
RP5-1132H15.3	0.700319593	0.565277053	0.867623284	0.00111751
RP5-1114G22.2	7427.555715	4.975525587	11087991.19	0.016836207
RP5-1114G22.1	47319569.96	328.4832345	6.82E+12	0.003544322
RP5-1102E8.3	12.60275335	1.518211432	104.6161217	0.018943662
RP5-1099C19.2	0.029953466	0.001060929	0.845683845	0.039560843
RP5-1092A3.4	0.757681837	0.591315859	0.970854677	0.028249291
RP5-1091N2.9	0.648820556	0.458234258	0.918674468	0.014768585
RP5-1074L1.1	3.664473076	1.013074516	13.25505944	0.047729815
RP5-1070G24.2	0.262158173	0.095320781	0.721006551	0.009495825
RP5-1068H6.1	5.30E+12	230880.482	1.22E+20	0.000703763
RP5-1066H13.4	44.79849405	2.135704361	939.6923592	0.014339826

RP5-1065O2.4	0.00264253	1.07E-05	0.65363213	0.034755674
RP5-1059L7.1	1.364183842	1.124998231	1.654222649	0.001591492
RP5-1057J7.7	0.765775534	0.608030362	0.964445534	0.023355232
RP5-1050D4.5	0.585137917	0.368182895	0.9299356	0.023372854
RP5-1049N15.2	0.028684781	0.000952411	0.863930552	0.040938556
RP5-1042K10.10	0.113394713	0.014907873	0.862521497	0.035480795
RP5-1028L10.2	4.517280612	1.821406456	11.20333358	0.001138639
RP5-1028K7.1	1.05E-29	6.86E-58	0.160442636	0.043880946
RP5-1024N4.4	0.453296993	0.224279157	0.916171464	0.027536254
RP5-1024C24.1	19.65528097	1.458259425	264.9254744	0.024818133
RP5-1018K9.1	0.142070248	0.027532665	0.733091218	0.019763365
RP5-1009E24.9	0.334026431	0.173908394	0.641565678	0.00099202
RP5-1009E24.8	0.702723334	0.530607186	0.930669802	0.013846358
RP5-1000K24.2	0.249531741	0.088024345	0.707373504	0.009023462
RP4-815D20.1	4.03E+38	48293.18811	3.36E+72	0.025707844
RP4-803A2.2	0.590183473	0.379807699	0.917086549	0.019035198
RP4-803A2.1	0.651232613	0.442888323	0.957586585	0.029236623
RP4-800J21.3	0.302753131	0.117946806	0.777125396	0.012983397
RP4-798A10.2	0.499613684	0.258166247	0.966872457	0.039401192
RP4-785G19.5	1.810227961	1.221071506	2.683647318	0.003134638
RP4-784A16.2	48.96045973	1.684077688	1423.406197	0.023628385
RP4-782L23.1	0.671092957	0.459905899	0.979256316	0.038575566
RP4-781K5.9	15.12768651	1.945460143	117.6312453	0.009433943
RP4-758J18.7	0.710092375	0.513390065	0.982159989	0.038570799
RP4-756H11.5	0.755706666	0.571897581	0.998592377	0.048853234
RP4-756G23.5	0.303680042	0.146863626	0.627940153	0.001302911
RP4-753P9.3	0.57204167	0.375900289	0.870527854	0.009129031
RP4-742C19.13	0.496450455	0.259584833	0.949450904	0.03428027
RP4-739H11.3	0.291700206	0.13030787	0.652984433	0.002730181
RP4-736H5.3	0.035500003	0.001484783	0.848777489	0.039283894
RP4-728D4.2	0.43380523	0.262806743	0.716066018	0.001090478
RP4-724E13.2	2.183932777	1.194312069	3.993564576	0.01119354
RP4-715N11.2	27.53321697	5.269817784	143.8527987	8.49E-05
RP4-697P8.3	25540.19488	23.55764784	27689587.64	0.004426633
RP4-694A7.2	1.806634065	1.347649636	2.421940062	7.65E-05
RP4-682C21.2	0.476831368	0.237761984	0.956284722	0.036991379
RP4-673M15.1	0.500498237	0.255394859	0.980828219	0.043762654
RP4-671O14.5	0.038800867	0.001595726	0.943462403	0.045965571
RP4-639F20.1	0.71085992	0.580554767	0.870411982	0.000955424
RP4-635E18.8	0.742620033	0.602033851	0.916035722	0.005452901
RP4-635E18.7	0.19040553	0.046370613	0.781837108	0.021365455
RP4-631H13.6	0.824941358	0.696394912	0.97721599	0.025971845
RP4-620E11.4	0.148629778	0.033882626	0.651980481	0.011504999
RP4-614C15.2	40.77671178	1.164892631	1427.376378	0.040943584
RP4-605O3.4	0.54723379	0.333441979	0.898101739	0.017072078
RP4-603I14.3	0.092998941	0.015315782	0.564698764	0.009853337
RP4-594A5.1	1.58181022	1.116410924	2.241220969	0.009898341
RP4-584D14.7	1.470116568	1.12726141	1.917250697	0.004453519
RP4-583P15.16	0.577759817	0.35424566	0.942302036	0.027943277

RP4-576H24.4	0.001645698	7.55E-06	0.358748824	0.019642039
RP4-569M23.2	0.61975208	0.430298221	0.892619634	0.010163785
RP4-563E14.1	0.741787235	0.559949774	0.982674391	0.03736301
RP4-562D20.2	61946478592	940036.342	4.08E+15	1.14E-05
RP4-561L24.3	0.328861406	0.112146254	0.964364131	0.042757527
RP4-559A3.7	169252.9884	7.050615745	4062988982	0.019309462
RP4-547N15.3	0.527492825	0.293716824	0.947336541	0.03226912
RP4-545K15.5	0.477040729	0.272726042	0.834419239	0.00947283
RP4-543J13.2	74971509.06	123.3208096	4.56E+13	0.007617968
RP4-539M6.14	0.632518609	0.413576026	0.967366978	0.034599505
RP3-525N10.2	0.12988875	0.031724815	0.53179466	0.004539196
RP3-523K23.2	1.322230268	1.154988471	1.513688599	5.16E-05
RP3-522J7.6	0.14032587	0.02398369	0.821030859	0.029350735
RP3-521E19.3	1.03E-05	1.21E-10	0.879088095	0.047455167
RP3-510L9.1	0.387952086	0.158955955	0.946846069	0.037530871
RP3-510D11.2	0.617661738	0.435144409	0.876734286	0.007015984
RP3-510D11.1	0.372209556	0.195667536	0.708037503	0.002592769
RP3-509I19.1	0.013839994	0.000317728	0.602859166	0.026230946
RP3-508I15.18	4.996206797	1.240629977	20.12048944	0.023615395
RP3-508I15.10	0.652796009	0.434139474	0.981580009	0.040433003
RP3-496C20.1	0.013518348	0.00048344	0.378010901	0.011328436
RP3-492J12.2	0.07242993	0.012378686	0.423800629	0.003586638
RP3-477O4.14	0.417524393	0.225157134	0.774244261	0.005570653
RP3-476K8.4	0.332693378	0.144382979	0.766606178	0.009765908
RP3-475N16.1	0.515611375	0.333796369	0.796458903	0.002828549
RP3-467N11.2	5.643777419	1.44313446	22.07155635	0.01287694
RP3-467L1.4	0.565683774	0.346397635	0.923788443	0.022800719
RP3-449M8.9	0.735949869	0.542229796	0.998879465	0.049165048
RP3-449M8.6	0.675557516	0.490042006	0.931303749	0.016645352
RP3-428L16.2	1.416280629	1.007549118	1.990821871	0.045150158
RP3-428L16.1	1.642783263	1.22182276	2.208779324	0.001015038
RP3-418A9.3	0.294996545	0.098352658	0.884805389	0.029380049
RP3-415N12.1	0.090641801	0.011958647	0.687028879	0.020168175
RP3-414A15.12	0.38504719	0.168025905	0.882371909	0.024086803
RP3-406A7.1	39.87895921	1.154319898	1377.72154	0.041413279
RP3-404K8.2	24.74025297	2.608028356	234.6907446	0.005189146
RP3-402G11.26	0.674213603	0.471718286	0.963634432	0.030522638
RP3-400B16.2	2.656401057	1.033069673	6.830581485	0.042613126
RP3-394A18.1	0.236131748	0.058152481	0.958827576	0.043511232
RP3-391O22.1	0.158304925	0.02934327	0.854044189	0.032078419
RP3-390M24.1	59.8260308	8.983119365	398.4310812	2.34E-05
RP3-388N13.5	0.311658676	0.103824625	0.935530761	0.037636635
RP3-380C13.2	3.16E+18	308877369.4	3.22E+28	0.000291895
RP3-378P9.1	4265.945466	14.66045717	1241318.092	0.003881758
RP3-368A4.6	0.70269152	0.524533932	0.941360211	0.018029445
RP3-368A4.5	0.738938299	0.570788893	0.956623045	0.02164192
RP3-366N23.4	0.256898605	0.0682567	0.966892522	0.044457554
RP3-364H10.1	9541030.94	785.5907288	1.16E+11	0.000810248
RP3-355L5.3	0.031211035	0.001309356	0.74397571	0.032133291

RP3-348I23.3	0.013420342	0.000301672	0.597025117	0.025991507
RP3-340B19.3	0.749777981	0.598779191	0.938855307	0.012078081
RP3-339A18.6	0.705949361	0.501092896	0.99455511	0.04646059
RP3-339A18.3	0.000409163	2.36E-07	0.710213752	0.040376451
RP3-337D23.3	1.827592676	1.171315756	2.851575224	0.007892737
RP3-331H24.7	0.632125793	0.423186954	0.944223385	0.025072167
RP3-329A5.8	0.409079621	0.20689977	0.80882708	0.010169881
RP3-329A5.1	0.02832474	0.003610734	0.222196065	0.000695783
RP3-323B6.1	4.359175526	1.203368546	15.79101543	0.02497077
RP13-884E18.4	0.230106401	0.063897215	0.828658279	0.024610082
RP13-644M16.5	3.677834795	1.0177674	13.29033409	0.046941014
RP13-483F6.2	2778.39408	7.179902427	1075150.219	0.009096457
RP13-463N16.6	1.241934745	1.017576345	1.515760383	0.033059637
RP13-452N2.1	0.126345792	0.017294926	0.923002444	0.041456692
RP13-444K19.1	5.130691492	1.154852481	22.79424915	0.031619636
RP13-395E19.2	2532.605715	4.155488072	1543523.071	0.016605311
RP13-346H10.2	0.007860425	0.000129718	0.476313241	0.020659461
RP13-329D4.3	6.667651414	1.209245611	36.76471925	0.029399926
RP13-24G8.2	1679.024114	3.244346893	868933.585	0.019854122
RP13-228J13.10	0.102959097	0.016954338	0.625242664	0.013502466
RP13-225O21.2	0.629902115	0.398408718	0.995903595	0.04798211
RP13-216E22.4	0.580300643	0.404955275	0.83157044	0.003029214
RP13-212L9.1	16.13574702	1.841082029	141.4181051	0.012036677
RP13-188A5.1	0.627505461	0.406014089	0.969826206	0.035914447
RP13-131K19.2	0.360692447	0.171862148	0.756996483	0.007017775
RP11-9M16.2	0.303698713	0.11551843	0.798425915	0.015673952
RP11-998D10.4	2.213646316	1.600514079	3.061660047	1.57E-06
RP11-991C1.2	1599254.066	2.072820579	1.23E+12	0.038889822
RP11-98I9.4	0.593163443	0.404354133	0.870135463	0.007551432
RP11-98H4.4	498566.5226	73.12747216	3399113495	0.003579951
RP11-98D18.9	0.659582557	0.474306812	0.917231501	0.013380597
RP11-98D18.15	0.500979359	0.265282804	0.94608589	0.033103961
RP11-989E6.3	20654105323	683.0830906	6.25E+17	0.006879525
RP11-983P16.2	0.355065577	0.132506098	0.951439709	0.039499316
RP11-97C16.1	0.759116389	0.598277941	0.963193948	0.023289219
RP11-977P2.1	26.27665568	1.930774781	357.609101	0.01413232
RP11-977G19.11	0.547315005	0.360788449	0.830275238	0.004586244
RP11-972P1.8	0.096509458	0.015603566	0.596919667	0.011904465
RP11-96K19.2	1.85767459	1.16904343	2.951947544	0.00876908
RP11-96D1.8	0.547584116	0.332854055	0.900840352	0.017734733
RP11-96D1.7	0.203795284	0.0547628	0.758407488	0.017672458
RP11-96D1.5	0.577262861	0.353865208	0.941693059	0.027766707
RP11-96D1.11	2.22E+32	112031.7695	4.38E+59	0.020204756
RP11-96B2.1	3.05675124	2.123413872	4.400333003	1.84E-09
RP11-95O2.5	0.623106335	0.416333664	0.932572929	0.021489248
RP11-95M5.1	1.11E+12	2462.484414	4.98E+20	0.006369321
RP11-95I16.2	0.391573726	0.181166044	0.846350559	0.017117485
RP11-959F10.6	2.766993522	1.327831465	5.765982621	0.00658995
RP11-950K24.2	0.008782212	9.76E-05	0.790347368	0.039165234

RP11-950C14.10	0.116339589	0.014024607	0.965082303	0.046273532
RP11-94B19.4	585.152954	8.627073778	39689.46926	0.003061229
RP11-94B19.3	1078.952141	13.62927876	85414.47739	0.001741248
RP11-94A24.1	2.137389111	1.512711225	3.020029294	1.66E-05
RP11-941H19.3	3505983.579	2.119853631	5.80E+12	0.039130693
RP11-93O14.2	0.527414378	0.325193797	0.855385092	0.009512043
RP11-93H12.4	8.542487653	2.533656802	28.80188637	0.00054186
RP11-93G23.2	238.4522778	2.622891451	21678.17078	0.017358196
RP11-93B14.4	1.680239384	1.079176352	2.616073253	0.021602431
RP11-936I5.1	0.090901784	0.010046897	0.822456371	0.032851063
RP11-92G12.3	1.524245308	1.102320892	2.10766554	0.010799427
RP11-923I11.8	0.013978829	0.000336258	0.58112456	0.024744033
RP11-91J19.2	0.033425594	0.00329002	0.339593793	0.004066149
RP11-90L1.8	1.413313955	1.012951451	1.971917149	0.041781671
RP11-907D1.2	224889020.1	45.69754686	1.11E+15	0.014440667
RP11-905K4.1	0.163876472	0.027018252	0.993976151	0.049237015
RP11-902B17.1	0.251246104	0.104531027	0.603883902	0.002020322
RP11-8P13.5	1.809335069	1.340880154	2.44145115	0.000105028
RP11-8L8.2	0.413184931	0.213020584	0.801433291	0.008927503
RP11-8L21.1	561.2448107	23.91086156	13173.75105	8.44E-05
RP11-89K21.1	1.355909219	1.10815322	1.659057409	0.003101545
RP11-89H19.2	0.631312762	0.425525786	0.936619627	0.022295633
RP11-89H19.1	0.105926534	0.016020922	0.700361101	0.019830883
RP11-896J10.3	0.551620312	0.381665296	0.797256056	0.001547166
RP11-890B15.2	1.756403421	1.021696105	3.019442828	0.041588966
RP11-88I18.2	0.054229083	0.003954623	0.743634281	0.029132402
RP11-88H9.2	0.190477913	0.036504094	0.993911417	0.0491591
RP11-88G17.6	13.03354569	2.429790629	69.91273706	0.002736457
RP11-887P2.3	2.190528098	1.205792859	3.979467378	0.010043315
RP11-883G14.4	7.58E+11	10.3410958	5.55E+22	0.032114342
RP11-882I15.1	4.31E-09	3.88E-17	0.478426925	0.041553641
RP11-881M11.2	0.431244586	0.224080772	0.8299324	0.011800791
RP11-881M11.1	0.039720373	0.002463712	0.640378329	0.022955888
RP11-87H9.5	0.243180491	0.08636298	0.684746538	0.007429677
RP11-87H9.2	0.599333203	0.413569726	0.868536225	0.006838926
RP11-87G24.2	24.83388595	1.577772097	390.8814792	0.022357375
RP11-87E22.2	0.094266396	0.013252953	0.670503654	0.018309706
RP11-879F14.2	2.330554722	1.03401706	5.252800484	0.041286437
RP11-876N24.5	0.674507338	0.515096035	0.88325306	0.004204767
RP11-876N24.4	0.553888828	0.378952898	0.809580388	0.002282483
RP11-876N24.3	0.772787689	0.645457429	0.925236561	0.005018145
RP11-875O11.1	0.262587812	0.123968841	0.556207177	0.00047974
RP11-874J12.4	1.351476239	1.036107113	1.762837067	0.026311059
RP11-872J21.3	0.673210216	0.490340795	0.924279603	0.014410207
RP11-867G23.8	0.721113685	0.552543728	0.941110938	0.016095942
RP11-863K10.7	0.09021302	0.010010095	0.813018149	0.031992881
RP11-863K10.4	0.605614689	0.40453975	0.906633158	0.014847342
RP11-861E21.2	0.230250913	0.053724657	0.986799841	0.047944496
RP11-861E21.1	0.68419542	0.498654015	0.938773897	0.018701587

RP11-861A13.3	0.433620657	0.201972362	0.930953488	0.032073098
RP11-85K15.3	0.527343345	0.306943011	0.906002073	0.020478477
RP11-85G21.2	0.814135638	0.676103717	0.980347865	0.030055653
RP11-85G20.2	2.941247267	1.15234859	7.50722096	0.024035102
RP11-856M7.6	0.163616206	0.028894867	0.926471216	0.040727293
RP11-84C13.2	0.480714956	0.257052894	0.898985675	0.02182641
RP11-84C10.1	4.138352681	1.015238195	16.86891116	0.047584748
RP11-848P1.9	0.517862094	0.346042711	0.774994358	0.001378096
RP11-848P1.7	0.724070337	0.56460273	0.928578317	0.01096592
RP11-848P1.3	0.782862171	0.618794667	0.99043061	0.041340648
RP11-848D3.4	990.3243017	10.30043465	95213.6736	0.003065495
RP11-845M18.7	2.018621959	1.180069716	3.453045661	0.010333674
RP11-845M18.6	1.210712493	1.003248794	1.461077999	0.046175547
RP11-845C23.2	0.301198732	0.109618236	0.827605691	0.01997192
RP11-843P14.1	0.709882087	0.506969963	0.994008749	0.046048329
RP11-83J21.3	3.349644692	1.400640008	8.01070903	0.006581029
RP11-83A24.2	0.379451945	0.193280855	0.744945889	0.004870849
RP11-83A24.1	0.092865732	0.011743974	0.73433782	0.024281553
RP11-837J7.4	0.441197659	0.216669967	0.898395735	0.024116186
RP11-831H9.3	0.669845801	0.474712863	0.945189044	0.022558916
RP11-831F12.4	16.58271052	2.264280851	121.4453093	0.005702062
RP11-830F9.6	0.0143151	0.000403322	0.50808529	0.019712746
RP11-830F9.5	0.25489478	0.081928864	0.793021473	0.018253906
RP11-82L20.1	0.065493361	0.006497531	0.660155404	0.02076468
RP11-82L18.2	0.780504678	0.66037371	0.922489104	0.003659851
RP11-82K18.2	0.4391168	0.212188929	0.908735274	0.026563758
RP11-826N14.1	7.119019003	2.691048104	18.83297125	7.67E-05
RP11-81M19.1	4.85E+76	5.28E+36	4.46E+116	0.000169245
RP11-81A22.4	0.689237595	0.493854341	0.961920191	0.028652459
RP11-81A1.6	0.704530517	0.534783005	0.928158234	0.012773533
RP11-817O13.9	0.403220161	0.256322703	0.634303931	8.52E-05
RP11-817O13.8	0.645750127	0.423053498	0.985674929	0.042679537
RP11-817I4.1	1.502036325	1.056268221	2.135928242	0.023530867
RP11-816B4.1	10.55951354	2.643839188	42.17477622	0.000849905
RP11-815I9.5	0.063066772	0.00488632	0.813990482	0.034203017
RP11-810P8.1	0.001368607	1.56E-05	0.119885092	0.003858701
RP11-80P20.3	0.512658671	0.348636196	0.753848612	0.000683097
RP11-809N8.4	0.390834034	0.206538367	0.739578047	0.003889102
RP11-809H16.4	5.537951517	2.137074325	14.35088459	0.000426407
RP11-807H22.7	0.320279885	0.120606139	0.85053054	0.022321416
RP11-807H17.1	1.577951501	1.09273325	2.278626499	0.014974426
RP11-806O11.1	0.831466802	0.725226382	0.953270675	0.008143128
RP11-806L2.5	2.490248115	1.192148736	5.201813738	0.015198774
RP11-805I24.3	0.004840282	9.30E-05	0.251984204	0.008205443
RP11-805F19.2	3058.542233	1.132738875	8258461.68	0.046493834
RP11-804H8.7	0.312353869	0.102800573	0.949069999	0.040154902
RP11-803D5.1	6.073294887	1.000596442	36.86292419	0.049924296
RP11-803B1.3	0.513304047	0.34280781	0.768596973	0.001204764
RP11-803B1.2	0.492019718	0.309180577	0.782983863	0.002771273

RP11-802O23.4	0.027643907	0.000814748	0.937940586	0.045978068
RP11-802O23.3	0.446308756	0.211354999	0.942449936	0.03439725
RP11-800A3.2	0.600198992	0.427123356	0.843407004	0.003269812
RP11-800A18.4	1.459408149	1.157099073	1.840699899	0.001412569
RP11-7O11.3	0.574626687	0.373640574	0.883725837	0.011641798
RP11-7I15.4	0.383127428	0.228768086	0.641639438	0.000265806
RP11-7F17.8	0.428818361	0.205026067	0.896886868	0.024511156
RP11-7F17.4	0.055822566	0.005170343	0.602698644	0.017450592
RP11-79C23.1	37.90307018	1.493088658	962.1951927	0.027602987
RP11-799N11.1	86.28556887	2.917181807	2552.189026	0.009894542
RP11-799D4.4	0.594830414	0.391187638	0.90448467	0.015121332
RP11-798K23.4	2474.645359	13.90092595	440536.8159	0.003122071
RP11-795J1.1	0.060519036	0.005487117	0.66748234	0.022020572
RP11-795H16.3	2364.348066	23.72207228	235651.4941	0.000937769
RP11-793H13.3	0.331954704	0.116843187	0.943092436	0.038457693
RP11-793A3.1	0.478561739	0.249648917	0.91737365	0.026438075
RP11-78O9.1	52.36649585	1.689074214	1623.522439	0.023875062
RP11-78O7.3	0.453189891	0.271483169	0.756514953	0.002467811
RP11-78I14.1	0.111657669	0.02307557	0.540287206	0.006424514
RP11-78A19.4	1.976044692	1.503458176	2.597180743	1.04E-06
RP11-789F5.1	1.34E+14	38.58643531	4.63E+26	0.027249287
RP11-789C1.2	0.422153906	0.189503857	0.940423712	0.034834988
RP11-783K16.5	1.272021484	1.073471539	1.507295346	0.005456712
RP11-783K16.14	0.225354515	0.077166322	0.658119456	0.006428517
RP11-77H9.8	0.182401022	0.065484836	0.508058584	0.001131644
RP11-777F6.3	0.467655151	0.22129695	0.988270918	0.046495213
RP11-776A13.1	5.326759604	1.77912759	15.94847274	0.00279292
RP11-775D22.2	0.652855604	0.499755431	0.852858045	0.001764275
RP11-770E5.2	263.8874616	4.120577273	16899.71763	0.008609632
RP11-76N22.1	14.34248506	1.60985926	127.7794171	0.017001944
RP11-76K13.2	7.926925681	1.443080562	43.54306504	0.017220443
RP11-768B22.2	0.322511795	0.115958162	0.896994713	0.030139626
RP11-766H1.1	4.438398787	1.415089159	13.92094884	0.010610815
RP11-763K15.1	1421.175093	9.831646032	205432.4003	0.004227669
RP11-763B22.7	2002.263373	5.105270753	785278.3539	0.012594699
RP11-762H8.1	0.331399646	0.134862991	0.814350363	0.016055171
RP11-761I4.4	0.347511713	0.137573908	0.877814638	0.025377446
RP11-75L1.1	0.157249168	0.050803238	0.486726867	0.001331868
RP11-75C9.2	703.5435843	2.117610666	233741.5385	0.026880417
RP11-75C23.1	457.4668549	51.55737558	4059.087976	3.80E-08
RP11-75C10.6	0.243611887	0.070510579	0.841671597	0.02558534
RP11-75A9.3	0.047552714	0.002927141	0.772514987	0.032239925
RP11-759L5.2	22.24137998	1.505979382	328.4765977	0.023944985
RP11-758H9.2	0.71346434	0.522345246	0.974511339	0.033815895
RP11-757F18.3	1.840620175	1.016210684	3.333838822	0.044112322
RP11-756G20.1	0.414154551	0.173769508	0.987077621	0.046666339
RP11-753H16.3	4.621265885	1.430679895	14.92723736	0.010508205
RP11-753D20.3	0.031575153	0.001157244	0.86152101	0.040528358
RP11-750H9.5	0.689283265	0.540572237	0.878904589	0.00269119

RP11-74M11.2	1.760067855	1.177759601	2.63028113	0.005812262
RP11-74D7.3	0.460867927	0.221235928	0.960057655	0.038562408
RP11-74D3.2	1.17E+16	2446644376	5.57E+22	2.41E-06
RP11-749H20.3	28397488463	21.99332881	3.67E+19	0.024530392
RP11-744K17.7	93.35709393	2.045711452	4260.398982	0.019958215
RP11-73M7.6	0.206437723	0.06413125	0.664520549	0.008165713
RP11-73M18.11	0.318895538	0.123513728	0.823344624	0.018195108
RP11-739N20.3	6.81978044	1.549233493	30.02091387	0.011120751
RP11-739N20.2	1.629211214	1.28767679	2.061331851	4.77E-05
RP11-736P16.1	1983694733	397085.9859	9.91E+12	8.35E-07
RP11-736E3.1	4.420525678	2.013813265	9.703505088	0.000211352
RP11-735G4.1	0.022733083	0.000798013	0.647599409	0.026814616
RP11-733O18.1	0.411488519	0.211564325	0.800337208	0.008892816
RP11-733D4.1	911.5238209	2.337660434	355430.4397	0.025160443
RP11-731F5.2	0.687116075	0.506706961	0.931758465	0.015743296
RP11-730N24.1	11100504.71	1026.013365	1.20E+11	0.000619574
RP11-730K11.1	0.042860826	0.002781371	0.660483767	0.02399525
RP11-730G20.1	8.804826093	1.122936341	69.03771809	0.038422846
RP11-728G15.1	3.386777353	1.088414201	10.53850715	0.035183099
RP11-724N1.1	0.026685066	0.001401668	0.508032232	0.015933187
RP11-71J2.1	2987792891	55.86148055	1.60E+17	0.016258945
RP11-71G12.1	0.17421494	0.054469278	0.557210346	0.003220972
RP11-71B7.1	0.019690677	0.00040588	0.955265119	0.047359424
RP11-718O11.1	3.291857073	1.092534277	9.918519921	0.034240331
RP11-714G18.1	0.602037798	0.388724242	0.932407786	0.022994445
RP11-713N11.6	0.617771583	0.38305747	0.996304101	0.048251285
RP11-713M15.2	0.850309709	0.731729379	0.988106563	0.034336084
RP11-713M15.1	0.072054429	0.009131529	0.568562069	0.01257055
RP11-712B9.2	0.300133734	0.101854913	0.884397773	0.029052983
RP11-70P17.1	0.476465057	0.260106063	0.872793767	0.016372231
RP11-70F11.7	3.27E-05	1.22E-08	0.088067264	0.010378599
RP11-70F11.2	0.034246126	0.001243338	0.943264741	0.046098607
RP11-709D24.8	0.133294835	0.021471272	0.827501665	0.030524548
RP11-709D24.5	2.88E-08	1.79E-13	0.004631805	0.004529131
RP11-709A23.2	1.683040823	1.204061968	2.352558662	0.002313282
RP11-707P17.1	0.144991951	0.021027907	0.999750741	0.049970428
RP11-706P11.2	1.756557392	1.033453522	2.985614551	0.037383669
RP11-705C15.5	0.138756585	0.024768483	0.777334241	0.024674193
RP11-703H8.9	16.60186166	2.600686369	105.9804111	0.002973076
RP11-702L15.4	0.172354832	0.031844748	0.932844184	0.041285751
RP11-702F3.2	1.94E-09	1.08E-17	0.348345066	0.038572463
RP11-702F3.1	0.014195852	0.000428963	0.469789398	0.017167517
RP11-702B10.2	1.735920601	1.341108619	2.24696217	2.80E-05
RP11-701H24.5	0.515856076	0.268842892	0.98982528	0.046511592
RP11-701H24.4	0.593978787	0.356790476	0.988845902	0.045166922
RP11-700H6.2	0.023017604	0.000535932	0.988577058	0.049304081
RP11-6O2.2	2.762203312	1.071349664	7.121640479	0.035501925
RP11-6F2.3	0.024805502	0.000629815	0.976973556	0.048564697
RP11-6E9.5	174.9543697	2.029149837	15084.65807	0.023138223

RP11-69M1.4	15.59850998	1.474427824	165.0223292	0.022455756
RP11-69L16.6	1.899871704	1.151153759	3.135560703	0.012051719
RP11-69I8.2	940060.5648	3.986625557	2.22E+11	0.029326373
RP11-697E2.10	0.163676555	0.028967021	0.924845333	0.040521846
RP11-696N14.1	0.430877617	0.239777456	0.774282634	0.004871329
RP11-693L9.2	3.520918182	1.402138625	8.841397433	0.007373896
RP11-693J15.6	1.232549019	1.004062578	1.513030281	0.045638537
RP11-693J15.5	0.064561764	0.005677887	0.734114887	0.027163557
RP11-690P14.4	0.000556448	7.98E-06	0.038809797	0.000539868
RP11-690J15.1	0.000244385	4.93E-07	0.121082833	0.008619226
RP11-690D19.3	0.565043475	0.341736181	0.934270783	0.026084049
RP11-690C23.3	0.337665318	0.12929077	0.88187167	0.026649281
RP11-68L18.1	57.56816776	1.772073969	1870.178106	0.022481786
RP11-68I3.4	0.647814738	0.446159982	0.940613127	0.022505241
RP11-689K5.3	1.252497528	1.029152665	1.524312293	0.024657541
RP11-687F6.5	0.034790545	0.001359924	0.89003678	0.042316731
RP11-686G8.2	0.551227102	0.342770233	0.886457715	0.014003426
RP11-686D22.7	0.755323048	0.588042346	0.970190175	0.028027987
RP11-686D22.5	0.381107131	0.199504529	0.728016783	0.003486862
RP11-685G9.4	37.44647616	5.505662144	254.6902697	0.000212354
RP11-685G9.2	2.861559635	1.087872046	7.527101719	0.03311822
RP11-685B14.3	0.596178641	0.360892154	0.984862011	0.043432793
RP11-681L4.2	6.60E-05	4.10E-08	0.106368167	0.010628359
RP11-680F8.1	1.387530603	1.145132545	1.681238719	0.00082777
RP11-680F20.4	8730.7392	5.676529413	13428241.35	0.015362449
RP11-67H24.3	1.54E+43	33006508.51	7.17E+78	0.017639137
RP11-67A1.2	0.357310556	0.133739455	0.954623553	0.040113096
RP11-678G14.3	0.604393119	0.404790782	0.90241937	0.013816684
RP11-677M14.3	0.685134713	0.498930844	0.94083094	0.019444833
RP11-676J15.1	2.820007403	1.074424412	7.401583272	0.035224334
RP11-674N23.4	5.62035508	2.096851531	15.06467709	0.000599452
RP11-674C21.9	46.38410019	1.085897887	1981.295642	0.045179168
RP11-66N24.6	0.852564902	0.766187207	0.948680565	0.00342707
RP11-66N11.8	0.737209734	0.54839851	0.991027844	0.043417897
RP11-667K14.3	0.576002388	0.393446124	0.843263488	0.004560376
RP11-666O2.2	0.644661926	0.462219949	0.899115235	0.009696352
RP11-666F17.1	0.138940277	0.02717615	0.710343463	0.017750874
RP11-666A8.7	0.576917092	0.34353628	0.968844779	0.037559661
RP11-666A8.12	0.557450754	0.312066228	0.995786521	0.048355761
RP11-666A1.4	6.009497895	1.075448196	33.58047844	0.04107023
RP11-664D7.4	0.871399376	0.774972726	0.979823995	0.021413597
RP11-664D1.1	0.075547686	0.014215838	0.401485496	0.002439555
RP11-662I13.3	0.018304234	0.000975139	0.343586829	0.007494585
RP11-660M5.1	0.084587656	0.009352919	0.76500949	0.027922236
RP11-660L16.2	0.76864539	0.633836888	0.93212583	0.007487419
RP11-65J21.3	1.486430526	1.17188294	1.885406496	0.001085244
RP11-655M14.4	0.533897908	0.326990794	0.871727833	0.012115555
RP11-655C2.3	0.081066915	0.007187165	0.914386255	0.042116927
RP11-64B16.3	0.012877967	0.000352421	0.470578701	0.017762523

RP11-647P12.2	0.643353267	0.420722484	0.983792028	0.041813465
RP11-647P12.1	0.469896763	0.221329295	0.997621974	0.049279877
RP11-646I6.5	0.486414748	0.281665741	0.840000299	0.009725339
RP11-646E18.3	62.39670876	1.793205415	2171.16747	0.022463423
RP11-642D21.1	5.936128235	1.492587633	23.60840841	0.0114528
RP11-63N8.3	0.02735171	0.001470295	0.508820279	0.015823264
RP11-635O16.2	0.715399812	0.550559011	0.929594978	0.012200172
RP11-635N19.3	2.754482821	1.054014182	7.198361979	0.038706272
RP11-632P5.1	8.222584539	2.691621889	25.11901719	0.000217526
RP11-632L2.2	1.986255362	1.195461096	3.300157885	0.008069297
RP11-632K21.6	5.91E-05	1.51E-08	0.230698107	0.021022717
RP11-631M21.6	34.22786717	1.462557918	801.025981	0.028070027
RP11-631M21.1	11629938.19	15.0230141	9.00E+12	0.018691778
RP11-630A13.4	0.730773992	0.55681016	0.959089228	0.023753713
RP11-62I21.1	0.519820076	0.327141936	0.825980658	0.005620694
RP11-62H7.3	0.387951618	0.240591408	0.625568716	0.000102628
RP11-62H7.2	0.603620511	0.45418413	0.802224689	0.000504404
RP11-62G11.2	8.40E-13	8.61E-24	0.08196031	0.031261602
RP11-629G13.1	2.342052804	1.004088066	5.462878728	0.048906591
RP11-627K11.3	0.302192431	0.094451298	0.966850297	0.043718687
RP11-627G23.1	0.766040555	0.627663952	0.934924063	0.008743043
RP11-627G18.4	16.65152057	1.352298107	205.0384718	0.028122944
RP11-626K17.2	33.12092157	2.160532617	507.7430616	0.011968645
RP11-626H12.2	1.565228489	1.228089812	1.994919427	0.000294527
RP11-626E13.1	0.367209376	0.145552999	0.926416677	0.033850851
RP11-624M8.1	0.001682449	1.77E-05	0.159603915	0.005959302
RP11-622J9.1	21401.36135	29.82827541	15355170.93	0.002958558
RP11-622C24.2	0.003806406	2.07E-05	0.700364814	0.036276001
RP11-61K20.1	11127292.01	1.242714372	9.96E+13	0.046970086
RP11-61I13.3	0.440206506	0.210506117	0.92055172	0.029265207
RP11-61G19.1	0.186231385	0.043926752	0.789544579	0.022572556
RP11-618I10.3	1.25E+18	7655588.549	2.05E+29	0.001560656
RP11-618I10.1	1.611166339	1.113383854	2.331502262	0.011419594
RP11-617F23.1	0.745365732	0.590317404	0.941137887	0.013518667
RP11-616M22.5	0.787828611	0.631116491	0.983453814	0.035082386
RP11-616M22.3	0.095722845	0.014937929	0.613395823	0.013299229
RP11-616K22.2	0.096355461	0.012928562	0.71812897	0.022427311
RP11-613M10.9	0.000413041	7.72E-07	0.220862246	0.015050336
RP11-613D13.5	0.110630241	0.014957538	0.818253008	0.031049613
RP11-613C6.2	0.262851924	0.070529857	0.979601222	0.046517276
RP11-612B6.2	0.790338109	0.630570248	0.990586421	0.041146719
RP11-60C6.3	176.0288904	1.510950653	20507.73146	0.033172694
RP11-609N14.4	0.715142451	0.515820329	0.991486175	0.044298444
RP11-607P23.1	0.299705289	0.103527376	0.867628101	0.02629827
RP11-603J24.21	0.386852523	0.209964141	0.712763969	0.002319463
RP11-59H7.4	1.540510044	1.044713388	2.271600251	0.02920439
RP11-598F7.3	0.743902337	0.583726547	0.948030702	0.016786752
RP11-598F17.2	2.32E+24	5.58E+11	9.63E+36	0.000153965
RP11-595O22.1	2.25E+28	1.95E+11	2.60E+45	0.00112631

RP11-58O9.2	1.39684581	1.2151112	1.605761035	2.61E-06
RP11-58O3.1	56641.05219	328.8271404	9756520.673	3.10E-05
RP11-58A18.1	3.802118104	1.776289337	8.138371252	0.000582571
RP11-58A11.2	0.501235712	0.271217654	0.926330696	0.027511938
RP11-588K22.2	0.788773592	0.6524787	0.953538835	0.014226063
RP11-586K12.10	2.43E+125	2.83E+12	2.08E+238	0.029549455
RP11-585P4.6	0.658064019	0.442801998	0.977972672	0.038437847
RP11-582J16.4	0.151673474	0.053313227	0.431503468	0.000406982
RP11-57J16.1	0.543527073	0.312141743	0.946434387	0.031199689
RP11-57H12.3	0.213763237	0.065659581	0.695933797	0.010410843
RP11-575L7.2	0.006515247	9.50E-05	0.446823267	0.019626697
RP11-575F12.3	1.558683638	1.277284349	1.902078174	1.25E-05
RP11-575F12.2	1.498576352	1.234359102	1.819349879	4.36E-05
RP11-574K11.32	0.528289802	0.286304761	0.974800817	0.04118909
RP11-574K11.29	0.59482665	0.387110789	0.913998665	0.017774946
RP11-573G6.6	0.326587425	0.125460487	0.850142928	0.021873058
RP11-573D15.8	63.7023345	2.55323557	1589.350967	0.011371247
RP11-572N21.1	5.836950756	1.178178205	28.91752196	0.030711354
RP11-571F15.3	0.268277271	0.115081966	0.625403759	0.002312442
RP11-56M3.1	1.799976447	1.224206903	2.646542185	0.002803339
RP11-56B16.2	0.460776803	0.212954259	0.996999371	0.049114645
RP11-568N6.1	0.499200637	0.253025468	0.984886137	0.045081806
RP11-568J23.8	1.510700134	1.085091983	2.103245559	0.014539013
RP11-568A7.3	0.629241941	0.410137848	0.965395956	0.033902755
RP11-568A7.2	0.517782041	0.317893761	0.843357987	0.008182919
RP11-567M16.6	0.602114768	0.442065417	0.82010983	0.001291266
RP11-567L7.3	0.036451039	0.002092883	0.634855622	0.02310968
RP11-567G24.3	350.51097	2.457251585	49998.11207	0.020602007
RP11-566K19.12	1.08E-15	1.95E-30	0.602000054	0.04667245
RP11-566K11.5	1.89E+15	2497.75971	1.43E+27	0.011716362
RP11-565F19.2	0.367721879	0.184376663	0.733386634	0.004506837
RP11-564H18.1	624029.9928	125.5820247	3100869196	0.0021197
RP11-564A8.8	0.452436875	0.235486984	0.869258772	0.017288277
RP11-563J2.3	0.335836432	0.149386029	0.754997704	0.008292454
RP11-563J2.2	0.221086123	0.079440758	0.615289618	0.003853009
RP11-561I11.3	0.059100861	0.0071686	0.487251619	0.008589822
RP11-560F18.1	90.29584267	4.652305256	1752.537453	0.002920706
RP11-558F24.2	0.000481295	1.41E-06	0.164379019	0.010269636
RP11-558A11.3	5.635049013	2.18776742	14.51423816	0.000341288
RP11-557H15.4	0.370524701	0.185597522	0.739711138	0.004882114
RP11-557F20.2	4.051774296	1.709081073	9.605673601	0.001488606
RP11-555H7.2	0.002818337	8.98E-06	0.88467148	0.045312727
RP11-554J4.1	0.601320876	0.420034387	0.860850463	0.005461712
RP11-554I8.2	1.227628615	1.073132057	1.404367717	0.002803761
RP11-554F20.1	0.091690383	0.009259579	0.907938251	0.041099539
RP11-554E23.2	94.65705937	3.254027927	2753.497846	0.00814244
RP11-553L6.3	0.003269546	1.96E-05	0.544988519	0.028343438
RP11-553L6.2	0.00321953	4.24E-05	0.244627388	0.009397988
RP11-553D4.2	0.208055434	0.061006621	0.709546979	0.012136713

RP11-553A21.3	3.737702243	1.411495754	9.89759836	0.007963232
RP11-552M11.4	0.350534708	0.141998022	0.865326007	0.022984013
RP11-552J9.11	505833.7573	5.561296464	46008658535	0.024165191
RP11-552E20.4	4.304267052	1.05355107	17.5850183	0.042091985
RP11-551L14.7	8.081448655	1.163675083	56.12375249	0.034578003
RP11-550A9.1	51.68137087	4.014659419	665.3027855	0.002476903
RP11-54J7.2	2.12E+30	2.31E+15	1.96E+45	7.12E-05
RP11-54H7.4	1.3088062	1.168241739	1.466283571	3.44E-06
RP11-549B18.1	1.441317444	1.129198424	1.839708531	0.003326932
RP11-548P2.2	0.653419541	0.49867358	0.856185517	0.002028967
RP11-548H18.2	5.317542051	1.62592103	17.39091441	0.005710395
RP11-546K22.2	3.334635621	1.487084485	7.477581022	0.003466046
RP11-546B8.1	6.128738072	2.635190145	14.2537837	2.55E-05
RP11-545M17.1	0.10317743	0.013900143	0.765861338	0.026365544
RP11-545J16.1	10.85959702	2.671198496	44.1490393	0.000859139
RP11-545H22.1	2.06664849	1.120144264	3.812933848	0.020177078
RP11-545E8.1	25.19439897	1.524729944	416.3083054	0.024150601
RP11-544L8_B.4	0.03867391	0.001822034	0.820880178	0.036925665
RP11-543N12.1	62.66876579	2.358048465	1665.518866	0.013414979
RP11-543C4.1	0.085948342	0.009693312	0.76208395	0.027525727
RP11-542M13.3	0.260619981	0.070238056	0.967036658	0.044423932
RP11-542C16.2	1.80E-06	1.20E-11	0.271405962	0.029678427
RP11-542A14.1	8.061278287	1.980386616	32.81389961	0.003568534
RP11-541H12.1	0.040023991	0.00311814	0.513742166	0.01345714
RP11-540O11.1	2.115692759	1.336372801	3.349481408	0.001388793
RP11-540D14.8	129.1925195	6.262115751	2665.346307	0.00164455
RP11-53M11.3	1.915265565	1.375659248	2.666534021	0.000118643
RP11-53L24.1	0.003759448	2.30E-05	0.613846011	0.031739456
RP11-53I6.3	0.378180894	0.146819469	0.974126864	0.043981714
RP11-53B2.6	0.464909349	0.230334263	0.938378423	0.032560573
RP11-53B2.5	0.510048196	0.267424902	0.972793334	0.040983596
RP11-53B2.2	0.188539354	0.043241743	0.822054941	0.026365893
RP11-539E17.5	2.124801969	1.503088692	3.003670662	1.98E-05
RP11-539E17.3	1.621737176	1.218338112	2.158704091	0.000922009
RP11-536G4.2	0.604482615	0.41668628	0.876916876	0.008004005
RP11-536G4.1	0.132791832	0.028368806	0.621586643	0.010355112
RP11-536C5.2	2.708166516	1.03386732	7.093914023	0.042585361
RP11-531A21.4	0.1179257	0.016361682	0.849941405	0.033896157
RP11-530C5.2	0.122497316	0.01519486	0.987543967	0.048639919
RP11-527F13.1	0.345926415	0.12598685	0.949822021	0.039411888
RP11-525G13.2	2.804820625	1.331872896	5.906733863	0.006644179
RP11-524H19.2	1.975650983	1.302538672	2.996607234	0.001357538
RP11-523O18.5	0.124030044	0.0274364	0.56069499	0.006695474
RP11-522L3.3	0.017430594	0.000361606	0.840211596	0.040558594
RP11-521C20.5	0.277581917	0.113433619	0.67926706	0.005000746
RP11-521C20.2	0.355929594	0.16269061	0.778691999	0.009704223
RP11-51J9.5	0.737109145	0.586951514	0.925681046	0.008679628
RP11-51E20.1	406.3107262	2.684454417	61497.93611	0.018999872
RP11-517A5.7	0.138455961	0.028214661	0.679435885	0.014843571

RP11-515E23.2	17.46199199	1.050122846	290.3671369	0.046145176
RP11-515C16.7	2078.869	1.280182287	3375844.49	0.0428211
RP11-515C16.1	0.00025024	1.12E-07	0.558981371	0.035048725
RP11-514P8.2	0.349768287	0.128983879	0.948473991	0.039027291
RP11-514F8.2	1271.76398	20.27782315	79761.20563	0.00071124
RP11-514F3.5	0.519821101	0.28482618	0.948697825	0.033044639
RP11-514D23.2	0.051264	0.005468494	0.480570676	0.009275953
RP11-513N24.1	0.294944667	0.105430544	0.825115313	0.020007464
RP11-513G19.1	0.463270413	0.260443438	0.824054072	0.008830694
RP11-513G11.4	0.792944221	0.637918685	0.985643707	0.036595736
RP11-511I11.1	0.160218975	0.026224368	0.978865147	0.047356582
RP11-511H9.3	0.335222058	0.128232908	0.876325976	0.025798674
RP11-510M2.1	7.992423738	1.46462488	43.61446952	0.016362747
RP11-50C13.2	6857.530708	1.981526469	23732071.28	0.033633349
RP11-508N22.12	0.07060389	0.006230029	0.800142259	0.032357076
RP11-508N12.4	0.004754888	9.58E-05	0.236084084	0.00726375
RP11-508M8.1	0.001742406	3.34E-05	0.090769533	0.001634798
RP11-506K6.4	0.419738659	0.214508153	0.821323289	0.011255088
RP11-505K9.4	0.130741615	0.030601552	0.558578525	0.006033372
RP11-504P24.3	0.69544613	0.484592868	0.99804465	0.048771559
RP11-501J20.5	0.247835597	0.074676749	0.822511472	0.022654761
RP11-501C14.7	1.709081286	1.314049076	2.222868913	6.43E-05
RP11-501C14.6	4.423221311	1.964459262	9.959426058	0.000330084
RP11-501C14.5	1.549494741	1.053062345	2.279954234	0.026260624
RP11-500G10.5	0.606548534	0.372860309	0.986699617	0.044020261
RP11-4M23.3	0.030244892	0.001133984	0.806672334	0.036779806
RP11-4M23.2	0.083341585	0.011150783	0.622899744	0.015468519
RP11-4K3_A.3	0.528399713	0.328768689	0.84924832	0.008415733
RP11-4C20.3	0.602123014	0.368103673	0.984918516	0.04333266
RP11-4B16.3	0.275033974	0.114076602	0.663095548	0.004040711
RP11-49G2.3	0.196289686	0.068778479	0.560199081	0.002342723
RP11-49G10.3	397616.7027	122.1964474	1293810463	0.001780668
RP11-498P14.4	5.018929103	1.320749851	19.07223334	0.017865488
RP11-497H16.8	2.36201118	1.068870176	5.219620621	0.033620412
RP11-497G19.3	0.107545422	0.021989381	0.525981973	0.005900358
RP11-497D6.5	5.01E-18	2.52E-34	0.099802112	0.03749639
RP11-496H15.2	0.094085865	0.009791312	0.904082125	0.040627908
RP11-495P10.9	1.466286521	1.156769746	1.85862067	0.001557218
RP11-495P10.8	1.342720595	1.021811968	1.764413269	0.034446299
RP11-495P10.4	17.00223322	1.003659297	288.0219766	0.049705005
RP11-493E12.1	0.552073321	0.311171496	0.979475807	0.042269563
RP11-492E3.51	0.544674798	0.314981023	0.941868282	0.02968328
RP11-490P13.2	2.96E+14	27.36719424	3.21E+27	0.029549455
RP11-490O6.2	0.141796688	0.043487282	0.462348991	0.001198572
RP11-490B18.6	0.566997756	0.3688507	0.871589659	0.009696722
RP11-48L13.1	138590.3916	240.4993658	79864229.91	0.000261741
RP11-48G14.3	0.523934586	0.320162182	0.857401235	0.01010611
RP11-48B3.5	0.641971299	0.45583825	0.904108308	0.011181067
RP11-489O18.1	0.349869643	0.148009546	0.827032924	0.016727959

RP11-488P3.1	1.487026883	1.290983295	1.712840871	3.78E-08
RP11-488L18.4	0.804102577	0.670207313	0.964747686	0.01896828
RP11-488L18.3	0.518732997	0.275105778	0.978110761	0.042523587
RP11-488C13.6	0.460208897	0.237936785	0.890119737	0.021121905
RP11-488C13.1	1.390744754	1.043820513	1.852972754	0.024265559
RP11-487E13.1	26.04657442	1.429996265	474.4236443	0.027699804
RP11-487E1.2	0.314043463	0.114310645	0.862765636	0.024688595
RP11-486M23.3	2.99716038	1.723510939	5.212018179	0.000100963
RP11-486I11.2	0.732585001	0.557889581	0.961983878	0.025168111
RP11-484D2.5	0.137244955	0.01944714	0.968583417	0.046373145
RP11-481J2.4	0.736680024	0.548531259	0.989364689	0.042252491
RP11-481H12.1	0.722174174	0.582616413	0.89516108	0.00297003
RP11-481G8.2	8.27E-07	4.76E-12	0.143438924	0.022879544
RP11-481A20.10	3.259316106	1.057069426	10.04961568	0.039727714
RP11-480C22.1	0.464275479	0.236911198	0.909841843	0.025403303
RP11-479G22.8	1.786644725	1.408339509	2.266569499	1.75E-06
RP11-478C6.2	0.140679945	0.022368257	0.884773759	0.036577309
RP11-477H21.2	1.320470611	1.027193317	1.697482456	0.030056986
RP11-476C8.2	0.037237024	0.002253306	0.615360744	0.021490974
RP11-476B13.2	0.001268924	1.62E-06	0.996373668	0.049875272
RP11-475O23.2	0.312154257	0.121656845	0.800943668	0.01545026
RP11-475D12.1	1097880.473	4.78038601	2.52E+11	0.027218551
RP11-475D10.4	0.576539524	0.34008016	0.977410215	0.040874364
RP11-474P2.4	0.376555015	0.145238436	0.976282055	0.044500358
RP11-474N24.6	0.622544243	0.431873727	0.897395025	0.011078698
RP11-474L11.3	1452.650483	1.187476481	1777040.184	0.044713914
RP11-474B16.1	9.244017978	1.808669837	47.24569772	0.007542083
RP11-473O4.4	0.364821497	0.137490863	0.968025958	0.042843559
RP11-473O4.3	0.292327653	0.088180375	0.969098353	0.044294139
RP11-473M20.9	0.719286902	0.520961317	0.993113367	0.045290041
RP11-473M20.11	0.677030126	0.496594063	0.923027126	0.013645383
RP11-473I1.6	5.495671382	1.127543738	26.78601541	0.034987319
RP11-473E2.4	0.1773001	0.031909912	0.985127309	0.048031523
RP11-473E2.3	40.03877172	2.290900342	699.7699601	0.011475936
RP11-472N13.3	0.662899303	0.445097897	0.987278277	0.043077026
RP11-471B22.2	0.779469237	0.61591622	0.986452819	0.038127552
RP11-470M17.2	0.878981896	0.780768513	0.989549605	0.032863918
RP11-470E16.2	45.16838908	5.044557777	404.4325513	0.000657031
RP11-470B22.1	19.82325524	3.670335266	107.0641835	0.000518483
RP11-46J23.1	0.537574773	0.327952603	0.881184153	0.01383147
RP11-46H11.3	0.374419358	0.198700194	0.705534568	0.002373903
RP11-46C24.7	0.614004886	0.439162164	0.858457378	0.004337397
RP11-469H8.6	0.868460479	0.756748882	0.996662991	0.044691744
RP11-468N14.3	900.9261256	1.720254347	471830.16	0.033189568
RP11-468H14.2	0.00524565	8.88E-05	0.309871768	0.011637472
RP11-468E2.11	0.752486874	0.573790527	0.986834863	0.039804796
RP11-468E2.10	0.708469091	0.511401284	0.981476717	0.038229098
RP11-467H10.1	0.516740648	0.277378738	0.962658128	0.037538958
RP11-467D18.2	0.367716469	0.169194491	0.799171421	0.011537313

RP11-466L17.1	4063659.938	8975.598398	1839802915	1.08E-06
RP11-466I1.1	17.70506461	2.93733391	106.7189916	0.001714984
RP11-463O9.6	78.65517931	2.277864582	2715.981134	0.015712597
RP11-463I20.2	47.9812528	1.293442472	1779.901828	0.035770433
RP11-462L8.1	1.482103496	1.265463374	1.735831172	1.06E-06
RP11-462G12.1	0.738813842	0.576300861	0.947154394	0.016925208
RP11-461L13.5	0.086385743	0.00791448	0.942891584	0.04462367
RP11-461K13.1	94244.78887	31.25604852	284171565.2	0.005077324
RP11-460G11.2	1111984867	9.195444868	1.34E+17	0.02826241
RP11-460B17.2	3.850799231	1.358789934	10.91313259	0.011186098
RP11-45M22.4	0.051352921	0.002887851	0.913178232	0.043195755
RP11-459I19.1	0.636606936	0.419602896	0.965837925	0.033720429
RP11-459F1.2	478.45458	27.37278433	8363.006931	2.37E-05
RP11-458K10.1	193.5784612	5.21725637	7182.438047	0.004290938
RP11-457D20.1	8.70188385	1.842371958	41.10070294	0.006306586
RP11-456K23.1	0.571286474	0.351146761	0.929435414	0.024154474
RP11-456I15.2	0.352643288	0.143449358	0.866907249	0.023136253
RP11-455O6.2	0.306028434	0.131266648	0.713459236	0.006111241
RP11-455F5.6	0.587819168	0.361888882	0.954799641	0.031805121
RP11-455F5.5	0.61975702	0.429560186	0.894167516	0.010525436
RP11-455B3.1	0.2420092	0.063362534	0.924338865	0.037983556
RP11-454K7.3	18.42327084	2.765929271	122.713517	0.002599337
RP11-454E5.4	0.485452657	0.315122823	0.747848981	0.00104608
RP11-453O22.1	5.301279629	2.18148875	12.88274611	0.000231697
RP11-452J6.2	0.518984176	0.276314763	0.974774462	0.041409442
RP11-452J21.2	0.449659631	0.214197322	0.943960374	0.034653572
RP11-452H21.4	0.255241467	0.081711107	0.797299279	0.018785711
RP11-452D2.1	2.369901042	1.058430089	5.306378762	0.035901365
RP11-450I1.2	1.70E+95	8.36E+33	3.45E+156	0.002331221
RP11-44F14.6	0.499528714	0.310915183	0.802562725	0.004115797
RP11-44F14.5	0.024707686	0.001383181	0.44135215	0.011867445
RP11-449J21.3	0.810277182	0.676031341	0.97118147	0.022823766
RP11-449H15.2	1.20E-10	2.18E-20	0.664336374	0.0459669
RP11-448P19.1	5.64E-05	4.72E-09	0.672367851	0.041067536
RP11-448K10.1	55.01040278	6.184955019	489.2750884	0.00032549
RP11-447L10.1	140.0995371	1.698581004	11555.45732	0.028143038
RP11-445P17.8	1.343608517	1.068410388	1.689691403	0.011541749
RP11-445P17.5	12.81794168	1.289927709	127.3711912	0.029460795
RP11-445F6.2	0.256335387	0.081266631	0.808546262	0.020203092
RP11-444P10.1	1.53E+20	281.9105821	8.33E+37	0.025699032
RP11-444E17.6	0.128260529	0.019297575	0.852478269	0.033576351
RP11-443P15.2	1.167185909	1.047087641	1.301059141	0.005262519
RP11-440L16.1	1710607060	132.0527448	2.22E+16	0.010947252
RP11-440D17.6	9.28E+29	7.41E+16	1.16E+43	7.31E-06
RP11-43P8.2	0.291369181	0.100239508	0.846931523	0.023504786
RP11-439K3.3	0.430981333	0.190546864	0.97479909	0.043253093
RP11-439I14.2	2.942656783	1.517320047	5.706923176	0.00140453
RP11-439H9.1	0.035917461	0.002495491	0.516958003	0.014489616
RP11-439E19.9	0.180400673	0.049231086	0.661053931	0.009747434

RP11-438L7.1	42.98993767	2.954534711	625.5248022	0.005906155
RP11-438D14.3	2.829670122	1.773489044	4.514847738	1.28E-05
RP11-438D14.2	3.831150816	2.0013402	7.333943813	5.03E-05
RP11-438B23.2	12.08591173	4.830845969	30.23678737	1.00E-07
RP11-436K8.1	7.637696774	1.145756712	50.91343684	0.035681085
RP11-436F23.1	5.753174602	1.48544953	22.28215588	0.011316687
RP11-435I10.5	268.2902641	1.414512275	50886.56148	0.036658754
RP11-434I12.3	0.847900839	0.725931994	0.99036251	0.037326209
RP11-434I12.2	0.621941627	0.38934739	0.993486531	0.046888113
RP11-434E6.2	2.04E-05	1.66E-09	0.250961093	0.024597982
RP11-434B12.1	0.600892401	0.370481402	0.974601359	0.038996081
RP11-432M8.19	830.6641242	1.155172411	597315.9338	0.045183258
RP11-420I5.2	7186.193111	1.237641022	41725646.21	0.044624117
RP11-429P3.8	0.143127981	0.027784207	0.737311623	0.020108019
RP11-429D19.1	2.721260947	1.599963493	4.628393819	0.00022047
RP11-429A20.2	0.000160707	1.00E-07	0.25713116	0.0202991
RP11-428P16.3	0.006523353	5.33E-05	0.798688979	0.040208145
RP11-428L9.2	9.925571755	2.620668982	37.59230003	0.00073033
RP11-428J1.5	1.531169927	1.110152698	2.111854838	0.009405691
RP11-427P5.3	0.684398849	0.484393404	0.966986299	0.03152933
RP11-427L15.2	0.600144921	0.36752754	0.979991667	0.041276094
RP11-424M22.3	0.734446974	0.55273946	0.975888998	0.033315308
RP11-424M22.1	0.104712117	0.012521413	0.875670139	0.037297797
RP11-424I3.1	21.71133649	4.134402172	114.0145812	0.000275503
RP11-424C20.2	1.756846643	1.257700021	2.454090861	0.000951485
RP11-422P24.11	0.540906303	0.330494706	0.885277805	0.014495539
RP11-421P23.2	0.016052908	0.000340255	0.757360524	0.035614565
RP11-420K14.6	0.038662336	0.003834515	0.389821469	0.005797965
RP11-420C9.1	1.716817572	1.161697224	2.537203769	0.006686543
RP11-410A4.2	16.08562498	5.781385257	44.75524801	1.03E-07
RP11-419K12.1	48.22903016	1.656581842	1404.119791	0.024232606
RP11-418J17.3	0.01083976	0.000169666	0.692538385	0.032910148
RP11-418I22.2	0.04606236	0.004191683	0.506178786	0.011845482
RP11-417L19.4	1.309077011	1.014153165	1.689767069	0.038652164
RP11-417L14.1	4.532201578	1.29680655	15.83956461	0.017929893
RP11-417F21.1	0.412520191	0.183879627	0.925458199	0.031723847
RP11-417E7.1	1.358717999	1.058985697	1.743285678	0.015923404
RP11-415F23.3	0.519916591	0.304412574	0.887983234	0.016622022
RP11-415F23.2	0.427662593	0.272633255	0.670847339	0.000217365
RP11-415D17.3	3.943375299	1.16958036	13.29554538	0.02692712
RP11-415C15.2	5.003502353	1.740650196	14.38257719	0.002800751
RP11-411G2.1	1.964710683	1.210794828	3.188061244	0.006248764
RP11-411B10.8	11.54505755	1.552315454	85.86421882	0.016870835
RP11-410N8.4	1588.187643	2.71489077	929076.0484	0.02337865
RP11-410D17.2	6.37E-06	1.48E-10	0.274178425	0.027974179
RP11-409C19.2	0.118883013	0.018001409	0.785114715	0.027025311
RP11-407P15.1	10.58201166	1.027906411	108.9388776	0.047356183
RP11-407G23.5	0.228821231	0.055917516	0.93636412	0.040225925
RP11-407G23.2	0.313629826	0.127569428	0.77105988	0.011522705

RP11-406H23.2	0.069727324	0.014380396	0.33809219	0.000945452
RP11-404O13.5	0.056528507	0.003820063	0.836497327	0.036633239
RP11-404O13.4	0.306394471	0.126178953	0.744003415	0.008968477
RP11-404K5.2	6.02E-07	5.01E-12	0.072235713	0.016380214
RP11-404J24.1	1843.929768	64.61051996	52624.201	1.09E-05
RP11-404I7.1	184330.5011	27.94024278	1216085841	0.006889928
RP11-404F10.6	0.239059671	0.080228524	0.712334257	0.010202772
RP11-404F10.2	0.089437994	0.013271136	0.602748288	0.013137506
RP11-403P17.5	0.008424499	0.000231592	0.306453281	0.009188761
RP11-403I13.8	2.029616531	1.206186057	3.415180633	0.007675446
RP11-403B2.10	29.36276645	2.861027599	301.3504846	0.004444562
RP11-403A3.3	0.346125188	0.128426964	0.932846512	0.035959383
RP11-402L5.1	0.01953732	0.000427467	0.892951169	0.043588859
RP11-402J7.2	0.328749934	0.127172701	0.849840557	0.021691041
RP11-401P9.5	0.293197079	0.09357345	0.918685029	0.0352469
RP11-401P9.4	0.662660492	0.507115268	0.865915416	0.002572192
RP11-401N18.1	76474248772	243.3079991	2.40E+19	0.012061344
RP11-401F2.2	100.6927268	4.826426019	2100.73151	0.002925031
RP11-400N9.1	0.078388283	0.012065533	0.509279012	0.007660324
RP11-400F19.18	0.594227152	0.365519943	0.966037325	0.035788071
RP11-3N2.11	566875.1084	68.87970594	4665342051	0.003975826
RP11-3J11.1	24.33399133	1.463717733	404.5473527	0.026040236
RP11-3G21.1	2.72001195	1.090983718	6.781462352	0.031810255
RP11-399H11.2	0.461077212	0.24343424	0.873304411	0.017517176
RP11-399E6.4	0.715385515	0.515852693	0.992098017	0.044694881
RP11-398K22.12	0.50794655	0.260900924	0.988918301	0.046289197
RP11-398G24.2	7.596065735	2.568564766	22.46399056	0.000247174
RP11-398A8.2	0.022025814	0.000499439	0.971363015	0.048267754
RP11-397A15.4	3.641016815	1.012750997	13.09009173	0.047774213
RP11-395G23.3	1.252955461	1.011121526	1.552629774	0.039298235
RP11-395B20.2	38.10766878	3.135890504	463.0883692	0.004278174
RP11-394O2.3	0.311820323	0.105096128	0.925171229	0.035717306
RP11-390E23.6	0.705409179	0.50941512	0.976810643	0.035620403
RP11-38M8.1	1.394870221	1.102724406	1.764414503	0.005512587
RP11-38G5.3	77.81805857	2.0598213	2939.891067	0.01877629
RP11-389C8.2	0.679207778	0.488219947	0.944908558	0.021655194
RP11-388C12.8	0.732589176	0.545210861	0.984365755	0.038969251
RP11-387M24.5	0.543729215	0.323662078	0.913426314	0.02132994
RP11-387H17.4	0.415169634	0.189762239	0.908325208	0.027759067
RP11-386O9.2	0.027061484	0.002208818	0.331545644	0.004749901
RP11-386I14.4	0.721425215	0.557106814	0.934209252	0.013285741
RP11-385M4.3	43.83676775	1.878792174	1022.817869	0.018654326
RP11-385H1.1	3262386905	4.703174332	2.26E+18	0.034942499
RP11-385D13.3	0.446929925	0.247730036	0.806306579	0.007471137
RP11-384O8.1	1.536208944	1.211225972	1.948387809	0.000399849
RP11-384L8.1	0.743282204	0.555091578	0.995274394	0.046396887
RP11-384F7.1	7.646788375	2.046704593	28.56952226	0.002486262
RP11-384C4.7	0.160982494	0.028253746	0.917236382	0.039660141
RP11-384C4.2	0.517150597	0.274862039	0.973014466	0.040875273

RP11-383J24.1	1.473051691	1.088589312	1.993296518	0.012072373
RP11-383G10.3	0.114629083	0.016869021	0.778932363	0.026725908
RP11-382B18.1	5.82E+14	54240.94768	6.25E+24	0.003913856
RP11-380I10.4	0.023017283	0.002703674	0.195953847	0.000557311
RP11-380I10.2	0.002179852	1.02E-05	0.463842123	0.025035355
RP11-370I16.3	12.02043233	1.370462995	105.4321013	0.024805529
RP11-379K22.3	1.259341862	1.086937013	1.45909276	0.002142338
RP11-379F4.9	0.356209496	0.127125409	0.998110496	0.049580946
RP11-378J18.9	2.653322021	1.455728637	4.836147047	0.00144269
RP11-378J18.10	1.920654792	1.174743459	3.140187589	0.009267285
RP11-378G13.2	4.771987759	2.015560754	11.29803065	0.000379605
RP11-378A13.1	0.555586094	0.364972768	0.845750518	0.006118047
RP11-375O18.2	3.15E-09	1.28E-15	0.007746361	0.009123236
RP11-375N15.2	0.242120506	0.065148337	0.899828636	0.034213065
RP11-374M1.3	185967803.9	1.176473737	2.94E+16	0.048060069
RP11-373N22.3	0.484840017	0.240610595	0.976972117	0.042853468
RP11-373E16.4	31.75981648	1.440740618	700.1162664	0.02842629
RP11-373D23.3	1.475780879	1.077795925	2.020725032	0.015215996
RP11-373A6.1	5.303353936	1.465989008	19.18538463	0.01098876
RP11-372B4.3	0.576180485	0.377500893	0.879425604	0.010603009
RP11-371A19.2	0.407103654	0.175908307	0.94215781	0.035804955
RP11-370I10.6	0.177278295	0.037623464	0.835318982	0.02870712
RP11-370I10.4	0.431333323	0.186942049	0.995219839	0.048701391
RP11-370I10.2	0.302339862	0.108782914	0.840291814	0.021813277
RP11-370I10.12	0.553661331	0.313250614	0.978580268	0.041903669
RP11-367J7.3	0.07357504	0.005609465	0.965027309	0.046914395
RP11-367H5.8	0.18803494	0.040832625	0.865904135	0.031972714
RP11-367G6.3	0.559508212	0.337747575	0.926873982	0.024144164
RP11-367G18.1	0.722190805	0.528582257	0.986714087	0.040957485
RP11-367F23.2	4.811144717	1.664912822	13.90289821	0.003713654
RP11-366H4.1	2.08064992	1.186834818	3.647604557	0.010528123
RP11-365P13.5	0.342083321	0.118699388	0.985860164	0.046996275
RP11-363N22.3	0.291901188	0.122498985	0.695567425	0.00544606
RP11-363G2.4	357.2844672	14.95244863	8537.209767	0.000282959
RP11-363G10.3	0.050840858	0.003933005	0.6572056	0.022523375
RP11-362K2.2	0.000471103	1.13E-06	0.197255059	0.012884234
RP11-361L15.5	0.573285044	0.361468217	0.909224455	0.018060664
RP11-361F19.1	112.4224361	1.187536994	10642.87193	0.041951835
RP11-361C13.1	0.428665053	0.193697425	0.948663759	0.036618484
RP11-360A10.1	0.319592231	0.150920298	0.676775725	0.002884076
RP11-350I15.2	0.421236588	0.184181846	0.963397139	0.040529624
RP11-35N6.1	0.798670296	0.672935172	0.947898503	0.010105807
RP11-35G9.5	0.442382426	0.229523337	0.852646243	0.014845783
RP11-35G9.3	0.626294027	0.40477411	0.969044705	0.035627046
RP11-359N11.1	0.200531921	0.076136277	0.528172022	0.001146628
RP11-359M6.1	0.739423692	0.593580691	0.921100374	0.007077783
RP11-359G22.2	16.35878455	2.500161778	107.0370063	0.003544317
RP11-359E19.2	0.865026678	0.765218101	0.977853442	0.020449629
RP11-358D17.2	0.026076484	0.00086297	0.787956625	0.035993352

RP11-357N13.1	0.403437862	0.181753717	0.895509105	0.025665239
RP11-357J22.1	6.13E-06	4.27E-11	0.881370004	0.047613145
RP11-356O9.2	0.811176443	0.662178698	0.993700377	0.043280367
RP11-356M20.1	1.207970514	1.076485965	1.355514899	0.00131143
RP11-356K23.1	0.81240308	0.677979333	0.973479179	0.024371877
RP11-355N15.3	26.48076444	2.949148267	237.7740357	0.003436635
RP11-355F22.1	2.469049649	1.32709813	4.593636317	0.004325856
RP11-355B11.2	0.571096579	0.360396313	0.904979577	0.017076959
RP11-354P11.3	0.050235088	0.006137254	0.411187827	0.005295518
RP11-354I13.2	15.72049715	1.136073458	217.5334956	0.039866073
RP11-354H21.2	1053564.579	12.60656771	88049209554	0.016474913
RP11-354E11.2	0.372831712	0.191314992	0.726568704	0.003752045
RP11-353K11.1	0.541103451	0.357425434	0.819172103	0.00369963
RP11-352M15.2	0.514332429	0.317680038	0.832717879	0.006838351
RP11-351J23.1	1.858060428	1.069034204	3.229446299	0.028044946
RP11-351I24.1	3.797005799	1.992235034	7.236722973	5.02E-05
RP11-34P1.1	0.018261896	0.000781528	0.426724161	0.012787707
RP11-349G13.3	0.069945266	0.010429857	0.4690707	0.00615123
RP11-348N5.7	0.457260714	0.230475983	0.90719804	0.025182503
RP11-347P5.1	0.304851502	0.131239612	0.708127954	0.005734682
RP11-347E10.1	1.52510323	1.184254288	1.964054415	0.001074215
RP11-347C18.3	0.445995746	0.302131293	0.658363467	4.83E-05
RP11-346E8.1	0.025874585	0.001397537	0.479052973	0.014120227
RP11-346D19.1	1.473634484	1.012641001	2.144490091	0.042806898
RP11-346C16.2	5.55E-05	1.47E-08	0.210052141	0.019743546
RP11-345P4.9	0.522804684	0.401106108	0.681427514	1.61E-06
RP11-345J4.3	84572.5731	1.618026674	4420520525	0.040679997
RP11-344N10.5	0.421487808	0.177758481	0.99940082	0.049841167
RP11-344F13.1	0.472081073	0.234295542	0.951194107	0.035733073
RP11-344B5.2	0.73409887	0.613627873	0.878221435	0.000725366
RP11-343K8.3	0.221429163	0.051434591	0.953266532	0.042947174
RP11-343J3.7	3728.00442	1.053341408	13194218.75	0.048560733
RP11-343C2.7	0.094388256	0.009053874	0.984014453	0.048445774
RP11-342M3.5	0.014469899	0.000701123	0.298632219	0.006098253
RP11-342M1.3	0.700489908	0.495294884	0.990694891	0.044133036
RP11-342K6.1	1.648998791	1.205377815	2.25588772	0.001758587
RP11-341G23.3	11.13055773	1.233037713	100.4748793	0.031827466
RP11-341B24.3	0.189414432	0.062573722	0.573368918	0.003237426
RP11-341A22.1	26219817.17	8364.563095	82189446686	3.20E-05
RP11-341A11.3	834.4214289	1.637835294	425109.3645	0.034421713
RP11-340L3.1	3155.391734	1.388546132	7170447.395	0.041031701
RP11-340I6.3	2.81E+21	118.5381777	6.66E+40	0.030025244
RP11-33E15.1	6086443.803	1.563633065	2.37E+13	0.043622455
RP11-33E12.2	0.761857835	0.601200964	0.965446491	0.024386852
RP11-33B1.1	0.563026873	0.373757259	0.848142082	0.005998445
RP11-339F13.2	156.9560839	2.368750596	10400.087	0.01812736
RP11-335L23.4	7.05930897	1.200271344	41.51881437	0.030626029
RP11-333E13.4	0.251834489	0.06395587	0.991630787	0.048611599
RP11-332H14.1	0.465848543	0.267664599	0.810771639	0.006893947

RP11-332E4.1	1.351081124	1.001032026	1.823538265	0.049217138
RP11-330H6.6	0.169256803	0.034674023	0.826205413	0.02809363
RP11-330C7.4	0.025338844	0.000697884	0.920005859	0.044914223
RP11-32K4.1	2.178500141	1.136633151	4.175369037	0.018986154
RP11-32D16.1	5.00E+12	1811.381691	1.38E+22	0.008380442
RP11-32B5.1	0.0004594	8.94E-07	0.236198226	0.015819643
RP11-328C8.4	7.23E-06	3.63E-09	0.014411783	0.002260459
RP11-327P2.5	0.450265273	0.244645497	0.828704466	0.010357972
RP11-327L3.3	0.147257718	0.033073326	0.655659342	0.011939332
RP11-327F22.2	0.482201125	0.255524234	0.909964275	0.024375387
RP11-327F22.1	0.326704313	0.116964861	0.912545074	0.032794603
RP11-327E2.5	0.461250503	0.247715667	0.858855757	0.014700486
RP11-326L9.1	1.18E+21	810953.6232	1.71E+36	0.006452906
RP11-326K13.4	0.23231834	0.102136597	0.528427739	0.000499142
RP11-326I11.3	0.628152747	0.437472812	0.901943763	0.011765856
RP11-326A19.2	148.4286395	5.226697209	4215.101839	0.003404996
RP11-325L7.2	0.024675468	0.000962969	0.632293228	0.025288898
RP11-325L12.3	0.180854322	0.039841572	0.820958713	0.026721391
RP11-325K4.3	0.659653267	0.489803254	0.888402494	0.006162887
RP11-325K4.2	0.580308855	0.418558775	0.804566496	0.001097176
RP11-325K19.1	15.42840027	2.118106413	112.3812918	0.006918044
RP11-325I22.3	0.503519779	0.267204946	0.948830371	0.03380059
RP11-325F22.2	0.649445381	0.455446472	0.926078758	0.017118756
RP11-324O2.3	0.622969585	0.417272473	0.930066395	0.020638564
RP11-324L17.1	2.552030337	1.69213421	3.848902057	7.86E-06
RP11-323F24.3	0.182450798	0.062489664	0.532700794	0.001858284
RP11-322L20.1	2.95E+14	1844.997382	4.72E+25	0.011363956
RP11-322A17.3	8.35E+25	2.21E+12	3.16E+39	0.000182744
RP11-321E2.4	162.8994328	4.548841862	5833.622275	0.005275306
RP11-321C24.4	1.503418757	1.016981558	2.222526004	0.04091467
RP11-320N7.2	0.844496742	0.730729038	0.975977018	0.022060067
RP11-320L11.2	0.452609126	0.25419488	0.80589751	0.007079426
RP11-320H14.1	1.770537307	1.191306013	2.631399761	0.00471555
RP11-316N24.2	5.198991664	1.180090674	22.90460803	0.029344182
RP11-316I3.2	9.903241487	2.190701628	44.76839323	0.002893861
RP11-316I3.1	23.9453759	6.43894715	89.0488792	2.15E-06
RP11-315L6.1	16399.96556	121.1649193	2219775.094	0.000106315
RP11-315A16.3	26055586.32	28.28098158	2.40E+13	0.01481215
RP11-314N13.10	1.8835897	1.072659064	3.307584187	0.027515418
RP11-314A20.5	0.217942301	0.053662634	0.885138191	0.033122729
RP11-313E19.1	393669.7964	7.303060984	21220678417	0.020468331
RP11-312J18.5	1.571058228	1.208582327	2.042247268	0.000736671
RP11-311P8.2	0.500363084	0.25462624	0.983257716	0.044542406
RP11-310E22.6	0.355366885	0.162541506	0.776943846	0.009532043
RP11-30P6.6	1.729931397	1.147152863	2.608774066	0.008923889
RP11-30B1.1	0.037996271	0.002764015	0.522325884	0.014458554
RP11-309M7.1	1.788872852	1.262232135	2.53524371	0.001079572
RP11-309M23.1	0.155460746	0.034410244	0.702350262	0.015555971
RP11-308D13.3	2.457661906	1.255176594	4.812153185	0.008718336

RP11-307C12.13	0.308958347	0.102593636	0.930420872	0.036781608
RP11-305F5.2	5.639425627	1.145464509	27.76438829	0.033423605
RP11-305B6.3	0.420972715	0.183409483	0.966242439	0.041253502
RP11-304L19.13	0.636172056	0.437429608	0.925211457	0.017946243
RP11-304F15.4	0.035579414	0.001994325	0.634748393	0.023260299
RP11-304F15.3	0.778869738	0.609627367	0.995096516	0.045577171
RP11-303G3.6	0.740995047	0.59267209	0.926437518	0.008526808
RP11-303E16.6	1.617750855	1.123341425	2.329761701	0.009738677
RP11-303E16.2	1.280204216	1.063017416	1.541764802	0.009207802
RP11-302K17.3	0.383797417	0.154612981	0.952704334	0.038978826
RP11-302F12.5	0.012543526	0.000334071	0.470977765	0.017933045
RP11-302F12.1	0.855104603	0.771300104	0.948014759	0.002935825
RP11-302B13.5	3.918572151	1.490482329	10.3021736	0.005619567
RP11-300J18.1	0.043374198	0.004039525	0.465728258	0.009572112
RP11-2N5.1	1.17E-05	2.13E-10	0.645857676	0.041503951
RP11-2J18.1	0.231825235	0.061530618	0.873434088	0.030779096
RP11-2I17.1	0.001102961	1.49E-05	0.081375117	0.001914712
RP11-2H3.7	0.260130909	0.075677432	0.894164724	0.032554234
RP11-2H3.6	0.467168931	0.27250188	0.800900198	0.005653612
RP11-2C24.7	0.434677129	0.206498571	0.914990383	0.028242053
RP11-2C24.3	0.412655065	0.202198178	0.842164875	0.015018718
RP11-299J5.1	138.3617331	1.325299021	14445.01874	0.037643195
RP11-298E9.5	5.664271838	1.034825231	31.00424544	0.045561563
RP11-297P16.4	1.336231507	1.005195484	1.776285976	0.045972869
RP11-297L17.4	1.83E+42	12656941.85	2.64E+77	0.018478887
RP11-297L17.2	1.975979708	1.411804857	2.765605873	7.17E-05
RP11-297J22.1	1.657565892	1.17994775	2.328513856	0.003566357
RP11-297B17.3	0.333101964	0.120564337	0.920312934	0.033996141
RP11-296L22.8	0.003877978	3.73E-05	0.403542989	0.019135758
RP11-296A18.6	0.381237965	0.161745431	0.898587273	0.027496035
RP11-295P9.12	0.625280495	0.409463311	0.954849158	0.029715556
RP11-295G20.2	1.195724521	1.065302562	1.342113669	0.002417437
RP11-295D4.5	0.391006771	0.15937628	0.95927885	0.04029065
RP11-295D4.4	0.384564621	0.205014484	0.721363411	0.002904796
RP11-295D4.1	2.423621227	1.336394156	4.395364815	0.003560344
RP11-294J22.7	0.146746343	0.021805354	0.987578046	0.048516766
RP11-294C11.2	0.8462843	0.721163955	0.993112747	0.040891442
RP11-293P20.4	299.5808802	1.520274336	59034.54503	0.034399647
RP11-293A21.1	0.561549169	0.397733722	0.792835638	0.001041464
RP11-290L7.5	824352538.9	4217.80251	1.61E+14	0.000957209
RP11-290L1.5	2.824228157	1.37647109	5.794720091	0.00463564
RP11-290F5.1	0.753766936	0.589796085	0.963323779	0.023913831
RP11-287F9.1	4.42E+12	8097.807119	2.41E+21	0.004557942
RP11-286H15.1	0.490417306	0.285713889	0.841783139	0.009743932
RP11-285G1.14	0.402580173	0.197701088	0.819776954	0.012153237
RP11-285E9.5	0.673106566	0.457882996	0.989493939	0.044041999
RP11-285E18.2	6.23E+12	31019.57219	1.25E+21	0.002525557
RP11-285A15.1	771604689.7	1586.15945	3.75E+14	0.002191886
RP11-284N8.3	0.842230031	0.72943904	0.972461558	0.019251123

RP11-284M14.1	0.453387899	0.206622054	0.99486276	0.048517267
RP11-284F21.9	1.285227422	1.139914252	1.449064719	4.15E-05
RP11-284F21.7	1.247639799	1.105909461	1.40753391	0.000322907
RP11-284F21.11	3.077726228	1.040557237	9.103198164	0.042172077
RP11-284F21.10	1.212043178	1.097989481	1.337944206	0.000136788
RP11-284B18.3	0.041188694	0.004978269	0.340782825	0.003091723
RP11-283G6.4	0.5206086	0.336143121	0.806303322	0.003449502
RP11-282O18.7	0.43966398	0.20898176	0.924982233	0.030352582
RP11-281P11.1	2.086359869	1.087020605	4.004429617	0.027049652
RP11-281O15.2	0.002601174	2.21E-05	0.305890502	0.014406736
RP11-280O1.2	0.556082394	0.311110274	0.993948622	0.047653205
RP11-27I1.6	0.498176552	0.2897574	0.856509192	0.011729956
RP11-27G24.1	0.335472668	0.157782324	0.713273246	0.004541041
RP11-279O22.1	1696786.058	10.17558054	2.83E+11	0.019380792
RP11-279F6.1	0.876088856	0.785076521	0.977652068	0.018087372
RP11-278L15.6	1.309039487	1.004341654	1.706176749	0.046369915
RP11-278H7.1	0.001527291	2.09E-05	0.111466609	0.003053574
RP11-275N1.1	9.245014607	1.123737821	76.05892896	0.038596645
RP11-275I4.2	0.191739665	0.052972245	0.694025701	0.011853786
RP11-275I14.4	0.796225712	0.645123256	0.98271978	0.033811577
RP11-274J2.1	1089.558805	1.135640576	1045346.929	0.045904349
RP11-274J16.5	2.665154301	1.206022079	5.889649597	0.015393049
RP11-274H2.5	1.795339395	1.222244108	2.637152038	0.002854878
RP11-274A11.4	1.599422241	1.250116077	2.046331178	0.000187244
RP11-272P10.3	1581.755821	26.08144976	95928.38967	0.000436395
RP11-272L14.2	1.755143115	1.052774451	2.926103831	0.030991994
RP11-272K23.3	9.001037091	2.935543561	27.59920507	0.000121174
RP11-272B17.2	2.773305147	1.850382289	4.156558071	7.78E-07
RP11-26O3.1	4881.265909	4.189221119	5687634.096	0.018392724
RP11-26N15.2	0.013475187	0.000330687	0.54910201	0.022793451
RP11-26L20.4	0.214815318	0.060272515	0.765616314	0.0176997
RP11-269F21.3	1.371878286	1.166791564	1.613013061	0.000129639
RP11-269F21.2	1.546394989	1.119610928	2.135864704	0.0081534
RP11-269F21.1	5.390974272	1.802875167	16.12014195	0.002573337
RP11-268G12.2	84493247056	13426.09762	5.32E+17	0.001632926
RP11-268F1.3	0.541922692	0.338190567	0.86838674	0.010879164
RP11-267N12.1	1.93E-09	3.92E-17	0.094864794	0.026377726
RP11-267M23.1	1.508668198	1.115623689	2.04018591	0.007574042
RP11-267J23.4	1.293868329	1.003239266	1.668689922	0.047157872
RP11-266L9.8	0.784194153	0.627878106	0.979426521	0.032093957
RP11-266L9.4	0.589018352	0.390409299	0.888663819	0.011652609
RP11-266A24.1	0.222179248	0.062405848	0.79100949	0.02024219
RP11-264M12.2	0.489655959	0.26182501	0.915737416	0.025380964
RP11-264L1.3	0.074228315	0.006380993	0.863477275	0.037782265
RP11-264B17.4	0.51110087	0.263708585	0.990578673	0.046811533
RP11-264B14.1	0.295830877	0.132582614	0.660085855	0.002935952
RP11-263K4.3	1.84E-05	1.22E-09	0.279162892	0.026432909
RP11-263K4.1	0.133780191	0.020767059	0.861804229	0.034306873
RP11-263C24.1	0.005825188	8.81E-05	0.385131289	0.016121645

RP11-25B7.1	0.024585268	0.000669406	0.902942844	0.043852872
RP11-259O2.1	1.660211153	1.032217271	2.67027219	0.036551485
RP11-259N19.1	1.645783844	1.281943366	2.112889331	9.29E-05
RP11-259K5.2	0.55641517	0.337548946	0.91719392	0.021509425
RP11-259K15.2	0.830245693	0.726013281	0.949442564	0.006569216
RP11-256I9.2	2102.756459	26.06789555	169618.0161	0.000636318
RP11-255M2.3	5.75754398	1.004396258	33.00421762	0.049427223
RP11-255M2.1	11.93164924	1.510560758	94.24596321	0.018716014
RP11-255I10.2	3832246620	13054.09288	1.13E+15	0.000591894
RP11-255H23.4	0.238753762	0.060082734	0.948747753	0.041880761
RP11-255H23.2	0.734492199	0.577960478	0.933418133	0.01162198
RP11-255G12.3	3.599678011	2.125475194	6.096369329	1.89E-06
RP11-254F7.3	1.723467133	1.097754673	2.705831302	0.018019315
RP11-253M7.4	0.464456674	0.265980877	0.811035757	0.007010127
RP11-253E3.3	1.50603554	1.078838351	2.102393786	0.01613676
RP11-252A24.2	0.501267324	0.302677272	0.830154601	0.007292932
RP11-251M1.1	0.492260068	0.322255967	0.751948758	0.001042311
RP11-251G23.2	0.632094846	0.439703445	0.908666736	0.013242367
RP11-24B13.2	60924743119	3492.714624	1.06E+18	0.00351236
RP11-248J23.7	0.000284614	2.37E-06	0.034211733	0.000834019
RP11-248J18.2	1.455481529	1.039589711	2.037752452	0.028808153
RP11-248E9.6	239.6758928	1.272683753	45136.53409	0.040346198
RP11-248E9.1	18.87284799	5.069142157	70.26522045	1.19E-05
RP11-247I13.11	0.415228731	0.199203027	0.86552349	0.019009813
RP11-246K15.1	0.343572717	0.133303922	0.88551192	0.026989199
RP11-245J9.6	0.440265469	0.197197532	0.98294173	0.045290103
RP11-245J9.5	0.505741865	0.301897118	0.847225158	0.009604122
RP11-245J24.1	3.246700898	1.284002056	8.209540379	0.012841751
RP11-245G13.2	0.383745013	0.157542691	0.934732254	0.034982993
RP11-245D16.4	0.605016974	0.416915467	0.87798503	0.008172151
RP11-243M5.4	0.178960888	0.035645584	0.898484352	0.036618484
RP11-243M5.3	0.413892714	0.214155439	0.799919814	0.008689862
RP11-243M5.2	0.441573103	0.197462795	0.987460981	0.046514526
RP11-242D8.1	0.649687337	0.471169767	0.895841936	0.00851392
RP11-241G9.3	0.429074596	0.190959238	0.964106324	0.040514931
RP11-23P13.6	0.602299657	0.369665365	0.98133315	0.0417885
RP11-23N2.4	0.656630226	0.431353551	0.999558839	0.049759899
RP11-23J9.4	0.010228197	0.000226521	0.461838794	0.018404825
RP11-23J18.1	0.539946423	0.361756167	0.805907864	0.002561531
RP11-23F23.3	305966.3866	3.863347882	24231685208	0.028177443
RP11-23B7.4	14236.98118	24.44967182	8290157.613	0.00324014
RP11-238I10.1	4.818105311	1.260078734	18.42276849	0.021573801
RP11-235P11.1	0.000561256	5.41E-07	0.581876371	0.034617313
RP11-235G24.3	1.611952862	1.218250979	2.132887288	0.000832661
RP11-235G24.2	744.5527242	8.065643829	68730.87516	0.004181148
RP11-230G5.2	1.760796623	1.285224079	2.412345673	0.000428104
RP11-230F18.5	1.662668318	1.138147309	2.428917518	0.008560748
RP11-22P4.1	0.335744328	0.164985039	0.683239246	0.002606131
RP11-22C11.2	0.71252801	0.52720116	0.963002746	0.027436678

RP11-229P13.25	1.929656572	1.112686725	3.346471563	0.019279441
RP11-228B15.4	0.738423037	0.582767754	0.935653316	0.012051655
RP11-227H15.4	2.082690801	1.458900705	2.973198214	5.36E-05
RP11-227F8.2	4.23E-05	4.71E-09	0.379000194	0.030090283
RP11-226F19.1	1966.215449	1.417588334	2727169.164	0.039927539
RP11-224O19.5	0.090257316	0.008193916	0.994198955	0.049447041
RP11-221N13.4	2.078799399	1.334961865	3.237101412	0.001201686
RP11-21L23.2	1.267364616	1.033088022	1.554768843	0.023079022
RP11-21I4.4	820.9501513	9.631283943	69976.0442	0.003090471
RP11-21C4.1	0.142263353	0.020792292	0.973382888	0.046871564
RP11-21B23.2	1.577197767	1.3398934	1.856530375	4.33E-08
RP11-219H23.1	801367.161	56.04372046	11458720469	0.005357645
RP11-218M22.1	0.771208508	0.608455287	0.977495924	0.031700397
RP11-218I7.2	37.1689936	6.940095776	199.0655647	2.41E-05
RP11-218I21.2	30.36073352	1.28628157	716.619255	0.034341031
RP11-218C14.5	0.011260674	0.000210589	0.602134537	0.027117285
RP11-216N14.8	0.00312039	1.48E-05	0.658766527	0.034617562
RP11-216N14.5	0.009343917	0.000233176	0.374433255	0.013077824
RP11-216B9.6	0.39866297	0.209611857	0.758221245	0.005050142
RP11-215P8.2	0.240911451	0.070029926	0.828764651	0.023951055
RP11-214K3.21	0.527279931	0.284939276	0.975731145	0.041529611
RP11-214D15.2	0.001138173	1.34E-05	0.096615298	0.002777953
RP11-213O5.4	0.272327726	0.100643224	0.736884085	0.010432927
RP11-213H15.1	0.452598575	0.282945315	0.72397548	0.000940924
RP11-213G2.3	0.610398789	0.437508353	0.851610442	0.003668708
RP11-212I21.4	0.139837694	0.02268436	0.862029181	0.034010045
RP11-212I21.2	0.677796091	0.517894946	0.887067047	0.004613464
RP11-211G23.2	1.126196765	1.002887433	1.264667511	0.044569384
RP11-211G23.1	21175280.69	140.9904074	3.18E+12	0.005542552
RP11-210K20.4	0.004436441	2.32E-05	0.849385093	0.043295013
RP11-210K20.2	0.24511122	0.077990574	0.77034322	0.016104166
RP11-20J1.1	7.681425314	1.804357271	32.70100428	0.00580649
RP11-20D14.3	4.484097672	1.085216361	18.5282241	0.038177928
RP11-206P5.2	0.679552621	0.535272001	0.862723556	0.001510742
RP11-206L10.9	0.336115007	0.122671305	0.920943148	0.033996909
RP11-205K6.3	7.35E-10	4.92E-15	0.000109672	0.00054015
RP11-204L24.2	0.296430373	0.105135657	0.835786529	0.021496675
RP11-204C16.4	1.350299011	1.057211316	1.724638576	0.016146203
RP11-203M5.7	0.705947776	0.5227325	0.953379144	0.023123543
RP11-203F8.1	78632.70131	2.577326112	2399037392	0.032381491
RP11-201O14.2	0.447689208	0.215980477	0.927980296	0.030699614
RP11-201M22.1	7.27E+44	352.7040348	1.50E+87	0.037713117
RP11-1E6.1	2.557663542	1.202920485	5.438134003	0.014687441
RP11-1C8.5	42.76453684	3.50486014	521.7913236	0.003254819
RP11-1C1.6	2.066078556	1.328083453	3.21416594	0.001289164
RP11-1C1.5	9.97E-05	1.04E-08	0.95630583	0.048894031
RP11-1C1.4	2.404025467	1.357270674	4.258058882	0.002635912
RP11-19J5.1	0.026241783	0.001055365	0.652505082	0.026394211
RP11-19F9.1	1.12E-08	1.48E-16	0.853727807	0.048036566

RP11-199F6.4	22.7121394	1.744881988	295.6310396	0.017072727
RP11-196H14.4	4.522945678	1.020697984	20.04220438	0.046929448
RP11-196G11.5	0.643815894	0.517616767	0.800783382	7.63E-05
RP11-196B3.2	2.38E-05	3.37E-09	0.167462043	0.018510517
RP11-195M16.1	0.025059906	0.00173151	0.362688529	0.006854519
RP11-192P3.4	0.007247037	5.32E-05	0.987148332	0.049400015
RP11-18O11.1	3.07E+22	783522812.7	1.20E+36	0.001185106
RP11-18H21.1	0.266992334	0.124796653	0.571208482	0.000666171
RP11-189E14.5	0.000214821	1.48E-07	0.312602653	0.023032093
RP11-187E13.3	19.24806049	1.241783699	298.3513414	0.034445634
RP11-187E13.1	1.222795859	1.00321525	1.490437583	0.046398348
RP11-186F10.2	1.852934538	1.107891548	3.099009474	0.018752318
RP11-185N2.1	40.89580962	1.32040676	1266.630326	0.034120819
RP11-185J20.2	286.198694	1.32532305	61803.56739	0.039144201
RP11-185J20.1	69.91749999	3.982652684	1227.437388	0.003669696
RP11-184M15.1	1.749038437	1.076515751	2.841700599	0.023963683
RP11-182N22.9	0.004461345	4.30E-05	0.463028204	0.022310538
RP11-182L21.6	0.566220069	0.325080497	0.986233163	0.044544896
RP11-182L21.5	0.003638294	2.79E-05	0.474208462	0.02380685
RP11-182J1.1	0.080931273	0.009688177	0.676068451	0.020264471
RP11-181B11.2	0.062063759	0.004620843	0.833594704	0.035967467
RP11-181B11.1	0.242366202	0.081117586	0.724150933	0.011151718
RP11-1804.4	0.004107695	3.44E-05	0.489922747	0.024294368
RP11-1804.2	0.329079366	0.121138215	0.893964209	0.029272687
RP11-17M24.1	0.132094284	0.021429335	0.814252999	0.029153696
RP11-17J14.2	0.451342876	0.228207673	0.892653559	0.022235401
RP11-17E13.2	0.737876029	0.546203938	0.996809062	0.047614827
RP11-17A4.4	8.01787875	1.980930215	32.45262209	0.003520189
RP11-179B15.5	2.588085367	1.095063429	6.116710403	0.030242313
RP11-179A7.2	0.058165683	0.003635323	0.93065904	0.044350408
RP11-178C3.2	0.324995235	0.106170672	0.994831258	0.048948199
RP11-177G23.2	0.317407625	0.119187374	0.845287523	0.021659321
RP11-177F15.1	7.567222592	1.703261454	33.61953483	0.007816892
RP11-177C12.1	1.804037635	1.245596359	2.612846261	0.001796216
RP11-173A8.2	0.275437377	0.085262822	0.889786977	0.031150639
RP11-16E12.2	0.78843568	0.647695088	0.959758431	0.017818156
RP11-16E12.1	0.540839715	0.322142638	0.908006465	0.020071098
RP11-16D22.2	2.138882265	1.062143921	4.307153911	0.033273066
RP11-169K17.4	0.063482309	0.00472338	0.853203352	0.037551073
RP11-169K17.3	0.057437488	0.005764142	0.572342787	0.014863773
RP11-169K16.6	1.619319114	1.176632182	2.228559132	0.003093964
RP11-169E6.1	0.391187348	0.201858773	0.758092101	0.005429265
RP11-168K9.1	3.006298609	1.029425187	8.779493106	0.044114541
RP11-167P23.4	5.529574905	1.128047929	27.10540735	0.034985739
RP11-167N24.5	11.79533405	2.369437543	58.71853671	0.002583652
RP11-167N24.4	6.603930518	2.077162713	20.99589888	0.001380735
RP11-167J8.3	7.391876702	1.111349627	49.16530301	0.038530175
RP11-166P13.3	0.681331991	0.534179903	0.869020491	0.001996045
RP11-166N17.3	0.074485796	0.006069888	0.914042147	0.042333852

RP11-166B2.5	0.577363789	0.338175164	0.985728642	0.044153301
RP11-165F24.3	0.129744249	0.032252088	0.521937375	0.004034124
RP11-165D7.5	0.341676552	0.149770786	0.779476889	0.010710522
RP11-164O23.8	0.702768114	0.505716358	0.976600843	0.035641356
RP11-164N3.2	1.23E-05	6.72E-10	0.224197738	0.023907372
RP11-164J13.1	0.604145284	0.420186477	0.868641765	0.006526583
RP11-164C1.2	5331.381573	15.39538865	1846243.062	0.004022395
RP11-163G10.2	0.053699964	0.003523169	0.818492114	0.035371958
RP11-161H23.5	1880.604222	2.149427996	1645401.589	0.029156813
RP11-161D15.3	99119.14957	9.43245297	1041574853	0.014893261
RP11-161D15.2	5.987370167	1.692307077	21.18327224	0.005503051
RP11-161D15.1	3.959279986	1.818333237	8.621025941	0.000528282
RP11-15M15.2	6.991763188	1.328987822	36.78344652	0.021692327
RP11-15H20.6	0.403234377	0.237807223	0.683738537	0.000748803
RP11-15B24.5	13.04256736	3.011649176	56.4835256	0.0005943
RP11-15B24.4	147.3184768	8.10386637	2678.071505	0.000740985
RP11-15B24.3	642545.9201	1.125348182	3.67E+11	0.04799353
RP11-159N11.4	0.695743366	0.508754072	0.951459376	0.023115055
RP11-159K7.1	0.000399211	1.65E-07	0.965037594	0.048962568
RP11-159J3.1	1.199749806	1.020604456	1.410340301	0.027303949
RP11-159D23.2	3.20954656	1.058383681	9.732944022	0.039378257
RP11-158M2.3	0.539907402	0.292578849	0.996312631	0.048634498
RP11-153M7.3	0.560116356	0.330838341	0.948288918	0.030957748
RP11-152F13.10	111416.2197	99.36374016	124930623.5	0.001180615
RP11-150O12.6	0.80427575	0.647459524	0.999073237	0.049028599
RP11-150O12.3	1.377872276	1.070361886	1.773729085	0.012857945
RP11-14N7.2	1.953776376	1.493080942	2.556621025	1.05E-06
RP11-14C22.6	194.3777266	1.183209477	31932.38504	0.042908844
RP11-149I9.2	0.59302427	0.385460854	0.912356679	0.017441027
RP11-148O21.4	0.547369683	0.313271115	0.95640343	0.034300704
RP11-148O21.2	0.64540522	0.47046609	0.885394095	0.006636219
RP11-148L24.1	441.161288	9.67476877	20116.58228	0.001781421
RP11-147L13.15	0.575093226	0.412115146	0.802523813	0.001138295
RP11-145P16.3	0.098802284	0.015448205	0.631911056	0.014494089
RP11-145H9.3	13.98668925	1.074121411	182.1278993	0.043950075
RP11-144G6.4	4.677134178	1.164481837	18.78568082	0.029658811
RP11-144A16.8	0.418963864	0.175752518	0.998738006	0.049667898
RP11-143A22.1	0.018405389	0.000674377	0.502327684	0.017881251
RP11-142A5.1	0.176622871	0.036251231	0.860540127	0.031884027
RP11-142A22.3	6.042113629	1.383910025	26.3797042	0.016754827
RP11-141O11.2	0.619874779	0.432861332	0.887685533	0.009048498
RP11-141O11.1	0.298701618	0.110866742	0.804773863	0.016872611
RP11-141M1.3	0.203519279	0.044609732	0.928499117	0.039805556
RP11-1415C14.4	117.3707333	1.440855655	9560.908464	0.033782871
RP11-140K17.3	0.716227188	0.560250507	0.915628596	0.00773679
RP11-1406H17.1	0.36165369	0.13322354	0.981758867	0.045923636
RP11-13M3.1	2.20E+18	7762140.399	6.25E+29	0.001694814
RP11-139J15.5	8167555.077	2.993768646	2.23E+13	0.035292159
RP11-139H15.6	0.492439902	0.295604265	0.820343568	0.006518501

RP11-1396O13.14	11662.93436	1.167950341	116463888.1	0.046260745
RP11-138B9.1	139058.1731	1.009878087	19148029623	0.049809988
RP11-137H2.4	1.476442734	1.023690726	2.129435279	0.03704436
RP11-1379J22.5	0.462534848	0.260403722	0.821564625	0.008525713
RP11-136K7.3	516779.2022	46.08164866	5795381711	0.005691251
RP11-136H19.1	0.509424383	0.30863943	0.840829709	0.008338565
RP11-135M8__A.1	3.28E+14	39337362.26	2.74E+21	3.95E-05
RP11-135F9.4	2.379825749	1.113203028	5.087634917	0.025312038
RP11-135F9.3	1.520162882	1.000107534	2.310646713	0.049941194
RP11-133F8.2	0.159892014	0.032637673	0.783311236	0.023746912
RP11-1334A24.5	3.373824252	1.255087668	9.069239047	0.015939252
RP11-132N15.3	0.050982803	0.002728737	0.9525455	0.046314941
RP11-132A1.3	1539.349865	24.60086402	96321.73919	0.000505976
RP11-131M11.3	0.103442414	0.020279613	0.527639904	0.006352442
RP11-131M11.2	0.434407625	0.216396432	0.872056821	0.019027087
RP11-131K17.1	2498338.063	7.606614123	8.21E+11	0.023023419
RP11-131H24.4	0.354258171	0.148095383	0.847419072	0.019699902
RP11-1319K7.1	0.067699146	0.011665286	0.392890007	0.002688774
RP11-130C6.1	0.405512805	0.186363398	0.882365509	0.022878063
RP11-12J10.4	0.594746173	0.381396489	0.927441705	0.02189098
RP11-12J10.3	0.134604627	0.026011549	0.69655235	0.016796717
RP11-12D24.6	0.529851852	0.301925879	0.929840748	0.026865776
RP11-12A20.13	231210053.6	3007.026526	1.78E+13	0.000793028
RP11-1293J14.1	0.690803718	0.50172774	0.951132932	0.023388795
RP11-128P17.2	26105.04685	4.335977425	157167209.3	0.022002135
RP11-128N14.4	0.39698684	0.166502222	0.946525217	0.037166361
RP11-128L5.1	0.45549855	0.234756413	0.883805157	0.020061464
RP11-127I20.7	0.064313347	0.006948098	0.595300582	0.015657336
RP11-1275H24.3	0.600076485	0.462556595	0.778481578	0.000120285
RP11-1275H24.1	0.627369439	0.469193246	0.838870584	0.001659194
RP11-126O1.6	0.433186947	0.275596434	0.680890271	0.000288127
RP11-126K1.6	0.619780891	0.439053203	0.874901608	0.006532878
RP11-125O5.2	3.033470727	1.125890557	8.173036533	0.028203469
RP11-125N22.2	197.1707067	1.663235875	23373.8871	0.030099374
RP11-125N22.1	3412.593915	1.321442007	8812946.135	0.042407672
RP11-125D12.2	767754.4582	261.091781	2257623376	0.000882087
RP11-124O11.1	0.006930037	9.88E-05	0.486019021	0.021866999
RP11-124N2.1	0.559834971	0.326046209	0.96126005	0.035447488
RP11-1246C19.1	1.407041069	1.134372497	1.745250854	0.001889095
RP11-123G9.1	1.929444529	1.184588732	3.1426571	0.008277424
RP11-122D10.1	72.2795533	1.612893131	3239.107244	0.02735886
RP11-121C6.4	2.648502639	1.037461948	6.761275675	0.041662586
RP11-121A8.1	0.530727905	0.282446399	0.99725863	0.049011232
RP11-121A14.2	0.692583251	0.479781307	0.999771254	0.049857398
RP11-120M18.2	0.129709001	0.019189317	0.876759955	0.036183426
RP11-11N7.4	0.349094616	0.124505763	0.978806506	0.04542614
RP11-11M20.2	0.080748994	0.008734537	0.74650781	0.026582247
RP11-11C20.1	46.86748928	1.171734621	1874.623751	0.040936678
RP11-1191J2.5	0.624467134	0.461349699	0.845257301	0.002301088

RP11-118E18.4	0.019623685	0.00042669	0.902502145	0.044169163
RP11-118B22.4	0.522296141	0.303302676	0.899409338	0.019166382
RP11-117D22.2	0.225296452	0.087071861	0.582949424	0.002122479
RP11-116D17.5	2.348396302	1.017534894	5.419927341	0.045424683
RP11-116D17.3	2.297049539	1.066756361	4.946243375	0.033578467
RP11-1166P10.7	112.078066	2.31184676	5433.531796	0.017164077
RP11-115J23.1	2.827512304	1.356877868	5.892074753	0.005526046
RP11-115C10.1	2.362997981	1.259331016	4.433909264	0.007405148
RP11-114N19.3	0.444602103	0.23085663	0.856250174	0.015347328
RP11-114M1.3	0.360299789	0.191669086	0.677291994	0.001524624
RP11-114M1.1	0.631032752	0.497528492	0.800360866	0.000146963
RP11-1149M3.2	1801.00171	2.24186068	1446837.079	0.028054563
RP11-1148O4.2	0.207751965	0.04687587	0.920748335	0.038577992
RP11-113K21.6	0.649963134	0.446248917	0.946673614	0.024730053
RP11-113K21.2	0.212453404	0.08427554	0.535581841	0.001025179
RP11-1137G4.3	0.029886306	0.002599132	0.343649848	0.004844812
RP11-1136G4.2	0.669769778	0.511837676	0.876433244	0.003486564
RP11-112N19.1	14397383.63	10.34896403	2.00E+13	0.022386049
RP11-1127D7.2	2.07E+13	35.39111186	1.21E+25	0.026556854
RP11-111K18.2	0.16587433	0.034583298	0.795594843	0.024715806
RP11-111E14.2	0.175444928	0.036570442	0.841688558	0.02960166
RP11-111E14.1	0.422063867	0.210410245	0.846621836	0.015150044
RP11-1114A5.4	0.576091222	0.358452332	0.925872331	0.022719589
RP11-1112C15.1	2.196788811	1.311147508	3.68065458	0.002801047
RP11-110I1.5	0.833617951	0.705940478	0.984387365	0.031914193
RP11-110I1.13	0.51238493	0.286633096	0.915938598	0.024055851
RP11-110I1.11	0.805362381	0.656042798	0.988668068	0.038556445
RP11-1105O14.1	1.644306636	1.346500859	2.007978156	1.07E-06
RP11-1101K5.1	216.759013	13.84162493	3394.433092	0.000127108
RP11-10E6.1	23860847.56	31.66451715	1.80E+13	0.013878555
RP11-10A14.5	1.346602848	1.18891564	1.525204288	2.82E-06
RP11-109P6.2	2.547074843	1.098358219	5.906625127	0.029363524
RP11-109E24.2	0.393860649	0.175332503	0.884754442	0.02403952
RP11-1094M14.8	0.745219975	0.584049757	0.950865581	0.018021387
RP11-1094M14.5	0.667809062	0.470380979	0.948101566	0.023944926
RP11-1094M14.12	0.094078616	0.015002167	0.589967159	0.011625893
RP11-1094M14.11	0.785721295	0.634091903	0.973609582	0.02749297
RP11-1090M7.3	0.476897245	0.227997207	0.997516528	0.049233032
RP11-1090M7.1	0.000204646	8.46E-08	0.494977002	0.032607928
RP11-108K3.4	0.256087586	0.074705936	0.877853285	0.030217788
RP11-108B14.4	2.785256948	1.272022981	6.09867619	0.010416717
RP11-1085N6.2	0.120172997	0.028126742	0.513445509	0.004241089
RP11-1084J3.3	0.121837594	0.015519002	0.956530542	0.045259403
RP11-1084A12.2	0.019655588	0.000993769	0.388764543	0.009868817
RP11-1082A3.1	8.49E+17	1450448420	4.97E+26	6.12E-05
RP11-1081L13.4	0.552881337	0.313666825	0.974530133	0.040444855
RP11-107P7.2	258510007.5	3.569818526	1.87E+16	0.03592508
RP11-107N15.1	0.303071866	0.12729974	0.721545511	0.006988746
RP11-1079K10.3	0.173239045	0.040081031	0.74877732	0.018907464

RP11-1079J22.1	25.00269609	3.912277751	159.7879423	0.000670472
RP11-1078H9.5	0.029816127	0.001139923	0.779878542	0.034923068
RP11-1078H9.2	0.003225582	1.66E-05	0.626634826	0.03285784
RP11-1072C15.6	0.007226741	8.29E-05	0.629661624	0.030548344
RP11-1070A24.2	2.38293443	1.058015352	5.367007662	0.036073553
RP11-106M3.3	0.393190727	0.195780482	0.78965455	0.008696539
RP11-1058N17.1	0.093426994	0.017822899	0.489740944	0.00503912
RP11-1057N3.2	141.0214644	10.0391412	1980.951659	0.000241831
RP11-104L21.2	1.371086348	1.013175972	1.85543067	0.040877272
RP11-1046B16.3	0.139598219	0.041634892	0.468060843	0.001423599
RP11-1042B17.2	0.250887704	0.068690526	0.916351118	0.036426413
RP11-103H7.3	3.754167755	1.584661012	8.893874099	0.002646004
RP11-1036E20.9	0.310254227	0.13707973	0.702202182	0.004980987
RP11-102N12.3	0.517909773	0.298403592	0.89888507	0.019340196
RP11-102K13.5	2.050072655	1.630830947	2.577089857	7.75E-10
RP11-102G14.1	1.446408474	1.009407232	2.072600043	0.044327524
RP11-1029J19.5	1.583850471	1.187557424	2.11238822	0.001748245
RP11-1029J19.4	1.433529284	1.161011161	1.770014173	0.000814795
RP11-1023L17.1	0.627402683	0.402166178	0.97878476	0.039930332
RP11-1017G21.5	0.746712863	0.567141082	0.983141792	0.037424102
RP11-100N20.1	6.290024126	3.054478061	12.95291789	6.05E-07
RP11-100F15.2	1.34E+14	10.28541645	1.74E+27	0.034751781
RP11-1008M1.1	636.9131652	1.355452659	299278.8994	0.039700601
RP11-1008C21.2	0.50438654	0.303078428	0.83940577	0.008448692
RP11-1007I13.4	1.929816612	1.070831958	3.477849284	0.028691732
RP1-99E18.2	2.557028249	1.037646223	6.30117792	0.041323108
RP1-95L4.4	1.606152205	1.060096162	2.433481978	0.025399923
RP1-91J24.3	0.064400505	0.005294446	0.783353948	0.031436125
RP1-90J20.10	1255.916585	1.539964024	1024261.894	0.036961005
RP1-8B1.4	0.647010848	0.492359401	0.850238741	0.00178367
RP1-81D8.5	25.25788009	2.668369945	239.0824809	0.004865566
RP1-78O14.1	0.726206423	0.552590607	0.954369766	0.02173295
RP1-77H15.1	0.044941787	0.002165988	0.932491016	0.044948178
RP1-67A8.3	0.061857633	0.007067953	0.541368468	0.011923144
RP1-66C13.4	0.00500927	2.92E-05	0.860193036	0.043661701
RP1-63M2.7	0.786838843	0.623874255	0.992372035	0.042905146
RP1-56J10.8	0.433051649	0.208167337	0.900879712	0.025139046
RP1-50A13.1	546.9986773	2.822629575	106003.1241	0.018970038
RP1-47M23.3	0.359685791	0.169166061	0.764774374	0.007890051
RP1-39J2.1	19.738368	2.244440764	173.5858561	0.007171162
RP1-39G22.7	0.671823616	0.522831635	0.863274026	0.001875826
RP1-317E23.3	0.410393766	0.176653489	0.953409097	0.038368002
RP1-315G1.3	0.673043722	0.47035798	0.963070408	0.030327194
RP1-313I6.12	0.629587513	0.440217166	0.900420217	0.011258923
RP1-30M3.6	0.665063975	0.479719673	0.922017828	0.014401987
RP1-308E4.1	0.129280317	0.027740079	0.602500096	0.009182689
RP1-305G21.1	718.353452	3.299624675	156391.0241	0.016637579
RP1-302G2.5	0.645429859	0.438863827	0.949223146	0.026097817
RP1-301L19.1	0.000226991	8.63E-08	0.597261071	0.036776559

RP1-292L20.3	0.6398327	0.409968801	0.998578143	0.049272151
RP1-290I10.3	40.17651971	2.543753781	634.5554151	0.00871444
RP1-28O17.1	6.613411145	2.719492659	16.08285532	3.09E-05
RP1-283K11.3	1.945592812	1.399207362	2.705339817	7.59E-05
RP1-283K11.2	1.763989794	1.35045001	2.304165255	3.12E-05
RP1-27K12.4	1.206485398	1.026445873	1.418104016	0.022814522
RP1-269M15.3	1.512102655	1.016016452	2.250410844	0.041521041
RP1-267D11.6	0.689922525	0.483838089	0.983785902	0.040339105
RP1-257A7.4	0.417570464	0.208375611	0.836782632	0.01380112
RP1-253P7.4	0.439525782	0.238313723	0.810624377	0.008482816
RP1-251I12.1	296002173.3	1969.433931	4.45E+13	0.001340421
RP1-240B8.3	0.42600198	0.225791804	0.803739036	0.008426206
RP1-232P20.1	0.620342059	0.421377127	0.913253819	0.015527758
RP1-225E12.2	0.005154528	4.91E-05	0.540726694	0.0264902
RP1-224A6.3	0.349369186	0.143955549	0.847892486	0.020087227
RP1-223B1.1	0.635581262	0.411175965	0.98245903	0.041389771
RP1-20C7.6	0.650099519	0.46395081	0.910935764	0.012351778
RP1-207H1.3	0.091755454	0.008532419	0.986714743	0.048723886
RP1-200G19.1	3.448535062	1.123662863	10.58359626	0.030483339
RP1-18D14.7	0.029990569	0.001670682	0.538363518	0.017300701
RP1-186E20.1	0.754227833	0.584260751	0.973639976	0.030386937
RP1-182D15.2	2.202053121	1.005244646	4.823739144	0.048491183
RP1-179N16.3	0.554555656	0.312214448	0.985002386	0.044270615
RP1-170O19.24	6.641559535	1.216974683	36.24587567	0.028759782
RP1-170O19.23	481.0094946	4.418593546	52362.84612	0.009854763
RP1-170O19.14	1.958999666	1.064441375	3.605346223	0.030724315
RP1-163G9.2	0.696144895	0.528951665	0.916185253	0.00974861
RP1-161C16.1	1.618459996	1.050140744	2.494344472	0.029135513
RP1-159A19.4	0.701460045	0.504669643	0.974986709	0.034793565
RP1-153P14.8	0.282492764	0.088506449	0.901653642	0.032777761
RP1-153P14.7	0.013153652	0.000386335	0.447845498	0.016116384
RP1-153P14.5	0.017092904	0.000630516	0.463378542	0.015656036
RP1-153P14.3	0.000593552	2.06E-06	0.171407436	0.010167018
RP1-153G14.4	0.137071058	0.027417178	0.685281136	0.015510646
RP1-151F17.2	0.676109362	0.48704251	0.938570783	0.019346366
RP1-151F17.1	0.61256081	0.443826572	0.845444528	0.002871014
RP1-13D10.5	14759631582	84566.51845	2.58E+15	0.000143377
RP1-13D10.2	0.670953875	0.45708236	0.984897123	0.041582823
RP1-136J15.5	8.95E-10	1.70E-18	0.472339723	0.04203637
RP1-130G2.1	0.329978	0.137478301	0.792019391	0.013067666
RP1-127H14.3	0.714223007	0.541255815	0.942464707	0.01736967
RP1-127D3.4	0.135606782	0.031698208	0.580133713	0.007056038
RP1-124C6.1	1.677233054	1.049540722	2.680325458	0.030608896
RP1-104O17.3	119.7330464	1.487870677	9635.247622	0.032561599
RP1-101A2.1	0.618119414	0.400256489	0.954566935	0.030031815
RP1-100J12.1	0.354847512	0.130732973	0.963159894	0.041987795
ROS1	0.89526499	0.808635469	0.991175175	0.03311626
RORA	0.620457045	0.43999247	0.874939849	0.006492207
ROM1	0.608727269	0.437150265	0.847646489	0.003298727

ROGDI	0.691881052	0.535376147	0.894136567	0.004875099
ROBO2	0.589084634	0.401852716	0.863551973	0.006693815
RNY4P37	0.43056211	0.194538631	0.952940453	0.037628178
RNY4P25	0.53439093	0.321304757	0.88879377	0.015772073
RNY1P9	0.666414863	0.450866608	0.985011446	0.041778881
RNY1P14	0.1013528	0.014855522	0.691486324	0.019464762
RNY1P10	0.088888872	0.009789057	0.807149411	0.0315311
RNVU1-15	0.656256216	0.445870345	0.965913579	0.032693892
RNU7-99P	18.79924648	4.520045362	78.18763751	5.47E-05
RNU7-57P	152167642.7	22612.60032	1.02E+12	2.80E-05
RNU7-49P	0.806189866	0.656169216	0.990509895	0.0402931
RNU7-41P	0.624108699	0.395571448	0.984680948	0.04273217
RNU7-14P	38.73861209	1.702991991	881.2020692	0.021794546
RNU7-123P	0.629291109	0.457325381	0.865920231	0.004456067
RNU6ATAC4P	0.231258036	0.078922544	0.677629949	0.007597926
RNU6ATAC38P	0.678961982	0.478703573	0.962995471	0.029898765
RNU6ATAC24P	0.583253904	0.397341819	0.856152312	0.00590479
RNU6ATAC12P	0.027674577	0.000907279	0.844152877	0.039674722
RNU6-992P	34.29839174	1.692128648	695.2069971	0.021303487
RNU6-984P	642.5217465	4.348790032	94930.81791	0.011191176
RNU6-968P	0.429255833	0.190637261	0.966550655	0.041140044
RNU6-955P	0.277667554	0.100700107	0.765632465	0.013285972
RNU6-934P	5.663708135	1.053807886	30.43969423	0.043274861
RNU6-926P	22.61188943	1.844142015	277.2549725	0.014746837
RNU6-909P	1.678897473	1.210983079	2.32761033	0.001881009
RNU6-892P	0.53762315	0.320047012	0.903113109	0.019025046
RNU6-884P	0.413514894	0.185913446	0.919753634	0.030383704
RNU6-877P	0.218787124	0.062725479	0.763131767	0.017123186
RNU6-858P	0.327040916	0.120470765	0.887815075	0.028271927
RNU6-856P	0.659278169	0.461919858	0.940959122	0.021719549
RNU6-826P	7.105848665	1.657037511	30.47190237	0.008294168
RNU6-8	0.783237074	0.633733342	0.968010159	0.02377033
RNU6-795P	0.383910518	0.169435339	0.869873348	0.021789572
RNU6-793P	291.1288278	1.63009374	51994.55239	0.031979433
RNU6-737P	40.8184402	2.218893636	750.890008	0.012546839
RNU6-684P	388.5305673	2.596648041	58134.94911	0.019626996
RNU6-646P	0.246106258	0.093318449	0.649049475	0.004602949
RNU6-627P	9516.020309	5.748052032	15753970.57	0.015417289
RNU6-606P	0.338537502	0.122610258	0.934731259	0.036598131
RNU6-5P	0.490096549	0.295235195	0.813570439	0.005818551
RNU6-584P	0.613786505	0.419951615	0.897088762	0.011707835
RNU6-561P	19808.96499	61.21135973	6410494.652	0.000793028
RNU6-546P	364.7337454	1.625486436	81840.55064	0.03269119
RNU6-50P	0.66665579	0.465581446	0.954569702	0.026841776
RNU6-491P	11172.32617	29.32747905	4256106.427	0.002110381
RNU6-469P	0.304398707	0.113565597	0.815903542	0.018058523
RNU6-445P	37.75944183	1.590292457	896.5492108	0.02463744
RNU6-439P	227.8447134	1.555886201	33365.68794	0.03286673
RNU6-435P	8.808677298	1.880835996	41.25441873	0.005747345

RNU6-405P	11.42611928	2.113567481	61.77053864	0.004667012
RNU6-38P	58026.16941	25.95188346	129741501.9	0.00531201
RNU6-360P	25.54345743	1.633625682	399.3988491	0.020898179
RNU6-328P	17.12303308	2.618803153	111.9588777	0.003028254
RNU6-312P	0.780467735	0.618136924	0.985428733	0.03722023
RNU6-27P	12.88043249	1.031740407	160.8016319	0.047230888
RNU6-268P	0.229567479	0.064571726	0.816165695	0.02297484
RNU6-256P	2.69E+12	4114370.199	1.75E+18	2.80E-05
RNU6-255P	20.31486332	1.820886	226.6444312	0.014406632
RNU6-254P	0.237871136	0.056683172	0.998227071	0.049717222
RNU6-247P	0.741518176	0.598738424	0.91834628	0.006133342
RNU6-242P	0.407119393	0.172362671	0.961613086	0.040440263
RNU6-228P	2.761477592	1.205389808	6.326383743	0.016322078
RNU6-227P	0.042534591	0.002161254	0.837102472	0.037808531
RNU6-18P	6.186087756	1.033960177	37.01078878	0.045873694
RNU6-1335P	2149096.06	104.1128852	44361597202	0.00402227
RNU6-1319P	17.11634085	1.182454547	247.7635396	0.03726253
RNU6-1299P	29.82152204	3.750710395	237.1079298	0.001328945
RNU6-127P	514850.8747	159.237196	1664632573	0.001424204
RNU6-1279P	3.649088401	1.082947037	12.2959348	0.036749983
RNU6-1262P	0.681528087	0.48318657	0.9612861	0.028891409
RNU6-1191P	1.507441024	1.070346623	2.123030419	0.018820165
RNU6-1176P	0.268071247	0.083788444	0.857662347	0.026504611
RNU6-116P	10.37574853	1.195892743	90.02158275	0.033817055
RNU6-1117P	3078.680852	3.78815945	2502079.417	0.018795634
RNU6-1095P	0.666387868	0.488366431	0.909302445	0.010481394
RNU6-1066P	21.01779145	1.197467474	368.9015086	0.037229436
RNU6-1037P	34718.58453	10.60289789	113684025.2	0.011350512
RNU6-1025P	0.355646168	0.127392981	0.992866291	0.048423655
RNU4ATAC	0.746385378	0.586477863	0.949892857	0.017414149
RNU4-72P	16.25840774	3.057068947	86.46707899	0.001073422
RNU4-68P	0.070004702	0.008556246	0.572758006	0.013152128
RNU4-34P	0.119144475	0.01782027	0.796587613	0.028195217
RNU2-68P	0.268447678	0.084690319	0.850913737	0.025466965
RNU1-61P	0.581206598	0.366151974	0.922570773	0.021345498
RNU1-57P	3676.740118	2.91726456	4633936.216	0.024202642
RNU1-32P	1672.459459	2.480229807	1127766.723	0.025530108
RNPC3	0.722089996	0.549284257	0.949260707	0.019644129
RNMTL1P2	8.52E+28	1.30E+13	5.60E+44	0.000337445
RNF4	1.530577625	1.034004608	2.265626137	0.033414328
RNF26	1.30881596	1.006593793	1.701778044	0.044534414
RNF185	0.649965773	0.424436729	0.995332111	0.047537176
RNF180	0.65003131	0.49017293	0.862023745	0.002781362
RNF175	0.558997225	0.357127026	0.874976897	0.01095285
RNF166	0.676811407	0.511471077	0.89560036	0.006304737
RNF146	0.64548004	0.459448663	0.906835769	0.011610671
RNF144B	0.811752017	0.672082827	0.980446621	0.03039173
RNF138P1	0.264996016	0.079437605	0.884000579	0.030729848
RNF130	0.620321529	0.463190729	0.830756697	0.001354817

RNF125	0.705816095	0.510478218	0.975901306	0.035072033
RNF113A	0.683560779	0.482689552	0.968024553	0.032111096
RNF10P1	135.6744543	2.099361607	8768.169082	0.020962567
RNF103-CHMP3	2.674483545	1.170296331	6.11200945	0.01965424
RND3	1.2203881	1.063527699	1.400383944	0.004548109
RNASE1	0.850188854	0.773462434	0.93452643	0.000770455
RNA5SP86	1222.613026	1.880502569	794884.6418	0.031471154
RNA5SP77	172.1263585	1.022646107	28971.39398	0.049007481
RNA5SP63	24.04414261	1.434200541	403.096204	0.027059522
RNA5SP520	13633.94257	14.64641089	12691463.55	0.006342246
RNA5SP516	442.7277816	2.213530514	88549.8923	0.024202642
RNA5SP494	0.577918732	0.38155103	0.875348341	0.009641141
RNA5SP487	1183.241873	3.441275721	406843.6954	0.017562591
RNA5SP472	1797036.361	194.2041492	16628582330	0.001996738
RNA5SP47	0.115551645	0.019141456	0.697553153	0.018641894
RNA5SP467	4.571983724	1.260994944	16.57662093	0.020731561
RNA5SP443	11.15751267	1.364646104	91.22518188	0.024451532
RNA5SP373	104.0841434	1.852897302	5846.794045	0.023819264
RNA5SP364	0.536285317	0.297977703	0.965179405	0.037693681
RNA5SP330	0.195877333	0.04355045	0.880999604	0.033576583
RNA5SP329	17.64721871	1.826209706	170.5304309	0.013125936
RNA5SP323	1.5760271	1.028444832	2.415162527	0.036730416
RNA5SP317	0.645687833	0.459713075	0.906897803	0.011609812
RNA5SP270	815646.2756	7.510208931	88583267535	0.021404652
RNA5SP226	27.63359547	5.486952413	139.1693496	5.73E-05
RNA5SP220	2065761757	18835.39959	2.27E+14	0.000291895
RNA5SP177	130814891.9	16394.24824	1.04E+12	4.56E-05
RNA5SP154	0.301628365	0.125015351	0.727747991	0.007649315
RNA5SP133	1518.163328	5.891829959	391189.1395	0.009706807
RN7SL42P	0.036813081	0.002100085	0.64530876	0.023837507
RN7SL403P	0.449200626	0.234550349	0.8602895	0.015784097
RN7SL400P	3.09E+25	4.99E+11	1.91E+39	0.000291895
RN7SL338P	0.152396758	0.039118626	0.593701118	0.006699748
RN7SL269P	0.060488638	0.004859957	0.752861745	0.029211113
RN7SL268P	0.732558772	0.54139682	0.991218151	0.043681383
RN7SL208P	2.213559328	1.193856121	4.10421726	0.011654226
RN7SL201P	124223.6246	24.93450713	618881649.8	0.00692568
RN7SL172P	0.435237122	0.200400216	0.945265213	0.035534491
RN7SL145P	0.470244163	0.290387361	0.761498615	0.002156286
RN7SKP82	13018902.54	7.32489404	2.31E+13	0.025669834
RN7SKP75	0.02134042	0.000671114	0.678592941	0.029284306
RN7SKP51	0.753862533	0.595374652	0.954539661	0.018959384
RN7SKP43	182.6875138	4.067840223	8204.532597	0.007301434
RN7SKP293	19.02748338	1.158437403	312.5288624	0.03911679
RN7SKP285	0.03865057	0.001855198	0.805232841	0.0357478
RN7SKP273	0.082751383	0.008121588	0.843159167	0.035377847
RN7SKP261	14.44554339	1.313454142	158.874008	0.029047316
RN7SKP259	4.266376809	1.401318577	12.98917418	0.01065076
RN7SKP223	15.31937433	2.28594551	102.6635276	0.00492669

RN7SKP218	3536811.992	27.17009966	4.60E+11	0.012089192
RN7SKP212	23227205100	132760.5549	4.06E+15	0.000106572
RN7SKP196	1.47E+12	49.49648816	4.37E+22	0.022780858
RN7SKP161	0.048258602	0.004538172	0.513178547	0.011968795
RN7SKP142	6999.234623	9.440566615	5189231.463	0.008644765
RN7SKP129	6.16E+20	167060554	2.27E+33	0.001185106
RN7SKP104	3483810.326	128.6696282	94326334498	0.003819263
RMST_5	27.76703532	1.892823027	407.332455	0.015283151
RMDN2	0.628326026	0.47802669	0.825881908	0.000864019
RIPK3	0.754992701	0.596707696	0.955265002	0.019221169
RIPK2	1.442090592	1.177269517	1.766481886	0.000405551
RIN1	1.341215048	1.070393121	1.680558078	0.010738656
RIMS2	1.410618466	1.034305484	1.923845991	0.029779042
RIMKLA	0.755851685	0.61328398	0.931561542	0.008671731
RILPL2	0.674597421	0.512571265	0.887840796	0.00497222
RILP	0.778012365	0.619133428	0.977662022	0.031255276
RIAD1	0.674884523	0.472723033	0.963501009	0.030414473
RIC3	0.600685474	0.412277833	0.875193887	0.00795029
RIBC1	0.749738759	0.569558388	0.986919372	0.039989904
RHPN2	1.303731723	1.123147891	1.513350484	0.000489119
RHOV	1.2476257	1.148070188	1.355814221	1.84E-07
RHOT1P1	1.4238211	1.004641413	2.017900613	0.047034328
RHOQP2	0.293817846	0.133759783	0.645402712	0.002283911
RHOQ	0.599506298	0.436963835	0.822511551	0.001519725
RHOH	0.742242139	0.592176893	0.93033585	0.00969406
RHOF	1.657767547	1.319881477	2.082151534	1.38E-05
RHOD	1.274962403	1.08079577	1.504011371	0.003955658
RHOC	1.343790455	1.091543888	1.654329072	0.005340609
RHOBTB2	0.844631576	0.74087837	0.962914466	0.011566694
RHOA-IT1	0.574435597	0.336566226	0.980419987	0.042106933
RHNO1	1.49608479	1.10707892	2.02177971	0.008739792
RHCG	1.279992206	1.140345921	1.436739517	2.81E-05
RHBDD2	0.692243897	0.525825118	0.911332678	0.008747376
RGS3	0.710305303	0.52914077	0.95349603	0.022789204
RGS22	0.619573519	0.408005675	0.940848055	0.024701788
RGS20	1.606566952	1.325284724	1.947549328	1.38E-06
RGS18	0.756041614	0.573145732	0.997301194	0.04780602
RGS13	0.273415864	0.122052807	0.612490906	0.001625761
RGS12	0.712085923	0.517863457	0.979150692	0.036651342
RGS11	0.727353897	0.547497778	0.966293769	0.028052939
RGPD8	0.230999977	0.059177183	0.901715607	0.034957207
RGN	0.72605556	0.595278035	0.885563796	0.001581206
RGL4	0.360204458	0.174439425	0.743795453	0.005779485
RGL2	0.730287967	0.580123184	0.919322877	0.007447031
RGL1	0.774430114	0.653153715	0.918224897	0.00326379
RGCC	0.843342125	0.720106235	0.987668077	0.034522451
RGAG4	0.674814806	0.543463341	0.837913045	0.000369341
RFXAP	0.483801099	0.325513854	0.719058499	0.000329118
RFX5	0.668463466	0.496096329	0.900719032	0.008116471

RFX3	0.653745533	0.461393991	0.926286927	0.016818907
RFTN1	0.804969971	0.689369592	0.939955377	0.006091113
RFESDP1	27.53818099	4.441442583	170.7443917	0.000368656
RFC4	1.220621419	1.031758332	1.444055843	0.020098611
RFC3	1.249566858	1.015538771	1.537526068	0.035230908
REXO4	1.489334531	1.019777054	2.175100268	0.039273561
REV3L	0.663795469	0.487920591	0.903065853	0.009076384
REV1	0.602023755	0.432553044	0.837891691	0.002625035
REREP1Y	7.22E+13	417912.973	1.25E+22	0.000975953
RENBP	0.816616961	0.695982133	0.958161465	0.012991193
REM1	0.653435254	0.448444206	0.952131002	0.02673623
RELB	1.28748707	1.035422778	1.600914129	0.02302039
RELA	1.744967578	1.128680147	2.697763272	0.01226212
REG3G	2.951095476	1.334924106	6.523939804	0.00750265
RDX	1.337947122	1.091602419	1.639885063	0.005044846
RDH16	1.64250966	1.052900864	2.562290597	0.028729915
RCVRN	0.002427789	2.99E-05	0.196827341	0.007257935
RCSD1	0.749234871	0.61141246	0.918124717	0.005376353
RCOR3	0.704941568	0.50793502	0.978358637	0.036546269
RCOR1	1.450388374	1.088421484	1.93273145	0.011136718
RCN1	1.41179792	1.109692514	1.796149241	0.004997389
RCCD1	1.531402413	1.169368611	2.00552104	0.001955329
RCBTB2	0.608814655	0.46330946	0.800016655	0.000369241
RCBTB1	0.640201436	0.470680831	0.870776652	0.004488494
RCAN2	0.792957598	0.680517732	0.923975559	0.002945001
RBSN	0.633232305	0.453963248	0.883294306	0.007128883
RBPMS-AS1	0.756065809	0.615656741	0.928497114	0.007636208
RBPMS	0.818425402	0.690447145	0.970125149	0.020912592
RBP5	0.736180305	0.595254588	0.910469994	0.004726285
RBM3AP	468847.2339	34.93931522	6291414909	0.007085986
RBM2QP	2010.929167	25.66269832	157576.4194	0.00063019
RBM2FP	9.050324456	3.18872465	25.6868754	3.49E-05
RBM2AP	953198639.9	18.15265502	5.01E+16	0.022632887
RBM1F	10060.47099	43.59262563	2321793.538	0.00090134
RBM1E	7962.382441	14.97365257	4234072.738	0.005030098
RBM1A3P	243.0754158	3.724680988	15863.2801	0.009972418
RBMXP1	5.336455653	2.635935593	10.80366266	3.27E-06
RBMS3	0.761782687	0.597923756	0.970546591	0.027672842
RBM6	0.778987563	0.628249221	0.965893156	0.02283247
RBM5-AS1	0.390849831	0.154971782	0.985751006	0.046550146
RBM5	0.697028992	0.536785776	0.905108588	0.006768907
RBM42	1.35963868	1.075161502	1.719385726	0.010316407
RBM39	0.730373764	0.536674252	0.993984401	0.045679877
RBM27	1.628797639	1.039761774	2.551528449	0.033152961
RBM22P1	5.44E+16	7799896.693	3.79E+26	0.000861413
RBL2	0.728048419	0.573071745	0.924935672	0.009351784
RBCK1	1.353675353	1.028332308	1.781950199	0.030837134
RBBP7	1.586313536	1.150410142	2.18738565	0.00488202
RASSF5	0.759762445	0.620872016	0.929722969	0.007643828

RASSF4	0.803350588	0.666341207	0.968531077	0.021726655
RASSF2	0.788485363	0.664620078	0.93543543	0.006422079
RASSF10	0.809529819	0.693350735	0.945176077	0.007510562
RASSF1-AS1	0.42141432	0.212942006	0.833983078	0.013092895
RASL11A	0.837667392	0.717587058	0.977841855	0.024845064
RASL10A	0.510691343	0.269592152	0.967408162	0.039244001
RASGRP4	0.616617998	0.419525108	0.906305124	0.01386932
RASGRP2	0.655902627	0.501605446	0.85766265	0.002055809
RASGRF1	0.816463495	0.685342347	0.97267102	0.023196045
RASGEF1B	0.733551219	0.552168918	0.974515901	0.03250948
RASAL3	0.782964891	0.644663414	0.950936578	0.013614386
RARS	1.443401428	1.055421153	1.974005994	0.021581101
RARRES2P3	8.28E+22	9.49E+15	7.23E+29	9.69E-11
RARG	1.250021131	1.014725029	1.539878078	0.035962926
RAPGEF5	0.81719961	0.672158634	0.993538087	0.042867946
RAPGEF4	0.649358734	0.430668637	0.979097915	0.039323611
RAPGEF3	0.711178345	0.525206944	0.963000669	0.027543353
RAP2C-AS1	0.510234365	0.270074812	0.963951822	0.038165289
RAP1GAP	0.868324146	0.782051197	0.964114402	0.008182483
RAP1BP2	15.76413159	4.145618321	59.94469958	5.20E-05
RAP1AP	0.561479431	0.367134076	0.858703052	0.007751138
RANP4	0.618131636	0.386366511	0.988922976	0.044811155
RANGAP1	1.485760563	1.141621892	1.933638856	0.003227052
RANBP1	1.318835472	1.059839651	1.641122788	0.01310252
RAN	1.35502168	1.077894801	1.703397911	0.009254734
RALGPS2	1.284763307	1.018645615	1.620403337	0.03434768
RALGPS1	0.608568825	0.437574191	0.846384505	0.003168124
RALGDS	0.717446354	0.552626848	0.931422845	0.012651979
RALB	1.271023283	1.010935894	1.598024362	0.040065206
RAI2	0.777837489	0.644138942	0.939286729	0.009031445
RAET1L	1.456163922	1.112693444	1.905658185	0.006182577
RAET1G	1.405549238	1.123045341	1.759117453	0.002943355
RAET1E	1.636812755	1.27326771	2.104157651	0.00012046
RAD51AP1	1.20215542	1.029025882	1.404413319	0.020308611
RAD51-AS1	0.775758773	0.619512568	0.971411567	0.026916394
RAD51	1.400749598	1.157339712	1.695353071	0.000539485
RAD23B	1.796725139	1.314503607	2.455848131	0.000237819
RAD23A	1.49729313	1.060190207	2.114608022	0.02191663
RAD21L1	25.08005758	5.282173505	119.0815273	5.03E-05
RACGAP1	1.2839374	1.09504127	1.505418371	0.002082826
RAC1P2	1.436413707	1.162623065	1.774680377	0.000789381
RAC1	1.571196284	1.17604232	2.099123238	0.002234985
RAB9B	0.492431215	0.271725803	0.892401452	0.019531228
RAB6C-AS1	2.698251133	1.113133038	6.540601105	0.028005244
RAB44	0.130918093	0.038431604	0.445975321	0.001149199
RAB40B	0.678381235	0.529470337	0.869172583	0.002148966
RAB3B	1.221080454	1.022597416	1.458088444	0.027323771
RAB39B	0.649928395	0.451026707	0.936545245	0.020795953
RAB35	1.719246905	1.178044891	2.509080888	0.00496177

RAB30-AS1	0.763315781	0.585565717	0.99502236	0.045840612
RAB30	0.642338293	0.454472011	0.907863352	0.012157164
RAB29	0.733798435	0.578196126	0.931275944	0.010911733
RAB27B	1.206541758	1.057428529	1.376682181	0.005277269
RAB21	1.427868921	1.046341266	1.948513092	0.024732527
RAB20	0.788117071	0.630085928	0.985783829	0.037036349
RAB17	0.820740017	0.679984026	0.990632353	0.039588818
RAB11FIP4	0.690727792	0.514877969	0.926636818	0.013578301
RAB11FIP3	0.793643783	0.634327013	0.992974351	0.04321408
RAB11FIP1P1	0.675833357	0.5034216	0.907292669	0.009122966
RAB11A	1.416798868	1.024155949	1.959974001	0.035368281
RAB10	1.510303835	1.152627265	1.978972513	0.002789224
R3HDM1	1.598733616	1.164350702	2.195171242	0.003724183
PZP	0.563421562	0.356714262	0.889910752	0.013890683
PYHIN1	0.70057548	0.515428482	0.952229108	0.023052187
PYGL	1.230227326	1.052555746	1.437889898	0.00922522
PYGB	1.244839693	1.040915971	1.488713695	0.01642722
PYCARD-AS1	4.431979087	1.332955724	14.73600231	0.015148555
PXN	1.56496454	1.209847395	2.024316474	0.000648079
PXMP4	0.750500724	0.645181014	0.873012884	0.000199023
PXK	0.560721912	0.40379033	0.778644358	0.000553281
PWP1	1.468080363	1.014750263	2.123931405	0.041582678
PWAR6	0.712383682	0.516948309	0.981704557	0.038188882
PVRL2	1.344052387	1.066917405	1.693174009	0.012081719
PVR	1.429930251	1.167020472	1.752069114	0.00056068
PUS10	0.567606363	0.365056203	0.882540771	0.01190951
PTX3	1.204691412	1.001941768	1.448468806	0.047636619
PTTG1IP	1.387302982	1.06666427	1.804325521	0.014637345
PTTG1	1.300257563	1.122952342	1.505557864	0.000447615
PTPRR	1.325113794	1.088092812	1.613765432	0.005116263
PTPRO	0.696900665	0.516521056	0.940272484	0.018130054
PTPRH	1.285293235	1.144360923	1.443581888	2.28E-05
PTPRE	0.778534949	0.643519216	0.941878115	0.009990509
PTPRC	0.828289906	0.723899366	0.947734174	0.006125354
PTPN7	0.806825682	0.662661847	0.98235274	0.032577933
PTPN6	0.644096667	0.477389687	0.869018598	0.003993816
PTPN2P2	0.037092817	0.001884925	0.729937159	0.030231799
PTPN18	0.729497668	0.539078456	0.987178845	0.040995693
PTPLAD2	0.721847875	0.552426345	0.943228647	0.016930702
PTPLA	1.254561664	1.049061868	1.500316632	0.012965039
PTP4A1P4	63.72327716	1.577174615	2574.639494	0.027708159
PTMAP4	1.405318163	1.013679415	1.948267973	0.041203132
PTK7	0.782969631	0.662006625	0.926035209	0.004271005
PTK2B	0.790313446	0.639468535	0.976741323	0.029424904
PTH1R	0.732191446	0.54505904	0.983571109	0.038455323
PTGR1	1.147891657	1.011540164	1.302622776	0.032532385
PTGFRN	1.311929691	1.071999292	1.605560308	0.008422598
PTGES3P3	1.291928603	1.004915905	1.660914617	0.045692708
PTGES3P1	1.375211981	1.080333224	1.750578388	0.009667869

PTGES3	1.561016495	1.20705963	2.018767288	0.000688032
PTGDS	0.844159954	0.760570386	0.936936332	0.00145074
PTGDR2	0.307964502	0.128584732	0.73758473	0.008217463
PTGDR	0.4486748	0.215207618	0.935417985	0.032511381
PTER	1.365774757	1.058083255	1.762943207	0.016689904
PTDSS1	1.440405528	1.07195386	1.935501295	0.015481485
PTCSC3	0.799709404	0.696086219	0.918758502	0.001595863
PTCRA	0.611606805	0.390128693	0.958819206	0.032090512
PTCHD4	0.615790985	0.429229361	0.883440351	0.008464008
PTCH2	0.40151137	0.207007004	0.778772588	0.006940226
PTCH1	0.640335598	0.449291022	0.912614894	0.013671516
PTBP1	1.943581584	1.310603814	2.882266427	0.000948538
PSTPIP2	0.705685215	0.558230798	0.892089122	0.003559345
PSTPIP1	0.745607296	0.589258229	0.943440775	0.014490901
PSPH	1.205213305	1.018770661	1.425776347	0.029492226
PSME3	1.531294299	1.124645269	2.084979411	0.00681179
PSMD8P1	0.21449776	0.04850671	0.9485139	0.042391692
PSMD6-AS2	0.526383134	0.283651835	0.976828525	0.041923135
PSMD5-AS1	0.699980218	0.535327237	0.915276249	0.009134315
PSMD2	1.645442474	1.284403263	2.107967968	8.14E-05
PSMD14	1.344643708	1.028188451	1.758497384	0.030540257
PSMD12	1.748874326	1.227383185	2.491936867	0.001974444
PSMD11	1.619519454	1.23451743	2.124589898	0.000499262
PSMD10P2	1.512647158	1.228949372	1.861835382	9.41E-05
PSMD10P1	0.388135045	0.210893907	0.714334595	0.002359102
PSMD1	1.42760195	1.111511565	1.833581756	0.005305274
PSMC6	1.393761162	1.057082475	1.837671349	0.018598891
PSMC5	1.724787264	1.181453511	2.517992523	0.004746752
PSMC4	1.42585832	1.097662239	1.852183557	0.007857508
PSMC1P4	577.9228422	1.331203616	250896.8632	0.040141735
PSMC1	1.460578658	1.101764605	1.936248458	0.008445412
PSMB7	1.655386498	1.209952673	2.264803012	0.001623605
PSMB6	1.361219884	1.038741282	1.783812395	0.025384425
PSMB5	1.377838443	1.074215285	1.767279615	0.011614504
PSMB2	1.415320721	1.035627952	1.934220431	0.029284411
PSMA6P4	0.001393891	3.32E-06	0.585067844	0.032849807
PSMA5	1.374529693	1.0441463	1.809451298	0.023332115
PSMA4	1.472722154	1.113145169	1.948452548	0.006718528
PSMA3-AS1	0.7856489	0.619134055	0.996947574	0.047131156
PSMA2	1.440893245	1.039727941	1.996842886	0.028237287
PSEN1	1.574897514	1.035498553	2.39527344	0.033752401
PSCA	1.076880938	1.008208728	1.150230625	0.027585539
PSAT1P1	18348.30966	19.8574657	16953848.62	0.004836288
PRYP5	181498.3463	6.3724318	5169400119	0.020675951
PRUNEP1	4325116.493	79.03131103	2.37E+11	0.00605124
PRTN3	1.581196958	1.037477785	2.409867331	0.033081459
PRSS38	3.144558862	1.330758009	7.430539863	0.009021188
PRSS3	1.191261418	1.07733207	1.317238952	0.000644243
PRRT3	0.685764014	0.532525013	0.883098955	0.003462213

PRRG1	1.413132455	1.093439316	1.826295529	0.008227522
PRR33	0.640858546	0.437032909	0.939745422	0.022717213
PRR15	1.132400412	1.034048352	1.240107091	0.007313584
PRR11	1.323922873	1.138220307	1.539923127	0.000273767
PRPF4	1.427436442	1.050980831	1.938736402	0.022709412
pRNA	1.745793393	1.018692044	2.991870399	0.042627126
PRLR	1.210056918	1.004629139	1.457490817	0.044577671
PRKRIRP6	3.53E-25	6.77E-49	0.184570055	0.043320582
PRKG1-AS1	3.906361647	1.845326616	8.269355237	0.000369282
PRKDC	1.230483339	1.023586847	1.479199594	0.027232677
PRKCZ	0.757770661	0.624098172	0.920073796	0.00509077
PRKCH	0.696967053	0.515927508	0.941533579	0.018645229
PRKCE	0.556277152	0.386567894	0.800491385	0.001586854
PRKCDBP	1.198716261	1.018281387	1.411123381	0.029434346
PRKCD	0.597524812	0.471599404	0.757074537	2.00E-05
PRKCB	0.713159816	0.5642391	0.901385463	0.004673366
PRKCA	1.190955124	1.003036281	1.414080562	0.04609024
PRKAR2A-AS1	0.546374377	0.307871079	0.969642751	0.038894996
PRKAG2-AS1	0.735388866	0.596562218	0.906522015	0.00398492
PRKAG2	0.63527906	0.439321987	0.91864167	0.015913052
PRINS	0.64268599	0.455497024	0.906801275	0.011838035
PRIM1	1.238160364	1.025129953	1.49546024	0.02658156
PRICKLE4	0.819677144	0.678598374	0.99008581	0.039079006
PRICKLE2-AS1	0.000243917	8.86E-08	0.671536124	0.039542414
PRICKLE2	0.665761346	0.495156653	0.895147359	0.007075584
PRG4	0.844044621	0.722625947	0.985864575	0.032385712
PREX2	0.677242727	0.477109876	0.961325124	0.029208564
PREPL	0.725426978	0.538443268	0.977344007	0.034802565
PRELP	0.867175138	0.768919276	0.977986563	0.020192274
PRDM2	0.608401825	0.445954276	0.830024064	0.001715643
PRDM16	0.738962821	0.615706429	0.886893534	0.001157328
PRDM13	1.84214889	1.019835806	3.327508716	0.042860125
PRCD	0.190925213	0.048997779	0.743961001	0.017024665
PRC1	1.383039781	1.188043079	1.610041814	2.89E-05
PRAMEF2	134.8974313	1.589420275	11449.02783	0.030429224
PRAMEF14	7.187761143	1.690170083	30.56728478	0.007572132
PRAM1	0.724237537	0.569138998	0.921602651	0.008692025
PRAC1	1.444927871	1.056056772	1.976992722	0.021395327
PPTC7	1.540506361	1.157138248	2.050887051	0.003080404
PPT2	1.45286832	1.151403005	1.833264587	0.001643188
PPP6R1	1.407780808	1.054370804	1.879648788	0.020398405
PPP4R4	0.633725059	0.406715327	0.98744115	0.043819148
PPP4R1L	0.661947249	0.488664694	0.896676525	0.007716283
PPP3CC	0.611672708	0.433243602	0.863586906	0.005215714
PPP2R5A	0.768623015	0.597505305	0.988746601	0.040555901
PPP2R2C	1.230201432	1.078506873	1.403232192	0.002031669
PPP2R1A	1.789921107	1.209023841	2.649920918	0.00363578
PPP2CA	1.743006107	1.172759253	2.590531926	0.005992416
PPP1R9A	0.738732658	0.564610146	0.966553548	0.027243507

PPP1R3G	1.741461004	1.344646155	2.255378798	2.62E-05
PPP1R3E	0.709138124	0.529778849	0.949220376	0.020873939
PPP1R32	0.720931169	0.549680428	0.945534393	0.018044549
PPP1R21	0.628223973	0.441356483	0.894209954	0.00985956
PPP1R1C	1.372839791	1.070507613	1.76055646	0.012531825
PPP1R16B	0.797299169	0.661318333	0.9612405	0.017582256
PPP1R15B	1.378208852	1.005248362	1.889542637	0.046318671
PPP1R14B	1.292958511	1.052332696	1.588605693	0.014466499
PPP1R13L	1.322017383	1.10403727	1.58303529	0.002393022
PPP1R13B	0.657760508	0.536458519	0.806490849	5.63E-05
PPOX	0.667553546	0.511510916	0.871198881	0.002930044
PPM1M	0.605219646	0.477388428	0.767280476	3.35E-05
PPM1K	0.683609571	0.512515178	0.911820891	0.009651779
PPM1G	1.50853687	1.109054012	2.05191403	0.008807902
PPIL1P1	52.04418726	1.513068958	1790.13482	0.028568485
PPIF	1.27788804	1.008033641	1.619983478	0.042756785
PPIEL	0.674701777	0.486369323	0.935960528	0.018459141
PPID	1.571043303	1.119964901	2.20379858	0.008894485
PPIAP22	1.38310517	1.102917179	1.734472857	0.00498342
PPIAL4B	3.271927422	1.068803274	10.01635129	0.037845247
PPIA	1.456800245	1.127931036	1.881557371	0.00394961
PPFIBP2	0.673105467	0.520390689	0.870636197	0.002568747
PPFIBP1	1.408041617	1.098677071	1.804516767	0.006863024
PPAT	1.345615109	1.078325837	1.679158525	0.008603761
PP2672	2.11E-07	1.05E-11	0.004207044	0.002343879
POU6F1	0.5893922	0.405169031	0.857378375	0.005698154
POU2AF1	0.829288577	0.719285111	0.95611536	0.009936635
POSTN	1.134460443	1.018183997	1.26401564	0.022219972
POPDC3	1.234627023	1.089560099	1.399008542	0.000949997
POP1	1.36463197	1.005358966	1.852294033	0.046124889
POMT1	0.69792418	0.491663288	0.990714932	0.044203587
POM121L9P	0.430519643	0.194497327	0.952954808	0.037633159
POM121L14P	0.000155614	3.33E-08	0.726417004	0.041939996
POM121L13P	367887.8199	14.39115682	9404487051	0.013325793
POLR3KP1	6.561495014	2.327942323	18.49410803	0.000373414
POLR3G	1.512264976	1.165276791	1.962576939	0.001869982
POLR2J4	0.69288113	0.511415043	0.938737073	0.017884937
POLR2CP	0.023354364	0.000828765	0.658119624	0.027413988
POLQ	1.332298783	1.016379818	1.746414104	0.037744668
POLE2	1.252388863	1.029182609	1.524003467	0.024628154
POLD2	1.416466661	1.108337866	1.810258281	0.005405488
POLA2	1.416952471	1.079298588	1.860239907	0.012092049
POC1A	1.292417852	1.063173902	1.571091897	0.010027678
PNRC2	0.584935868	0.410600615	0.833291421	0.002977737
PNPLA7	0.713511437	0.556808068	0.91431608	0.007630953
PNPLA3	1.473565279	1.041245225	2.085382558	0.028663937
PNPLA1	2.065194102	1.175092091	3.629525473	0.011709402
PNP	1.236957372	1.005270682	1.522041344	0.044469038
PNMA2	0.806225273	0.706310515	0.920273984	0.001419106

PNLIPP1	216674.3308	4.459019708	10528719026	0.025649244
PNISR	0.781027854	0.617561077	0.987763853	0.039139298
PMS2P3	0.703940609	0.513885175	0.964286198	0.028781661
PMEPA1	1.268411512	1.100652636	1.4617398	0.001019958
PMAIP1	1.139919991	1.006914004	1.290495099	0.038563712
PLXND1	0.831321929	0.705394033	0.979730643	0.027503002
PLXNC1	0.820956651	0.674414763	0.999340258	0.04923598
PLXNA2	0.848708232	0.722179929	0.997404711	0.046424533
PLSCR1	1.296318502	1.075301437	1.562763334	0.00650458
PLS1	1.220711553	1.000948605	1.488724485	0.048915596
PLP2	1.273647133	1.058267659	1.532860808	0.010492969
PLOD2	1.200844484	1.070346461	1.347252994	0.001819781
PLOD1	1.389596915	1.092630909	1.767275271	0.007315206
PLK4	1.345290201	1.100099648	1.645128901	0.003861536
PLK1	1.404974984	1.215060666	1.624572961	4.46E-06
PLIN5	0.670934706	0.507951565	0.886213196	0.00494275
PLIN3	1.511021793	1.216180203	1.877342563	0.000193695
PLIN1	1.917822424	1.06904127	3.440505949	0.028972481
PLEKHS1	0.894773258	0.802648115	0.997472204	0.04489685
PLEKHM1	0.745653374	0.556218781	0.999604785	0.049691819
PLEKHH2	0.763961939	0.615457902	0.948298565	0.014633563
PLEKHH1	1.354550478	1.113143512	1.648311271	0.00244322
PLEKHG4	0.829657754	0.696796153	0.987852741	0.035974103
PLEKHG3	1.375189564	1.115900855	1.69472613	0.00280166
PLEKHF1	0.810760166	0.660227676	0.995614196	0.045294551
PLEKHD1	0.469725592	0.227587885	0.969481005	0.040973404
PLEKHB1	0.698615755	0.603945137	0.80812634	1.38E-06
PLEKHA8P1	1.859307937	1.311160548	2.636615333	0.000501183
PLEKHA6	1.183384481	1.016745321	1.377334914	0.029673572
PLEKHA3P1	0.223285631	0.085071556	0.586053379	0.002324556
PLEK2	1.413709071	1.222062577	1.635409983	3.19E-06
PLEK	0.866134522	0.758616665	0.98889076	0.033573342
PLEC	1.370326099	1.160817067	1.617648182	0.000198063
PLD4	0.661725665	0.498112712	0.879079866	0.004381271
PLD3	0.833593659	0.696066604	0.998292956	0.047868237
PLCL2	0.762464364	0.587617101	0.989337964	0.04128857
PLCG2	0.712342782	0.550185764	0.922292563	0.01005984
PLCG1-AS1	0.28434752	0.08665546	0.933045789	0.038054045
PLCG1	0.781432046	0.624166109	0.978322971	0.031467269
PLCD3	1.51561845	1.285506091	1.786922134	7.45E-07
PLCB3	1.339645834	1.016642251	1.765272848	0.037781649
PLCB2	0.808637791	0.67524432	0.968382936	0.020929398
PLAUR	1.224061901	1.064176343	1.407969222	0.004641323
PLAC9	0.808960243	0.664877863	0.984266001	0.034138361
PLA2G4F	0.791795252	0.67057427	0.934929582	0.005894686
PLA2G4B	0.346941516	0.127737664	0.942309506	0.037845529
PLA2G3	0.735870457	0.581953471	0.930495919	0.010417973
PLA2G1B	0.874904758	0.794501698	0.963444555	0.006585283
PLA2G15	0.753580283	0.572780031	0.991450838	0.043248138

PLA2G12B	0.875168473	0.778430646	0.983928189	0.025676698
PKP3	1.353822241	1.098163556	1.668999714	0.004555836
PKP2	1.377565091	1.218154486	1.557836548	3.31E-07
PKNOX2	0.666305459	0.459179461	0.966861549	0.032567646
PKMYT1	1.350321902	1.131128188	1.611991691	0.000889345
PKMP3	0.58476563	0.352918909	0.968921851	0.03729659
PKM	1.675783989	1.28511866	2.185208312	0.000137694
PKIB	1.199492816	1.065159657	1.35076747	0.002685444
PKD2L2	0.035108841	0.001325392	0.930011994	0.045138236
PKD1P6	0.63373827	0.414524923	0.968878281	0.035209659
pk	1.303705147	1.024923016	1.658316853	0.030733375
PIWIL4	1.56729776	1.036786715	2.369264799	0.03306334
PITX3	10.44718305	5.612774875	19.4455748	1.34E-13
PITX1	1.12658911	1.014217705	1.251410833	0.026195967
PITPNC1	1.174633827	1.002315116	1.37657769	0.046752776
PIR	1.149375493	1.007521302	1.311202077	0.038316224
PIP5KL1	0.792843777	0.662624111	0.948654364	0.011219855
PINLYP	0.572847266	0.379681048	0.864288569	0.00793094
Pinc	97.45182211	2.691345647	3528.665166	0.012398982
PIM2	0.834451973	0.722841824	0.963295249	0.013495509
PIK3R5	0.771271721	0.608192454	0.978078672	0.032125659
PIK3R3	0.813822074	0.668181561	0.99120719	0.040584504
PIK3R1	0.740850366	0.578366037	0.948982528	0.017573195
PIK3IP1	0.755408741	0.620750152	0.919278657	0.005107216
PIK3CG	0.671089877	0.528106144	0.852786184	0.001103982
PIK3CD-AS1	0.05192695	0.003604166	0.748136547	0.029769148
PIK3CD	0.768414865	0.630254624	0.936861679	0.009190376
PIGX	1.358735776	1.019392582	1.811042125	0.036530556
PIGR	0.936841376	0.887638642	0.988771469	0.017778395
PIGFP3	7060888708	5.045061405	9.88E+18	0.034807865
PIGA	0.789020842	0.626120062	0.994304331	0.044603392
PIFO	0.834233492	0.723594156	0.961789857	0.012537833
PID1	0.851363816	0.733696912	0.987901592	0.03397616
PHYKPL	0.744840219	0.569213674	0.974654997	0.031787635
PHLDB2	1.268683074	1.05104427	1.531388152	0.013195719
PHKG2	0.69374619	0.511654438	0.940642238	0.018577862
PHKB	0.70919755	0.533642804	0.94250529	0.017883118
PHF5A	1.276369042	1.003127574	1.624038629	0.047103255
PHF14	1.55679694	1.133661111	2.137867031	0.006234591
PHF11	0.626703754	0.447151583	0.878354478	0.00666711
PHF1	0.579661101	0.422570079	0.795150932	0.000721423
PHC1	0.707821063	0.508558806	0.985157767	0.040499975
PHB	1.37332882	1.003285553	1.879855682	0.047653962
PHACTR1	0.697098967	0.540584221	0.898929252	0.005414876
PGS1	0.592391738	0.438937185	0.799494742	0.000619675
PGPEP1	0.579023332	0.435016278	0.770702238	0.000180315
PGM5-AS1	0.376126552	0.156507554	0.903925589	0.028834026
PGM5	0.727303361	0.582771989	0.907679485	0.004849119
PGM2	1.463110711	1.182558153	1.810222142	0.00045877

PGD	1.177966423	1.02132216	1.358635842	0.02446422
PGC	0.945450329	0.906839672	0.985704918	0.008369872
PGBD4P2	232261.069	1.787828013	30173598237	0.039717442
PGAP3	0.754548827	0.608766388	0.935242062	0.010135232
PGAM4P2	353737.7832	153.3768419	815836456.7	0.001221296
PGAM4	4.778295186	1.898671388	12.02530624	0.000895218
PGAM1P1	1060818.526	406.2034082	2770375437	0.000547517
PGAM1	1.530354292	1.174380461	1.994229586	0.001633256
PFN1	1.573993814	1.126598418	2.19905912	0.007846603
PFKP	1.282811473	1.123308769	1.464962547	0.000236541
PFDN1	1.44566563	1.029956535	2.029162437	0.033122892
PF4V1	0.692221687	0.482900255	0.992277099	0.045267306
PEX5L-AS2	4.783461173	1.02716466	22.27637075	0.046139857
PEX5L	1.421359809	1.048090473	1.92756614	0.023688108
PEX11B	0.688035434	0.506529165	0.934581443	0.016713713
PES1	1.424423534	1.035696331	1.959051457	0.029580015
PERP	1.352095568	1.149249115	1.590745123	0.000275495
PER3	0.803425813	0.669698739	0.963855836	0.018458681
PELO	1.405730868	1.040815219	1.89858799	0.026361837
PEL1	0.813496028	0.668208554	0.990373115	0.039750406
PEF1	0.64501196	0.437361466	0.951250764	0.026960262
PECAM1	0.778943203	0.642291645	0.944668233	0.011138327
PEBP4	0.895951023	0.828103289	0.969357623	0.006246473
PEBP1	0.603658936	0.464865289	0.78389185	0.000152746
PDZRN3-AS1	1.97E-09	2.79E-15	0.001392107	0.003532652
PDZD9	0.031223536	0.003121461	0.31232467	0.003173685
PDYN	1863.618293	1.050591482	3305826.482	0.048507605
PDXDC2P	0.749593215	0.573212457	0.980247342	0.035228883
PDX1-AS1	2.512202272	1.657680027	3.807224647	1.41E-05
PDX1	1.250583397	1.063347164	1.470788551	0.006887973
PDP2	0.570274433	0.374556672	0.86826094	0.008829355
PDLIM7	1.3306193	1.100744819	1.608499709	0.003158082
PDLIM5	1.232476035	1.021737535	1.486680411	0.028908617
PDLIM1P4	0.321144666	0.156208663	0.660231608	0.002008197
PDK2	0.630424174	0.473513952	0.839330368	0.001581
PDIK1L	0.588292962	0.437780576	0.790552683	0.000433563
PDGFB	1.242958935	1.042152214	1.482458027	0.015554073
PDE6C	0.224824825	0.054715065	0.923807773	0.0384637
PDE6B	0.745103225	0.5889743	0.942619765	0.014186109
PDE4B	0.798958845	0.641736699	0.994699596	0.044696645
PDE10A	1.323411987	1.080023533	1.62164919	0.006884293
PDDC1	0.768414921	0.594557735	0.993110434	0.044136922
PDCD6IPP2	0.598461019	0.40032509	0.894661865	0.012330473
PDCD5	1.269731873	1.027614585	1.568894654	0.026944586
PDCD4	0.769388724	0.601733775	0.983755662	0.036566904
PCSK9	1.166094902	1.039846564	1.307671119	0.008581461
PCSK6-AS1	16.58071072	2.537546095	108.3408764	0.00336463
PCP4L1	0.888057397	0.819086695	0.962835735	0.004000685
PCP2	0.694565897	0.552198585	0.873638214	0.001844128

PCNAP4	2.977863426	1.564197865	5.669148884	0.000894187
PCMTD2	0.591930265	0.433919594	0.807480104	0.000934179
PCMTD1P3	1.429817302	1.056416871	1.935199612	0.020592707
PCM1	0.771212397	0.614490692	0.967904915	0.024999325
PCF11	0.685844942	0.490580801	0.958829378	0.027391553
PCED1B-AS1	0.773060401	0.633641911	0.943154759	0.011188777
PCDHGC5	3.764980207	1.482462538	9.561844292	0.005305461
PCDHGC4	4.930368991	1.091808223	22.26447638	0.038064796
PCDHB8	1.242077063	1.024519683	1.505832884	0.027347296
PCDHA4	2.027969222	1.12603643	3.652332249	0.018502094
PCDH9-AS2	60.62024778	6.488108767	566.3922375	0.000318131
PCDH7	1.295245062	1.13477863	1.478402682	0.000126275
PCDH15	0.0714725	0.006826744	0.748280364	0.02766734
PCBP1-AS1	0.33969616	0.172675933	0.668266151	0.001762958
PCAT29	0.57348687	0.351163613	0.936563975	0.026293382
PBXIP1	0.771162932	0.636850997	0.933801267	0.007780248
PBX4	0.649947415	0.470809881	0.897244639	0.008817607
PBK	1.257299261	1.106847348	1.428201852	0.00042976
PAXIP1-AS1	0.742318812	0.588670368	0.93607093	0.011792565
PAXB1P1	1.53E+17	838782.5258	2.77E+28	0.002779899
PAX5	0.717185429	0.546696851	0.940841234	0.016382379
PAWR	1.372069261	1.035888321	1.817352332	0.027394965
PARVG	0.762687786	0.613574828	0.948038661	0.014658599
PARPBP	1.282294635	1.031971711	1.593337796	0.024833701
PARP15	0.679539095	0.54218971	0.851682304	0.000798
PARM1	0.855092201	0.770206186	0.94933368	0.003338856
PARD3B	0.682855595	0.506911825	0.9198676	0.012093118
PAQR5	1.213183229	1.016144655	1.448429159	0.032591665
PAQR4	1.212079298	1.012946378	1.450359324	0.035690256
PAPLN	0.775097634	0.639878519	0.938891251	0.009197717
PAPL	1.571616351	1.080959682	2.2849862	0.01790107
PAOX	0.546213145	0.383897621	0.777157198	0.000775974
PANX1	1.489050302	1.147473524	1.932306722	0.002747481
PAN3-AS1	0.44404724	0.264026001	0.746812626	0.002209062
PAN3	0.718051301	0.518089428	0.995190487	0.046710653
PAK4	1.363758553	1.070103856	1.737997092	0.012154974
PAK2	1.518265221	1.125976203	2.047227354	0.006182568
PAK1	1.306971752	1.007676793	1.695161755	0.043633078
PAIP2B	0.760356826	0.596521604	0.969189547	0.026916865
PAICSP4	2.554709706	1.116131258	5.847467879	0.026417932
PAICSP1	0.168225234	0.049149821	0.57578499	0.004521501
PAICS	1.461870099	1.186330761	1.801406703	0.000366017
PAFAH1B3	1.189487117	1.006484125	1.405764448	0.041771323
PAFAH1B2	1.662549078	1.186570956	2.329459879	0.003136434
PADI6	4.73E-05	1.00E-08	0.222469693	0.020983105
PADI1	1.161834327	1.015405617	1.329379098	0.029080324
PABPC3	1.724836145	1.139224794	2.611477334	0.009998164
PABPC1P6	5.15E+18	20.45258646	1.30E+36	0.03506566
PABPC1P2	261.9378299	3.640613355	18846.11742	0.010703089

PABPC1P12	2.17E+19	72689039.65	6.51E+30	0.000957865
PABPC1L	0.86184052	0.757184142	0.980962279	0.024388286
PABPC1	1.319162476	1.062375382	1.63801766	0.01214992
PA2G4	1.596230438	1.183701458	2.152528912	0.002173376
P4HTM	0.693349339	0.522090422	0.92078553	0.011402031
P4HA1	1.307365087	1.078684643	1.584525638	0.00629393
P3H4	1.172174782	1.001707804	1.371651208	0.047563824
P2RY8	0.708596756	0.569797883	0.881206087	0.001955353
P2RY14	0.673765249	0.507597472	0.894329929	0.006277957
P2RY13	0.723920487	0.600130015	0.873245562	0.000734142
P2RY12	0.676308028	0.51411045	0.889677595	0.005181982
P2RY10	0.778048505	0.638689227	0.947815386	0.012695918
P2RX7	0.793271502	0.636921525	0.988001898	0.038664835
P2RX3	0.131725406	0.019054134	0.910646599	0.039893625
P2RX2	0.483750006	0.239160697	0.978480459	0.043332371
P2RX1	0.589423989	0.435608964	0.797551629	0.000612313
OXTR	1.346305707	1.098306894	1.650302903	0.004200914
OXCT2	0.53303582	0.291917122	0.97331456	0.040559202
OTX2P1	8.046594846	1.030238981	62.84725179	0.046770703
OTUD6B	1.378388618	1.064286704	1.785191127	0.015009008
OTOP2	1.778029087	1.008072566	3.136071291	0.046841137
OTOA	0.054097909	0.004461775	0.655923707	0.021951347
OSGIN2	1.332948209	1.090189043	1.629764067	0.005081788
OSGEP	0.641399206	0.470422358	0.874518259	0.004990667
OSCP1	0.674026734	0.521901672	0.870493546	0.00250533
OSBPL6	0.704160038	0.507111299	0.977776199	0.036246832
OSBPL2	0.678470636	0.493697539	0.932397607	0.016780203
ORMDL3	0.616727921	0.485462537	0.783486468	7.55E-05
ORC6	1.217191691	1.000892437	1.480234598	0.048964579
ORC1	1.307014356	1.09724771	1.5568832	0.00270233
OR8X1P	3385.938393	10.31112844	1111864.61	0.005973864
OR8T1P	0.13407019	0.02693109	0.667437359	0.014140819
OR8J2	1.50E+12	73960.34805	3.06E+19	0.001091732
OR7K1P	2.43E+11	1.797166497	3.28E+22	0.044985072
OR7E85P	36.53522694	4.868306469	274.1862733	0.000466875
OR7E4P	18508.85793	92.85231752	3689491.344	0.000275686
OR7E47P	0.680807585	0.54201128	0.855146349	0.000949144
OR7E130P	2260.455665	2.027949835	2519618.447	0.030969245
OR7E111P	3.51E+12	6.262440004	1.97E+24	0.036359579
OR6Q1	4.28E+70	4.74E+36	3.85E+104	4.56E-05
OR6K4P	7.37E-05	5.88E-09	0.923370459	0.048095495
OR6K3	0.007044233	5.29E-05	0.938267339	0.047089509
OR6C71P	8.99E+14	7358204.857	1.10E+23	0.000289867
OR5W2	66804.50636	4.547898812	981297573.8	0.023245949
OR5W1P	20823.95944	2.187247227	198257097.5	0.033386534
OR5T3	2427737562	27.62257831	2.13E+17	0.02058235
OR5K4	2.21E+23	8278.577592	5.89E+42	0.018509599
OR5D2P	1.87E+13	376729.883	9.31E+20	0.000724973
OR5BP1P	155391899.3	65.50924864	3.69E+14	0.011790049

OR5BE1P	2.18E+22	4.400200802	1.08E+44	0.043580945
OR56A4	3462.501493	7.873803182	1522633.512	0.008677781
OR55B1P	9.388995724	1.687086931	52.25174771	0.010553777
OR52V1P	0.005959586	0.000126158	0.28152482	0.009204364
OR52U1P	2.92E-05	1.44E-09	0.59163976	0.039047317
OR52P1P	0.002855325	2.10E-05	0.387919783	0.019395334
OR52N4	0.23644752	0.085715268	0.652245873	0.005346293
OR52E2	6.737311753	2.258273762	20.10002969	0.000624779
OR52B5P	0.000401318	5.23E-07	0.308017008	0.021032681
OR52B2	332555.4932	4.58455119	24123006046	0.025972427
OR51T1	54932.50069	4.011194869	752289462.5	0.024716538
OR51L1	1117582158	11.77796486	1.06E+17	0.026207637
OR51I2	3.25E-08	5.26E-15	0.201393519	0.030710294
OR4Q3	1.28E+41	2.23E+16	7.34E+65	0.001137208
OR4P1P	13.87892747	1.604896687	120.0230703	0.016859915
OR4N4	2.97E+69	7.17E+37	1.23E+101	1.66E-05
OR4M2	4.44E+19	1239.072374	1.59E+36	0.020009291
OR4F7P	2.05E+18	31429.50906	1.34E+32	0.009376457
OR4A17P	3.29E+33	419277.6146	2.58E+61	0.018521635
OR2W3	1.743797815	1.018166053	2.986576512	0.0428117
OR2AT1P	0.019326613	0.00043321	0.862209571	0.041702992
OR2A7	0.500212437	0.315836348	0.792221933	0.003149329
OR1M4P	2.69E+15	5514689.788	1.31E+24	0.000500074
OR1F12	0.035003079	0.001292525	0.947923755	0.046399682
OR1F1	3.04097995	1.697610868	5.447396237	0.000184561
OR14L1P	0.004906068	0.000113401	0.21225119	0.005668681
OR11K2P	1.29E+13	1166062.91	1.43E+20	0.000264516
OR10J6P	3093.36109	203.3399199	47058.55515	7.18E-09
OPRM1	1251.947782	1.410717714	1111046.692	0.039464204
OPN5	2054.343473	12.15200818	347294.6233	0.003566991
OPN3	1.270720858	1.115136595	1.448012294	0.000323982
OPN1MW	5.41E+18	12.73344032	2.30E+36	0.037268275
OPHN1	0.694525361	0.535694966	0.900448031	0.005932711
OPA3	1.600097213	1.154401021	2.217869739	0.004773663
OPA1	1.320324452	1.003759657	1.73672716	0.046945149
OMG	0.788864124	0.634641651	0.980563764	0.032613655
OLFM1	0.777632144	0.647599922	0.933773663	0.007061774
OLAH	1.540470301	1.150627488	2.062395322	0.003702618
OLA1	1.426471957	1.078762357	1.886256255	0.012709251
OIP5	1.391319232	1.177332901	1.644198684	0.000106219
OGT	0.742131874	0.617440325	0.892004777	0.001484588
OGN	0.809532045	0.679970606	0.963780089	0.017570182
OGFRP1	3.028569095	1.85303757	4.949835292	9.83E-06
OGDH	1.358112054	1.017073108	1.813506165	0.038013573
OFD1P16Y	91.1683219	5.600465197	1484.102235	0.001522707
ODF3B	0.854791177	0.732098452	0.998046034	0.047177286
OCLN	0.825801255	0.690144774	0.988122693	0.03657621
OASL	1.155568096	1.002081491	1.332563904	0.046749704
OAS3	1.222150077	1.051545483	1.420433862	0.008918477

OAS1	1.184131394	1.035169489	1.354529063	0.013744829
NYAP2	0.612491209	0.393872107	0.952455058	0.029539554
NXPE2	2.769240166	1.241415305	6.177377597	0.012837731
NXNP1	831055109.3	1080.904606	6.39E+14	0.00297602
NXNL2	2.507219963	1.456190543	4.316847114	0.000914374
NXF5	0.000291623	8.62E-08	0.987041106	0.049633433
NWD2	11.37559864	2.153808869	60.08158213	0.004189377
NWD1	0.713540944	0.553580634	0.919722706	0.009157389
NUSAP1	1.273267628	1.103049945	1.469752535	0.000968624
NUS1P2	1.484421386	1.143036207	1.92776645	0.003050607
NUPR1	0.814296469	0.708962716	0.935280128	0.00365295
NUP62CL	1.428136812	1.163333836	1.753215364	0.000659593
NUP62	1.396421282	1.022967107	1.906212219	0.035468024
NUP50	1.642485884	1.152359248	2.341075391	0.006065216
NUP37	1.447964409	1.113882322	1.882246345	0.005677773
NUP210L	0.667974315	0.455496773	0.979567172	0.038861701
NUP107	1.255703541	1.010780248	1.559974471	0.039703261
NUMBL	1.368210251	1.089719786	1.717872168	0.006935623
NUGGC	0.648013927	0.46853897	0.896237188	0.008739896
NUF2	1.186024085	1.034536692	1.359693804	0.0144071
NUDT16L1	0.747634605	0.572422375	0.976477383	0.032787557
NUDT15	1.412715672	1.072775115	1.860376459	0.013887682
NUDT14	0.787390732	0.644242199	0.962346408	0.019550175
NUDT1	1.347834467	1.079062286	1.683552259	0.008525191
NUDCD1	1.346308797	1.074594417	1.686726962	0.009724303
NUCB2	0.765940853	0.602221485	0.974168816	0.029760687
NTSR1	1.399078687	1.207581282	1.620943618	7.77E-06
NTS	1.123981169	1.053753471	1.198889211	0.000384458
NTRK3	0.053514045	0.006907317	0.414597009	0.005065679
NT5E	1.123123802	1.019961913	1.236719781	0.018174794
NT5C3A	1.394810062	1.09838969	1.771224845	0.006336527
NT5C1A	0.605725706	0.390448731	0.939697333	0.025249191
NSUN7	0.683988363	0.525691714	0.889951408	0.004682898
NSUN4	0.539717835	0.33426697	0.871445185	0.01163989
NRXN3	0.608502854	0.417331464	0.887246123	0.00983101
NRROS	0.785673773	0.63216004	0.976466778	0.029655278
NRL	0.394150932	0.194297508	0.799572564	0.009887216
NRIP2	0.587311948	0.384187884	0.897829781	0.013984517
NRG4	1.49791553	1.11935018	2.00451206	0.00655778
NRAS	1.360258335	1.077446518	1.717303556	0.00967537
NRARP	1.304778186	1.083676285	1.57099139	0.00498143
NR3C2	0.740753816	0.609436625	0.900366327	0.002577076
NR2F2	1.233211174	1.014850477	1.498555535	0.03501186
NR1H4	1.309265874	1.007379086	1.701620721	0.043911085
NR0B2	0.871111696	0.777885815	0.975510251	0.016880592
NPY5R	2.119281245	1.355898249	3.312455783	0.000980346
NPY1R	1.292963172	1.054763033	1.584956725	0.013392331
NPTN	1.481438085	1.115362602	1.967663965	0.006649941
NPSR1	1.486628969	1.042435356	2.120098556	0.028564344

NPRL2	0.560243668	0.391190426	0.802353399	0.001569115
NPM1P9	2.937208894	1.285808948	6.709547405	0.010575683
NPM1P41	4299.585595	6.647654146	2780896.22	0.011289198
NPM1P36	17.58510126	1.62980816	189.7375372	0.01815419
NPIPP1	0.719612953	0.551281165	0.939344268	0.015511514
NPIPB7	0.016698899	0.000335146	0.832034342	0.040152866
NPIPA1	0.476417548	0.281672104	0.805808161	0.005689375
NPHP1	0.569763973	0.358465722	0.905612349	0.01734527
NPC2	0.801342934	0.709049175	0.905650159	0.000389156
NPBWR1	1.410351418	1.092118128	1.821314995	0.008405004
NPB	5358.249431	7.470938223	3843002.861	0.010485242
NPAS2	1.515103419	1.23975054	1.851613123	4.91E-05
NPAS1	1.96164149	1.399019509	2.750524428	9.35E-05
NOTUM	0.872439191	0.773681911	0.983802427	0.025987928
NOS1	1.294288881	1.013455803	1.652942045	0.03872779
NOP2	1.373296301	1.089943481	1.73031241	0.007135855
NOP16	1.291354896	1.002117228	1.664074243	0.04811953
NOP10	1.286946033	1.008455883	1.642342634	0.042596736
NOLC1	1.428777841	1.100471762	1.85502817	0.007391112
NOL11	1.446114437	1.056516527	1.979379319	0.021265712
NOD1	0.696823777	0.550831769	0.88150939	0.002600677
NNT-AS1	0.742356229	0.564797575	0.975735016	0.032672414
NNT	0.76798607	0.610566882	0.965991805	0.024095553
NMUR1	0.424133461	0.235847379	0.7627356	0.004176565
NMI	1.436550396	1.131396043	1.824009421	0.00294676
NME8	0.397632966	0.164537258	0.960949374	0.040516709
NME4	1.279466009	1.041441274	1.571892058	0.01894523
NME1-NME2	1.262394201	1.029153459	1.548495129	0.02537236
NMD3	1.330195072	1.026375795	1.72394842	0.031024957
NMB	1.190930438	1.0399165	1.363874223	0.011546041
NLRP8	4.750834684	1.224391809	18.43399313	0.024284137
NLRP5	1.596090855	1.106406777	2.302503989	0.012391021
NLRP3	0.728742325	0.552831764	0.960627466	0.024772058
NLRP14	0.040646335	0.001756722	0.940458632	0.04568806
NLRP13	2.059745901	1.044544656	4.061629297	0.037000154
NLRP1	0.696946124	0.562001947	0.8642922	0.001008142
NLRC4	0.654107262	0.475945981	0.898959813	0.008882605
NLRC3	0.65523574	0.492227877	0.872225844	0.003771768
NLN	1.491339397	1.105740657	2.011405822	0.008831781
NLGN4Y-AS1	3.472511247	1.73236156	6.960633764	0.000450321
NKX3-1	1.275501476	1.0116286	1.608202868	0.039616003
NKX2-1-AS1	0.810397444	0.710968592	0.923731407	0.001644697
NKX2-1	0.841760648	0.777578645	0.911240288	2.07E-05
NKTR	0.805801099	0.651690814	0.996355016	0.046186881
NKIRAS1	0.613930116	0.399210819	0.944138208	0.026301213
NKD1	0.656896208	0.495942338	0.870086289	0.003385363
NKAPP1	0.344417763	0.138947438	0.853729998	0.021368568
NISCH	0.715543393	0.558227624	0.917192782	0.008233793
NIPSNAP3B	0.588950866	0.36898006	0.94005926	0.026483128

NIPAL3	0.762693616	0.593805752	0.979615891	0.03390266
NIPA1	1.465583055	1.06353823	2.019611172	0.019465301
NINJ2	0.804373691	0.691893286	0.935139924	0.004618422
NINJ1	0.796490929	0.635762401	0.997853599	0.04785556
NIFK-AS1	0.488243605	0.311829233	0.764462702	0.001724123
NID2	1.290893106	1.081042996	1.541478939	0.004789264
NID1	1.188899416	1.018256502	1.388139254	0.028609312
NICN1	0.636567567	0.486490377	0.832942	0.000993262
NHSL2	0.519988074	0.298011288	0.907306563	0.021309601
NHEJ1	4.310598758	1.261412845	14.73051566	0.019786786
NGF	0.86364869	0.748309556	0.996765381	0.045042061
NGEF	1.320820831	1.143942381	1.52504855	0.000148687
NFYC-AS1	0.647537438	0.449012854	0.933836815	0.019996477
NFKBIZ	0.86648169	0.751873346	0.998559828	0.047717669
NFKBID	0.752663845	0.582783448	0.972064094	0.029476414
NFKB2	1.30322381	1.027945849	1.65221962	0.028696189
NFIX	0.833918909	0.727924226	0.955347715	0.008829805
NFIB	0.80041559	0.661780635	0.968092872	0.021783366
NFATC2	0.784022535	0.624082492	0.984952059	0.036598438
NFATC1	0.715241205	0.540180798	0.947034738	0.019287768
NFASC	0.610098682	0.394615236	0.943248937	0.026230708
NF1P3	1357087.704	25.95800499	70948712663	0.010851577
NEUROD6	73.67541109	4.069538749	1333.828361	0.003616561
NEUROD1	0.603934621	0.407895219	0.894192944	0.011786489
NEU2	13.26490442	1.38888952	126.6894787	0.024749936
NEU1	0.739369595	0.587614931	0.930315703	0.009988626
NEPNP	0.012525062	0.000270456	0.58004655	0.025202095
NELL2	0.740167154	0.586870077	0.933507155	0.011051409
NEK8	0.737587856	0.55766354	0.975562873	0.032893976
NEK4P2	50590.47689	1.094075046	2339324311	0.048112971
NEK2	1.300506898	1.1367318	1.487877959	0.000130159
NEIL3	1.297642464	1.124423134	1.497546532	0.000365046
NEIL1	0.720038159	0.583013388	0.889267659	0.00229147
NEGR1	0.608338348	0.384646778	0.962117889	0.033579879
NEFL	1.195715719	1.021332533	1.399873239	0.026255553
NEDD9	0.82082337	0.709029788	0.950243581	0.008213036
NEDD4	1.567388228	1.207946515	2.033786949	0.000721057
NEDD1	1.666789667	1.223743527	2.270236966	0.00119213
NECAB3	0.780156455	0.649603433	0.936947163	0.007884019
NDUFV2-AS1	0.611175362	0.39834773	0.93771169	0.024168844
NDUFS2	1.38886203	1.005379454	1.918616628	0.046315461
NDUFAF7	0.599515227	0.397054106	0.905212922	0.014947298
NDUFA6-AS1	0.370025796	0.170953184	0.800915702	0.011621093
NDUFA5P10	0.015109661	0.000251842	0.906526945	0.044755873
NDST2	0.169532598	0.064849426	0.443200557	0.000295041
NDRG2	0.767929429	0.642204634	0.918267445	0.003795399
NDNF	0.873638187	0.798313886	0.956069654	0.0033192
NDC80	1.321541616	1.141428417	1.530076014	0.000191885
NDC1	1.344225049	1.081106677	1.671380837	0.007776057

NCS1	1.225484882	1.002539953	1.498008323	0.047175133
NCR3	0.691992318	0.527475784	0.907820573	0.007856461
NCOA4	0.776056577	0.603024235	0.998738982	0.048865024
NCL	1.57125237	1.181410387	2.089734471	0.001897822
NCKAP5L	0.734848478	0.554134469	0.974496833	0.032407109
NCKAP5	0.665387597	0.486956084	0.909200376	0.010540784
NCKAP1L	0.827079917	0.700917578	0.975950968	0.024561502
NCKAP1	1.403629503	1.022262462	1.927270006	0.03607499
NCF4	0.853672886	0.733533238	0.993489265	0.040916858
NCEH1	1.227564923	1.021621895	1.47502285	0.028649885
NCCRP1	1.14335749	1.038073892	1.259319169	0.006565726
NCBP1	1.549007402	1.105236526	2.170959676	0.011055358
NCAPH	1.256776401	1.0912102	1.447463487	0.001518933
NCAPG2	1.289859525	1.075381593	1.547113699	0.006083958
NCAPG	1.300531936	1.124044937	1.504729268	0.000413278
NCAPD2	1.336220556	1.117536307	1.597697868	0.001479565
NCALD	0.708007859	0.576234838	0.869914653	0.001015209
NBPF2P	0.596608108	0.396624231	0.89742685	0.013156409
NBPF25P	0.363435777	0.145189949	0.909743168	0.030616608
NBPF11	0.667594535	0.459764148	0.969371937	0.033717628
NBPF1	0.592294048	0.388423912	0.903168491	0.014970567
NBN	1.473047532	1.155799499	1.877374954	0.001747918
NBEA	0.77404867	0.610087783	0.98207399	0.034952657
NAV2-AS3	2.568485474	1.219487863	5.409744391	0.013061747
NAV2-AS2	0.400393646	0.167633804	0.956340957	0.039355044
NAPSB	0.826024902	0.722769653	0.944031248	0.005026426
NAPSA	0.897586645	0.851129197	0.946579894	6.76E-05
NAPB	0.668869969	0.486265165	0.92004747	0.013427877
NAP1L2	0.744932812	0.570264132	0.973101521	0.030774532
NANOS1	0.688748051	0.498356593	0.951876396	0.023900769
NAMPTP1	1.156913729	1.011913681	1.322691255	0.032899814
NAIP	0.177127573	0.049763089	0.630470848	0.007538118
NAGK	0.667435328	0.471251472	0.945291303	0.022798722
NACA	1.419301534	1.019561703	1.97576747	0.03800978
NAALADL2	1.291393269	1.018475925	1.637443295	0.034763781
NAALADL1	0.618685643	0.415845251	0.920467225	0.017845199
NAALAD2	0.33468736	0.115991156	0.9657256	0.042921924
NAA50	1.447091757	1.102025812	1.900204634	0.007838206
NAA15	1.352010938	1.003247896	1.822015859	0.047561459
N4BP2L2	0.676704506	0.491103138	0.93244973	0.016960491
N4BP2L1	0.64463428	0.496592856	0.836808967	0.000972757
MZT2A	1.391171059	1.097268942	1.763794493	0.006399624
MZT1	1.321921516	1.070600765	1.632239162	0.009485112
MYRF	1.156085268	1.013552829	1.318661551	0.03073481
MYOZ3	0.264529647	0.084571653	0.827415947	0.022279191
MYOZ1	0.712382107	0.566524031	0.895793009	0.00371459
MYOM3	1.817498194	1.092734645	3.022966005	0.021357791
MYOM2	0.509797162	0.266602732	0.974833018	0.041647129
MYOCD	0.507964478	0.286757988	0.899810715	0.02024116

MYO6	0.667195375	0.541553129	0.821987068	0.000143846
MYO5BP3	8444.156709	49.30500791	1446177.286	0.000570178
MYO1H	0.096032324	0.01486897	0.620231762	0.013822699
MYO1F	0.787456742	0.645201516	0.961076664	0.018748186
MYO1E	1.509729569	1.249933296	1.823524006	1.91E-05
MYO19	1.304746558	1.033374613	1.647382815	0.025357572
MYO16-AS2	42035.302	9.483690649	186316348.8	0.0129529
MYLIP	0.59953702	0.489574388	0.734198209	7.47E-07
MYL5	0.723800053	0.552550943	0.948123468	0.018940234
MYHAS	8.154728747	1.926705862	34.51466165	0.004360165
MYH16	1.627531139	1.111847244	2.382393465	0.012234276
MYH15	1.621838552	1.023264036	2.570558716	0.039606262
MYEOV	1.132716125	1.036723875	1.237596481	0.005811801
MYBL2	1.142482881	1.039451662	1.25572663	0.005738024
MXRA5	1.128129533	1.003268174	1.268530465	0.043958776
MXD1	1.283117223	1.041238816	1.581183667	0.019327774
MVB12B	0.669139785	0.527858715	0.848234649	0.000899439
MUTYH	0.738157351	0.548073044	0.994167256	0.045665609
MUSK	0.141978041	0.035469862	0.56830681	0.005806693
MUC2	1.294493852	1.09762002	1.526679819	0.00216546
MUC16	1.165204996	1.010783298	1.343218358	0.035046057
MTX1P1	1.371603009	1.106727568	1.699871648	0.003898653
MTUS1	0.760147826	0.645628388	0.894980345	0.00099568
MTURN	0.689357816	0.576560199	0.824223037	4.49E-05
MTSS1	0.836743708	0.708675049	0.987956376	0.035472547
MTRR	0.776214059	0.611001043	0.986100225	0.038024254
MTRNR2L12	1.250446858	1.024250193	1.52659707	0.028140873
MTRF1LP2	4.78926342	1.317161649	17.41399329	0.017396312
MTPN	1.395819318	1.063307961	1.832311655	0.016299919
MTND6P11	1654872003	15506.97591	1.77E+14	0.000326396
MTND5P25	0.074742032	0.010029465	0.556995923	0.011373282
MTND4P4	12.35411109	1.436655028	106.2357057	0.02202131
MTND4P23	0.14083085	0.02122465	0.934447855	0.042337819
MTND4P21	142.0776818	1.541682973	13093.52702	0.031751744
MTND4P10	1.00E+13	140.27831	7.13E+23	0.018890246
MTND3P9	7679.232522	13.97570588	4219508.669	0.005447885
MTND2P32	6.20E-06	3.49E-10	0.109929739	0.016292853
MTND1P36	1.27E-05	3.28E-10	0.487761505	0.036329652
MTND1P1	6729644.626	2.194096602	2.06E+13	0.039105576
MTMR9LP	0.732957508	0.586499548	0.915988275	0.00630445
MTMR8	0.375430523	0.180978136	0.778812739	0.008502843
MTMR4	0.705028694	0.522142766	0.951972318	0.022536272
MTMR2	1.613821987	1.19854183	2.172991663	0.001615406
MTMR12	0.688015003	0.520667597	0.909149422	0.008543884
MTMR10	0.587898379	0.405791335	0.851729631	0.004978039
MTL5	1.413577904	1.172183018	1.70468473	0.000291438
MTHFS	1.468558293	1.100233574	1.960186919	0.009098579
MTHFR	0.772942096	0.601976975	0.992462351	0.043457556
MTHFD2L	0.651758405	0.426595528	0.995765286	0.047749812

MTHFD2	1.217044681	1.037684728	1.427406337	0.015747404
MTHFD1P1	3.173411692	1.005323483	10.0172153	0.048951165
MTHFD1L	1.406144661	1.077072044	1.835757244	0.012217829
MTHFD1	1.583633147	1.20743636	2.077040271	0.000893304
MTFR2	1.33310417	1.091874697	1.627628824	0.004757723
MTFR1L	0.51567685	0.344510024	0.771886435	0.001290523
MTCL1	1.338016891	1.071578936	1.67070212	0.010164987
MTBP	1.497238681	1.060595046	2.113647123	0.021768548
MTATP6P9	6.36E+11	4365.878907	9.25E+19	0.004597628
MT2P1	1.416228938	1.182140062	1.69667239	0.000159905
MT2A	1.150569063	1.027716324	1.288107562	0.014912235
MT1A	1.13307083	1.022825229	1.255199294	0.016752713
MT-TY	0.859040908	0.747138375	0.987703626	0.032866064
MT-TS1	21.14783288	1.339461533	333.8885248	0.030191607
MT-TC	0.8620291	0.747942016	0.993518418	0.040389746
MSX2	1.277956278	1.06261594	1.536935582	0.009186196
MSX1	1.438196407	1.07170357	1.93001961	0.015460913
MSTO2P	0.764807375	0.599874016	0.975088611	0.03050145
MST1P2	0.80781315	0.669111512	0.975266563	0.026382532
MST1L	0.843164094	0.717400214	0.990975016	0.038455197
MSS51	0.658099918	0.447249273	0.968353732	0.033741476
MSLNL	1.227210615	1.074966388	1.40101673	0.002448374
MSH4	0.124884918	0.015840405	0.984586123	0.048301183
MSANTD4	0.749127518	0.565592097	0.992220438	0.043964271
MSANTD3-TMEFF1	625.8799977	29.07955816	13470.82955	3.92E-05
MSANTD3	1.79200677	1.338506213	2.399158279	8.91E-05
MSANTD2	0.754422139	0.58097335	0.979653825	0.034499721
MS4A7	0.823214917	0.709882205	0.954641199	0.010046942
MS4A4E	0.384611484	0.211117054	0.70068235	0.001794776
MS4A2	0.658943112	0.51442748	0.844056824	0.000959723
MS4A15	0.882684698	0.804337186	0.968663752	0.008505765
MS4A14	0.657228106	0.456927072	0.94533419	0.023631105
MS4A1	0.79028853	0.691254095	0.903511408	0.000570454
MRPS35P3	61.12629565	3.234035394	1155.344195	0.006094622
MRPS35	1.334200223	1.065389428	1.670835273	0.012013772
MRPS24	1.356776312	1.071581068	1.717874659	0.011270933
MRPS18BP2	20804593849	38255.18737	1.13E+16	0.000421899
MRPS18AP1	0.558498517	0.349162106	0.893340337	0.015074321
MRPS12	1.278002988	1.041324132	1.568475738	0.01890099
MRPS11	1.467618466	1.009717617	2.133174589	0.044362674
MRPL9P1	78.31792959	2.392611528	2563.599659	0.014280995
MRPL51	1.396917356	1.063320705	1.835173614	0.016352071
MRPL47	1.301596238	1.033642395	1.639012463	0.025005432
MRPL44	1.507902013	1.053319342	2.158669636	0.024848766
MRPL40P1	1.836031157	1.123794145	2.999668957	0.015268542
MRPL37	1.367390305	1.012665682	1.846370701	0.041141127
MRPL32P1	27.87371241	1.240936334	626.0948465	0.036088729
MRPL22P1	1317.714752	37.30472828	46545.63236	7.82E-05
MRPL15	1.322321925	1.089414211	1.605023374	0.004708933

MRPL13	1.261044593	1.03096344	1.542473191	0.024029883
MRPL12	1.246943389	1.031512776	1.507366511	0.022573362
MRPL10	1.550924598	1.074801715	2.237963595	0.019001235
MROH9	0.370090479	0.159735172	0.857462767	0.020412758
MROH8	0.242558531	0.102896406	0.571785189	0.001205372
MR11	0.706737538	0.542788123	0.920207952	0.009952952
MRFAP1	1.481880294	1.022743781	2.147135234	0.037633127
MRC1	0.891396656	0.807301053	0.984252398	0.022971077
MR1	0.762750857	0.60701028	0.958449782	0.020116921
MPV17L	0.774441772	0.61255986	0.979104407	0.032641599
MPP7	0.764437191	0.63652454	0.918054502	0.004039194
MPND	0.7244681	0.54899151	0.956033049	0.022744486
MPL	0.222116472	0.053386173	0.924129304	0.03859875
MPEG1	0.845076572	0.733581035	0.973518095	0.019714027
MPC1	0.704711517	0.550275177	0.902490867	0.005556621
MON1A	0.638884447	0.417886536	0.976756373	0.038588726
MOGAT3	2.327264083	1.303606389	4.154749589	0.00428203
MOGAT2	0.129613165	0.021581181	0.778436189	0.025496456
MOCS1	0.657175393	0.508367831	0.849541356	0.001351878
MOB3B	1.255027424	1.007860038	1.562810089	0.042363818
MOAP1	0.590600552	0.451988455	0.771721065	0.000113975
MNX1-AS1	1.193380284	1.011167879	1.408427357	0.036497364
MNDA	0.853758961	0.74830969	0.974067785	0.018743736
MND1	1.301294572	1.081864041	1.565231396	0.005188991
MN1	1.279430274	1.021597692	1.602335086	0.031868305
MMS22L	1.8394237	1.12715711	3.001781668	0.014728355
MMP27	3.568190352	2.056556509	6.190922709	6.05E-06
MMP24-AS1	0.78397736	0.630780264	0.974381312	0.028241569
MMP14	1.224387413	1.065554376	1.406896326	0.004295192
MMADHC	1.449550484	1.079706421	1.946081423	0.013502384
MLYCD	0.447862085	0.251909277	0.796240812	0.006217754
MLLT6	0.704831012	0.566371996	0.877138627	0.001720054
MLLT10	0.66182812	0.467535306	0.936862854	0.019924065
MLKL	1.316912342	1.025299828	1.69146436	0.031114526
MKRN4P	1.927382364	1.018466813	3.647446075	0.043780181
MKL1	1.50941944	1.0929931	2.08450268	0.012424397
MKI67	1.29577319	1.132516508	1.482563961	0.000162507
MISP	1.163840737	1.027197767	1.318660637	0.017261588
MIS18A	1.317012204	1.066460028	1.626428652	0.010539761
MIRLET7D	0.834624722	0.711808899	0.978631243	0.026018271
MIR99AHG	0.328796372	0.166595167	0.648920709	0.001342976
MIR8075	7.7284933	1.01600784	58.78853126	0.048233608
MIR8071-2	0.843094745	0.753796273	0.942971959	0.00280887
MIR8071-1	0.865301735	0.767425798	0.975660572	0.018162122
MIR7856	0.791605296	0.627151714	0.999182384	0.049200716
MIR7850	0.084290504	0.007916107	0.897523126	0.040408356
MIR762HG	0.540251577	0.315498905	0.92511182	0.024857809
MIR7160	8.419900964	1.180790153	60.04007744	0.033522303
MIR7159	8.400397939	1.189224617	59.33839959	0.03286673

MIR711	5.895838306	1.295867573	26.82443026	0.021718661
MIR6886	116.8772976	4.205852243	3247.927388	0.005003575
MIR6876	0.008589012	0.000176243	0.418575915	0.016432195
MIR6864	0.4456258	0.22663946	0.876203791	0.019126035
MIR6782	0.203327105	0.044787512	0.923067845	0.039048724
MIR6774	0.677757184	0.472282979	0.972626203	0.034809491
MIR6737	5.29065462	1.580410945	17.71123289	0.00688422
MIR6719	0.581298945	0.366149451	0.922870329	0.021430225
MIR646HG	0.576599599	0.37407808	0.888763914	0.012626527
MIR646	0.602425044	0.38575142	0.940802586	0.025862809
MIR635	0.697479136	0.555229898	0.87617246	0.001962276
MIR616	0.803044205	0.653754571	0.986425218	0.036599109
MIR6076	0.282955526	0.08540546	0.937455629	0.03886258
MIR600HG	0.701315069	0.511423013	0.961714302	0.02764575
MIR5692A2	2304434.359	831.7161111	6384892207	0.000291895
MIR5685	0.706410483	0.547930789	0.910727744	0.007331507
MIR5572	1.306262252	1.114600888	1.530880774	0.000966394
MIR548Q	0.128873694	0.017326292	0.958568025	0.045360595
MIR548AK	3.443521316	1.174142924	10.0991445	0.024296931
MIR548AC	0.151987975	0.044220724	0.522387301	0.002782355
MIR541	5.396374216	1.376809013	21.1509762	0.01557231
MIR526B	3850.557786	30.97597839	478654.6231	0.000793028
MIR5195	0.777849843	0.622795335	0.971507564	0.026773441
MIR518C	19017991289	4587.462938	7.88E+16	0.002331221
MIR5186	0.010323598	0.000140305	0.759607345	0.037038728
MIR516A2	8441945.086	3950.529848	18039716083	4.56E-05
MIR514B	14.28513435	1.524247157	133.8792481	0.019851321
MIR5100	44481.23852	4.991045448	396426079.6	0.021088107
MIR509-3	58.11525398	2.815003672	1199.779161	0.008538645
MIR509-1	74.03311893	1.397399171	3922.216938	0.0335729
MIR508	328.1910099	4.375426839	24616.87579	0.008538645
MIR506	20067750.64	72.51358485	5.55E+12	0.008538645
MIR502	37.76637418	1.233626556	1156.183783	0.037503768
MIR498	405.3887016	3.148375453	52198.34861	0.015406486
MIR497HG	0.242396419	0.08833568	0.665144866	0.005929151
MIR491	0.534703274	0.301586601	0.948011584	0.032137897
MIR4776-1	4.321495022	1.341219625	13.92413209	0.014216187
MIR4771-2	32223.91399	27.31112663	38020424.67	0.00402227
MIR4721	2.446849629	1.010262357	5.926255755	0.047413679
MIR4697HG	0.801157072	0.671739553	0.955508203	0.013653368
MIR4689	0.402966769	0.16633503	0.976235835	0.044089627
MIR4648	0.619197882	0.393535599	0.974260063	0.03819774
MIR4643	7.964902209	1.140598384	55.61963622	0.036382017
MIR455	10.74075547	2.215752003	52.06531592	0.003199928
MIR4532	47.09638832	1.785798687	1242.060378	0.021039502
MIR4524B	0.036697269	0.0064851	0.207659031	0.000185873
MIR4470	2.222840831	1.443338036	3.42332928	0.0002884
MIR4466	9.799788725	1.369338516	70.13302986	0.023025999
MIR4458HG	0.789863751	0.628582786	0.992525979	0.042934814

MIR4450	1.992207624	1.046293326	3.793287329	0.035932319
MIR4435-1HG	1.346910414	1.062788631	1.706988212	0.013749378
MIR4431	162779.6739	3.29292412	8046715095	0.029549455
MIR4419B	227.3614731	1.185148781	43617.51055	0.043042245
MIR4262	9.380604097	1.245944822	70.62570646	0.029746104
MIR421	0.631368814	0.454757521	0.876569516	0.006016696
MIR3976HG	1.874828678	1.008678525	3.48474017	0.046890722
MIR3976	3858.94895	3.608342232	4126960.815	0.020310611
MIR3945	0.205151786	0.048102207	0.874954775	0.032316351
MIR3942	0.671663498	0.454399965	0.992807855	0.045915782
MIR3924	24.10767177	4.952812198	117.343403	8.10E-05
MIR381	637.5904444	19.36822821	20989.09464	0.000291895
MIR378D1	149.2904712	4.101616398	5433.868656	0.006342246
MIR374B	0.594216195	0.39804744	0.887062323	0.010890761
MIR3682	0.840093668	0.7080744	0.996727705	0.045766591
MIR3677	0.815808251	0.687970526	0.967400604	0.019227015
MIR3671	0.695098588	0.529637382	0.912250652	0.008739448
MIR3655	8.464301236	1.125559917	63.65222707	0.037998859
MIR3648-2	8.380644465	1.457523354	48.18804546	0.017214229
MIR34C	0.797174078	0.649431978	0.97852667	0.030194626
MIR34A	0.725489127	0.577200268	0.911874964	0.005946473
MIR320D1	0.598652528	0.380064233	0.942958631	0.026874946
MIR320A	1.504847751	1.019718795	2.220775733	0.039560581
MIR32	0.4601778	0.213076026	0.993840608	0.048189743
MIR31HG	1.326959858	1.102614405	1.596952167	0.002756033
MIR3189	0.832827575	0.7460195	0.929736783	0.001125256
MIR3178	0.604818274	0.377394127	0.969292097	0.036655923
MIR3173	0.323217537	0.108475927	0.963066912	0.042609201
MIR3157	0.143821927	0.029993088	0.68965045	0.015328035
MIR3135B	0.542623428	0.371939497	0.791634626	0.001511324
MIR3130-1	2.461995951	1.0821823	5.601111814	0.031691241
MIR2909	0.109239992	0.030563541	0.390444807	0.000656551
MIR26A1	0.214193449	0.056918521	0.80604403	0.022676213
MIR25	0.856216498	0.743974068	0.985392803	0.030371517
MIR23A	0.770412148	0.626513335	0.947361922	0.013414707
MIR22HG	0.750589141	0.600478556	0.938225108	0.011733069
MIR218-2	5.553462289	1.198683071	25.72902225	0.028406155
MIR211	151299.6506	238.3339092	96048373.23	0.000291895
MIR193B	25.78658653	3.627494597	183.3077975	0.001163744
MIR1915	3.245591816	1.001290455	10.52029027	0.049749295
MIR1913	0.336479553	0.11468818	0.987185334	0.047317174
MIR186	0.815436188	0.697446431	0.953386736	0.010510832
MIR184	322.4398869	4.702852289	22107.3243	0.007413224
MIR155HG	0.753164674	0.585383469	0.969034926	0.027482857
MIR154	8.805381881	1.062477163	72.97545094	0.04378627
MIR148A	0.668553345	0.495100327	0.902773741	0.008603729
MIR143HG	0.219182382	0.051989845	0.924044241	0.038680576
MIR143	0.585076819	0.383428469	0.89277378	0.01291832
MIR1302-8	0.360343815	0.15934959	0.814860365	0.01421618

MIR1302-5	0.012230467	0.000179067	0.835351942	0.041008773
MIR1275	42.51421123	1.580701813	1143.452954	0.025577396
MIR126	0.796583648	0.647593099	0.979852177	0.031348919
MIR1255B2	0.211229146	0.047448397	0.940342675	0.041280919
MIR1254-2	16.36657451	1.097108736	244.155162	0.042644363
MIR1251	9.895641932	2.012555116	48.65642111	0.004792614
MIR1193	8227.003202	126.6542255	534396.5543	2.30E-05
MIR107	47.40145116	2.655482602	846.1353013	0.008686986
MIPEPP3	0.665050016	0.460588348	0.960275106	0.029537843
MIIIP	0.754158988	0.586770868	0.969297914	0.027560048
MIF	1.289203066	1.083896599	1.533397694	0.004101487
MIEF2	0.694660337	0.498714552	0.967593549	0.031177279
MIEF1	1.598928622	1.105936462	2.31168139	0.012584433
MID1IP1-AS1	0.752975129	0.584641397	0.969776599	0.02797184
MICU3	0.519541865	0.33736493	0.800094277	0.002955471
MICALCL	0.798125146	0.643584524	0.989774809	0.040017765
MICAL3	1.511870707	1.047688682	2.181710152	0.02718013
MICAL1	0.786524059	0.639744615	0.966979763	0.022692156
MIAT_exon1	97.86001489	1.624792757	5894.033236	0.028372325
MGP	0.830807679	0.7420004	0.930243971	0.001310817
MGMT	0.762053188	0.622496592	0.932896771	0.008463434
MGC32805	0.694424985	0.546299148	0.882714282	0.002890796
MGAT5B	1.590193174	1.287441291	1.964139528	1.67E-05
MGAT4A	0.79621592	0.637420608	0.994570592	0.044650327
MFSD7	0.804735264	0.661284128	0.979304989	0.030103156
MFSD6	0.772229961	0.610367224	0.977016933	0.031263437
MFSD5	1.690205418	1.119993059	2.550725055	0.012430556
MFSD2B	2.87331117	1.324610647	6.232712304	0.007551109
MFSD2A	0.811486884	0.71022546	0.927185802	0.002128582
MFSD12	1.325607333	1.098613136	1.599502812	0.003267521
MFNG	0.75914837	0.611307581	0.942743499	0.012649188
MF12	1.410096925	1.23336193	1.612157219	4.91E-07
MFHAS1	0.774483615	0.628840773	0.953858109	0.016197936
MFF	1.401982267	1.072735366	1.832282536	0.013358477
MFAP5	1.140034432	1.00250986	1.296424663	0.045696865
MFAP4	0.865995943	0.784999594	0.955349506	0.004083028
MFAP3L	1.511321712	1.134909271	2.012577901	0.004714434
METTL9	1.353182365	1.009204735	1.814401429	0.043259731
METTL7A	0.720800449	0.615078135	0.844694774	5.22E-05
METTL5	1.457779646	1.07999221	1.96771928	0.013786229
METTL21EP	0.024019415	0.000728573	0.791866318	0.036544938
MESDC2	2.163525987	1.522025329	3.075405256	1.70E-05
MESDC1	1.789091515	1.304325233	2.454026317	0.000308872
MERTK	0.731328928	0.591750311	0.903830537	0.003782581
MELK	1.240160619	1.088455639	1.413009687	0.001224346
MEIS3	1.367630848	1.05127856	1.779180331	0.019672803
MEI1	0.744614023	0.589234758	0.940966287	0.013529015
MEGF8	1.282055254	1.011497251	1.62498284	0.039928341
MEF2C	0.787901266	0.639556564	0.970654419	0.025102685

MEF2BNB	0.56019761	0.38789198	0.809043183	0.002002241
MEF2B	0.592714431	0.352532444	0.996533519	0.048488358
MED6	1.612829528	1.077268217	2.41464386	0.020263226
MED4-AS1	0.276557183	0.126640801	0.603943394	0.001258106
MED15	1.368978125	1.045290375	1.792899994	0.022502377
MECP2	0.653417607	0.445956026	0.957391635	0.029008193
MECOM	0.852589086	0.739952498	0.982371137	0.027384795
MEAF6P1	0.030703321	0.002014104	0.468046347	0.012204584
MEAF6	0.642690548	0.470160179	0.878532804	0.005572122
MDH2	1.329812553	1.014470057	1.743177548	0.039018431
MDFI	1.226806587	1.094340445	1.375307299	0.000454295
MCTP2	0.745477293	0.578027982	0.961435108	0.023638408
MCOLN2	0.721081276	0.570651963	0.911165196	0.006157461
MCM8	1.291962459	1.023630699	1.630633974	0.031037377
MCM6	1.293177112	1.077258401	1.552373173	0.00580864
MCM5	1.479358496	1.182204508	1.85120387	0.000619265
MCM4	1.283214988	1.103847104	1.491728972	0.001170049
MCM2	1.193511382	1.029233815	1.38400954	0.019214797
MCM10	1.278414254	1.077065821	1.517403091	0.004969475
MCF2L-AS1	0.781261887	0.651386095	0.9370328	0.007788822
MCF2	1.663500471	1.113254691	2.485714941	0.013008983
MCEMP1	0.88080938	0.785648429	0.987496614	0.029580851
MCCC1-AS1	0.73632065	0.546791407	0.991544659	0.043811783
MCCC1	0.790647782	0.638795178	0.978598362	0.03086703
MC1R	1.348471179	1.021011935	1.780953245	0.035163142
MBTPS2	1.665925811	1.191791548	2.328686432	0.002819708
MBOAT1	0.830757155	0.697708946	0.989176725	0.037327166
MBL1P	0.611087398	0.454457786	0.821699659	0.001115287
MBIP	0.774035589	0.671596865	0.8920993	0.000405683
MB21D2	1.298762594	1.062776378	1.587148823	0.010617122
MAU2	0.662050203	0.469112506	0.93433977	0.018958044
MASTL	1.310488333	1.04160117	1.648788154	0.021008062
MAST3	0.655158863	0.4829229	0.88882332	0.00658222
MAS1L	0.070567899	0.007178414	0.693722647	0.022992379
MARVELD1	1.351118906	1.111083346	1.643011125	0.002565837
MARK2	1.388210776	1.019248008	1.890736253	0.037441973
9-Mar	0.774134082	0.619306595	0.967668651	0.024535753
4-Mar	1.766568071	1.415428628	2.204818164	4.83E-07
1-Mar	0.761832257	0.583350479	0.994922278	0.045788091
MAPRE3	0.684068459	0.556918035	0.840248702	0.000295843
MAPKAPK3	0.772344011	0.609792969	0.978225892	0.032148929
MAPK8IP1	0.821120825	0.680867973	0.990264538	0.039175669
MAPK6	1.365579852	1.10024275	1.694906267	0.004704386
MAPK4	1.317423105	1.125431787	1.542166889	0.000602791
MAPK1IP1L	1.816627644	1.30487322	2.529085545	0.000405837
MAPK13	0.747953351	0.576065957	0.971128755	0.029267662
MAP6	0.719169104	0.562914039	0.918797834	0.008350757
MAP4K4	1.417769284	1.157043678	1.737246209	0.000760402
MAP4K1	0.777056314	0.643487362	0.938350232	0.008762023

MAP3K8	0.70962155	0.564198137	0.892528195	0.003371229
MAP3K3	0.652159901	0.50070813	0.849422072	0.001522556
MAP3K19	0.678254592	0.475362747	0.967743676	0.032293308
MAP3K12	0.669870495	0.473915724	0.946848685	0.023250419
MAP3K1	0.713755568	0.541762243	0.940351634	0.016522748
MAP2K3	1.361091858	1.02940993	1.799643653	0.030512888
MAP2K1	1.390804015	1.005362536	1.924018191	0.04634215
MAOB	0.813092618	0.707701717	0.934178326	0.003486143
MAOA	0.880687294	0.78991578	0.981889627	0.022063484
MANSC1	1.211515788	1.01378785	1.447808342	0.034807207
MAN2B1	0.758317248	0.579976956	0.991496374	0.043135764
MAN1C1	0.739401507	0.572368446	0.955179471	0.020834899
MAMDC2	0.816116403	0.698885576	0.953011488	0.010220793
MALSU1	1.453017303	1.047906711	2.01473973	0.025053897
MALRD1	0.551303934	0.305905666	0.993561289	0.047539884
MAL	0.804940688	0.689481441	0.939734521	0.00601771
MAGOHB	1.458115628	1.06879375	1.98925301	0.017323448
MAGIX	0.752141522	0.580776506	0.974069824	0.030841079
MAGI3	0.802499603	0.658479922	0.978018601	0.029242183
MAGI1	0.752396221	0.569695741	0.993688443	0.045008271
MAGEH1	0.737601462	0.606480382	0.897070925	0.00230647
MAGEB6	2.925083124	1.024844541	8.348691866	0.044874806
MAGEB18	1384.020581	5.374636956	356398.5781	0.010657449
MAGEA8	1.251504377	1.07653565	1.454910672	0.003502996
MAFK	1.306815423	1.129749617	1.511632776	0.000315511
MAFF	1.273538503	1.010579145	1.60492162	0.040447755
MAD2L1	1.305173287	1.115466397	1.527143547	0.000888771
MAD1L1	1.367130364	1.026361699	1.82103973	0.03252895
MACROD2	0.840697632	0.716566537	0.986332003	0.033270739
MAATS1	0.725320442	0.554781104	0.948283457	0.018861574
LZTS3	0.80715744	0.684128174	0.952311508	0.011114543
LZTFL1	0.646713094	0.466182739	0.89715425	0.009059329
LYRM9	0.579944567	0.394933176	0.851626863	0.005448423
LYPD5	1.306575606	1.061902973	1.607623161	0.011480922
LYPD3	1.234718317	1.130907437	1.348058447	2.53E-06
LYL1	0.71135494	0.540895565	0.935533369	0.014820564
LYAR	1.643785837	1.267862956	2.131170302	0.000175896
LY9	0.524956567	0.355332129	0.775554405	0.00121012
LY86-AS1	0.010199234	0.000140914	0.738211256	0.035826005
LY86	0.83721208	0.727176608	0.963897984	0.013457967
LY6K	1.165758441	1.055360493	1.287704773	0.002515599
LY6G5C	0.570245728	0.368353396	0.882794062	0.011767094
LUZP2	0.447160345	0.220483186	0.906882638	0.025688359
LURAP1	0.414574223	0.250575916	0.685907043	0.000608977
LTBR	1.341896039	1.068565815	1.685141855	0.011385606
LTB	0.863861593	0.766179603	0.973997283	0.016834565
LTA4H	0.782866576	0.630233047	0.972465785	0.026946522
LST1	0.837603036	0.725650595	0.966827356	0.015486012
LSP1P2	0.41637352	0.258343153	0.6710722	0.00032077

LSM5	1.372611458	1.045289454	1.802431095	0.02268843
LSINCT5	0.177218806	0.032816987	0.957019768	0.044323295
LSAMP	0.710442341	0.542760502	0.929928244	0.012815612
LRRN3	0.594177769	0.399419276	0.883901309	0.01019999
LRRC8A	1.407001162	1.12640957	1.757488858	0.00262216
LRRC75A	0.740001944	0.575737911	0.951132221	0.018713344
LRRC66	1.33652308	1.100420833	1.623282556	0.003446178
LRRC61	1.262914175	1.007598808	1.58292388	0.042799854
LRRC59	1.404616944	1.053584302	1.872606451	0.020573072
LRRC56	0.765973132	0.621544988	0.943961982	0.012386577
LRRC48	0.671869277	0.493148847	0.915359182	0.01171996
LRRC43	0.757394929	0.574717469	0.998137536	0.048472556
LRRC42	1.350337574	1.05025508	1.736160671	0.019162489
LRRC3B	0.017272657	0.000672656	0.443532176	0.014249748
LRRC37B	0.521371237	0.335715391	0.809697662	0.00373339
LRRC37A14P	0.266195662	0.08435836	0.839989429	0.023985801
LRRC36	0.749902599	0.589729359	0.953579637	0.018890444
LRRC27	0.480158656	0.304695069	0.756665789	0.001569124
LRRC19	1.816047921	1.098797543	3.001490196	0.019939331
LRRC18	0.69208483	0.481391018	0.994994494	0.046916171
LRRC16B	0.590367144	0.373137225	0.934062165	0.024362524
LRRC10B	0.80326359	0.689583597	0.935684081	0.004895751
LRP5L	0.75409813	0.581758456	0.977491577	0.033012529
LRP2BP	0.450778322	0.283331413	0.717185198	0.000770872
LRP12	1.303319676	1.034580624	1.641865448	0.024543515
LRP11	1.275988289	1.028842669	1.582502518	0.026498184
LRP10	1.335839396	1.052758755	1.695038757	0.017167188
LRMP	0.688390736	0.542411832	0.873656837	0.002135433
LRIG1	0.695204524	0.583522754	0.828261327	4.73E-05
LRIF1	1.369695747	1.060547456	1.768960387	0.015936081
LRFN4	1.332934729	1.139913358	1.558640382	0.000317361
LRFN3	1.408275633	1.090248724	1.819071388	0.008751816
LRCH4	0.730809271	0.548645074	0.97345664	0.03204304
LPXN	0.78345751	0.644498506	0.952377179	0.014294163
LPL	0.892404059	0.810495556	0.982590217	0.020475407
LPIN1	0.787633861	0.622529131	0.996527019	0.046706717
LPGAT1	1.480115359	1.17036059	1.871851714	0.001063898
LPCAT1	0.860868847	0.767381834	0.965745003	0.010642294
LPAR6	0.718418567	0.574969089	0.897657366	0.00361409
LPAR3	0.850118893	0.72397292	0.998244702	0.047546265
LPAL2	0.654696277	0.462062357	0.927639331	0.017198808
LOXL2	1.3074432	1.157874298	1.47633273	1.53E-05
LOX	1.204866763	1.051131394	1.381087012	0.007451079
LONRF2	0.78600113	0.620221186	0.996092667	0.046331945
LOH12CR2	0.565899663	0.325985653	0.982381972	0.043060038
LOH12CR1	1.349436968	1.005722865	1.810618208	0.045715637
LNK2	0.761681623	0.599415096	0.967875014	0.025941027
LNK1-AS2	2.143876206	1.153918341	3.983128636	0.015824552
LNP1	0.655934818	0.446692636	0.963191355	0.031453479

LMOD3	0.049463429	0.006126181	0.399372904	0.004783429
LMOD1	0.846750927	0.719485668	0.996527332	0.045303393
LMO7DN-IT1	0.495297954	0.287052752	0.854616654	0.011588473
LMO7DN	0.241861462	0.093656794	0.624588611	0.003364636
LMO3	0.868876268	0.784722228	0.962055032	0.006846401
LMNB2	1.347114791	1.119452588	1.621076479	0.001607046
LMNB1	1.283433727	1.096693506	1.501971265	0.001867924
LMF1	0.75455893	0.57484631	0.990454611	0.042451338
LMBRD1	0.746788725	0.569585019	0.979122311	0.034632633
LMAN1	1.347907581	1.05171101	1.727522891	0.018363424
LLPH	1.436500791	1.044223811	1.976141993	0.02602119
LLNLR-285B5.1	0.367320726	0.143162135	0.942459511	0.037229909
LLNLR-276E7.1	0.035564793	0.001995974	0.633702875	0.023184135
LLNLF-187D8.1	0.153362411	0.03901835	0.60279405	0.007257975
LL22NC03-75H12.2	0.775707351	0.624099613	0.964143994	0.022075766
LL22NC03-75A1.9	21.78268618	1.415219103	335.2734684	0.02717865
LL22NC03-22A12.9	16563.20324	1.125677964	243710644	0.047239946
LL22NC03-22A12.12	1.774770555	1.241953587	2.536174102	0.001634735
LL22NC03-102D1.18	2.997367403	1.272761507	7.058833331	0.012009765
LLOXNC01-36H8.1	0.563410344	0.321234702	0.988159788	0.045336918
LLOXNC01-220B11.1	9363.436159	1.369652771	64011798.15	0.042378391
LIPT1	0.610910345	0.400407872	0.932078202	0.022237405
LIPK	1.328763303	1.017694933	1.734912749	0.036720158
LINGO3	0.396612955	0.169360765	0.928797386	0.033163525
LINGO2	2.68968167	1.814043113	3.987990932	8.50E-07
LINC01570	11016.96162	2.86652557	42341657.31	0.027103317
LINC01559	1.182254613	1.013020779	1.379760413	0.03366247
LINC01537	4.625270633	2.468285383	8.667202172	1.75E-06
LINC01524	46.18996754	7.806577931	273.2968427	2.38E-05
LINC01520	1.21E+17	18.6329969	7.80E+32	0.03422319
LINC01513	0.668045672	0.450665558	0.990279847	0.044579652
LINC01499	11334.67788	4.395733459	29227186.72	0.019837382
LINC01480	0.629851307	0.444342854	0.892807581	0.009406142
LINC01478	423.3369436	55.60392116	3223.049095	5.23E-09
LINC01477	5.245773377	2.27975108	12.07067674	9.70E-05
LINC01468	1.354086025	1.141247709	1.606617869	0.00051223
LINC01446	1.482028064	1.061256779	2.069628411	0.020949537
LINC01431	0.666948929	0.445507389	0.998459028	0.049130791
LINC01420	1.352946588	1.052798425	1.738665663	0.018176699
LINC01412	0.268005244	0.092125784	0.779660236	0.015657773
LINC01374	0.258763432	0.106308665	0.629850011	0.00289681
LINC01363	9.867300044	1.259640893	77.2947359	0.029275835
LINC01353	0.401518147	0.171513482	0.939965886	0.035498713
LINC01352	0.191305027	0.076308726	0.479599322	0.000420374
LINC01351	2.545598279	1.512559639	4.284175268	0.00043486
LINC01338	1.798699266	1.00984628	3.203773796	0.046236147
LINC01337	0.189986089	0.05060621	0.713246732	0.013869123
LINC01322	2.327918462	1.698177408	3.191188589	1.52E-07
LINC01315	0.765677306	0.609517804	0.961845138	0.02177665

LINC01312	7.404668023	3.872762228	14.15762324	1.41E-09
LINC01290	0.571565386	0.342041203	0.955110051	0.032737667
LINC01281	0.353557095	0.157250672	0.794925821	0.011897733
LINC01269	1.260816453	1.037449988	1.532274468	0.019831948
LINC01262	27.42626124	1.435686596	523.930367	0.027789209
LINC01259	0.006101414	5.92E-05	0.629356599	0.031105267
LINC01235	1.513849135	1.087331396	2.107673163	0.014055453
LINC01234	1.36708418	1.083190416	1.725383762	0.008467709
LINC01225	0.280227245	0.083178532	0.944081451	0.040090207
LINC01221	1.711528211	1.068626705	2.741208698	0.02534134
LINC01215	0.605202369	0.4182667	0.875685076	0.007716715
LINC01201	55.43688529	1.591212852	1931.387273	0.026666883
LINC01179	5.779740558	1.526388112	21.88526014	0.009808765
LINC01177	15598558.28	14.99582538	1.62E+13	0.019128632
LINC01170	0.093789971	0.022919689	0.383799226	0.000994749
LINC01152	4.295958035	1.831028519	10.07917422	0.000807703
LINC01150	0.519720011	0.352770472	0.765678852	0.000931296
LINC01144	0.546462759	0.352549636	0.847034054	0.006884502
LINC01137	1.318231325	1.080877304	1.607706833	0.006375519
LINC01132	0.630957652	0.398709362	0.99849062	0.049250815
LINC01128	0.551705626	0.305432686	0.996550506	0.048676087
LINC01125	0.555736356	0.356881339	0.865393798	0.009329295
LINC01120	175.7698884	1.617070172	19105.57391	0.030704886
LINC01117	2.252059848	1.640534284	3.091537684	5.11E-07
LINC01116	1.475403942	1.264028587	1.722126235	8.23E-07
LINC01111	134541235.5	2.853923291	6.34E+15	0.037866741
LINC01096	2.120397415	1.08566245	4.141328826	0.027763802
LINC01082	0.419874932	0.178731874	0.986365522	0.046429421
LINC01066	18194.63701	13.29654626	24897052.92	0.007762204
LINC01059	1.839331691	1.381406449	2.449055506	3.02E-05
LINC01034	0.055573759	0.003565532	0.866194082	0.039162345
LINC01031	0.117219579	0.02213052	0.620881455	0.011725142
LINC01028	60.84125704	2.595243904	1426.323958	0.010695557
LINC01015	8.44E+26	16363513.14	4.35E+46	0.007423454
LINC01003	0.738158777	0.571446964	0.953506476	0.020099659
LINC00996	0.504710368	0.330426642	0.770920147	0.001557493
LINC00987	0.538075929	0.327636292	0.883680204	0.014344546
LINC00982	0.645830195	0.474739153	0.878580664	0.005364031
LINC00977	2.458517395	1.178494083	5.12884016	0.016496968
LINC00968	0.350762801	0.183472277	0.670589283	0.001532189
LINC00959	0.554038985	0.339453805	0.904273843	0.018150515
LINC00957	0.67775133	0.471000109	0.975258512	0.036180813
LINC00951	2.023909796	1.067295571	3.837934847	0.030815675
LINC00941	1.649725575	1.390169274	1.957743222	9.94E-09
LINC00930	0.676483684	0.475031935	0.963367178	0.030244677
LINC00926	0.70672534	0.543044741	0.919741356	0.009812116
LINC00921	0.427722345	0.234472839	0.780245613	0.005622324
LINC00908	0.320622191	0.167383769	0.614149092	0.000603474
LINC00892	0.338832094	0.188686779	0.608453799	0.000290804

LINC00891	0.104781577	0.015419902	0.712013515	0.021033847
LINC00877	0.108620018	0.016936451	0.696622228	0.019220031
LINC00865	0.681639081	0.503848731	0.922165339	0.012938447
LINC00862	1.384395095	1.059361807	1.809155067	0.017203325
LINC00861	0.603700367	0.408357994	0.892486833	0.011399031
LINC00857	1.596283249	1.26019314	2.022007683	0.000105644
LINC00854	0.564721767	0.333524015	0.95618504	0.033443809
LINC00847	0.644302848	0.490345465	0.846599367	0.001603505
LINC00836	8.394846032	1.553394126	45.36739177	0.013450297
LINC00707	1.576100405	1.34034868	1.853318112	3.72E-08
LINC00704	1.480825931	1.126548563	1.946516564	0.004891936
LINC00703	4.584021472	1.246007442	16.86446817	0.021969413
LINC00700	98799405451	5.285648424	1.85E+21	0.035910408
LINC00687	91.97654666	2.787849423	3034.484239	0.01125377
LINC00686	20.42149782	1.402261841	297.4034956	0.027289263
LINC00683	0.211927185	0.074995201	0.598880075	0.003419454
LINC00680	0.710425111	0.548889574	0.919499771	0.009387529
LINC00670	2.53E-05	3.99E-09	0.160922279	0.017842301
LINC00667	0.718867035	0.522097288	0.989796013	0.043091897
LINC00659	1.415121287	1.127355737	1.776341036	0.002758537
LINC00654	0.673567926	0.492426565	0.921342965	0.013415085
LINC00645	2.761211845	1.123355344	6.78706955	0.026865828
LINC00639	0.080685843	0.015817201	0.411590212	0.002463853
LINC00628	4.973956934	1.910606458	12.9488977	0.001015544
LINC00615	54.49865897	1.364465979	2176.751839	0.033574653
LINC00602	3.003763962	1.255910644	7.184108184	0.013431594
LINC00598	4.276607856	1.570256203	11.64738259	0.004473599
LINC00592	1.674754098	1.259193964	2.227457698	0.000394325
LINC00582	0.735101851	0.54094772	0.99894077	0.049213554
LINC00578	0.730323303	0.59909912	0.890290287	0.001871306
LINC00575	3154.972338	2.5950947	3835640.547	0.026209227
LINC00563	0.016237359	0.000539609	0.488598013	0.017676729
LINC00551	0.431050401	0.212735777	0.873404797	0.019509975
LINC00547	8.50E+17	112.1347139	6.44E+33	0.026900799
LINC00543	1.432926047	1.119208674	1.83457929	0.004327077
LINC00539	0.272534361	0.129064723	0.575486284	0.000652414
LINC00536	7.029124868	1.12112224	44.07065942	0.037339603
LINC00533	9.438419299	3.05341626	29.17511118	9.67E-05
LINC00528	0.456312817	0.232270929	0.896459097	0.022773585
LINC00526	0.611866043	0.422646004	0.885800532	0.009258504
LINC00520	2.487084718	1.338541381	4.621142448	0.003946385
LINC00483	2.096600334	1.160261532	3.788570802	0.014192065
LINC00476	0.488121122	0.258320285	0.922351994	0.027180842
LINC00473	1.169155569	1.033305133	1.3228665	0.013144522
LINC00472	0.365952384	0.141396586	0.947131403	0.03827316
LINC00463	1095.27396	1.145896316	1046887.952	0.04562358
LINC00460	1.17538736	1.052750238	1.312310742	0.004049049
LINC00454	2.463265202	1.177208427	5.154291555	0.016709301
LINC00448	559.1974875	25.2813577	12368.87013	6.21E-05

LINC00426	0.541135038	0.342112339	0.855938521	0.008667849
LINC00339	0.749422266	0.581349994	0.966085384	0.02599704
LINC00336	0.338594388	0.120404937	0.952171586	0.040085336
LINC00324	0.523224311	0.375783984	0.728513432	0.000125274
LINC00319	19.43443641	3.014741841	125.2834699	0.001804944
LINC00317	36935.43813	161.5375046	8445262.248	0.000147902
LINC00265-3P	7.00E+49	5.75E+11	8.52E+87	0.010312846
LINC00264	0.10658665	0.01551036	0.732459706	0.022812334
LINC00261	0.850589125	0.749042122	0.965902768	0.012602969
LINC00240	0.298338361	0.129856803	0.685414826	0.004371743
LINC00211	0.001450846	5.06E-06	0.415900125	0.02358314
LINC00165	1.760003341	1.115347122	2.777262522	0.015139617
LINC00162	1.23856355	1.040215262	1.474732897	0.016272367
LINC00161	0.026390683	0.000798043	0.872719907	0.041727089
LINC00115	0.639585181	0.428452897	0.954758872	0.028782651
LINC00094	0.695249	0.484329934	0.998020436	0.048757375
LINC00092	0.413200551	0.218368667	0.781864441	0.006603359
LINC00032	0.005238336	4.68E-05	0.586440097	0.029134223
LINC-ROR	65.77922847	2.868130567	1508.615733	0.008813749
LINC-PINT	0.723446723	0.558952197	0.936350485	0.01390765
LIN9	1.432965001	1.073537944	1.91273043	0.014623927
LIMS2	0.771064287	0.597343759	0.995306514	0.045924764
LIMD1-AS1	0.079350515	0.008158315	0.771789842	0.029024667
LIMD1	0.713551713	0.561253132	0.907177204	0.005864718
LIMCH1	0.819222764	0.697562184	0.96210195	0.015057961
LILRB3	0.727790836	0.54039597	0.980169228	0.036453688
LILRB1	0.791186763	0.636148963	0.984009296	0.035306498
LILRA4	0.558414523	0.375875343	0.829601584	0.003915068
LIFR-AS1	0.382558263	0.22394977	0.653498436	0.000436242
LIFR	0.73152429	0.61707445	0.867201337	0.00031659
LHX5	1.434404908	1.003945551	2.049431304	0.047524678
LHX2	1.341276475	1.052089417	1.709952171	0.017798267
LHFPL3-AS2	0.866738661	0.75292403	0.99775791	0.04645722
LGR4	1.285734346	1.095068557	1.509597549	0.002148517
LGI3	0.821025123	0.687561848	0.980395079	0.029352954
LGALS17A	1.391667273	1.039174669	1.863726912	0.026566713
LETM2	1.722329046	1.287938589	2.303228872	0.00024597
LETM1	1.475165851	1.08767891	2.000695488	0.012400369
LEO1	1.447283412	1.033416976	2.026896521	0.031457168
LEF1	0.779382397	0.608692316	0.997937553	0.048116957
LECT2	611.6985187	10.13047247	36935.59987	0.002164346
LDLRAP1	0.764882819	0.594574442	0.98397389	0.037007592
LDLRAD4-AS1	0.000813793	3.31E-06	0.200178801	0.011320961
LDLRAD4	0.656332261	0.478279662	0.900669777	0.009110675
LDLRAD3	1.696797306	1.394664474	2.064382619	1.26E-07
LDLRAD2	0.616910183	0.385215371	0.987962067	0.044392081
LDHD	0.80495908	0.697021108	0.929611906	0.003141295
LDHAP5	1.748298882	1.252354888	2.440641235	0.00103087
LDHAP4	1.213100655	1.015926882	1.448542435	0.032796689

LDHAP3	1.434217348	1.06550876	1.930513834	0.017384926
LDHA	1.733831391	1.404333753	2.140638781	3.09E-07
LDB2	0.772378547	0.613718061	0.972056483	0.027697733
LDB1	0.601178836	0.446922119	0.808677794	0.000769159
LCP2	0.833418123	0.696397532	0.997398376	0.046768573
LCP1	0.882991879	0.779759263	0.999891499	0.049800392
LCN10	0.099366828	0.010576172	0.933586035	0.043374157
LCK	0.813310891	0.687082426	0.962729624	0.016334475
LCE6A	47414001.03	24.36121046	9.23E+13	0.016751648
LCE5A	45.06118026	6.441974776	315.199925	0.000124571
LCE3E	1.800850909	1.03900484	3.121317507	0.036053882
LCA5	0.638903897	0.483217617	0.844750222	0.001666796
LBR	1.324488854	1.032176417	1.699584193	0.027182341
LBH	0.841753694	0.716829056	0.988449444	0.035579271
LAX1	0.766745167	0.635112365	0.925660061	0.005713334
LATS2	1.346788828	1.024159517	1.771052378	0.033104042
LARP6	1.291959382	1.042539256	1.601051506	0.019251792
LARP1	1.366187549	1.054552386	1.769915314	0.018173607
LARGE	0.815965195	0.666630905	0.998752374	0.048601742
LANCL2	1.383425932	1.08697252	1.760732011	0.008346379
LANCL1-AS1	0.576161411	0.357144408	0.929489483	0.023844538
LAMTOR3P2	0.316390691	0.119718657	0.836152624	0.020294776
LAMP3	0.898365366	0.811257945	0.994825796	0.039431519
LAMC2	1.208478654	1.096782472	1.33154996	0.000129739
LAMC1	1.283603963	1.04936027	1.570136759	0.015155892
LAMB3	1.135276893	1.006682195	1.280298421	0.03858876
LAMB1	1.316586077	1.118495598	1.549759249	0.000946289
LAMA3	1.182632222	1.061449866	1.317649583	0.002356741
LAMA2	0.801562665	0.662416606	0.9699375	0.022982241
LAD1	1.215623466	1.029764017	1.435028206	0.021087668
LA16c-OS12.2	0.745719988	0.5613685	0.990611873	0.042860545
LA16c-390H2.4	0.37623496	0.150519088	0.940430529	0.036495702
LA16c-390E6.3	0.174835183	0.049434403	0.618341473	0.006813275
LA16c-380H5.5	0.768575326	0.612382305	0.964606629	0.023156204
LA16c-380H5.4	1.353496232	1.103978473	1.659409216	0.003597801
LA16c-380H5.3	1.339139587	1.029620147	1.741705266	0.029433458
LA16c-380H5.2	0.497421985	0.281431009	0.879180415	0.016257809
LA16c-380F5.1	0.034234386	0.001430158	0.819485041	0.037265758
LA16c-335H7.2	1.634462994	1.247995393	2.140608284	0.000357694
LA16c-313D11.12	0.534676024	0.316686183	0.902718419	0.01913166
LA16c-306A4.1	0.677857777	0.466394922	0.985197617	0.041536302
L3MBTL4-AS1	0.39054064	0.154853265	0.984945275	0.046359668
L3MBTL3	1.391182509	1.045743926	1.850729157	0.023383729
L1CAM	1.197394925	1.026891669	1.396208236	0.021530637
KYNU	1.324396462	1.174611924	1.493281273	4.47E-06
KTN1-AS1	1.647878824	1.06374345	2.552781519	0.025307655
KTN1	1.29230413	1.008219797	1.65643441	0.042908714
KSR2	0.486626248	0.248136006	0.95433593	0.036084176
KSR1	0.78643555	0.653757057	0.946040839	0.0108235

KRTAP16-1	3.470948757	1.26525396	9.52179219	0.015653018
KRTAP10-12	10570521.19	3.254672078	3.43E+13	0.034495905
KRT9	2.284439063	1.173914237	4.445522225	0.015015884
KRT8P9	4.140084493	1.507255437	11.3718612	0.005854503
KRT8P8	2.260051931	1.328384707	3.845147195	0.002636137
KRT8P7	3.557794698	1.522653392	8.313056132	0.003379106
KRT8P51	2.628755646	1.161922721	5.947345828	0.020327759
KRT8P5	19.51402667	4.566645844	83.38663651	6.08E-05
KRT8P49	9.917272099	2.597530762	37.86376173	0.000789478
KRT8P47	82268300.27	17.31459993	3.91E+14	0.020152474
KRT8P45	1.379047223	1.088219526	1.747598897	0.007824107
KRT8P42	3.477554452	1.525801927	7.925920628	0.003024843
KRT8P37	3.071340003	1.162564071	8.114072716	0.023583064
KRT8P36	2.008756563	1.137982557	3.545838998	0.016137967
KRT8P33	2.148740381	1.396409558	3.306397612	0.000504291
KRT8P32	3.376017263	1.296752261	8.78925983	0.012693194
KRT8P3	1.285740294	1.081729665	1.528226651	0.004355814
KRT8P25	39.31748098	1.09996638	1405.374145	0.044200972
KRT8P24	4.092037898	1.409695504	11.87829153	0.009556075
KRT8P21	2971.931004	9.617509001	918363.9847	0.006261309
KRT8P20	36.25424188	4.53419011	289.879785	0.000711469
KRT8P2	241.9711614	14.32392645	4087.569366	0.000141484
KRT8P18	130.2095663	9.875344521	1716.85465	0.000215381
KRT8P13	4.684874097	1.925347802	11.39952235	0.000664336
KRT8P12	1.302102556	1.011382932	1.676388846	0.040582968
KRT8P11	1.452289736	1.087964395	1.938616271	0.011339318
KRT86	1.27480233	1.090053924	1.490862923	0.002370431
KRT85	10.85960953	1.924602503	61.27557189	0.006901262
KRT83	1.316136998	1.064179702	1.627748204	0.011286358
KRT81	1.144631326	1.071788997	1.22242426	5.66E-05
KRT80	1.163559682	1.022873768	1.323595516	0.021226343
KRT8	1.468128943	1.233149279	1.747884567	1.60E-05
KRT7	1.226883793	1.060399807	1.419505957	0.005993036
KRT6C	1.45671954	1.126324918	1.88403167	0.004151814
KRT6B	1.146550795	1.03048151	1.275693657	0.012027127
KRT6A	1.155784859	1.094348355	1.220670397	2.05E-07
KRT33A	1.3689783	1.006204658	1.86254513	0.045571481
KRT19P6	9890.327734	5.262837327	18586662.78	0.016769631
KRT19P1	1.63541237	1.08386093	2.467635418	0.019096085
KRT18P68	9.007297788	2.082964091	38.94998181	0.003259085
KRT18P65	10.74444637	1.428251368	80.82829841	0.021100898
KRT18P64	386.1704746	7.621656199	19566.30311	0.002938734
KRT18P58	44.17460888	1.055645074	1848.534246	0.046768771
KRT18P55	9.252417073	2.001804371	42.76502886	0.00439161
KRT18P54	41.19479891	2.083025075	814.6860436	0.014611149
KRT18P51	75.73097843	7.396104462	775.4326786	0.000266495
KRT18P50	48.29014485	1.097890587	2124.016836	0.044607302
KRT18P47	3155.420743	9.138224819	1089563.921	0.006893829
KRT18P45	1023712.24	73.21778064	14313282128	0.004489779

KRT18P44	77340.99907	9.719473986	615427351.8	0.014041066
KRT18P41	166.3860331	8.099372611	3418.081048	0.000911889
KRT18P40	346.3999205	10.54593536	11378.11876	0.001029888
KRT18P39	3.969982215	1.03333556	15.25231435	0.044673611
KRT18P38	3.485823937	1.297609635	9.36411706	0.013260751
KRT18P37	18.59472557	2.139988278	161.5727631	0.008057667
KRT18P3	22.3688077	1.093373853	457.6326352	0.043598626
KRT18P29	156.0159545	13.14176558	1852.18477	6.32E-05
KRT18P28	3.177931363	1.703598856	5.928184157	0.000278339
KRT18P24	5724.382708	63.62052067	515062.7037	0.000163939
KRT18P23	14.46031898	3.072262734	68.06085392	0.000724408
KRT18P22	26.69239912	1.062464177	670.595947	0.045846762
KRT18P21	50.96541616	4.720555695	550.2474312	0.001201953
KRT18P2	1156.944212	18.89288237	70847.84016	0.000780034
KRT18P19	28.63241258	8.840652534	92.73241394	2.21E-08
KRT18P18	13.07867349	1.763584941	96.99090539	0.01190503
KRT18P17	3.832627591	1.982408681	7.409690237	6.48E-05
KRT18P16	3.163971599	1.330600684	7.523456436	0.009153528
KRT18P14	219.6015393	10.30638868	4679.120646	0.000551133
KRT18P13	3.444159643	1.711716198	6.930024769	0.000526921
KRT18P11	1.998495578	1.292638262	3.089792942	0.001841828
KRT18P10	2.645977759	1.587682082	4.409697874	0.000188571
KRT18P1	6.366180747	1.329759082	30.47789473	0.020522304
KRT18	1.469406811	1.234949916	1.748375661	1.43E-05
KRT17P3	1.783876904	1.054300263	3.018321176	0.031003586
KRT17	1.097300126	1.024694882	1.17504985	0.007851371
KRT16	1.142319932	1.05136745	1.241140599	0.001670755
KRT14	1.148873682	1.04288143	1.265638356	0.00495175
KRT1	0.465536371	0.226062183	0.958692472	0.038040296
KREMEN2	1.353917399	1.056146572	1.735641975	0.016801033
KRBOX4	0.626343081	0.416769957	0.941300227	0.024384477
KRBA1	0.68650435	0.486392274	0.968946769	0.032404435
KRAS	1.327408755	1.072726213	1.64255705	0.009163941
KPNB1	1.356833045	1.026533053	1.793411236	0.032036891
KPNA5	0.596063471	0.409665342	0.867272931	0.006846438
KPNA4	1.705285365	1.218077582	2.387366964	0.001876337
KPNA2	1.353263936	1.159398529	1.579545975	0.000125674
KPNA1	1.430359524	1.011723943	2.022219976	0.042771132
KNSTRN	1.341891133	1.108120227	1.624978743	0.002602276
KNOP1	1.500544576	1.050886442	2.142604504	0.025543923
KNDC1	0.822814939	0.688242448	0.983700477	0.032328963
KMT2E-AS1	0.812752354	0.668151358	0.988647829	0.038062196
KMT2E	0.680092808	0.505749358	0.91453646	0.010737132
KMT2C	0.749765591	0.582441201	0.965159127	0.02540453
KLRG2	0.788521552	0.638279065	0.974129142	0.027594939
KLRG1	0.496141622	0.320262495	0.768608604	0.00169893
KLRC3	2.287232172	1.038666532	5.036680058	0.039960482
KLRC2	1.53931778	1.103986931	2.146310938	0.010982215
KLRB1	0.754918691	0.631276391	0.902777671	0.002065098

KLK8	1.200435509	1.07386328	1.341926331	0.001311231
KLK6	1.123800405	1.0341982	1.221165682	0.005902265
KLK13	0.863156267	0.752435953	0.99016898	0.035639445
KLK11	0.894062081	0.824364004	0.96965297	0.006847966
KLHL9	0.745299216	0.588864814	0.943291073	0.014458943
KLHL8	0.643437935	0.443462416	0.933590674	0.020243227
KLHL6	0.712744925	0.569238285	0.892430009	0.003156138
KLHL42	1.342915563	1.000241763	1.802986314	0.049812309
KLHL4	1.469620023	1.072794356	2.013231147	0.016505725
KLHL35	0.750693648	0.594595201	0.947772454	0.015910715
KLHL32	0.423109388	0.246873246	0.725155751	0.001753508
KLHL26	0.670341306	0.473172395	0.949669657	0.024414845
KLHL24	0.760553923	0.579791757	0.997672463	0.048064958
KLHL11	0.673154103	0.48685915	0.930734171	0.016657073
KLHL1	259.7324951	21.68714139	3110.643666	1.14E-05
KLHDC9	0.751134096	0.628144429	0.898204942	0.001708643
KLHDC8B	0.633197745	0.516460543	0.776321425	1.11E-05
KLHDC7A	0.783111217	0.666841451	0.919653655	0.002869613
KLHDC1	0.604141112	0.396265346	0.921065864	0.019175611
KLF5	1.244531221	1.062077958	1.458327939	0.006839311
KLF4	1.155861677	1.012810145	1.319118121	0.031650581
KLF15	0.800802319	0.684262978	0.937189903	0.005633514
KLF14	4.904515135	2.508448028	9.589303205	3.35E-06
KLF10	1.329517984	1.056426415	1.673205103	0.015187226
KLC4	0.68973749	0.520598473	0.913828661	0.009660473
KL	0.630253097	0.455589898	0.871878346	0.005303435
KITLG	0.822469481	0.706649376	0.957272545	0.011607479
KIT	0.873658312	0.793201496	0.962276106	0.00614251
KIRREL3	1.564277179	1.026612709	2.38353088	0.037324822
KIR3DL2	0.376510588	0.154591261	0.917000237	0.031496319
KIR2DL1	0.30783149	0.10494639	0.902939365	0.031879045
KIFC1	1.216917773	1.068563591	1.38586873	0.00307908
KIF4A	1.318787916	1.146095595	1.517501311	0.000111456
KIF2C	1.228546277	1.081474302	1.395618881	0.00155649
KIF23	1.331130474	1.13718014	1.558159763	0.000370964
KIF20B	1.455175076	1.157838474	1.828868663	0.001296969
KIF20A	1.381915259	1.180291445	1.617981551	5.82E-05
KIF19	0.711980326	0.547011812	0.926700254	0.011536103
KIF18B	1.197819213	1.039986835	1.379604837	0.012285439
KIF18A	1.629318124	1.288459026	2.060350773	4.57E-05
KIF15	1.238172415	1.016864437	1.507645339	0.033467976
KIF14	1.483223959	1.227639286	1.792019316	4.40E-05
KIF11	1.324318256	1.13730774	1.542079404	0.000298648
KIDINS220	0.755428198	0.589591033	0.967911195	0.026563519
KIAA1549L	1.735894093	1.234973624	2.439994057	0.001498931
KIAA1524	1.266190805	1.054438152	1.520467703	0.011482063
KIAA1328	0.312579095	0.161292866	0.60576573	0.000571371
KIAA1324	0.856658775	0.783344011	0.936835218	0.000700598
KIAA1244	0.791690461	0.662400444	0.94621583	0.010238178

KIAA1161	1.341393455	1.089951895	1.650840196	0.005549905
KIAA1147	0.771594387	0.607593912	0.979861527	0.033434027
KIAA1109	0.711852115	0.547490564	0.925556469	0.011164074
KIAA0895L	0.82407714	0.681311961	0.996757979	0.046215611
KIAA0408	0.048040211	0.004325932	0.533494647	0.013455062
KIAA0319	1.214769098	1.045365033	1.411625523	0.011118708
KIAA0226L	0.558165997	0.395302685	0.78812842	0.000924423
KIAA0125	0.643434186	0.475685476	0.870338854	0.004222371
KIAA0101	1.304912968	1.121265709	1.518639016	0.00058392
KHDRBS2	0.703985026	0.559661853	0.885525632	0.002712539
KHDRBS1	1.723830461	1.12620974	2.638577305	0.0121689
KF459411.1	34750.61205	4.705853091	256617666.2	0.021404652
KEL	0.451116706	0.210456124	0.966977245	0.040728229
KDM8	0.500074306	0.2857506	0.87514886	0.015223316
KDM4C	0.498691184	0.302374654	0.822466083	0.006418165
KDM4A	0.70593589	0.517752676	0.962516476	0.027701554
KDELC1	1.27026462	1.018074902	1.584924844	0.034123603
KCTD7	0.581197261	0.404296388	0.835501543	0.003384094
KCTD3	1.282090323	1.053788749	1.559853053	0.013005899
KCTD15	1.280866165	1.042831183	1.573234633	0.018286144
KCTD12	0.850724286	0.741635782	0.97585881	0.020944308
KCP	1.257735051	1.006038188	1.572402993	0.044135128
KCNV1	2.856536453	1.840800084	4.432746705	2.84E-06
KCNS2	0.065886819	0.006019298	0.721192583	0.025902514
KCNRG	0.582858849	0.378963849	0.896456057	0.013986758
KCNQ1DN	106.2775853	1.691694567	6676.692918	0.027186006
KCNQ1-AS1	4.647205545	1.66846963	12.94390919	0.003288229
KCNQ1	0.846984604	0.753882836	0.951584099	0.005185656
KCNN4	1.104543875	1.000225582	1.219742019	0.049481388
KCNK5	0.846129759	0.751895297	0.952174553	0.005546697
KCNK3	0.805904992	0.688522978	0.943298737	0.007215242
KCNK2	1.444612344	1.067713515	1.954555031	0.017091681
KCNK17	0.775412408	0.605047198	0.993747934	0.044482865
KCNK16	0.312354581	0.117391902	0.8311083	0.019781385
KCNK1	1.169385788	1.015696648	1.346330249	0.02950987
KCNJ15	0.869630421	0.773104754	0.978207758	0.019964763
KCNJ14	1.628099386	1.083109179	2.447313403	0.019084348
KCNJ11	0.800406843	0.666029401	0.961896146	0.01758409
KCNIP4	0.310145468	0.127152466	0.756495057	0.010071352
KCNG4	316557290.4	53.38129359	1.88E+15	0.013900305
KCNG1	1.875025143	1.368159678	2.569670297	9.25E-05
KCNF1	1.345367533	1.136384213	1.592783302	0.000572477
KCNE1	0.399805632	0.179336855	0.891308948	0.025008991
KCNAB2	0.797073799	0.646544034	0.982650224	0.033682264
KCNAB1	0.462986537	0.237880843	0.901108852	0.023424592
KCNA5	0.459954045	0.252298167	0.838522633	0.011252284
KCNA3	0.783848048	0.649269551	0.946321543	0.011275631
KCNA2	0.078560217	0.010886812	0.566897605	0.011640962
KCMF1	1.574844548	1.101263625	2.252081422	0.012828495

KBTBD8	0.540462022	0.36684265	0.796252009	0.001855756
KBTBD3	0.62397107	0.411610036	0.945895051	0.026282308
KB-176G8.1	4.138880032	1.227191754	13.95896596	0.02201957
KB-173C10.2	1.586768238	1.013654743	2.483916204	0.043458119
KB-1732A1.1	2.543106576	1.643703058	3.93464685	2.77E-05
KB-1572G7.3	0.306843261	0.10524064	0.894642859	0.030473837
KB-1568E2.1	72926813.91	4.059701534	1.31E+15	0.03363967
KB-1562D12.1	0.77436847	0.627658158	0.9553712	0.017034291
KB-1448A5.1	0.023487112	0.001335528	0.413053389	0.010335807
KB-1247B1.1	7.972119585	1.017590464	62.4560596	0.048090626
KAT8	0.618660981	0.441465005	0.866980179	0.005287193
KAT2B	0.72272135	0.566450743	0.922103389	0.008991582
KARS	1.399241763	1.007702042	1.942913112	0.04488024
KANK1	0.678331533	0.513781617	0.895582194	0.006182796
KAL1	0.784195904	0.676070214	0.90961442	0.001320567
JPH4	0.303767647	0.129330473	0.713480598	0.006240542
JPH1	0.829517418	0.703923513	0.977519765	0.025654484
JOSD1	1.608479114	1.206174905	2.144966744	0.00121047
JMJD7-PLA2G4B	0.634569563	0.440977088	0.913150686	0.014316094
JAZF1-AS1	0.000452982	5.76E-07	0.356312205	0.023616981
JAM2	0.711645967	0.545745941	0.927977551	0.012007778
JAGN1	1.432039773	1.054026186	1.945623305	0.021649995
JAG1	1.32097208	1.122413243	1.554656671	0.000809548
IZUMO4	0.728255278	0.557509375	0.951294765	0.020004801
IZUMO3	29786.78894	171.6496357	5168975.699	9.01E-05
IZUMO1	0.204798776	0.051372718	0.816436038	0.024614815
IVD	0.651040765	0.527068655	0.804172425	6.83E-05
ITPR2	0.786209542	0.641624196	0.963376145	0.02035095
ITPR1-AS1	0.527698116	0.315184512	0.883499318	0.015056049
ITPKC	1.308316124	1.051707507	1.627535288	0.015841279
ITPKB	0.741582943	0.595783969	0.923061529	0.007433736
ITPKA	1.103372958	1.007557803	1.208299793	0.033803014
ITM2BP1	0.119017215	0.025112635	0.564062574	0.00733464
ITK	0.701487021	0.536520258	0.917177	0.009541908
ITI4-AS1	0.116182792	0.027330001	0.493905622	0.003553177
ITGB7	0.737230101	0.575265738	0.94479505	0.016012292
ITGB4	1.177477816	1.057213215	1.311423266	0.002957745
ITGB1P1	1.246380327	1.050063608	1.479399826	0.011782347
ITGB1	1.40396976	1.157824756	1.702443376	0.000560601
ITGAX	0.847834315	0.726322669	0.989674502	0.036485935
ITGAL	0.794240678	0.677905051	0.930540721	0.004360357
ITGA9-AS1	0.281092944	0.104234318	0.758034831	0.012166453
ITGA9	0.785060929	0.665667162	0.925869109	0.004039791
ITGA8	0.754829352	0.624856292	0.911837422	0.003531702
ITGA6	1.283225594	1.139489387	1.445092814	3.88E-05
ITGA5	1.249647772	1.081141307	1.444417622	0.00256425
ITGA4	0.749972142	0.605756725	0.928521619	0.00827604
ITGA2	1.120380952	1.007612889	1.245769572	0.035721545
ITFG2	0.688864456	0.485232929	0.977951433	0.037099523

ISM2	1.782952296	1.041655424	3.051795072	0.034962624
ISL2	1.863011034	1.188513505	2.920295057	0.006667275
ISCU	0.551450041	0.383799668	0.792333014	0.001287442
ISCA1P6	0.036118117	0.002454068	0.531573862	0.015497218
IRX6	0.726978234	0.602348748	0.877394291	0.000890066
IRX5	0.747054228	0.660768367	0.844607652	3.21E-06
IRX4	1.36929054	1.069188832	1.753625297	0.012775011
IRX3	0.817168233	0.732648622	0.911438171	0.000289332
IRX2	0.854751703	0.780670002	0.935863388	0.000691293
IRF8	0.785353436	0.667913353	0.923443164	0.003458855
IRF4	0.779695075	0.656272375	0.926329422	0.004650054
IRAK1BP1	0.546482374	0.341606359	0.874231341	0.011713486
IQGAP3	1.195256582	1.032962781	1.38304915	0.016595773
IQGAP2	0.824296722	0.686073814	0.990367322	0.03908187
IQCG	0.728760511	0.545873137	0.972921813	0.031859904
IQCF5-AS1	1.62E+19	2869.26753	9.15E+34	0.016838885
IQCC	0.643567971	0.472966783	0.875705753	0.00503859
IQCB1	0.737069488	0.567758317	0.956870932	0.021960624
IPO5P1	0.631544845	0.486574047	0.819708521	0.000552031
IPMKP1	2.770391792	1.232750831	6.225970802	0.013646144
IP6K2	0.669642434	0.475040971	0.943962766	0.022069855
INTS8	1.35637899	1.028190774	1.789321605	0.031032136
INTS7	1.600683288	1.18945795	2.154079503	0.001901699
INTS10	0.721097387	0.526348625	0.987903104	0.041776798
INTS1	1.311059325	1.063152989	1.616772534	0.011321424
INSL4	1.18743338	1.092098165	1.291090926	5.74E-05
INSIG2	0.724063916	0.541874322	0.967509499	0.029012525
INPP5J	0.592329673	0.460038328	0.762663501	4.89E-05
INPP5B	0.586855281	0.440589667	0.781677708	0.000268393
INPP5A	0.629936163	0.462953245	0.857148263	0.00327272
INPP4A	0.679325318	0.468695077	0.984612193	0.041165827
INO80B-WBP1	104.4594154	2.105885425	5181.558947	0.019603828
INMT-FAM188B	0.000799179	7.35E-06	0.086938894	0.002874512
INMT	0.822383363	0.731299061	0.92481234	0.001094348
INHA	1.115606959	1.030619374	1.207602844	0.006810543
ING4	0.642267824	0.476176553	0.86629204	0.003729819
ING3	0.616639574	0.404802043	0.939334104	0.024360064
ING2	1.553947094	1.14883165	2.101919433	0.004232971
INF2	1.279429624	1.031206397	1.587403034	0.025142468
INCENP	1.315914973	1.082721017	1.599333706	0.005805423
INCA1	0.635579139	0.452486824	0.892757138	0.008940223
INAFM2	0.670198266	0.542300224	0.828260245	0.000212204
IMPG1	0.31895761	0.114369377	0.889520949	0.028985152
IMPAD1	1.332338799	1.03567057	1.713987754	0.025569678
IMPA1P	0.508409498	0.27040901	0.95588611	0.035726784
ILF3-AS1	0.689436635	0.541709148	0.877450335	0.002506621
ILDRI	0.803837033	0.650429308	0.993426907	0.043279606
IL9RP2	64.24713258	2.054307358	2009.287475	0.017796714
IL7R	0.855911177	0.751178096	0.975246677	0.019473474

IL6ST	0.792793347	0.652347799	0.96347576	0.019597084
IL6R	0.843161043	0.712360367	0.997978799	0.047312979
IL5RA	0.539438693	0.342630339	0.849294621	0.007690827
IL3RA	0.806881667	0.65413277	0.995299509	0.045073725
IL33	0.840990499	0.739801353	0.956020175	0.008106942
IL24	0.732022308	0.56375759	0.950508993	0.019239729
IL23R	0.043528001	0.002714031	0.69810811	0.026842858
IL22RA1	1.273008322	1.105931907	1.465325466	0.000772076
IL20RB	1.150052965	1.045935176	1.264535177	0.003882557
IL2	0.11024486	0.022195301	0.547590188	0.007009756
IL1R2	1.264615284	1.106459661	1.445377424	0.000573023
IL1A	1.270795464	1.094602008	1.475350034	0.001649738
IL17F	0.000437152	9.96E-07	0.191879138	0.012710861
IL16	0.656299107	0.518522636	0.830684116	0.000460091
IL11RA	0.653467546	0.492074712	0.867794714	0.003284969
IL11	1.40302866	1.117641906	1.761288127	0.00351688
IL10RB-AS1	0.628410377	0.406322381	0.971887398	0.036785558
IL10RA	0.820544531	0.696163835	0.967147809	0.01836162
IL10	0.652920544	0.441476248	0.965635726	0.032752628
IKZF5	0.599143605	0.421852119	0.850945257	0.00421444
IKZF4	0.549302383	0.40028148	0.75380232	0.000207048
IKZF3	0.686468444	0.559862759	0.841704359	0.000298399
IKZF1	0.768369186	0.626427967	0.942472616	0.011453682
IKBKB	0.754340553	0.599969552	0.948430913	0.015813574
IGSF9B	0.725885603	0.54749407	0.962402952	0.025995942
IGSF6	0.825124525	0.711559712	0.956814262	0.01094991
IGSF10	0.614613245	0.440180795	0.858168838	0.004262647
IGLV9-49	0.906881613	0.840220172	0.978831843	0.012099957
IGLV8-61	0.921802362	0.85991179	0.988147395	0.021663874
IGLV4-69	0.930492806	0.868746907	0.996627273	0.039743897
IGLV4-60	0.912188109	0.846504302	0.982968598	0.015930974
IGLV3-6	0.646940631	0.46185316	0.906201834	0.011316208
IGLV3-31	0.413563964	0.194190376	0.880760192	0.022070592
IGLV3-24	0.661974178	0.45138434	0.97081306	0.034722065
IGLV3-21	0.929009229	0.86935729	0.992754254	0.029650055
IGLV3-10	0.936051433	0.87837534	0.997514667	0.041684703
IGLV2-5	0.795845316	0.663258744	0.954936173	0.014054031
IGLV2-28	0.859671532	0.740321763	0.99826208	0.047392744
IGLV1-51	0.916842585	0.853846165	0.984486855	0.016828079
IGLV1-36	0.925809266	0.857892603	0.999102677	0.047360963
IGLJ1	0.772552523	0.621143555	0.960868702	0.020415538
IGLC5	0.494096595	0.260292702	0.937911216	0.031084953
IGLC3	0.909893938	0.846314767	0.978249478	0.010619516
IGKV7-3	0.771320923	0.625110525	0.951729243	0.015463725
IGKV4-1	0.924619503	0.865385522	0.987907936	0.02033476
IGKV3OR2-5	0.691736568	0.504657272	0.948167213	0.021975565
IGKV3D-7	0.796621786	0.643331731	0.986437075	0.037051413
IGKV3D-20	0.915004182	0.843755212	0.992269608	0.031746317
IGKV3D-15	0.894899081	0.817431953	0.979707683	0.01622814

IGKV3-20	0.924220893	0.86051236	0.992646126	0.03057876
IGKV2OR2-1	0.788603275	0.626526521	0.992607821	0.043055503
IGKV2D-30	0.839703777	0.720852311	0.978151034	0.02485357
IGKV2D-14	12.8275422	1.554788049	105.831685	0.017794281
IGKV2-40	0.665336103	0.450280496	0.983103052	0.040804256
IGKV1OR9-2	0.736143599	0.55289203	0.980132412	0.035961578
IGKV1OR22-5	0.825116358	0.690193409	0.986414816	0.034848865
IGKV1OR22-1	0.8679731	0.758300671	0.993507365	0.039929596
IGKV1OR2-6	0.85140579	0.756893549	0.957719643	0.007372148
IGKV1OR2-11	0.82385081	0.679631863	0.998673243	0.048440236
IGKV1OR2-1	0.246393505	0.069402871	0.874744212	0.030236372
IGKV1OR1-1	0.686518866	0.472525022	0.997424753	0.04843935
IGKV1OR-3	0.505512001	0.304271522	0.83984982	0.008443371
IGKV1D-8	0.888367302	0.798825535	0.987945962	0.028985197
IGKV1D-43	0.834502666	0.726394761	0.958700058	0.01059489
IGKV1D-12	0.880414646	0.77748759	0.996967616	0.044660132
IGKV1-8	0.88586558	0.807736654	0.971551585	0.010093086
IGKV1-33	0.858388379	0.753631146	0.977707215	0.02147848
IGKJ5	0.897172114	0.824478426	0.976275155	0.011838827
IGKC	0.928904744	0.864660885	0.997921887	0.043710716
IGJ	0.8772829	0.810709867	0.949322709	0.001147786
IGHVIII-67-4	0.039973136	0.001666468	0.958825043	0.047044491
IGHVIII-51-1	0.624755751	0.41251969	0.946184529	0.026339438
IGHVIII-5-1	1.64078514	1.024936814	2.626674971	0.039154477
IGHV7-81	0.840047545	0.708870009	0.995499696	0.044216623
IGHV5-78	0.844325403	0.728394037	0.978708433	0.02473219
IGHV5-51	0.914096632	0.85373688	0.978723857	0.009966724
IGHV3OR16-15	0.720428621	0.533098852	0.973585661	0.032826998
IGHV3-79	0.744889456	0.555571705	0.998719511	0.049007308
IGHV3-64	0.914977031	0.837755402	0.999316704	0.048250228
IGHV3-52	0.854653904	0.736752048	0.991423502	0.038108083
IGHV3-47	0.823648342	0.703107353	0.964854924	0.016255774
IGHV3-35	0.863393274	0.755495079	0.98670126	0.031042922
IGHV3-22	0.761608284	0.605222304	0.958403506	0.020218251
IGHV3-13	0.912514808	0.84213393	0.988777729	0.025381576
IGHV2OR16-5	0.575818672	0.340864652	0.972723751	0.03907992
IGHV1OR16-3	0.784832708	0.64168458	0.959914575	0.018366305
IGHV1OR16-1	0.769373626	0.605242697	0.978013909	0.032229152
IGHV1OR15-9	0.885046251	0.793190174	0.987539801	0.028944955
IGHV1OR15-6	0.528778156	0.284638849	0.982319665	0.043756598
IGHV1-67	0.877125083	0.77947027	0.98701444	0.029480526
IGHV1-46	0.921185658	0.856490857	0.990767164	0.027130934
IGHV1-24	0.934979522	0.875580291	0.998408386	0.044693481
IGHM	0.918364723	0.860312993	0.980333635	0.010583993
IGHJ3P	0.88306684	0.810619672	0.961988798	0.00440986
IGHD6-25	0.870057619	0.760098609	0.995923756	0.04346477
IGHD4-4	0.789489195	0.625901183	0.995833219	0.046020027
IGHD3-3	0.895483562	0.809183799	0.990987229	0.032755344
IGHD2-2	0.793033515	0.680562347	0.924091906	0.00296245

IGHD1-7	0.601555819	0.375944748	0.962560071	0.034084951
IGHD	0.939603416	0.883940215	0.998771823	0.045564444
IGFBPL1	0.826969578	0.709639812	0.963698303	0.014948869
IGFBP3	1.117597285	1.004227196	1.243766049	0.041624097
IGFBP1	1.29367766	1.158317995	1.444855296	4.96E-06
IGFALS	0.771934373	0.615971944	0.967386066	0.024582248
IGF2BP3	1.249261937	1.09630131	1.423564283	0.000838813
IGF2BP2	1.181752212	1.040780644	1.341818085	0.009974947
IGF2BP1	1.328711366	1.182347035	1.493194335	1.82E-06
IGBP1-AS2	0.134984883	0.027662452	0.658687766	0.013278515
IFT57	0.849668442	0.740289112	0.975208806	0.020503416
IFT52	0.696933929	0.51516196	0.942843103	0.019197792
IFT172	0.72618951	0.562176299	0.938053073	0.014302643
IFNWP19	1.253155859	1.051878013	1.492948411	0.011532573
IFNL3	3.998270785	1.090381844	14.66107434	0.036574167
IFNG-AS1	0.49539491	0.281887441	0.87061742	0.01462313
IFNA5	0.000578187	3.97E-07	0.84286559	0.044860722
IFNA13	2.14E+17	12483.45936	3.68E+30	0.010269975
IFNA11P	15498.92511	1.344368013	178683721.4	0.043178536
IFFO1	0.774306262	0.607130972	0.987513757	0.0392825
IER5L	1.29939396	1.124206134	1.501881738	0.000393429
IER3	1.173169808	1.03406341	1.330989362	0.013133648
ID2	0.815592303	0.68551139	0.970357043	0.02148197
ID1	1.119382649	1.008343741	1.242649171	0.034357198
ICOS	0.735413328	0.567109826	0.953664948	0.020461865
ICAM5	0.804366429	0.687600839	0.940960679	0.00652032
ICAM3	0.655897123	0.506335788	0.849635846	0.001403203
ICA1L	0.528953537	0.302979891	0.923466712	0.025090022
IARS2P1	17592426.89	773.0332651	4.00E+11	0.001117425
IARS2	1.349356385	1.023433287	1.779073122	0.033655522
IAPP	3.400376869	1.355504017	8.530083796	0.009102618
HYLS1	1.354092877	1.031826492	1.777011479	0.028823727
HYI	0.748302746	0.585819456	0.955852514	0.020261406
HVCN1	0.702199326	0.537914774	0.916658025	0.009324715
HUNK-AS1	0.009023805	0.000114702	0.709921247	0.034533379
HTRA4	0.747613505	0.581574228	0.961056948	0.023210446
HTR5BP	0.008877211	0.000228737	0.344521661	0.01137997
HTR3C	0.181326463	0.033142932	0.992045189	0.048933023
HTR3A	1.125423045	1.015276585	1.247519198	0.024546463
HTR1D	1.329255764	1.137619118	1.553174396	0.000339369
HTATSF1P	343.6971113	2.146816246	55024.59958	0.024135202
HTATIP2	1.408803894	1.144263827	1.734502451	0.001238191
HSPE1P5	2.226541784	1.15448389	4.294116495	0.016910675
HSPE1P21	3.147255154	1.622449715	6.105098304	0.000695215
HSPD1P6	2.184167334	1.041912748	4.578681804	0.038575673
HSPD1P2	3629.524734	17.48526971	753402.7219	0.002603311
HSPD1	1.431951431	1.150001958	1.783027312	0.00133092
HSPBP1	1.313899049	1.027756371	1.67970811	0.029373932
HSPBAP1	0.683005677	0.466958267	0.999011662	0.049407221

HSPB8	0.853143529	0.740787511	0.982540702	0.027494204
HSPB7	0.773224881	0.602856245	0.991740107	0.042838726
HSPA9	1.519765065	1.154293263	2.000952381	0.002860221
HSPA4	1.904554024	1.352898698	2.681151247	0.000222384
HSPA2	1.24456776	1.067346533	1.451214635	0.005245633
HSPA1B	1.208631253	1.012604742	1.442605831	0.035843675
HSPA1A	1.191218784	1.017710054	1.394308905	0.029366506
HSP90AA6P	2.43784397	1.284445137	4.62696541	0.006417812
HSP90AA4P	12.48073212	1.780530039	87.48444048	0.011065155
HSP90AA1	1.373139703	1.072018198	1.758843878	0.012054253
HSFX1	0.001643845	4.04E-06	0.668486029	0.036496831
HSF2BP	1.844075737	1.267753304	2.682395158	0.001370297
HSDL2	0.769768541	0.598521571	0.990012116	0.041534707
HSDL1	0.621705153	0.468783549	0.824511222	0.000968337
HSD17B8	0.835253378	0.698106763	0.999343141	0.049166604
HSD17B7P2	0.716156434	0.548662485	0.934782406	0.01404471
HSD17B7	0.725430296	0.538300036	0.977613	0.03497017
HSD17B6	0.864959715	0.775368309	0.964903131	0.009312407
HSD17B4	0.769243967	0.597965288	0.989582995	0.041206232
HSD17B14	0.860844607	0.748502701	0.990047779	0.035715518
HSD17B13	0.80088776	0.659523879	0.972551904	0.025035597
HSD11B1L	0.661431317	0.483073463	0.905641523	0.009933249
hsa-mir-4538	0.801198039	0.677428151	0.947581374	0.009629822
HS6ST1	0.771559402	0.619330287	0.961205876	0.020732458
HS3ST2	0.787314196	0.672094545	0.922286376	0.003055877
HRCT1	1.227951629	1.011240527	1.491104405	0.038191471
HPSE2	0.400779601	0.219340068	0.732307096	0.002949189
HPS1	0.627792144	0.457881284	0.860753627	0.003837997
HPRT1	1.232290154	1.007368365	1.507431716	0.042218423
HPGDS	0.750858722	0.628241934	0.897407178	0.001633227
HOXD9	1.274916	1.049450048	1.548821509	0.014442896
HOXD8	1.35637763	1.128043442	1.63093034	0.001190921
HOXD4	1.402287902	1.01270188	1.941747517	0.041753441
HOXD3	7.379719683	1.050268518	51.85365618	0.044508688
HOXD13	1.2285791	1.011381648	1.492420401	0.038080765
HOXD12	3.581189181	1.157425765	11.08055164	0.026852495
HOXD11	1.415911018	1.044707313	1.91901022	0.024967055
HOXD10	1.359878416	1.046357405	1.76734001	0.02151337
HOXC6	1.242585893	1.028938414	1.500594867	0.024050439
HOXC5	2.362468396	1.112721429	5.015861811	0.025220321
HOXB7	1.138576841	1.024944377	1.264807389	0.015552307
HOXA9	1.337585167	1.107713068	1.615160216	0.002500862
HOXA7	2.155885018	1.465673426	3.171129481	9.55E-05
HOXA13	1.862538128	1.401992873	2.47436941	1.77E-05
HOXA10-AS	2.026133367	1.222277739	3.358660876	0.006175209
HOXA10	1.212720706	1.043562848	1.409298457	0.011859815
HOXA1	1.280405854	1.064418168	1.540220939	0.008735029
HOTTIP	6.155698663	2.284907244	16.58387934	0.000325448
HOPX	0.900111234	0.828218802	0.978244192	0.013216806

HNRNPU	1.572410893	1.097574259	2.252673108	0.01360448
HNRNPR	1.636504847	1.151635846	2.32551646	0.006005647
HNRNPM	1.514448924	1.078050748	2.12750239	0.016696168
HNRNPL	1.693424865	1.04384603	2.747232535	0.032859668
HNRNPK	2.073752075	1.222919665	3.51654143	0.006793223
HNRNPF	1.482375067	1.079131766	2.036299836	0.015094438
HNRNPD	1.444149609	1.038609462	2.008038796	0.028873623
HNRNPCP2	1.346256617	1.03156581	1.75694741	0.028615783
HNRNPC	1.767546609	1.210873261	2.580138744	0.003163053
HNRNPAB	1.512848146	1.129413125	2.026459108	0.005503223
HNRNPA3P4	192.5692251	8.800282472	4213.831381	0.000833726
HNRNPA3P13	18.89112205	1.143389356	312.1198308	0.04001412
HNRNPA3P11	4.567288561	1.104296328	18.88997026	0.036000238
HNRNPA3P1	6.666441572	1.486844592	29.88977024	0.013208291
HNRNPA2B1	1.538996642	1.089994279	2.172956968	0.014302544
HNRNPA1P70	0.191029492	0.058060321	0.628523337	0.0064456
HNRNPA1P38	2.077669735	1.004852739	4.295864816	0.048492621
HNRNPA1P33	2.355015697	1.145826748	4.840259614	0.01978993
HNRNPA0	1.459530221	1.03642069	2.055370456	0.030405201
HNMT	0.808572601	0.67904287	0.962810568	0.017059331
HNF4A	1.247910114	1.073118139	1.451172612	0.004020699
HN1	1.267342546	1.047936505	1.532685539	0.014577075
HMX2	1.670976553	1.03492022	2.697949645	0.035694799
HMMR	1.403748593	1.204042256	1.636578867	1.48E-05
HMHA1	0.733156122	0.597729124	0.899266704	0.002892284
HMGN3	0.740364836	0.612908459	0.894326194	0.001817131
HMGN1P36	1.461703537	1.07370986	1.989901845	0.015872766
HMGCLL1	0.37757347	0.19914614	0.715864867	0.002844451
HMGB3P7	0.405508883	0.187181753	0.878490833	0.022113385
HMGB3P13	0.050738517	0.003074263	0.837403094	0.037158701
HMGB1P46	1267.315907	4.034407905	398097.9727	0.014873806
HMGB1P41	0.192187658	0.060754316	0.607958381	0.005001896
HMGB1P35	149.8959235	1.383267056	16243.27551	0.036110394
HMGB1P25	3.745573865	1.155510266	12.14123664	0.027746203
HMGB1P14	0.36106984	0.15203185	0.857527085	0.020985847
HMGA2	1.257960698	1.10848725	1.427589824	0.000376801
HMGA1P3	1.601079081	1.101791544	2.326623614	0.013574795
HMGA1P1	3.200946342	1.573516457	6.511566778	0.001322258
HMGA1	1.31631808	1.154320989	1.501049799	4.10E-05
HMCN2	0.43371498	0.214159113	0.878359463	0.020330143
HMCN1	0.784623828	0.638074071	0.964832422	0.021484989
HMBOX1	0.687078018	0.479207381	0.985118807	0.041199171
HLX-AS1	0.180674675	0.045804906	0.712660303	0.014534446
HLFP1	252368950.5	1612.131574	3.95E+13	0.001523689
HLF	0.791660362	0.685024281	0.914896225	0.00155135
HLA-DRB5	0.876966237	0.806219713	0.953920835	0.00221917
HLA-DRB1	0.868319732	0.785668259	0.959666053	0.005663119
HLA-DRA	0.862318692	0.779105666	0.954419354	0.004222946
HLA-DQB2	0.892747536	0.819509738	0.972530438	0.009383763

HLA-DQB1-AS1	0.787011703	0.687053949	0.901512059	0.00054817
HLA-DQB1	0.877001684	0.798492434	0.963230109	0.00609
HLA-DQA1	0.857780863	0.774776614	0.949677618	0.003133716
HLA-DPB1	0.852625606	0.767077873	0.947713979	0.003122124
HLA-DPA3	0.788259386	0.625144211	0.993935236	0.044284255
HLA-DPA1	0.872078234	0.787406822	0.965854529	0.008622554
HLA-DOB	0.768491613	0.65771498	0.897925967	0.000914273
HLA-DOA	0.849140029	0.758895191	0.950116429	0.00433682
HLA-DMB	0.821047531	0.726065677	0.928454642	0.001669825
HLA-DMA	0.795610019	0.703284703	0.900055554	0.000279993
HK2P1	8.783535348	1.547667981	49.84951176	0.014166164
HK2	1.199131424	1.046073532	1.374584222	0.009147871
HJURP	1.328728707	1.158829645	1.523537118	4.67E-05
HIST1H2BK	1.146659213	1.00713507	1.305512429	0.038699555
HIP1	0.813950046	0.685567963	0.966373451	0.018746922
HINT3	0.679764545	0.504156409	0.916540639	0.011357643
HIGD1B	0.772624549	0.643596032	0.92752078	0.005657035
HIF1A-AS1	2.154773958	1.317109345	3.525182499	0.002238078
HIATL1	1.472708855	1.024020243	2.11799658	0.036798282
HHIPL2	1.144933273	1.037798903	1.263127371	0.006930914
HHATL	0.606976133	0.384970461	0.957008558	0.03162497
HGF	0.657759129	0.511410725	0.845987482	0.001104316
HEXA-AS1	0.384639649	0.161690451	0.915005547	0.030706784
HERPUD1	0.655993704	0.522947377	0.822889182	0.000266863
HERC2P9	0.633924788	0.412317825	0.974638041	0.037799766
HERC1	0.647698062	0.482725659	0.869050093	0.003782904
HEMK1	0.536357447	0.357772468	0.804084542	0.002565946
HEMGN	0.002641133	2.65E-05	0.262782941	0.011426662
HELQ	0.546170963	0.337837256	0.882977574	0.01359619
HELLS	1.281952479	1.024848526	1.603556151	0.029639016
HEIH	0.714142195	0.557504416	0.9147893	0.007700477
HECTD3	0.625115304	0.433908032	0.90058057	0.011665558
HEATR5B	0.668608398	0.485707002	0.920384487	0.013558403
HEATR1	1.351057019	1.034946589	1.763719102	0.026928483
HDGFRP3	1.349609606	1.056935788	1.723327101	0.016218558
HDGF	1.277758506	1.001257556	1.630616208	0.048830885
HDC	0.663330489	0.491290684	0.895615063	0.007370008
HDAC5	0.658956956	0.490427519	0.88539948	0.005647098
HDAC2	1.398218408	1.054829999	1.85339317	0.019742691
HCRTR1	0.016065387	0.000617537	0.417945378	0.012966817
HCN2	1.397689638	1.091041948	1.790523569	0.008062212
HCLS1	0.827902681	0.714240982	0.959652089	0.01219091
HCG19P	3885303600	2.123225179	7.11E+18	0.042442246
HCG14	0.487530881	0.283284734	0.839036953	0.009499064
HCFC2	0.56638062	0.390547438	0.82137783	0.002722122
HCCS	1.388841299	1.00092894	1.927090002	0.049354076
HAVCR1	1.247601793	1.079371171	1.442052813	0.002758142
HAS2-AS1	1.617195706	1.036153447	2.524068187	0.034317163
HAND2-AS1	8.096620534	1.433731759	45.72352092	0.017891266

HAND2	1.692787567	1.020742887	2.807298275	0.041398884
HAL	1.184251001	1.040360533	1.348042712	0.010509155
HAGLR	0.900350052	0.813185551	0.996857623	0.043326866
HAGH	0.607219879	0.444114274	0.830227722	0.001773654
HABP2	0.883780792	0.803762288	0.971765534	0.010727729
H2AFZP3	1.657704697	1.052506855	2.610894977	0.029200821
H2AFZ	1.390095743	1.139677205	1.695538145	0.001153663
H2AFX	1.424927758	1.183346937	1.715827416	0.000186923
H1FX-AS1	0.658217096	0.45746624	0.947063867	0.02426189
GZMK	0.85263937	0.738775997	0.984051862	0.029273328
GYLTL1B	0.831866838	0.732085537	0.945248063	0.004747564
GVINP2	9.701349574	2.90664556	32.37965607	0.000219813
GVINP1	0.656917648	0.483114769	0.893246955	0.007362619
GUSBP4	0.456170865	0.249607514	0.833676259	0.010733474
GUSBP12	4.359222957	1.385415091	13.71634026	0.011823556
GUSBP11	0.473413481	0.226954294	0.987513035	0.046210931
GUSBP1	0.626838596	0.421163939	0.932954104	0.021334653
GUCY2C	1.28495184	1.060300887	1.557200652	0.010553231
GUCY1A3	0.761241711	0.628712664	0.921707126	0.005184215
GUCA2B	1.261101262	1.114999272	1.426347471	0.000221922
GUCA2A	1.22363388	1.003023771	1.49276609	0.04662075
GTSE1	1.346368413	1.142885387	1.586080218	0.000374391
GTF3C6	1.561271811	1.14522156	2.128469943	0.004839193
GTF2F1	1.469917421	1.018470606	2.121472343	0.039615877
GTF2A2	1.306116719	1.010114761	1.688858484	0.041678457
GSTM5	0.547116354	0.350408888	0.854248609	0.007979612
GSTM4	0.730847453	0.534974814	0.998435786	0.048861476
GSTM2	0.549468546	0.41328139	0.730532973	3.78E-05
GSTA3	0.556045147	0.35992973	0.859018246	0.008174859
GSTA1	0.924802192	0.861245734	0.99304886	0.031398912
GSK3A	1.799144069	1.312311196	2.466579109	0.000264006
GSG2	1.528738506	1.175192932	1.988644892	0.001561719
GSAP	0.755143081	0.595983751	0.956806411	0.020040612
GS1-54N10.1	1.90E+28	5.02E+13	7.16E+42	0.000143483
GS1-388B5.1	0.081729108	0.016048501	0.416216259	0.002566542
GS1-309P15.3	8.077575295	1.693154954	38.53588386	0.008779792
GS1-257G1.1	1.602238771	1.066222954	2.407722578	0.023296159
GS1-24F4.2	2.335357371	1.040991109	5.239136052	0.039646501
GS1-124K5.6	0.630770173	0.417036615	0.954043354	0.029049389
GS1-124K5.3	0.517449864	0.31680176	0.845179526	0.008490791
GS1-124K5.12	0.678161367	0.501448361	0.917148954	0.011686762
GS1-124K5.11	0.714011183	0.534196819	0.954352314	0.02287051
GS1-124K5.10	0.686347433	0.493313441	0.954915799	0.025499049
GS1-115G20.2	0.002447498	8.44E-06	0.709405127	0.03764892
GS1-115G20.1	0.132667201	0.041179754	0.427408724	0.00071433
GS1-114I9.3	0.19857953	0.047488745	0.830382645	0.026788064
GRWD1	1.762764741	1.21461448	2.558292844	0.00285356
GRPEL2-AS1	0.339703138	0.139198416	0.829019649	0.017696989
GRPEL1	1.416509146	1.03098737	1.946190825	0.031694474

GRM5-AS1	28.33739211	1.273169711	630.7154375	0.034641353
GRIP1	1.384060334	1.023861395	1.870978841	0.034576071
GRIK2	1.738408749	1.251015366	2.415689736	0.000987433
GRIA1	0.322024315	0.168723458	0.614613169	0.000590449
GREB1L	1.440758806	1.156555027	1.794800843	0.00112455
GRB10	1.276764262	1.060566205	1.537034625	0.009846344
GRAP2	0.593958302	0.415786304	0.848480242	0.004197173
GRAMD2	0.816864975	0.698658835	0.955070419	0.011200588
GRAMD1B	1.334358743	1.157760344	1.537894491	6.82E-05
GPX8	1.319571649	1.12587051	1.54659823	0.000617784
GPX3	0.832400754	0.73026389	0.948822782	0.006023577
GPSM3	0.823132687	0.698572051	0.96990342	0.020072179
GPRIN2	0.789448347	0.68389722	0.911289993	0.001244405
GPRIN1	1.341814514	1.122470563	1.604020854	0.001244
GPRASP1	0.633924322	0.44430472	0.904469451	0.011948599
GPR98	0.70791051	0.55572013	0.901779984	0.005156415
GPR97	1.414220889	1.101919087	1.815034105	0.00648303
GPR87	1.123176567	1.034826077	1.219070168	0.005453762
GPR82	0.530488382	0.324620314	0.866914088	0.011409926
GPR78	2.363843202	1.461021118	3.824554358	0.000457702
GPR75-ASB3	0.394673159	0.192076441	0.810963079	0.011399171
GPR75	0.476962842	0.273965202	0.830373895	0.008869174
GPR65	0.705874852	0.545628682	0.913183862	0.00801996
GPR63	2.15362541	1.229500793	3.772346007	0.007310099
GPR55	0.280104067	0.11265004	0.696478122	0.006175997
GPR37	1.234464209	1.086415729	1.40268761	0.00123119
GPR35	1.1736555	1.019804058	1.350717544	0.025515709
GPR34	0.830929928	0.710969639	0.971130844	0.019900966
GPR31	0.013744095	0.000837601	0.225525115	0.00267084
GPR18	0.630993691	0.444531878	0.895668136	0.009980401
GPR176	1.225612563	1.019299193	1.47368522	0.030524223
GPR174	0.67622311	0.516349556	0.885597149	0.004472602
GPR162	0.753295299	0.593986747	0.955330755	0.019443147
GPR155	0.639338504	0.433025237	0.943948962	0.024441144
GPR153	1.27728715	1.087021144	1.500856238	0.00294063
GPR149	3.003604491	1.168324998	7.721858176	0.022437257
GPR146	0.469777805	0.262689549	0.840121684	0.010854309
GPR142	0.13921439	0.029041629	0.66734019	0.013672499
GPR133	0.770253845	0.657584157	0.902228223	0.001216085
GPR116	0.841316618	0.763093469	0.927558262	0.000519904
GPR115	1.237392593	1.089754106	1.405032952	0.001016654
GPR112	5.45E-16	1.23E-29	0.024097571	0.028352844
GPR108	0.609073559	0.433363928	0.856025562	0.004301663
GPR1	1.667146485	1.241411931	2.238884074	0.000680356
GPN2	0.614413632	0.394842863	0.956086957	0.030849272
GPM6B	0.787500414	0.621905417	0.997188455	0.047329571
GPLD1	0.526772756	0.301607617	0.92003491	0.024265789
GPIHBP1	0.79966837	0.666059262	0.960078988	0.016542233
GPI	1.497544564	1.207903986	1.856637404	0.00023109

GPD1L	0.689487019	0.584525642	0.81329597	1.02E-05
GPC6	1.19094652	1.042391402	1.360672786	0.010148463
GPC4	0.832114128	0.735070181	0.941969816	0.003674162
GPC3	0.867495345	0.776859122	0.968706105	0.011580945
GPC1	1.275144649	1.088820937	1.493352875	0.002563043
GPBP1L1	0.627535028	0.408619908	0.963732318	0.033276334
GPATCH3	0.582456915	0.381830789	0.888498434	0.01211823
GPATCH11	0.663808321	0.458301844	0.961465665	0.030169075
GPAM	0.722572432	0.552976731	0.944182441	0.017275463
GP9	0.25478981	0.079070766	0.821009463	0.022002912
GORAB	0.695599631	0.502484062	0.962933719	0.028698837
GOLM1	1.283927731	1.092758192	1.508540893	0.002378666
GOLGA8O	0.001601711	8.70E-06	0.294772971	0.015561108
GOLGA8N	0.259894155	0.080615971	0.837860918	0.024060432
GOLGA8B	0.836467264	0.70538847	0.991903771	0.040029371
GOLGA8A	0.863188581	0.749128923	0.99461455	0.041886703
GOLGA6L3	0.018521624	0.000605375	0.566674559	0.022290508
GOLGA6D	2.48E+25	3.51E+11	1.76E+39	0.000325906
GOLGA6C	3890890987	1719.270806	8.81E+15	0.003098107
GOLGA2P5	0.769362085	0.59265698	0.998753137	0.048914633
GOLGA2P10	0.837254701	0.702536525	0.99780639	0.047200291
GOLGA2P1	7.35E+16	11.56547468	4.67E+32	0.036454346
GNRHR2	0.469209761	0.259178085	0.849446048	0.012461982
GNPNAT1	1.668820146	1.365270361	2.039860206	5.75E-07
GNMT	0.555619622	0.3961824	0.779219784	0.000660121
GNG7	0.575059938	0.455897653	0.725368798	3.01E-06
GNG12	1.21378989	1.006048769	1.46442791	0.04308044
GNAO1	0.652140936	0.443997258	0.957861323	0.029298027
GNAI3	1.713662177	1.161936462	2.52736544	0.006586397
GNAI1	1.195057279	1.006028971	1.419603155	0.04252089
GNA14	0.779762623	0.665571743	0.913545015	0.002075495
GMPSP1	1.906121681	1.18056668	3.077589706	0.008313386
GMPS	1.575398241	1.225503745	2.025191378	0.000389829
GMPR	0.78462033	0.656986674	0.937049543	0.007411586
GMPPB	0.603149379	0.405291387	0.897599074	0.012682567
GMP	0.73532995	0.567300482	0.953128283	0.020198401
GMFG	0.798880512	0.679333114	0.939465572	0.006627945
GMFB	1.382669098	1.060958477	1.801930874	0.016490709
GMDS-AS1	0.239166723	0.099480728	0.574992989	0.001391314
GLULP5	1.34E+15	1.6919197	1.06E+30	0.046589864
GLUD1P3	0.642158721	0.455094775	0.906114167	0.011697225
GLS2	0.356469987	0.176890046	0.71836067	0.003911814
GLRX2	1.494302782	1.124092595	1.986438497	0.005686861
GLRA2	2.392038336	1.045836224	5.471074027	0.038815631
GLIS2-AS1	0.598610824	0.41216703	0.869392485	0.007038025
GLIPR1L2	0.420965478	0.185235598	0.956684005	0.038857928
GLI2	1.626691813	1.21629772	2.175558015	0.001038063
GLCCI1	0.776779666	0.65446501	0.921954025	0.003858471
GLB1L3	0.857591632	0.758998796	0.968991534	0.013682945

GLB1L2	0.831495223	0.718195502	0.962668666	0.013548275
GK2	4.26E-25	2.59E-48	0.069940731	0.039638419
GJC1	1.275148103	1.008002304	1.613094214	0.042722401
GJB5	1.176521643	1.045434173	1.32404623	0.006993249
GJB4	1.338827969	1.083682562	1.654045561	0.00683142
GJB3	1.286595672	1.172188403	1.412169256	1.14E-07
GJB2	1.174335483	1.077525485	1.279843351	0.000251279
GJA3	1.709889519	1.158201249	2.524364543	0.006957126
GIPC3	1.450248949	1.078219136	1.950644301	0.013974435
GIP	1.399481039	1.039458467	1.884199554	0.026759549
GINS3	1.430429954	1.076972495	1.899890538	0.013434334
GINS2	1.189636106	1.017652209	1.390685394	0.029287182
GINS1	1.181112418	1.010780406	1.380147988	0.03617874
GIMD1	14192392.6	1140.825112	1.77E+11	0.000618703
GIMAP8	0.767178598	0.627514345	0.937927564	0.00973838
GIMAP7	0.808524008	0.689132086	0.948600544	0.009127153
GIMAP6	0.790754814	0.660147067	0.947202838	0.010807264
GIMAP5	0.553746479	0.33443677	0.916870364	0.021601785
GIMAP1	0.694508874	0.526491844	0.916144441	0.009887755
GIGYF1	0.818723849	0.677288428	0.989694662	0.038732392
GID8	0.726986986	0.528987765	0.999096979	0.049352559
GHRL	0.430631154	0.241470193	0.767975493	0.004312078
GHRHR	3.516840172	1.353944969	9.134909527	0.009818345
GH1	0.015298	0.000336758	0.694947527	0.031803355
GGTLC1	0.853705556	0.782052926	0.931923086	0.000405784
GGTA1P	0.752695825	0.593143994	0.955166049	0.01942071
GGT6	0.820910379	0.735699655	0.915990438	0.000416676
GGT3P	0.385828375	0.165041333	0.901977296	0.027943894
GGT2	0.650892367	0.430441051	0.984248302	0.04182933
GGH	1.14357493	1.0226425	1.278808205	0.018643183
GGACT	1.770616671	1.217590506	2.574825757	0.00278576
GGA2	0.529099555	0.395316932	0.708156711	1.87E-05
GFY	1.241651727	1.006869305	1.531180864	0.042972204
GFRA3	0.92087143	0.848180711	0.999791883	0.049422896
GFRA1	0.637181213	0.457265913	0.887885772	0.007758351
GFPT2	1.279010494	1.079039136	1.516041252	0.004555104
GFM1	1.4772376	1.05979976	2.059097395	0.02129333
GDPD2	1.693853182	1.30029682	2.206525894	9.37E-05
GDPD1	0.718125608	0.557814408	0.924508908	0.010200518
GDF15	0.879589485	0.800642665	0.966320802	0.007495518
GDF10	0.707451543	0.574417114	0.871296613	0.001129017
GCSHP4	0.105708137	0.012178967	0.917500654	0.041544232
GCSAML	0.363878675	0.17906289	0.739447971	0.005201131
GCSAM	0.575133024	0.367708799	0.89956508	0.015361739
GCLC	1.135847381	1.034367787	1.24728292	0.007639188
GCKR	1.376785416	1.038656644	1.824990088	0.026166016
GCG	1.214474195	1.009435669	1.461160543	0.039446009
GCDH	0.482847927	0.33139687	0.703513346	0.000149909
GBE1	1.336381122	1.05168594	1.698144318	0.017680165

GATA4	1.501359761	1.109708471	2.031237204	0.008415262
GATA2	0.792184269	0.646599238	0.970548493	0.024544718
GATA1	0.188052997	0.058180786	0.607828326	0.005242828
GAS6-AS1	0.592929905	0.444975122	0.790079838	0.000358714
GAS2L2	0.785214948	0.635511001	0.970183856	0.0250627
GAS2L1	1.463775098	1.121996955	1.909664307	0.004978536
GARS	1.388092109	1.098573577	1.753910474	0.006001806
GAR1	1.552473255	1.128110646	2.136468807	0.006936225
GAPT	0.631783409	0.46980258	0.849612778	0.002379584
GAPDHP75	1435.625621	2.045161896	1007754.412	0.029710373
GAPDHP73	7.988223079	2.186794781	29.18047387	0.001668348
GAPDHP72	2.581291696	1.548829715	4.302000895	0.000274015
GAPDHP71	3.488892567	1.51369234	8.041509509	0.003357166
GAPDHP69	3.833354649	1.692428582	8.682557139	0.001275965
GAPDHP68	3.243693547	1.070231438	9.831095832	0.037531163
GAPDHP67	54.21137595	6.310834965	465.6869176	0.000273795
GAPDHP65	1.639058899	1.256886763	2.137435253	0.000264388
GAPDHP64	28.65743789	4.032806906	203.6419709	0.000797315
GAPDHP63	2.002136798	1.316588112	3.044651339	0.001170328
GAPDHP60	3.169542048	2.014332911	4.987257438	6.11E-07
GAPDHP56	7.02E+19	548286770.4	9.00E+30	0.000461793
GAPDHP50	690101881	466.0225426	1.02E+15	0.004992127
GAPDHP44	5.068607318	2.06070641	12.46697736	0.000408479
GAPDHP40	2.785555242	1.701363676	4.560646331	4.65E-05
GAPDHP38	2.466974074	1.299489481	4.683347709	0.005763187
GAPDHP25	15.3991167	2.279425565	104.0318222	0.005027453
GAPDH	1.540112059	1.283333384	1.848268878	3.47E-06
GANC	0.603207003	0.431666093	0.842917003	0.003067098
GANAB	1.41025669	1.042900018	1.907013038	0.025562978
GALT	0.630966271	0.447451159	0.889747243	0.008635629
GALNT4	1.564992105	1.077792073	2.272423735	0.018590336
GALNT3	1.205682107	1.045440964	1.390484391	0.010148633
GALNT2	1.801034456	1.39790199	2.320423846	5.34E-06
GALNT11	0.645302816	0.49878323	0.834863121	0.000857638
GALM	0.775693572	0.633036771	0.950498526	0.014302184
GAL	1.110914349	1.00196008	1.231716427	0.045809532
GAFA3	1.58824044	1.016830088	2.480756347	0.042020267
GADD45G	0.834531168	0.731631109	0.951903578	0.007057579
GACAT2	2.032158398	1.024055894	4.032658549	0.042565673
GABRA4	53.16806442	3.589893106	787.4449157	0.003860087
GABRA2	1.619054986	1.127705474	2.324489069	0.009020043
GAB3	0.598029957	0.446706628	0.800614559	0.000552478
G3BP1	1.527038906	1.080442959	2.158233161	0.016471614
FYN	0.811923559	0.665774867	0.990154327	0.039620574
FYCO1	0.707307087	0.56165761	0.890726498	0.003244034
FXVD6	0.797680574	0.640733211	0.993072137	0.043160403
FXVD2	1.460301296	1.123893232	1.89740432	0.004593624
FXVD1	0.504099876	0.299234491	0.849222576	0.010048788
FXR1	1.675646241	1.234195851	2.274995758	0.000937309

FUT4	1.823663168	1.419483297	2.342928131	2.60E-06
FUT1	0.614188394	0.465337376	0.810653523	0.000576645
FURIN	1.226733497	1.094012322	1.375555871	0.000468808
FUK	0.715255556	0.542813764	0.942478883	0.017272679
FUCA2	1.414776666	1.114651633	1.795711732	0.004341627
FUCA1P1	18.82936089	2.650302796	133.7752169	0.003343544
FUCA1	0.697457644	0.574214114	0.847152923	0.000281248
FUBP3	1.536100905	1.043240975	2.261803405	0.029674909
FTX	0.505324698	0.260405847	0.980596454	0.043602493
FTSJ3	1.528790437	1.089819987	2.144574542	0.013969703
FTO-IT1	0.480789388	0.298837874	0.773524562	0.00254116
FTH1P26	58.55121259	4.514527012	759.3806586	0.001853227
FSTL3	1.273403021	1.110367968	1.46037647	0.000544814
FST	1.146378077	1.024833596	1.282337641	0.016897071
FSIP2	2.679473563	1.675970297	4.28383402	3.84E-05
FSCN1P1	103.5447482	11.32079522	947.0637591	3.98E-05
FSCN1	1.272965405	1.136732038	1.425525866	2.93E-05
FRZB	0.780133065	0.667220967	0.912152989	0.001854188
FRS3	0.650660542	0.485314099	0.872340493	0.004066453
FRRS1	1.47193236	1.171361064	1.849630263	0.000909323
FRMPD2	0.388069215	0.164712337	0.914307445	0.030398624
FRMD8	1.398363037	1.007832293	1.940222789	0.044786451
FRMD6-AS1	2.409140541	1.125433088	5.1570886	0.023557762
FRMD6	1.325433739	1.116575154	1.573359921	0.001280483
FP236383.11	1.623762156	1.028363521	2.563882795	0.037527943
FOXP4-AS1	0.733441485	0.547032647	0.983371679	0.038261768
FOXO1B	54276.75712	305.7763055	9634384.057	3.70E-05
FOXM1	1.284586442	1.136168491	1.452392264	6.39E-05
FOXL1	1.27592681	1.037071747	1.56979421	0.021212912
FOXF1	0.78304774	0.624769415	0.981424103	0.03377792
FOXC2-AS1	2.147168066	1.152008646	4.001993144	0.016154683
FOSL2	1.300414245	1.085132524	1.558406159	0.004444322
FOSL1	1.245170982	1.131882477	1.369798372	6.63E-06
FOLR2	0.87533	0.77871709	0.983929362	0.025649883
FOLR1	0.917903959	0.856238423	0.984010591	0.015768204
FOCAD-AS1	0.253298233	0.091321666	0.702571448	0.008335685
FOCAD	0.747392326	0.574486358	0.972338648	0.030088765
FNIP2	0.772220333	0.647120483	0.921504199	0.004150071
FNDC4	1.163158249	1.023285716	1.322149905	0.020772102
FNDC3B	1.272886276	1.004294833	1.613310573	0.045998669
FNBP4	0.774131119	0.6065896	0.987948011	0.039647211
FMR1-IT1	0.704962274	0.497138443	0.999664812	0.049780508
FMO4	0.705597587	0.540273198	0.92151148	0.01046543
FMO3	0.739696166	0.613509396	0.891837063	0.001580554
FMO2	0.804452077	0.693957814	0.932539603	0.003895934
FMNL3	0.757748303	0.579754614	0.990388825	0.042289472
FMNL2	0.763012441	0.613933085	0.948292246	0.014742483
FLT3	0.452133471	0.246712821	0.828593644	0.010218795
FLRT1	1.835006344	1.06264939	3.168729324	0.029407628

FLNC	1.320421706	1.183107345	1.473673111	7.01E-07
FLJ43879	5.807335139	3.036421247	11.10687177	1.05E-07
FLJ37453	0.624873542	0.441543457	0.884322795	0.0079595
FLJ31662	26241737200	26.9245401	2.56E+19	0.023098635
FLJ27354	0.405548488	0.186927585	0.879857173	0.022379512
FLJ22763	10.45331306	2.089470894	52.29637526	0.004275959
FLI1	0.777658772	0.613065627	0.986441156	0.038221262
FLG-AS1	5.456381367	2.26205138	13.16154791	0.000158773
FLG	16.89697045	5.252583982	54.35564884	2.11E-06
FKSG48	0.716617716	0.525405218	0.977418826	0.035361365
FKBP9P1	1.257521272	1.015147819	1.557763036	0.035941507
FKBP9	1.385554466	1.094330939	1.754278446	0.006754077
FKBP5	1.176844259	1.021851562	1.355345983	0.02382306
FKBP4	1.512177196	1.263554203	1.809720443	6.41E-06
FKBP3	1.311830409	1.053608558	1.633338121	0.015228882
FJX1	1.416406339	1.162989559	1.725042929	0.000537718
FITM2	0.772913683	0.601110919	0.99381918	0.044611131
FITM1	0.43496618	0.196576775	0.962451325	0.039935921
FIGN	1.402568048	1.040849053	1.889992718	0.026212321
FIGF	0.752167139	0.644333624	0.878047311	0.000309471
FIBCD1	1.260525232	1.073484467	1.480155426	0.004724397
FHL5	0.737579758	0.575626397	0.945098942	0.016111985
FHL2	1.149322476	1.009566233	1.308425452	0.035387987
FHL1	0.836997518	0.727103824	0.963500427	0.013222234
FHIT	0.618400531	0.410716816	0.93110192	0.021343053
FHAD1	0.579204515	0.38752895	0.865684668	0.007735072
FGR	0.838694697	0.713627071	0.985681209	0.032760368
FGFR2	0.816978358	0.692997762	0.963139671	0.016075005
FGFBP1	1.103333354	1.019303506	1.194290497	0.014973544
FGF8	1.858729095	1.07247811	3.221393348	0.027150317
FGF14	0.522076535	0.279634782	0.974713897	0.041313912
FGF12-AS2	1.639022132	1.082264132	2.482197709	0.019633113
FGF12	1.442216199	1.191042168	1.746359297	0.000176354
FGD3	0.67589268	0.533041899	0.857026278	0.001222558
FGD2	0.691489732	0.53325222	0.896682717	0.005394107
FGA	1.053704515	1.005125572	1.104631337	0.029836065
FFAR4	0.698896131	0.509443652	0.958802411	0.026367872
FERMT1	1.236160973	1.066499523	1.432812597	0.004882032
FER	1.50099516	1.012737552	2.224649874	0.043071935
FENDRR	0.627590132	0.447945319	0.87928003	0.00677486
FEN1	1.388974223	1.151008127	1.67613881	0.000610892
FDXACB1	0.535484046	0.298838083	0.959526848	0.035834972
FDPS	1.33419581	1.035363744	1.71927834	0.025841941
FDCSP	0.879861381	0.804438217	0.96235613	0.005124235
FCRLB	1.525612083	1.07034537	2.174524499	0.019495876
FCRLA	0.753182082	0.623219328	0.910246558	0.003356281
FCRL6	0.592593323	0.4351357	0.807028352	0.000898488
FCRL5	0.779962227	0.630921135	0.964210962	0.021630124
FCRL3	0.661557703	0.485099157	0.902204401	0.009050949

FCRL2	0.747246029	0.578153019	0.965793847	0.026023793
FCRL1	0.555016968	0.385153794	0.799794366	0.001586356
FCN3	0.871001737	0.765923921	0.990495276	0.035242573
FCN1	0.806622462	0.684749043	0.95018723	0.01013034
FCHSD2	0.626772888	0.459723916	0.854522115	0.003136116
FCHSD1	0.728375464	0.555524264	0.95500926	0.021847039
FCGRT	0.688742608	0.56535989	0.839052059	0.000213682
FCGR1C	0.69071269	0.492039117	0.969605878	0.03249001
FCGBP	0.899747945	0.809812603	0.999671234	0.049288946
FCF1P7	0.346220337	0.154519677	0.775749239	0.009970145
FCF1	1.519511301	1.045091278	2.209294673	0.028457692
FCER2	0.666460082	0.494843908	0.897594238	0.007559039
FCER1A	0.868218787	0.778653347	0.968086588	0.010964752
FBXO9	0.592808775	0.441385269	0.796180273	0.000511704
FBXO5	1.344156412	1.069107675	1.689966785	0.011339972
FBXO45	1.528633119	1.199389101	1.948257835	0.000605681
FBXO44	0.722320405	0.574218525	0.908620577	0.00546116
FBXO36P1	0.56694456	0.333579361	0.963567211	0.035983737
FBXO33	0.708204286	0.508260764	0.986803125	0.041504711
FBXO31	0.6311958	0.439479433	0.906545581	0.01273332
FBXO25	0.62225531	0.449065809	0.862238147	0.004363485
FBXO17	1.246258298	1.021055664	1.521131314	0.030397511
FBXO16	0.600126701	0.406185183	0.886669609	0.010349212
FBXL8	0.796960451	0.637633725	0.996098443	0.046117552
FBXL21	3.031854215	1.58110898	5.813729539	0.000840374
FBXL20	0.694875893	0.49138339	0.982639049	0.039491795
FBXL19	1.259340139	1.00063818	1.584926116	0.049367758
FBP1	0.778089248	0.681207325	0.888749805	0.00021703
FBN2	1.476909832	1.2222188	1.784674441	5.40E-05
FBLN5	0.842754242	0.720859452	0.98526101	0.031853444
FAT1	1.175743581	1.014667512	1.362390095	0.031266913
FASTKD3	0.720066284	0.538298304	0.963212126	0.026933983
FARSB	1.554019129	1.139123862	2.120028851	0.005402954
FARS2	0.699967035	0.49046564	0.998956524	0.049331303
FANCL	1.376506125	1.0352865	1.830188176	0.027909447
FANCI	1.383204154	1.150918743	1.662370819	0.000543197
FANCC	1.494037116	1.031966187	2.163003916	0.033450178
FAM9A	2.394954831	1.477831662	3.881232749	0.000391757
FAM98B	1.643788042	1.175264623	2.299089987	0.003691739
FAM92B	0.818868312	0.697138765	0.961853431	0.014948772
FAM91A3P	109.1691993	1.41046731	8449.620904	0.034433383
FAM91A1	1.322085477	1.006851996	1.736014842	0.044526487
FAM90A24P	7.00E-27	6.90E-48	7.09E-06	0.014670388
FAM90A12P	7.10E-19	2.44E-36	0.206278285	0.041659618
FAM8A1	0.74826029	0.566405379	0.988503079	0.041215019
FAM87B	0.111324493	0.018491135	0.670220772	0.016536779
FAM86EP	1.678116485	1.134772698	2.481620277	0.0095048
FAM83H	1.233418845	1.030848347	1.475796174	0.021912725
FAM83F	1.322466098	1.067507093	1.638318464	0.010534089

FAM83D	1.256191448	1.093359419	1.443273754	0.001281699
FAM83B	1.445011294	1.226079558	1.703036011	1.13E-05
FAM83A-AS1	1.391282206	1.223087068	1.582607016	5.08E-07
FAM83A	1.284396429	1.168233573	1.412109895	2.28E-07
FAM81A	1.327878798	1.001864384	1.759980824	0.048504373
FAM78A	0.727287122	0.568214102	0.930893049	0.011451544
FAM76A	0.473880181	0.320320358	0.70105574	0.000185907
FAM73B	0.741720007	0.55525817	0.990797792	0.043120125
FAM72D	1.676398529	1.085976177	2.587821067	0.019684931
FAM72C	1.838119592	1.069792626	3.158260348	0.027506519
FAM72B	1.80220983	1.257479755	2.582912576	0.001338254
FAM72A	2.479528131	1.521059441	4.041958906	0.000270362
FAM71E1	0.714100906	0.545815181	0.934272482	0.014057213
FAM65B	0.738127569	0.597832068	0.911346744	0.004756727
FAM64A	1.26617469	1.086269015	1.475875979	0.002542333
FAM53B	0.762126599	0.589435751	0.985411814	0.038259775
FAM49A	0.760811705	0.6184951	0.935875564	0.009676789
FAM47E	0.372167514	0.171634158	0.806999374	0.012315392
FAM46C	0.756315771	0.650528323	0.879306135	0.000280062
FAM43B	2.734178554	1.32662489	5.635151596	0.006411546
FAM41C	0.64339153	0.454122071	0.911544908	0.013101592
FAM32B	0.176013951	0.038287872	0.809157302	0.025611763
FAM25BP	24.7553785	1.73695353	352.8181693	0.017920131
FAM25A	1.461045315	1.028068823	2.076372092	0.034486869
FAM229B	0.808757448	0.657534833	0.994758873	0.044460896
FAM222B	1.378879672	1.024380561	1.856057427	0.034104982
FAM21FP	0.142982984	0.042664002	0.479189318	0.001620399
FAM21EP	0.072266129	0.013931379	0.374865505	0.001759062
FAM21C	0.563269015	0.390011292	0.813494351	0.002209042
FAM219B	0.589173727	0.397951457	0.872281468	0.008229983
FAM217B	0.717412065	0.524977931	0.980384205	0.037133201
FAM216B	0.837931896	0.721864262	0.972661897	0.020107502
FAM215A	0.092828299	0.015610198	0.552016892	0.008970499
FAM214A	0.663259014	0.499011287	0.881568276	0.004680344
FAM210B	0.639464371	0.501986273	0.814593353	0.000294146
FAM20A	0.855651774	0.739943614	0.989453717	0.035466688
FAM209B	0.352222128	0.154808293	0.801381021	0.012851301
FAM207BP	3.620137194	1.809910439	7.240907075	0.000275488
FAM207A	1.677715611	1.27804707	2.202367766	0.000193677
FAM206BP	6.59E-05	9.56E-09	0.454077772	0.032757693
FAM200A	0.666029783	0.460220685	0.963876	0.031157305
FAM19A3	2.03553137	1.151731536	3.59752931	0.014439164
FAM196A	1.410060614	1.073246827	1.852575646	0.013603539
FAM189B	1.385329006	1.056772577	1.816035441	0.018287444
FAM189A2	0.713419534	0.599696253	0.848708707	0.000138131
FAM185BP	0.569896882	0.336920504	0.963973555	0.036012683
FAM184A	0.667996811	0.535572903	0.833163397	0.000344773
FAM183B	0.412289288	0.175266397	0.969851947	0.042346078
FAM179A	0.436678114	0.220920486	0.863151165	0.017159535

FAM177B	1.14522908	1.005950899	1.303790919	0.04039915
FAM174B	0.845355698	0.71477446	0.999792658	0.049717538
FAM167A-AS1	0.101074344	0.012829833	0.796270952	0.029533735
FAM166B	0.815225281	0.684032594	0.97157981	0.022487551
FAM162B	0.785629605	0.640811714	0.963175082	0.020292939
FAM159A	0.561586839	0.332803111	0.947646722	0.030664497
FAM155A	1.444823592	1.044373488	1.998820571	0.026273511
FAM13B	0.6001693	0.448499263	0.803129945	0.000592441
FAM131C	1.698042961	1.18532941	2.432530461	0.003889131
FAM129C	0.534101738	0.327807119	0.870221085	0.011799639
FAM129B	1.302126007	1.011951677	1.67550702	0.04013803
FAM129A	0.856453441	0.737727304	0.994286768	0.041828939
FAM122C	0.45450761	0.229409543	0.900473297	0.023790768
FAM122A	0.591888374	0.38434299	0.911508358	0.01728706
FAM118B	0.755305022	0.582430273	0.979491799	0.034325976
FAM117A	0.504728472	0.389241609	0.654479954	2.50E-07
FAM111B	1.298844763	1.106118614	1.525150826	0.00141935
FAM107A	0.833165926	0.70707126	0.981747525	0.029259044
FAM105A	0.87330562	0.765538909	0.996242904	0.04380205
FAM104B	0.690407246	0.500859586	0.951688214	0.023675681
FAM104A	1.577915744	1.077235457	2.311303513	0.019181841
FAM103A2P	0.631339028	0.425533578	0.936680414	0.02231566
FAM103A1	1.40390247	1.020152513	1.932007343	0.037302747
FAM101A	1.2040027	1.050075926	1.380493035	0.007812136
FAIM3	0.786388625	0.671480089	0.920961142	0.002867826
FAIM2	0.647552433	0.501841381	0.835571098	0.000834302
FAHD2P1	1.91373111	1.256239563	2.915341045	0.002509776
FAHD2CP	0.729171078	0.554811729	0.958325919	0.023496882
FAHD2B	0.739262044	0.572249826	0.9550171	0.020764536
FAF2	1.576039919	1.147500479	2.164619424	0.004957912
FADS3	0.756022249	0.593112428	0.963678409	0.023898271
FADD	1.753076013	1.277772472	2.405182124	0.000503156
FABP2	26.08866451	1.335041857	509.8105441	0.031516197
FABP1	1.671010175	1.200556718	2.325816819	0.002338688
FAAH	0.68516452	0.564724029	0.831291738	0.00012645
FA2H	1.14271226	1.021273523	1.278591171	0.0199558
F9	3467.111558	16.44716613	730877.4327	0.002830054
F2RL2	1.214364803	1.002694394	1.470719178	0.046867114
F2RL1	1.234202503	1.080405338	1.409892901	0.001942564
F2	1.314167815	1.120091898	1.541870848	0.000805143
F12	1.290367849	1.07388174	1.550495855	0.006514518
EZH1	0.654833327	0.479621929	0.89405146	0.007701462
EXT1	1.5536128	1.20855615	1.997187083	0.000585595
EXPH5	0.666674279	0.522875858	0.850019345	0.001072294
EXOSC6	0.695522139	0.509403184	0.949642762	0.022304079
EXOC7	0.694567336	0.488457302	0.98764781	0.042441692
EXO1	1.419279618	1.213129347	1.660461549	1.23E-05
EVX1-AS	3.915056387	1.222632081	12.53661404	0.0215349
EVX1	1.677494661	1.090936565	2.579424347	0.018451183

EVL	0.79008575	0.627294877	0.995122893	0.045339022
EVI2B	0.845295599	0.730622495	0.977966945	0.023853307
EVI2A	0.844561523	0.722707262	0.986961394	0.033582088
EVA1A	0.865065613	0.755594766	0.990396636	0.035750747
ETV5	0.805168508	0.670347824	0.967104393	0.020465143
ETV1	0.831271094	0.712586612	0.969723006	0.018717201
ETHE1	1.307590718	1.075372784	1.58995421	0.007179267
ETF1	1.439385342	1.024280747	2.022717079	0.035890232
ESYT3	0.653731225	0.529161454	0.807625937	8.12E-05
ESX1	1.695228217	1.013477302	2.835582705	0.044328712
ESPL1	1.279716478	1.076166847	1.521766137	0.005263057
ESCO2	1.603460876	1.188900909	2.162574493	0.001976974
ERVFRD-1	0.062618784	0.009875816	0.397041848	0.003280162
ERRF11	1.203949177	1.057155932	1.371125655	0.005145246
ERO1LB	0.756666098	0.65120946	0.879200347	0.000271422
ERO1L	1.506572268	1.288528244	1.761513578	2.78E-07
ERMN	0.47624862	0.238679187	0.950282891	0.0353221
ERMAP	0.722862297	0.537400291	0.972329023	0.031915121
ERLIN1	1.623234329	1.244973889	2.116421646	0.000345327
ERICH3	0.74973346	0.578135625	0.972263666	0.029849792
ERG	0.714712263	0.54961757	0.929398271	0.012199505
ERF	1.464028242	1.123748897	1.907346649	0.004736485
EREG	1.088772102	1.007441175	1.17666889	0.031783501
ERCC6L	1.471603285	1.155029572	1.8749444	0.0017711
ERCC1	1.408188186	1.033039514	1.919572231	0.030340835
EPT1	1.27943166	1.046486672	1.564229546	0.016257286
EPS8L3	1.113773034	1.004205495	1.235295343	0.04141089
EPS15P1	2.421226723	1.531918084	3.826796553	0.00015297
EPOR	0.786857935	0.626846495	0.987714559	0.038778133
EPN1	1.782826473	1.283411121	2.476579936	0.00056496
EPM2AIP1	0.622877671	0.439762199	0.882241799	0.007690431
EPHX2	0.769867407	0.629002076	0.942279599	0.011193883
EPHX1	0.797880482	0.707424564	0.899902682	0.000235168
EPHB2	1.204124064	1.028560854	1.409653845	0.020877283
EPHA2	1.190558898	1.043043277	1.358937371	0.009755373
EPGN	1.401685586	1.154615524	1.701624863	0.000642234
EPG5	0.669558721	0.491962902	0.911265623	0.010745931
EPC1	0.422697653	0.259272639	0.689132902	0.000554497
EPB41L5	0.724095984	0.580226117	0.903639081	0.004283055
EPB41L4A	0.726301772	0.541248124	0.974625576	0.033068079
EPB41	0.707277931	0.555594504	0.900372605	0.004922002
EP300-AS1	0.659539384	0.483671944	0.899353797	0.008529657
ENY2	1.418465356	1.026624528	1.959863524	0.034068437
ENTPD7	1.249549638	1.001496263	1.559041562	0.04847203
ENTPD3-AS1	0.662448889	0.442293035	0.992189557	0.045715897
ENTPD3	0.853746285	0.736383123	0.989814537	0.036113384
ENTPD2	1.235533414	1.053958182	1.44839031	0.00910793
ENTPD1	0.699587486	0.526235746	0.930044479	0.013926205
ENPP7P7	0.317978142	0.109948377	0.91961429	0.034461823

ENPP7P6	0.000339706	7.91E-07	0.145845353	0.009811611
ENPP7P4	0.277480077	0.085865695	0.896693296	0.03218008
ENPP7P14	0.001110719	1.45E-06	0.850165232	0.044656562
ENPP5	0.704497391	0.598546838	0.829202565	2.53E-05
ENPP4	0.74898803	0.619599439	0.905396347	0.002816864
ENPP1	1.341826078	1.081479733	1.664846014	0.007546589
ENOX1	2.085024914	1.438775617	3.021547516	0.000103638
ENO3	0.861990626	0.757604253	0.980759857	0.024136598
ENO1-AS1	0.570707189	0.34563318	0.942347883	0.02837684
ENO1	1.373489353	1.064067397	1.772888643	0.014818491
EMR4P	0.491096307	0.30951687	0.779200121	0.002534185
EMR3	0.373261697	0.207054831	0.672885987	0.001046814
EMP2	0.837992466	0.718353612	0.977556682	0.024527349
EMID1	0.783860309	0.625350032	0.982548898	0.03462665
EME1	1.276493312	1.021488073	1.595158297	0.031797716
EMC6	1.5626665	1.197957617	2.038408165	0.00099501
EMC4	1.465049319	1.042496165	2.058875206	0.027829317
ELP2	0.643347585	0.441811358	0.936816375	0.02142763
ELOVL6	1.257804149	1.079400773	1.465694038	0.003292844
ELOVL3	1.222978402	1.016748899	1.471037907	0.032659468
ELOVL2	1.31274677	1.037530948	1.660966436	0.023397047
ELMO2	0.648413604	0.464369851	0.905399437	0.010977875
ELMO1	0.77020752	0.613011565	0.967713592	0.02497775
ELFN1	1.633855033	1.133627746	2.354813807	0.008475944
ELF5	0.785113125	0.677256975	0.910145841	0.001333461
ELF2	0.610151436	0.383251571	0.971384862	0.037312216
ELDR	8.724082597	3.060047388	24.87203873	5.07E-05
EIF6	1.517521655	1.13352869	2.031595667	0.00507896
EIF5B	1.358262685	1.073272844	1.718926862	0.010819015
EIF5AP4	1.647755118	1.001472726	2.711104214	0.049326738
EIF5A	1.524015067	1.208315579	1.922198112	0.000374051
EIF4H	1.575700265	1.121516068	2.213816988	0.008766695
EIF4G1	1.494420114	1.155221076	1.933215662	0.002224702
EIF4EBP1P1	0.226475487	0.068050703	0.753719557	0.015484674
EIF4A3	1.339538416	1.037867442	1.728894361	0.024738172
EIF4A1P2	1.93210658	1.020405974	3.658382968	0.043178303
EIF3M	1.672377655	1.159823899	2.411441104	0.005887155
EIF3KP2	0.00384518	4.32E-05	0.342320285	0.015181236
EIF3J	1.63858151	1.193406579	2.249819477	0.002264905
EIF3H	1.319907517	1.012209329	1.721141865	0.040405988
EIF3B	1.546105013	1.196868344	1.997246164	0.000850948
EIF2S3	1.417435194	1.105850266	1.816812449	0.005880393
EIF2S2P5	0.001541073	3.02E-06	0.786158362	0.041790615
EIF2S2P3	2.569444167	1.01529756	6.502569872	0.046369881
EIF2S2	1.513065224	1.078980692	2.121786229	0.016367954
EIF2S1	1.65545382	1.219262314	2.247692987	0.001235908
EIF2B3	0.67925301	0.462918708	0.996686122	0.048049431
EIF2AK3	0.589790921	0.425911218	0.816727325	0.001478575
EID2B	0.562668575	0.364231055	0.869217274	0.00955226

EI24	1.38756776	1.004434819	1.916843436	0.046944079
EHBP1	1.57760741	1.240551406	2.006241038	0.000201031
EGR2	0.837526475	0.704209093	0.996082846	0.045034422
EGLN3	1.165366238	1.056271121	1.285729054	0.002276209
EGLN1	1.467656816	1.173209669	1.836003049	0.00078461
EFNB2	1.204885882	1.038629206	1.397755791	0.01388348
EFNA5	1.202949266	1.036297798	1.396400667	0.015157852
EFNA2	1.263019711	1.000571555	1.594307554	0.049440654
EFHD2	1.292466688	1.066485465	1.56633184	0.008885732
EFHC2	0.786237959	0.636841742	0.97068092	0.025304496
EFHC1	0.732348274	0.580027113	0.924670556	0.008838205
EFCC1	0.660921226	0.5119136	0.853301939	0.001487963
EFCAB8	0.068755202	0.006885456	0.68655985	0.02259172
EFCAB6	0.516295972	0.283938753	0.938799399	0.030236489
EFCAB3	4.46E-07	6.66E-13	0.298492991	0.032629202
EFCAB14	0.758702828	0.576404871	0.998655652	0.048888961
EEF2K	0.712686905	0.535580858	0.948358436	0.020140298
EEF1GP3	4.837987068	1.374670523	17.02671184	0.014063812
EEF1E1-BLOC1S5	76556656.21	6051.073856	9.69E+11	0.000165298
EEF1B2P5	0.004897279	3.19E-05	0.751189758	0.03832357
EDRF1	0.697836633	0.495374903	0.983045293	0.03961212
EDAR	1.359487218	1.034914964	1.785852521	0.027345838
EDA2R	0.744763608	0.588804046	0.942032983	0.013968999
ECT2L	0.641534641	0.455828298	0.902898519	0.010903398
ECT2	1.415865748	1.214438723	1.650701495	8.94E-06
ECHDC2	0.720229855	0.578852	0.896137604	0.003244931
ECEL1P2	0.767210834	0.601088562	0.979244159	0.0333015
ECE2	1.271083468	1.017293218	1.588188297	0.034785835
EBLN3	0.689329008	0.519794899	0.914157645	0.009790727
EBF3	1.864474224	1.333545069	2.606784137	0.000269142
EAf2	0.669004474	0.502756601	0.890225977	0.005820734
EAf1	1.506634048	1.040665309	2.181245147	0.029923507
E2F8	1.263560925	1.039861756	1.535383144	0.018615154
E2F7	1.712765464	1.375275653	2.133074579	1.54E-06
E2F6P3	3.15E-10	1.94E-17	0.00512807	0.009811724
DYNLL1	1.449033607	1.055825109	1.988680109	0.021659652
DYNC1I2	1.494696975	1.029888211	2.169283058	0.034435739
DYDC2	0.773645297	0.604262552	0.990508255	0.041789596
DXO	0.745562171	0.573018879	0.970060448	0.028793476
DUX4L19	491.9927507	1.992149347	121505.3817	0.027443012
DUTP8	5.70E-05	4.16E-09	0.779194503	0.04429275
DUT	1.562836146	1.152155884	2.119901356	0.004097954
DUSP5	1.170493005	1.013773304	1.35144008	0.031834656
DUSP28	0.572910079	0.350502985	0.93644269	0.02629005
DUSP26	0.515995776	0.31204654	0.853243368	0.009924376
DUSP22	0.664149846	0.475063147	0.928497656	0.01666893
DUSP2	0.80494374	0.678213584	0.955354537	0.013046137
DUOX1	0.870114702	0.767929198	0.985897655	0.029051434
DTYMK	1.361395764	1.104525531	1.678004152	0.003829857

DTNBP1	0.43292589	0.288071948	0.650618109	5.62E-05
DTL	1.443898101	1.202074674	1.734369561	8.57E-05
DTHD1	0.688029676	0.501772424	0.943425372	0.020257687
DSP	1.12255188	1.012121033	1.245031652	0.028670042
DSG3	1.215136728	1.050401348	1.405707704	0.008754271
DSG2-AS1	2.238310762	1.068277945	4.689823555	0.032762986
DSG2	1.379516219	1.184831597	1.606190285	3.40E-05
DSCC1	1.280804289	1.078816139	1.520610943	0.004708295
DSC2	1.290858126	1.096385536	1.519825505	0.002180525
DSC1	7.783117466	1.698574088	35.66339434	0.0082387
DRP2	1.760937249	1.153427059	2.68842314	0.008762946
DRD5P1	23.58585015	1.958588124	284.0272134	0.012794824
DRAXINP1	2.395496884	1.53080728	3.748613817	0.000131499
DRAM1	0.818104642	0.716463613	0.934164965	0.003015942
DPYSL2	0.742423181	0.635405919	0.86746466	0.000176654
DPY19L1	1.237815374	1.055906479	1.451063072	0.008519522
DPRXP6	0.008575425	0.000142866	0.514732529	0.022736029
DPPA3P2	0.461160541	0.261579997	0.813017232	0.007461587
DPPA2P1	14.81759641	1.837104815	119.5147721	0.011374975
DPP4	0.911077238	0.836744384	0.992013511	0.031983077
DPEP2	0.655349627	0.507199546	0.846773497	0.001229141
DOPEY1	0.524857261	0.370189765	0.74414576	0.000295684
DOK1	0.655897783	0.507583515	0.847549003	0.001261324
DOCK9-AS2	0.704310568	0.538348988	0.921434584	0.010564686
DOCK8	0.78276115	0.640803005	0.956167516	0.016440749
DOCK4	0.699727827	0.538754619	0.908797835	0.007430086
DOCK2	0.790074637	0.64874799	0.962188619	0.019114701
DOCK1	0.770343791	0.617683657	0.960733784	0.020588493
DNTTIP2	1.40616342	1.030997914	1.917846328	0.031337475
DNM1P49	422616400	1769.752176	1.01E+14	0.001668668
DNM1P46	0.028561142	0.001454131	0.560980161	0.019259719
DNM1L	1.349545063	1.031082148	1.766369325	0.029046694
DNER	1.242285549	1.112054134	1.387768219	0.000123202
DND1P1	0.738158214	0.55841826	0.975751669	0.032975951
DNASE2B	0.612699642	0.421628862	0.890358525	0.010200359
DNASE2	0.696475424	0.500222028	0.969725421	0.032192637
DNASE1L3	0.690511449	0.532763493	0.894967592	0.005133176
DNALI1	0.773222867	0.680623435	0.878420535	7.76E-05
DNAJC9	1.488601851	1.116618692	1.984505082	0.006690707
DNAJC5B	0.714730886	0.533130289	0.958190239	0.024734764
DNAJC28	0.428953373	0.256699877	0.716794251	0.001233573
DNAJC27	0.431958202	0.263174759	0.70898854	0.000899195
DNAJC22	1.177364124	1.018073581	1.361577696	0.027702522
DNAJC19P3	33.27497341	1.585281551	698.4398795	0.024030943
DNAJC18	0.537027217	0.340427422	0.847165101	0.007515472
DNAJB4	1.393907415	1.162334325	1.671617055	0.000339929
DNAJA1	1.35488461	1.021054727	1.797858879	0.035349732
DNAH9	0.680565005	0.493843887	0.937884903	0.018678853
DNAH8	0.003357803	2.75E-05	0.410493356	0.020175066

DNAH7	0.477282431	0.247113591	0.921837273	0.027644708
DNAH6	0.624435242	0.398774676	0.977793713	0.039579499
DNAH5	0.775944373	0.636905275	0.94533629	0.011804238
DNAH12	0.576240298	0.379049491	0.876014581	0.009897916
DNAH10	0.6279995	0.402972605	0.978685317	0.039865301
DNAH1	0.63187506	0.455715905	0.876129377	0.005904808
DNAAF5	1.500654012	1.129724254	1.993373564	0.005079425
DMWD	1.529650172	1.140452444	2.05166788	0.004550157
DMTN	0.825211446	0.699027466	0.974173354	0.023268316
DMTF1	0.747367842	0.574175054	0.972802086	0.030389712
DMD	0.648109461	0.475449602	0.883470872	0.006073122
DMBT1	0.923595684	0.863233121	0.988179168	0.021178529
DMAP1	0.686713987	0.524037639	0.899889751	0.006436484
DLGAP5	1.351676794	1.178544379	1.550242985	1.64E-05
DLGAP4-AS1	0.339711722	0.131549592	0.87726653	0.025715303
DLGAP1-AS2	1.322340977	1.106599417	1.580143304	0.002107923
DLGAP1-AS1	1.200797833	1.002192265	1.438761289	0.047288879
DLG4	0.727383309	0.548280758	0.964991877	0.02731016
DLC1	0.830861115	0.727424671	0.949005746	0.006303532
DKK1	1.239178951	1.156109002	1.328217728	1.38E-09
DKFZP434K028	7.649610401	2.320181451	25.2206737	0.000829731
DKFZp313A047	1.63E-07	7.38E-14	0.361838576	0.036052449
DIRC3-AS1	4.029814381	1.386572731	11.711902	0.010455497
DIP2B	1.423176446	1.083962208	1.868544107	0.011074443
DIDO1	0.707575471	0.516630603	0.969092896	0.031114418
DIAPH3	1.563352792	1.236716219	1.976259319	0.00018647
DHX40	0.706147644	0.531054993	0.938969602	0.01670712
DHX37	1.392034793	1.040175265	1.862917656	0.026086775
DHRS4-AS1	0.759632761	0.597369132	0.965972127	0.024939509
DHRS1	0.67873797	0.505796074	0.910812195	0.009807945
DHFRP1	1.495788119	1.068772769	2.093412335	0.018885985
DHFR	1.481173681	1.124356975	1.951226809	0.005214817
DHDH	0.757273606	0.621461687	0.922765353	0.00583271
DHDDS	0.59096405	0.394462928	0.885351915	0.010760474
DHCR7	1.230483222	1.011529553	1.496831165	0.038020751
DGKI	2.747635538	1.07529597	7.020858681	0.034718128
DFFB	0.636768218	0.416756997	0.97292611	0.036899964
DES	0.867903879	0.768945549	0.979597508	0.02180804
DERL3	0.861056895	0.755991838	0.980723519	0.024250757
DERL1	1.476644221	1.069223497	2.039309988	0.017966223
DERA	1.438195572	1.137849929	1.817820127	0.002361978
DEPDC1B	1.356199879	1.150425124	1.598781246	0.000284491
DEPDC1-AS1	11.48808489	2.02293445	65.23992633	0.005868147
DEPDC1	1.324434992	1.124086315	1.560492308	0.000785803
DENR	1.532283792	1.131494959	2.075036747	0.005806632
DENND1C	0.614974746	0.474843797	0.796459679	0.000228842
DENND1A	1.376667555	1.044916363	1.813746654	0.023069586
DEFT1P	38169159767	357.70207	4.07E+18	0.009784078
DEFB125	13671596841	2.816670545	6.64E+19	0.040270123

DEFB123	7.470917153	1.359104608	41.06718702	0.020731446
DEFB113	826168.8833	10.80015264	63198646039	0.017562591
DEFB110	650160304.7	74.02352757	5.71E+15	0.012859906
DEFB106B	1532011666	10.83717374	2.17E+17	0.027186006
DEFB1	1.075498232	1.002734374	1.153542232	0.041713988
DEF6	0.740516226	0.594754241	0.922001463	0.007229422
DEDD2	1.467522992	1.079718281	1.994616348	0.01429217
DDX56	1.6745939	1.22854025	2.282598987	0.001104843
DDX54	1.444364353	1.084922667	1.922891324	0.011794582
DDX52	1.651260332	1.153762372	2.363277527	0.006108606
DDX43P2	2.44E+14	6.699796208	8.88E+27	0.03758489
DDX43P1	3.85E+11	4.87487508	3.03E+22	0.037187173
DDX3P3	2827067.112	38.2117146	2.09E+11	0.009408518
DDX39B	0.857137661	0.735408962	0.999015526	0.048544873
DDX26B	0.719301928	0.527906292	0.980089215	0.036853672
DDX24	0.693048127	0.497646551	0.965174391	0.030027912
DDX23	1.484053386	1.056497933	2.084636782	0.022788959
DDX21	1.258654461	1.019860527	1.553360495	0.032098682
DDX19B	0.615031578	0.408609279	0.925734831	0.019814887
DDX11L8	1.561725426	1.093064747	2.231328303	0.014334557
DDX10	1.442401485	1.045259931	1.99043509	0.025789623
DDIT4	1.213711587	1.07204438	1.374099657	0.002224228
DDIAS	1.32623935	1.056028004	1.66559107	0.015143259
DCX	9.909396861	1.126093674	87.20069068	0.038734992
DCUN1D5	1.293286906	1.019703037	1.640272667	0.033933343
DCUN1D1	1.651331693	1.215723147	2.243024134	0.001326704
DCN	0.886368093	0.78697144	0.998318816	0.046845901
DCLRE1CP1	0.40811892	0.198606477	0.838648645	0.014735647
DCLK3	4.887816612	1.36203145	17.54052832	0.014936995
DCDC2B	0.702206418	0.503004684	0.980296744	0.037813537
DCBLD2	1.162242023	1.025022058	1.31783166	0.01900105
DCAKD	0.732348665	0.553700869	0.968635951	0.029012372
DCAF11	0.645246791	0.445405802	0.934750781	0.020516248
DBP	0.610246477	0.444103841	0.83854434	0.002319597
DBIP2	0.041195004	0.002036265	0.833402631	0.037641331
DARS2	1.381187789	1.111040534	1.717020802	0.003635279
DARS	1.55791486	1.124199165	2.158957939	0.007739801
DAPK2	0.622021739	0.477456046	0.8103595	0.000434621
DANCR	0.794213685	0.652271175	0.967044691	0.021816642
DAK	1.334079843	1.002855742	1.774700939	0.047754306
DAAM2	0.741217055	0.63574213	0.86419115	0.000131483
CYTIP	0.816186348	0.693344848	0.960791959	0.014664285
CYTH4	0.798855439	0.658271741	0.969462872	0.022966276
CYP4Z2P	0.676103484	0.499751341	0.914686733	0.011140988
CYP4Z1	0.624412735	0.396018576	0.984527716	0.042654039
CYP4X1	0.850316886	0.753246489	0.959896683	0.008747713
CYP4F36P	6.840144921	1.078731088	43.37279517	0.041312145
CYP4F3	1.129597437	1.015884891	1.256038339	0.024379669
CYP4F27P	3.973199838	1.123148922	14.05540854	0.032344596

CYP4B1	0.860241229	0.80127466	0.923547204	3.25E-05
CYP4A26P	0.231778599	0.070514773	0.76184488	0.016040578
CYP2U1	0.624407547	0.457815198	0.851620449	0.002936219
CYP2F1	0.728489591	0.539767905	0.983194961	0.038382245
CYP2D6	0.78365912	0.61846523	0.992976786	0.043558381
CYP2B7P	0.882281055	0.820171237	0.949094316	0.000771605
CYP2AB1P	156.0214456	2.492261381	9767.310794	0.016728471
CYP2A13	0.507591173	0.266430033	0.967041125	0.039219861
CYP27C1	1.216694275	1.003300975	1.475474455	0.046211271
CYP27A1	0.799586553	0.69525974	0.919568067	0.001715844
CYP24A1	1.08568334	1.014118767	1.1622981	0.018130616
CYP20A1	0.441852528	0.269608003	0.72413895	0.001192969
CYP1B1-AS1	0.343682492	0.148914395	0.793191651	0.012317113
CYP17A1-AS1	0.089553516	0.009388919	0.854180579	0.03599919
CYP17A1	0.181104794	0.064257149	0.510432642	0.001229241
CYLD	0.666656154	0.49643933	0.895236135	0.007024076
CYFIP2	0.808511809	0.681252394	0.959543556	0.014991586
CYCSP45	2.512408528	1.160325669	5.440021522	0.019427596
CYCS	1.410693187	1.139902451	1.745811904	0.001555754
CYB5RL	0.542657492	0.311334922	0.945853269	0.031057317
CYB5R1	0.741937694	0.58260496	0.944845272	0.015523974
CYB5A	0.847791437	0.733712337	0.979607789	0.025130929
CYB561	0.745420632	0.57680315	0.963330244	0.02473674
CXorf66	1350.710952	12.66349595	144069.2271	0.002482026
CXorf40A	0.592564374	0.391714365	0.896399441	0.013218313
CXorf23	0.666744375	0.452056133	0.983391284	0.040910497
CXorf21	0.68033845	0.547146333	0.845953594	0.000530453
CXCR6	0.763302958	0.619864731	0.939933144	0.010982691
CXCR4	0.828951398	0.715915119	0.959835045	0.012140633
CXCL5	1.096085197	1.004320729	1.196234154	0.03972361
CXCL17	0.858812937	0.802850352	0.918676386	9.55E-06
CX3CR1	0.712920201	0.579203277	0.87750749	0.00140834
CX3CL1	0.882735399	0.797678414	0.976862067	0.015830046
CWC25	0.626175803	0.415889548	0.942789109	0.024952794
CUTA	0.723425292	0.538285349	0.972242982	0.031824907
CUL9	0.663599147	0.493352199	0.892595247	0.006704871
CUL4B	1.454057975	1.022420352	2.067921076	0.037218571
CTSZ	0.756480441	0.620772142	0.921856216	0.005665092
CTSW	0.852264272	0.742451989	0.97831833	0.023121132
CTSV	1.272875667	1.119842629	1.446821565	0.000222584
CTSLP7	0.546982802	0.32999586	0.906648303	0.019280531
CTSLP2	0.224123565	0.066159069	0.759251494	0.016288409
CTSL	1.288565709	1.124984513	1.47593284	0.000252028
CTSH	0.797222352	0.709852616	0.895345688	0.000129958
CTSG	0.72722988	0.581021832	0.910229649	0.005414274
CTSF	0.821503863	0.696028163	0.969599555	0.020070412
CTPS1	1.249966728	1.01528581	1.538893586	0.035470357
CTLA4	0.785841234	0.64253244	0.961113255	0.018972419
CTGLF10P	0.14779659	0.022425584	0.974058573	0.046890944

CTF1	0.765252197	0.6455813	0.907106393	0.002044776
CTDNEP1	1.792979793	1.144691589	2.808421561	0.010766421
CTD-3214H19.6	0.593703745	0.438876848	0.803150446	0.000719902
CTD-3214H19.4	8.50E-05	3.09E-08	0.23395778	0.020370311
CTD-3193K9.3	0.190905672	0.045299733	0.804529596	0.024051223
CTD-3187F8.15	0.298165846	0.088988776	0.999034666	0.049817287
CTD-3184A7.4	0.756535459	0.633388625	0.903625165	0.002084426
CTD-3179P9.1	0.003630404	0.000147123	0.08958359	0.000592647
CTD-3138F19.1	7.54303615	1.235926551	46.03622626	0.028561491
CTD-3131K8.2	0.514865882	0.27751505	0.955216218	0.03526822
CTD-3098H1.2	43271335.51	357.1697829	5.24E+12	0.003237186
CTD-3094K11.1	0.728915769	0.542976131	0.978529567	0.035342318
CTD-3088G3.8	0.407101565	0.1735773	0.95480045	0.038799164
CTD-3076O17.2	0.011572168	0.000221253	0.605256692	0.027198289
CTD-3032H12.2	0.589141205	0.425370088	0.815965601	0.001453363
CTD-3032H12.1	0.64639881	0.433122432	0.964695872	0.032687226
CTD-3007L5.1	0.003173642	1.11E-05	0.905540548	0.046112517
CTD-3001H11.1	0.223319483	0.057684712	0.864554745	0.029953869
CTD-2655K5.1	0.511016588	0.280828309	0.92988472	0.02795189
CTD-2653M23.3	0.21498558	0.048410911	0.954718655	0.043291802
CTD-2647E9.3	0.010111319	0.00011082	0.922569113	0.046047132
CTD-2623N2.3	0.664711247	0.464977209	0.950242363	0.025098524
CTD-2623N2.11	0.135101552	0.032344004	0.56432188	0.006063106
CTD-2616J11.14	4.883506121	1.374041877	17.356554	0.014242702
CTD-2589M5.4	0.844094402	0.746124752	0.954927924	0.007088699
CTD-2587M2.1	0.061107476	0.007060398	0.528882842	0.011134108
CTD-2587H24.5	3.249979371	1.027406532	10.28061004	0.044858348
CTD-2583P5.3	0.047011703	0.006605807	0.334569271	0.002261964
CTD-2576F9.1	2.169770575	1.004947655	4.684725939	0.048548923
CTD-2571L23.9	0.094530771	0.013210142	0.676455006	0.018810314
CTD-2568A17.1	3.749285254	1.391051068	10.10540895	0.008990607
CTD-2562J17.4	0.02760419	0.001044666	0.729411609	0.031647789
CTD-2561J22.5	0.725930877	0.531171293	0.992101126	0.044460603
CTD-2561J22.2	0.507910966	0.316017912	0.816325722	0.005138506
CTD-2560E9.3	0.084310161	0.011427693	0.622015614	0.015282784
CTD-2555C10.3	1.896211726	1.489585139	2.413839139	2.04E-07
CTD-2552B11.3	3.56E+38	2009593612	6.32E+67	0.009784078
CTD-2542L18.1	3.54E-05	7.38E-09	0.170185929	0.01781601
CTD-2542C24.3	0.504316207	0.270879981	0.938920756	0.030872795
CTD-2541J13.1	2.894863213	1.113419068	7.526575808	0.029232271
CTD-2540F13.2	0.788389052	0.626650706	0.991872015	0.042394088
CTD-2540B15.12	2.830730728	1.003814642	7.982585745	0.049164542
CTD-2538A21.1	0.069369007	0.005431933	0.885883453	0.040053073
CTD-2537L20.1	1091237.726	102.2650989	11644244106	0.003305284
CTD-2534I21.9	9.400326122	2.145135639	41.19372667	0.002955247
CTD-2531D15.4	0.439110999	0.244495419	0.788638372	0.005873795
CTD-2525I3.2	0.160168005	0.027624863	0.928648566	0.041100352
CTD-2524L6.3	0.160654703	0.050732069	0.508749873	0.00187695
CTD-2517O10.6	0.665186836	0.500313229	0.884393017	0.005026496

CTD-2516F10.2	0.447888222	0.230739793	0.869394296	0.017617902
CTD-2515H24.2	0.274668224	0.10203819	0.739356839	0.010537578
CTD-2515H24.1	0.018613644	0.000504894	0.686218582	0.030421339
CTD-2514K5.4	0.014066652	0.000357985	0.552734255	0.022816208
CTD-2510F5.4	1.280548358	1.117334369	1.467603738	0.000378206
CTD-2385L22.2	468183.1507	3.38068177	64837650378	0.030646986
CTD-2382E5.6	1.542836117	1.017688854	2.338969591	0.041096197
CTD-2378E12.1	0.001764298	8.47E-06	0.367594106	0.019947365
CTD-2377D24.6	1.347636195	1.024702009	1.772342883	0.032798125
CTD-2376I20.1	0.069783316	0.00615764	0.790840474	0.031601755
CTD-2373N4.3	0.72836415	0.57123045	0.928722086	0.010577145
CTD-2370N5.3	0.101154745	0.015842858	0.645860906	0.015429487
CTD-2357A8.3	1.343095509	1.123186145	1.606061073	0.001223553
CTD-2354A18.1	1.712605669	1.355487514	2.163810545	6.51E-06
CTD-2353F22.1	0.525128182	0.318505839	0.865791372	0.01157417
CTD-2342J14.6	0.550862294	0.305110997	0.994553687	0.04791956
CTD-2340D6.1	0.001504989	1.10E-05	0.205168882	0.009553595
CTD-2319I12.2	0.599969974	0.40073449	0.898260515	0.013100104
CTD-2318H23.1	118.0180941	1.383352301	10068.49125	0.035464937
CTD-2316B1.2	312.921763	18.42536676	5314.414147	7.00E-05
CTD-2313J17.6	0.487864898	0.274909381	0.865784054	0.014190013
CTD-2313J17.3	0.087053574	0.008304152	0.912594597	0.041724797
CTD-2310F14.1	0.240159501	0.085589928	0.673871185	0.006732435
CTD-2308B18.2	9.94E+13	391114410.2	2.53E+19	3.86E-07
CTD-2292P10.4	2.437688316	1.124865693	5.282696734	0.023936031
CTD-2290C23.2	0.004347651	0.000193488	0.09769098	0.000615291
CTD-2280E9.1	0.676575149	0.511619092	0.894716282	0.006140443
CTD-2277K2.1	29.19181965	3.111127117	273.9079126	0.003141478
CTD-2272G21.3	5.21E+13	4141.927061	6.56E+23	0.007770025
CTD-2270P14.1	0.650117986	0.467523036	0.90402689	0.010474724
CTD-2270L9.2	0.095297825	0.013679635	0.663882905	0.017615871
CTD-2267D19.1	0.398858669	0.190857654	0.833543924	0.014521301
CTD-2240J17.1	0.118673144	0.015073329	0.93432014	0.04291944
CTD-2232E5.2	0.283888344	0.083458082	0.965665512	0.043810617
CTD-2227E11.1	0.830654195	0.690046182	0.999913353	0.049893053
CTD-2215E18.1	0.002074704	7.14E-05	0.060286851	0.000325905
CTD-2207O23.3	0.000895873	1.71E-06	0.467991279	0.027966354
CTD-2194L12.3	102762.1016	7.329633577	1440733622	0.017843701
CTD-2194D22.4	1672453.919	989.36949	2827156223	0.000157664
CTD-2194D22.3	1.644406544	1.07476643	2.515963289	0.021890318
CTD-2192J16.20	0.07960207	0.014013418	0.452173006	0.004296629
CTD-2192J16.11	0.266629385	0.090878657	0.782265395	0.016078815
CTD-2186M15.3	0.645587236	0.498100152	0.836745136	0.000943405
CTD-2168K21.1	367.583678	13.64921096	9899.309251	0.000438965
CTD-2152M20.2	0.637089374	0.409556988	0.991029044	0.045506906
CTD-2151L9.2	51.86614758	2.486692412	1081.797351	0.010842925
CTD-2147F2.1	1.284837676	1.100028429	1.500695626	0.001560555
CTD-2135J3.3	0.256333066	0.07577349	0.867145495	0.028581513
CTD-2135D7.2	6.80E-05	1.02E-07	0.045325261	0.003820745

CTD-2130O13.1	1.979175778	1.045559183	3.74645149	0.03601114
CTD-2130F23.2	14.91887876	1.726123561	128.9438072	0.014047933
CTD-2129N1.1	1.471496804	1.076595282	2.011250543	0.015397757
CTD-2124B20.2	5.25E+12	62473.10798	4.41E+20	0.001654522
CTD-2116N24.1	3399.671451	38.80678218	297828.5064	0.000366456
CTD-2066L21.3	1.673527457	1.225358885	2.285611328	0.001204152
CTD-2066L21.2	1.886215046	1.492326535	2.384067507	1.10E-07
CTD-2066L21.1	4.385905698	2.535657442	7.586264799	1.24E-07
CTD-2062O1.1	667987.6574	3.40095981	1.31E+11	0.031020752
CTD-2033D24.2	3.285410396	1.121298308	9.626271075	0.030105559
CTD-2027I19.3	0.638672082	0.42981301	0.94902206	0.026493115
CTD-2026K11.5	0.411617141	0.213053596	0.795239667	0.008245649
CTD-2026K11.4	0.231000379	0.075220618	0.709395594	0.010475244
CTD-2026G6.3	0.443452346	0.218770461	0.898887271	0.024092073
CTD-2024P10.2	0.559254244	0.333227859	0.938592921	0.027817266
CTD-2024P10.1	0.290321232	0.089016768	0.946860004	0.040316193
CTD-2021H9.2	2.844003192	1.211616675	6.675670878	0.016355108
CTD-2021H9.1	1.77277178	1.09027582	2.882499754	0.02097443
CTD-2017D11.2	0.594264556	0.430355202	0.820602053	0.001573499
CTD-2017D11.1	0.729113996	0.573920865	0.926272681	0.009677674
CTD-2017C7.1	0.196464022	0.07331429	0.526474605	0.001213898
CTD-2016O11.1	1.7791594	1.05346867	3.004748278	0.03117948
CTD-2014B16.5	2.627028593	1.208900505	5.70872392	0.014726538
CTD-2014B16.3	3.923530667	1.9838995	7.759512463	8.53E-05
CTD-2012K14.6	0.377970413	0.153419621	0.93118228	0.03443379
CTD-2008P7.9	0.648840911	0.421578687	0.998614355	0.049267788
CTD-2007L18.5	0.419952935	0.192748092	0.914979057	0.028992373
CTD-2007H13.1	0.100328963	0.010595983	0.94997331	0.044994061
CTD-2006C1.2	0.299215081	0.12934478	0.692178414	0.004805981
CTD-2006C1.12	0.540399581	0.310722949	0.939845955	0.029280873
CTD-2003D5.1	3.102299623	1.146955158	8.391141431	0.025744948
CTD-2001C12.1	27.01813368	2.385998374	305.9430196	0.007761565
CTCFL	1.360627172	1.064126081	1.739743375	0.014065588
CTC-573M9.1	109.0498115	15.05591239	789.8466122	3.41E-06
CTC-559E9.9	1.26E-05	9.37E-09	0.016893602	0.002137164
CTC-559E9.8	0.680481208	0.51809061	0.893771602	0.00565268
CTC-559E9.6	0.37899043	0.234317525	0.612987637	7.66E-05
CTC-559E9.5	0.568877925	0.428658364	0.754965073	9.36E-05
CTC-559E9.4	0.193561242	0.063241597	0.592425807	0.004011644
CTC-559E9.1	0.445910769	0.251271255	0.79132177	0.005785029
CTC-546K23.2	15746.18734	181.871412	1363284.164	2.18E-05
CTC-546K23.1	17.33449673	4.243910314	70.80375282	7.09E-05
CTC-529I10.1	0.734309053	0.546948316	0.98585144	0.039900843
CTC-523E23.1	1.452574678	1.014124548	2.080585861	0.041703072
CTC-510F12.3	0.47356191	0.231605395	0.968288679	0.04053366
CTC-508F8.1	0.168473114	0.032114671	0.883807597	0.035202394
CTC-505O3.1	4.752816595	1.374146522	16.43876052	0.013817643
CTC-499B15.1	2.50E+12	21.77396667	2.87E+23	0.028016207
CTC-498J12.1	0.790486434	0.638187177	0.979130928	0.031310418

CTC-497E21.3	0.608925378	0.439066923	0.844495673	0.002950297
CTC-471J1.10	0.421038619	0.194207023	0.912806942	0.028448651
CTC-463N11.1	5.61E-13	1.13E-23	0.02779131	0.024759082
CTC-458I2.2	0.367540623	0.16823615	0.802955306	0.012060334
CTC-457L16.2	0.007958737	0.000160313	0.395112294	0.015264441
CTC-457L16.1	0.000756043	4.77E-06	0.119921284	0.00542856
CTC-457E21.4	316471705.2	2.49650189	4.01E+16	0.039775664
CTC-439O9.1	0.036550054	0.001532514	0.87170927	0.040873923
CTC-436P18.3	1.423442713	1.069573618	1.894389617	0.015469715
CTC-436K13.3	18929.28105	12.07089014	29684445.56	0.00870386
CTC-436K13.1	0.001088354	3.16E-06	0.374692094	0.0220599
CTC-429P9.5	0.674017157	0.517418759	0.878010548	0.00345184
CTC-429P9.3	0.674911844	0.524614229	0.868268476	0.0022212
CTC-429P9.2	0.666314718	0.522207094	0.850190103	0.001093714
CTC-429P9.1	0.585679943	0.4127183	0.831126209	0.002737502
CTC-428H11.2	0.529943136	0.320988337	0.874921906	0.01305295
CTC-428G20.6	0.292165334	0.106579435	0.800910444	0.016781928
CTC-412M14.6	0.239709812	0.089769079	0.640095612	0.004368695
CTC-412M14.5	0.138424811	0.029266428	0.65472386	0.012624494
CTC-394G3.2	22708065852	334399.4797	1.54E+15	2.66E-05
CTC-360J11.7	2.27E+13	3.277549117	1.58E+26	0.041484824
CTC-360J11.6	305.7129116	4.656672368	20070.20828	0.007350999
CTC-340I23.2	0.260940313	0.074248106	0.917058363	0.036172559
CTC-326K19.6	2.44E+24	26757480917	2.23E+38	0.000617154
CTC-325H20.2	0.161131445	0.037904577	0.684965894	0.013419568
CTC-311G1.1	6595.769993	17.68793654	2459539.681	0.003603955
CTC-308K20.4	0.31301801	0.124610332	0.786293346	0.013452102
CTC-304I17.5	8.51E-10	1.89E-18	0.382937303	0.039938055
CTC-297N7.7	934.0949742	1.236203908	705816.7469	0.043106948
CTC-296K1.4	0.370220716	0.161028734	0.851173422	0.019318429
CTC-296K1.3	0.475869403	0.243828628	0.928732983	0.029505033
CTC-281M20.4	9.65E+16	744535.6644	1.25E+28	0.002738958
CTC-273B12.10	0.409780124	0.194543517	0.863147497	0.018917138
CTC-268N12.3	0.118942014	0.018412835	0.768333746	0.025297682
CTC-239J10.1	0.051963826	0.004399596	0.613747046	0.018900688
CTC-232P5.1	0.635999001	0.40836214	0.990529459	0.045278268
CTBP2	1.623210691	1.152368197	2.286433238	0.005582934
CTB-66B24.1	0.273552893	0.077741121	0.962568894	0.043446088
CTB-60B18.17	536.5407573	7.128565571	40383.43778	0.004360134
CTB-58E17.3	0.533797916	0.355816029	0.800807698	0.002418423
CTB-58E17.1	0.561735882	0.386988485	0.815391706	0.002418133
CTB-55O6.8	0.763776617	0.620478221	0.940169536	0.011024775
CTB-51J22.1	0.796349892	0.684705975	0.926197775	0.00312896
CTB-50L17.14	0.512135704	0.273976916	0.957317803	0.036025987
CTB-46B19.1	0.151856331	0.025475738	0.90518851	0.038515397
CTB-43E15.1	0.530538083	0.316154157	0.890295611	0.016398416
CTB-31O20.2	0.607783102	0.461039217	0.801234006	0.000412859
CTB-31N19.5	3.576798975	1.172061473	10.91537534	0.025164644
CTB-31N19.2	7.450262454	2.623201675	21.15979537	0.000162767

CTB-193M12.5	1.219862452	1.003583582	1.482750844	0.045946019
CTB-191K22.6	0.567740113	0.361770017	0.890977198	0.013815937
CTB-167B5.1	0.402976073	0.163206697	0.994994188	0.048741489
CTB-162E12.1	1522758562	3084.594137	7.52E+14	0.001571636
CTB-152G17.6	0.236282595	0.092734986	0.602032388	0.002499881
CTB-147N14.4	4.889177451	1.119293046	21.35638762	0.034877027
CTB-140J7.2	0.143778987	0.021412975	0.965414514	0.045913144
CTB-131B5.5	0.564780197	0.351369803	0.907809004	0.018304626
CTB-113P19.4	0.115459254	0.013946963	0.955823825	0.045299756
CTAGE10P	2.67E-07	4.88E-13	0.146533108	0.024779331
CTAG1B	7023.153314	3.373882251	14619562.51	0.023092797
CTA-929C8.7	55.72070864	1.277852501	2429.699335	0.036865079
CTA-833B7.2	2.154395437	1.067329488	4.348628752	0.032209796
CTA-503F6.2	5.013425895	1.092314738	23.01025367	0.038122448
CTA-392C11.1	2.232987433	1.58843911	3.139077124	3.78E-06
CTA-38K21.3	0.604029559	0.375258416	0.972267888	0.037915767
CTA-384D8.35	0.870797748	0.763414034	0.993286321	0.039371472
CTA-384D8.34	0.847568215	0.723139036	0.99340769	0.041189892
CTA-369K23.1	3.77E+45	1.15E+16	1.23E+75	0.00247277
CTA-313A17.2	0.43879576	0.211779939	0.909159385	0.026678517
CTA-292E10.9	0.638567968	0.427282469	0.954331336	0.028670272
CTA-292E10.8	0.388488909	0.202461841	0.745442361	0.004462506
CTA-246H3.8	0.228326171	0.075542987	0.690108277	0.00886514
CTA-246H3.11	0.464918236	0.257445394	0.839591505	0.011093445
CTA-221G9.12	0.656427335	0.505504586	0.852409371	0.001588749
CTA-109P11.1	32499851.22	87.89626212	1.20E+13	0.008186919
CT867976.1	114.6851811	3.307791692	3976.275408	0.008762201
CST8	24.05814132	1.8266948	316.853239	0.015604522
CST5	0.707329379	0.538513189	0.929067032	0.012817797
CSRNP3	0.53500549	0.290637428	0.984838315	0.044533287
CSNK2B-LY6G5B-562	6.069183351	1.151407355	31.99127259	0.033486536
CSNK1E	1.653980894	1.271281439	2.151886054	0.000178514
CSGALNACT1	1.297998582	1.06156221	1.587095229	0.011013477
CSF2RB	0.804292714	0.683097892	0.946989849	0.008959706
CSE1L	1.297194153	1.03826739	1.620692979	0.021989931
CRYM	0.901199485	0.818209207	0.992607398	0.034815325
CRYL1	0.687535507	0.547353527	0.863619305	0.001280639
CRYGN	0.656391617	0.470370901	0.915979185	0.013281016
CRYBA4	0.196894786	0.051152599	0.757880491	0.01812312
CRY2	0.744700107	0.60345034	0.919012241	0.00601408
CRTC1	0.748750568	0.572864669	0.978638487	0.034173077
CRTAM	0.72363112	0.539071266	0.971378056	0.031297307
CRTAC1	0.834531607	0.75255132	0.925442537	0.000606588
CRP	1.311819078	1.010966072	1.702202816	0.041149612
CROCCP3	0.596194961	0.386579883	0.919469552	0.019294154
CROCCP2	0.729931586	0.591607868	0.900596744	0.00331802
CROCC	0.782887733	0.617877458	0.991965631	0.042686914
CRNDE	0.700994649	0.607430956	0.808970128	1.17E-06
CRISP3	1.235715264	1.076571985	1.418383753	0.00262226

CRISP2	0.761630937	0.588912672	0.985004589	0.037976586
CREG2	1.571697734	1.275920875	1.936039935	2.13E-05
CREBRF	0.552586987	0.391779567	0.779398426	0.000723933
CRCT1	1.310024968	1.068521784	1.606111773	0.009392094
CRBN	0.5338087	0.360008328	0.791514268	0.001788293
CRB1	4.50706243	1.783005524	11.39290455	0.001461536
CR2	0.823195681	0.714769129	0.948069946	0.006933875
CR1	0.692397086	0.479661029	0.99948442	0.049679002
CPXM2	0.854627513	0.748479849	0.975828792	0.020256126
CPXM1	1.158209219	1.007829839	1.331026869	0.038463726
CPT2	0.691947285	0.480911031	0.995591732	0.047282141
CPSF2	1.557889465	1.090565089	2.225469721	0.01483349
CPS1	1.09516355	1.039175852	1.154167698	0.000685676
CPNE5	0.811971808	0.672843293	0.979868899	0.029853274
CPLX2	1.102175341	1.019689034	1.191334261	0.014236811
CPED1	0.684231664	0.530953528	0.881758844	0.003363355
CPEB3	0.499500467	0.287379247	0.868193229	0.01385171
CPAMD8	0.821759806	0.714064352	0.945697929	0.006163475
CPA3	0.860794674	0.780648582	0.949169047	0.002645482
COX6CP4	15.89422942	1.975583394	127.8743937	0.009323233
COX6CP13	0.045883729	0.00344589	0.610964623	0.019649311
COX6B2	1.450658673	1.052604642	1.999241217	0.023011802
COX4I2	0.833126493	0.704565143	0.985146313	0.032763829
COX14	0.712562565	0.542939756	0.935178173	0.014561197
CORO7	0.692982144	0.491029585	0.977994539	0.036928129
CORO1A	0.80447836	0.690094065	0.937822053	0.005429974
COQ10A	0.599236308	0.431956841	0.831296368	0.00216719
COPZ1	1.556402374	1.07433974	2.25476938	0.019329267
COPS8	1.502478773	1.052883548	2.144057117	0.024831758
COLGALT1	1.275041921	1.018544438	1.596132521	0.03398025
COLCA1	0.733906149	0.616589058	0.873544913	0.000499041
COL9A2	0.883440082	0.784024486	0.995461739	0.041887101
COL7A1	1.180238733	1.047615413	1.32965156	0.006433692
COL6A6	0.673757635	0.513311084	0.884355248	0.004433302
COL6A5	0.589309383	0.40201224	0.863868097	0.006731167
COL6A1	1.145068082	1.005914241	1.303471865	0.040445966
COL5A2	1.146917333	1.024387835	1.284102878	0.017408938
COL5A1	1.137145738	1.014138465	1.275072856	0.027783956
COL4A6	1.430007082	1.099486899	1.859885968	0.007648342
COL4A4	0.812690722	0.688947613	0.958659552	0.013858679
COL4A3	0.774443993	0.659719192	0.909119374	0.001779873
COL4A2	1.165621768	1.007193533	1.348970245	0.039769984
COL4A1	1.179650061	1.020603125	1.363482271	0.025354324
COL22A1	1.270934118	1.05830879	1.526278102	0.010268086
COL21A1	0.823373826	0.683947551	0.991222874	0.040063218
COL1A2	1.118203154	1.00720995	1.241427662	0.036201603
COL1A1	1.107692644	1.010405957	1.214346556	0.029206964
COL12A1	1.108725378	1.007699634	1.219879339	0.034233348
COL11A1	1.095974112	1.011791443	1.187160913	0.024611753

COG3	0.671923202	0.462448834	0.976282686	0.036989019
COBL	1.224964321	1.016908545	1.475587549	0.032637864
COA6	1.287053476	1.069041383	1.549525282	0.007698593
CNTNAP3	3.572055325	1.820443647	7.009049286	0.000213985
CNTNAP2	1.256874222	1.0688175	1.478019222	0.005696039
CNTN6	0.647290867	0.42620167	0.983068573	0.041344741
CNTN3	0.699941175	0.52031293	0.94158269	0.018384975
CNTLN	1.476284579	1.017063084	2.142852487	0.040465983
CNR2	0.466442079	0.259340858	0.838927637	0.010884163
CNPY1	31.44390025	3.609247503	273.9404438	0.001795857
CNPPD1	0.650794962	0.453955169	0.932986586	0.019418277
CNNM1	1.502396819	1.151215163	1.960707498	0.002730069
CNN2P8	3.671837738	1.002656261	13.4466745	0.049533633
CNKSR1	0.778406464	0.622926362	0.972693821	0.027559974
CNIH1	1.474932968	1.170603892	1.858380342	0.00098095
CNGA3	0.843852822	0.720966107	0.987685244	0.03449182
CNBD1	7.527990377	1.439711041	39.36250922	0.016767161
CMTM7	0.71246218	0.578904271	0.876832982	0.001369769
CMTM5	0.005235327	5.70E-05	0.481063221	0.02277258
CMIP	1.298840073	1.061227818	1.589654461	0.011198628
CMAS	1.408333598	1.134822577	1.747765302	0.001883798
CMAHP	0.709203538	0.607583927	0.82781923	1.33E-05
CLVS2	3.214068619	1.395163841	7.404318248	0.006105252
CLUL1	0.658398589	0.487449168	0.889300321	0.006433067
CLUHP3	0.724418807	0.586490242	0.894784891	0.002775309
CLTB	1.340754639	1.092718456	1.64509256	0.004961646
CLSPN	1.322675827	1.096365132	1.595701371	0.003490737
CLRN3	1.236226645	1.027931647	1.486729513	0.024284839
CLPTM1	1.471540526	1.104103464	1.961257791	0.008398154
CLNK	0.50551065	0.258080414	0.990160444	0.046724221
CLN6	1.322581207	1.001714903	1.746226442	0.048603938
CLMP	1.190590894	1.032777805	1.372518532	0.016194321
CLK4	0.646157135	0.473587159	0.881609722	0.005872459
CLK1	0.784377829	0.631851356	0.973723602	0.027713543
CLIC6	0.855090012	0.791487143	0.923803923	7.20E-05
CLIC5	0.848883532	0.743621528	0.969045709	0.015288618
CLIC1	1.394881275	1.057324689	1.840204613	0.018558651
CLHC1	0.618616206	0.40077903	0.954855373	0.030116976
CLECL1	0.544437873	0.37560995	0.789150015	0.001326099
CLEC9A	0.394451876	0.17835787	0.872360062	0.021609298
CLEC7A	0.816555891	0.70673697	0.943439429	0.005958906
CLEC4F	0.553547943	0.348664314	0.878826174	0.012153458
CLEC4A	0.811846566	0.687292491	0.958972863	0.014168938
CLEC3B	0.766642049	0.674811593	0.870969079	4.46E-05
CLEC2D	0.7031981	0.550088977	0.898922882	0.004946868
CLEC18B	0.17219167	0.029829179	0.993992198	0.049217706
CLEC18A	0.000986647	6.77E-06	0.143794035	0.006470031
CLEC17A	0.391298475	0.239810076	0.638482331	0.000172681
CLEC12B	0.108217413	0.015684848	0.746644684	0.024042868

CLEC12A	0.745413139	0.597957699	0.929230861	0.008985109
CLEC10A	0.787243267	0.672657239	0.921348832	0.002876483
CLDN6	1.06866882	1.002721878	1.138952956	0.040992631
CLDN24	3.763431536	1.505365916	9.408620709	0.004584063
CLDN23	0.791784873	0.648901249	0.966130494	0.021487267
CLDN2	0.897618611	0.830163277	0.970555061	0.006732799
CLDN18	0.918972708	0.855332488	0.987348019	0.021015863
CLDN14	1.802709583	1.188375549	2.734625299	0.005575964
CLCN6	0.672431357	0.510089898	0.886439688	0.004877683
CLCN3	1.392358357	1.057496069	1.833256738	0.018360757
CLCN1	2.20231558	1.358844937	3.569350544	0.001352592
CLASP2	0.632218805	0.402428014	0.993222648	0.046649314
CKS2	1.15996738	1.008061289	1.334764402	0.038258272
CKS1B	1.307176886	1.118166873	1.52813632	0.000774864
CKAP4	1.442179262	1.169376839	1.778623413	0.000620409
CKAP2L	1.403773374	1.178214238	1.672513895	0.000147637
CKAP2	1.242085358	1.013689789	1.521940984	0.036517627
CISH	0.722541889	0.618200039	0.844494902	4.43E-05
CISD2	1.371761697	1.004997595	1.872372795	0.046440238
CISD1P1	0.022493216	0.000660317	0.766214511	0.035040379
CISD1	1.403301444	1.041497232	1.890792296	0.025931782
CIRBP	0.693332845	0.55963965	0.858964216	0.000805396
CIITA	0.760290345	0.642347146	0.899889433	0.00144051
CIDEC	1.450150671	1.218168738	1.726310078	2.93E-05
CIDEB	0.218918312	0.08194036	0.584879382	0.002448059
CIDEA	3.381612977	1.277504675	8.951283347	0.014164233
CIB2	1.246020448	1.059633104	1.465192953	0.007800026
CHST11	1.203213464	1.005770199	1.439416917	0.04308571
CHRNA6	0.085905154	0.018890608	0.390654199	0.001491676
CHRNA2	0.002528662	1.03E-05	0.620768545	0.033190353
CHRDL1	0.806123407	0.712575441	0.911952491	0.000616066
chr22-38_28785274-29006793.1	0.00124391	6.16E-06	0.251124641	0.013502933
CHPF	1.216415828	1.006809869	1.46965928	0.042326175
CHORDC2P	3.77599203	1.525119041	9.348854368	0.004073089
CHMP1AP1	359970.3516	2.577472017	50273544459	0.034293453
CHML	1.216675126	1.04679494	1.414124491	0.010588712
CHKB	0.732736064	0.565164183	0.949993215	0.018916328
CHKA	0.710887161	0.583964718	0.865395699	0.0006722
CHIT1	0.888820986	0.810478891	0.974735744	0.012296826
CHIAP2	0.728443049	0.533971756	0.993740342	0.045544293
CHIA	0.872760607	0.770762974	0.988255927	0.031851441
CHEK2P4	615.031681	10.00063546	37823.99328	0.002245823
CHEK1	1.423292762	1.183868351	1.711138139	0.000172602
CHDH	0.772711481	0.616549151	0.968427306	0.025189952
CHD9	0.690381202	0.500204661	0.952862381	0.024217606
CHD6	0.781281913	0.614514283	0.993307145	0.043927569
CHD1L	1.292229658	1.005757728	1.660297945	0.044977854
CHCHD4P2	93.76728947	1.908347206	4607.287682	0.02230193
CHCHD4	1.523758789	1.077402654	2.15503539	0.017241505

CHCHD3	1.403520245	1.023875698	1.923933815	0.035152732
CHCHD2P7	0.180376453	0.035245557	0.92311394	0.039782304
CHCHD2P3	353.1840212	6.973197682	17888.34312	0.003392162
CHCHD2P2	1.172250947	1.000222201	1.373867007	0.049680134
CHCHD2	1.251702282	1.033820119	1.515504074	0.0214008
CHAF1B	1.376742704	1.113527028	1.702177337	0.003144638
CHAF1A	1.28768553	1.02674063	1.614949263	0.028643302
CHADL	0.653399197	0.49099488	0.869521309	0.003512413
CHAD	0.828788194	0.700029393	0.981230042	0.029263304
CH507-396I9.6	0.230995467	0.054504011	0.978990441	0.046725277
CH507-154B10.2	24.20019544	1.960694949	298.6948378	0.012952337
CH25H	0.851586452	0.76065649	0.953386311	0.005295061
CH17-60O17.1	0.498602182	0.254029366	0.978643299	0.043103286
CH17-472G23.4	0.499300374	0.312834965	0.796908566	0.003595299
CH17-472G23.1	0.284870402	0.105588161	0.768562929	0.013145765
CH17-451C3.1	34.67527503	3.406639694	352.9503577	0.002741406
CH17-38B12.4	2.81E+14	984317.3974	8.00E+22	0.000810299
CH17-385C13.2	0.514096019	0.292530169	0.903478494	0.020733802
CH17-360D5.3	1.318493743	1.1220214	1.549369514	0.000783857
CH17-360D5.2	1.238052968	1.021862473	1.499981839	0.029195643
CH17-340M24.3	0.686598057	0.564954193	0.834433831	0.000157339
CH17-264B6.4	9.10E+25	167510.7892	4.94E+46	0.014136815
CH17-13I23.3	1.518704569	1.245436225	1.851932296	3.65E-05
CGNL1	0.759076344	0.633751143	0.909184784	0.002752735
CFTR	0.777411779	0.66919316	0.903130979	0.000994129
CFP	0.7087558	0.514021178	0.977264762	0.03570461
CFL1	1.908055258	1.347482306	2.701835009	0.00027221
CFAP52	0.769220644	0.609248579	0.971197011	0.027408599
CFAP44	0.74513627	0.560123758	0.991259615	0.04335748
CFAP221	0.814725768	0.680861644	0.974908901	0.025257496
CES5A	7.742937919	1.292503242	46.38525126	0.025034094
CES4A	0.725770088	0.591922378	0.889883944	0.002058796
CES1P2	26.00127012	5.187111575	130.3357443	7.45E-05
CERS6-AS1	8.68E-05	1.32E-08	0.569979869	0.037040012
CERS4	0.708313369	0.612468808	0.819156537	3.33E-06
CERKL	0.708787482	0.573908097	0.875366103	0.001393783
CEP70	0.765632068	0.604971814	0.968958304	0.026257426
CEP68	0.634516263	0.431552604	0.932935832	0.020726572
CEP55	1.275095673	1.114001346	1.459485647	0.000420931
CEP104	0.689846105	0.481775665	0.98777851	0.042652158
CENPW	1.167053419	1.021385303	1.333496457	0.023144932
CENPU	1.315138742	1.12646437	1.535414662	0.000526011
CENPO	1.350679812	1.046244187	1.743699969	0.021061316
CENPN	1.35176219	1.099286869	1.662224001	0.004271864
CENPM	1.313851391	1.114825436	1.548408764	0.001126297
CENPK	1.371431491	1.113405415	1.689253805	0.002976971
CENPI	1.309920116	1.047825547	1.637572892	0.017782978
CENPH	1.47586986	1.194585194	1.823387613	0.000308539
CENPF	1.263007639	1.101983238	1.447561307	0.000792097

CENPE	1.445794257	1.171206187	1.784759213	0.000602364
CENPC	0.475839306	0.301472181	0.751057842	0.001426048
CENPA	1.227965784	1.070859705	1.408120934	0.003280693
CEMIP	1.120003401	1.014640957	1.236306902	0.02455642
CEL	0.793411932	0.631117561	0.997440942	0.047489443
CECR1	0.799333722	0.693260413	0.92163693	0.00204679
CEBPG	1.31495418	1.049811866	1.647061298	0.017169726
CEBPB	1.245720146	1.024637678	1.514504801	0.027515267
CEBPA	0.861070567	0.753582571	0.983890219	0.027899723
CEACAMP11	114.3855866	8.127906071	1609.770377	0.000443033
CEACAM21	0.725195612	0.571789379	0.919759435	0.008055579
CEACAM19	1.270228443	1.043388155	1.546385484	0.017166283
CDY8P	4.75E+32	227.9521526	9.92E+62	0.034653445
CDY2B	2.51E+108	3.49E+35	1.81E+181	0.003544322
CDY11P	17224.90015	86.37283083	3435075.386	0.000305935
CDY10P	135783.365	482.0389462	38248200.39	4.02E-05
CDX2	1.539595332	1.23961892	1.912163286	9.51E-05
CDT1	1.283511767	1.104826966	1.491095445	0.001101184
CDRT1	3.267281714	1.070925742	9.968132597	0.037491738
CDR1	18.29611283	4.278128853	78.24629793	8.84E-05
CDO1	0.712894116	0.522288296	0.973060327	0.033006219
CDKN3	1.317019834	1.150053539	1.508226517	6.85E-05
CDKL2	0.776570964	0.662132773	0.910787817	0.001878496
CDKAL1	0.642419001	0.449581857	0.917968923	0.015099971
CDK5R1	1.443632957	1.169769341	1.78161287	0.000623944
CDK20	0.617948762	0.421611923	0.905716019	0.013600766
CDK2	1.275401606	1.014149192	1.603954595	0.037515946
CDK15	0.231069255	0.071316065	0.748681247	0.014584951
CDK1	1.273785278	1.116573093	1.453132756	0.00031753
CDIP1	0.724865481	0.58819116	0.893297963	0.002540758
CDHR5	1.155659874	1.00536803	1.328418754	0.041822603
CDHR3	0.859669713	0.742769156	0.994968637	0.042600878
CDHR2	1.211942864	1.04588363	1.404368004	0.010568779
CDH26	0.74048147	0.618443843	0.886600801	0.001076061
CDH24	1.236518176	1.044103613	1.464392212	0.013890709
CDH2	1.151985718	1.003481538	1.322466875	0.044503106
CDH19	1.810207591	1.110795913	2.950003224	0.017234296
CDH17	1.174978622	1.075297013	1.283900862	0.000363919
CDCP1	1.344310309	1.16104735	1.556500007	7.59E-05
CDCA8	1.232580071	1.073316802	1.415475494	0.003053822
CDCA5	1.31606255	1.144234411	1.513693889	0.000119347
CDCA4P2	49149.48542	20.72976655	116531554.3	0.006438586
CDCA4	1.389352375	1.146678614	1.683383643	0.000786846
CDCA3	1.319608841	1.105576582	1.575076319	0.0021295
CDCA2	1.449932475	1.193240868	1.761843931	0.000186122
CDC73	1.453988219	1.043862717	2.025248825	0.026838275
CDC6	1.265332592	1.096653265	1.459956962	0.001264623
CDC45	1.225039592	1.06487204	1.409297968	0.004523127
CDC42P4	0.195017942	0.041879686	0.908125183	0.037273596

CDC42EP2	1.503291574	1.215565585	1.859122687	0.000169306
CDC42BPB	1.497114143	1.155160154	1.940294382	0.002286754
CDC37L1	0.651380848	0.452774631	0.937104203	0.020886218
CDC37	1.418581609	1.016740236	1.979240824	0.039622658
CDC27	1.494445601	1.061331228	2.104307869	0.021399612
CDC25C	1.518514182	1.238554783	1.861754806	5.88E-05
CDC25A	1.403246426	1.133010904	1.737936082	0.001908117
CDC20P1	1.704744888	1.183403006	2.455761156	0.004181321
CDC20	1.211368754	1.081783089	1.356477349	0.00089451
CDC14A	0.710598401	0.520756643	0.969646945	0.031214625
CDADC1	0.421601855	0.235052923	0.756204699	0.003762678
CDA	1.099367019	1.017203296	1.188167446	0.016832471
CD99L2	0.768239989	0.625486307	0.943574104	0.011946803
CD99	1.296270259	1.044095588	1.609351292	0.018728212
CD9	0.830011711	0.706719893	0.974812578	0.023153563
CD8BP	0.386524373	0.15709524	0.951022392	0.038519512
CD84	0.804723826	0.673383976	0.961680792	0.016859758
CD83	0.822237842	0.701208572	0.96415688	0.015984273
CD81	0.784995783	0.631821924	0.975303888	0.028834014
CD80	0.641552901	0.443652372	0.92773115	0.018345848
CD79B	0.803523373	0.695601412	0.928189334	0.002952645
CD79A	0.862739353	0.785373352	0.947726568	0.002070169
CD74	0.862733636	0.776662786	0.958342979	0.005897007
CD69	0.807759119	0.691865346	0.943066157	0.006896418
CD6	0.7589819	0.619536486	0.929813718	0.0077552
CD53	0.871391603	0.765193474	0.992328545	0.037884427
CD52	0.842495498	0.747615015	0.949417347	0.004931904
CD5	0.744313664	0.624305788	0.887390189	0.000995656
CD48	0.835903142	0.727110721	0.960973401	0.01175097
CD47	0.789911361	0.658101358	0.948121366	0.011344804
CD40LG	0.603035786	0.459661858	0.791129724	0.000260791
CD4	0.867495781	0.754555671	0.997340501	0.045783435
CD3G	0.800906926	0.642349002	0.998603411	0.048566221
CD3EAP	1.632735305	1.225796246	2.174769733	0.000802494
CD3D	0.862468772	0.755370992	0.984751056	0.028734315
CD37	0.822509537	0.708779689	0.954488325	0.010069267
CD33	0.675510951	0.500332892	0.91202288	0.010430628
CD302	0.691774544	0.573815631	0.833982196	0.0001119
CD300LG	0.44769683	0.221392034	0.905328201	0.025300262
CD300LF	0.790162564	0.670079661	0.931765152	0.005105832
CD2AP	1.337814718	1.059549001	1.689160404	0.014439924
CD28	0.695249235	0.526337095	0.918368671	0.010478446
CD276	1.427379599	1.089432734	1.870159079	0.009841808
CD27	0.845703634	0.74016742	0.966287651	0.013730933
CD247	0.770864576	0.622493146	0.95460038	0.017035619
CD226	0.39385875	0.212090858	0.731406892	0.003173788
CD22	0.747988818	0.612582124	0.913326149	0.004375362
CD207	0.90185241	0.821976197	0.989490661	0.029017797
CD200R1L	0.110224169	0.019939967	0.609297268	0.011474496

CD200R1	0.424904267	0.278799087	0.647576137	6.86E-05
CD2	0.836896621	0.730983758	0.958155289	0.009904834
CD1E	0.77776713	0.66018187	0.916295548	0.002653727
CD1D	0.637923665	0.491145459	0.828566355	0.000752791
CD1C	0.811473733	0.711085702	0.926034116	0.001932251
CD1B	0.708594422	0.559223518	0.897862909	0.004345257
CD1A	0.895958133	0.805661826	0.996374596	0.04266495
CD19	0.768647604	0.646000391	0.914580157	0.003010029
CD180	0.764082457	0.611122533	0.955327237	0.018227872
CD164L2	0.787180538	0.656355519	0.944081647	0.009866375
CD160	0.207547391	0.067086358	0.64209656	0.006356707
CD109	1.31935911	1.16105418	1.499248262	2.14E-05
CD101	0.642564033	0.468813122	0.880710282	0.005965358
CCT8L1P	0.000245618	1.63E-07	0.369026718	0.025942397
CCT8	1.540741249	1.137534052	2.086868162	0.005231614
CCT7	1.534818653	1.109505455	2.12316964	0.009664549
CCT6P1	0.717193552	0.554570485	0.927504446	0.011290904
CCT6A	1.458511498	1.221105237	1.742074086	3.13E-05
CCT5	1.279173453	1.042176173	1.570065375	0.018516878
CCT4	1.461740623	1.134868124	1.882761181	0.003285919
CCT3	1.408135539	1.112585064	1.782196939	0.004405523
CCT2	1.180702395	1.026677411	1.357834632	0.019852626
CCR7	0.815682235	0.69600317	0.955940341	0.011850655
CCR6	0.091066857	0.020550704	0.403546873	0.001606661
CCR4	0.731383651	0.596640123	0.896557278	0.002603958
CCR2	0.65747613	0.536857988	0.805194059	5.01E-05
CCPG1	0.729256292	0.534816833	0.99438669	0.045983761
CCNT2-AS1	0.519721764	0.31000489	0.871311135	0.013046418
CCNL2	0.836253978	0.719920367	0.971386209	0.019292795
CCNG2P1	8151.056095	1.619919875	41014198.59	0.038369514
CCNF	1.246261566	1.011274922	1.535851287	0.038909899
CCNE1	1.19273964	1.047009433	1.358753611	0.00802823
CCND2P1	30.38641265	5.497635925	167.9511132	9.09E-05
CCND2	0.835073867	0.701850705	0.993585043	0.04209907
CCNB2	1.284570323	1.119763106	1.473633938	0.00035072
CCNB1IP1P1	0.000458842	1.18E-06	0.178963617	0.011563626
CCNB1	1.33362251	1.163665557	1.528402202	3.49E-05
CCNA2	1.319065087	1.155949134	1.505198329	3.93E-05
CCM2	1.339873112	1.05532097	1.701150652	0.016304413
CCL3L3	0.784165074	0.637913439	0.963947185	0.020964957
CCL20	1.105926117	1.027193676	1.190693249	0.007539731
CCL17	0.880001886	0.789838802	0.980457426	0.020459383
CCL14	0.595169752	0.405478203	0.873603147	0.008047538
CCL13	0.897732658	0.815685864	0.988032233	0.027371545
CCIN	2.364590897	1.029511494	5.431012809	0.042507369
CCDC90B	1.329754012	1.042509858	1.696142938	0.021718952
CCDC89	0.684113766	0.486342759	0.962308243	0.029208812
CCDC88C	0.739706637	0.595137113	0.919394701	0.00657957
CCDC86	1.388013073	1.082293285	1.780090773	0.009795392

CCDC85C	1.430015852	1.033277312	1.979086654	0.030973602
CCDC85B	1.291057298	1.069227606	1.558909381	0.007910719
CCDC85A	0.57115372	0.33211894	0.98222815	0.042889121
CCDC84	0.800972228	0.658118579	0.974834216	0.02681052
CCDC81	0.435733867	0.226740228	0.837363552	0.01268359
CCDC7	0.394430046	0.157732558	0.986321806	0.046655326
CCDC69	0.770716258	0.651899059	0.911189458	0.002298445
CCDC66	0.535107802	0.344489788	0.831201302	0.005389788
CCDC65	0.754069335	0.581538128	0.977787243	0.033219201
CCDC64B	0.837933172	0.711273988	0.987147024	0.034457384
CCDC60	0.655047248	0.459826601	0.933149356	0.0191193
CCDC58	1.260648621	1.003108288	1.584310452	0.046968806
CCDC38	17.26465617	1.392161629	214.1047034	0.026587751
CCDC37	0.756348056	0.57551099	0.994007744	0.045169185
CCDC36	0.184641098	0.041059311	0.830319215	0.027638558
CCDC34	1.358783172	1.120890473	1.647165135	0.001795469
CCDC33	0.694030229	0.482747641	0.997784179	0.048616394
CCDC30	0.499033138	0.258127472	0.964771674	0.038772533
CCDC28A	0.64258189	0.491460809	0.840171746	0.001224826
CCDC186	0.751131322	0.565187757	0.998249264	0.048605162
CCDC184	0.696574998	0.515419646	0.941401307	0.01862699
CCDC181	0.56403051	0.392801694	0.809900825	0.001921228
CCDC180	0.259912532	0.073766571	0.915787784	0.036005479
CCDC175	0.007370289	5.74E-05	0.94633762	0.047453531
CCDC173	0.734436932	0.543560627	0.992341205	0.044427757
CCDC172	1.54E+16	385.6930594	6.17E+29	0.019667701
CCDC170	0.791966977	0.651810395	0.962260954	0.018920668
CCDC17	0.826182556	0.695162555	0.981896408	0.030208996
CCDC159	0.734507333	0.56952382	0.947284388	0.017444797
CCDC157	0.47316969	0.267981243	0.835467262	0.009889208
CCDC153	0.688626411	0.527543548	0.898895146	0.006070229
CCDC152	0.502300508	0.296143047	0.851972731	0.010642078
CCDC151	0.782494816	0.612430721	0.999783513	0.049797926
CCDC149	0.664529579	0.472388558	0.934822729	0.018923518
CCDC146	0.753279035	0.603136669	0.940797224	0.012487884
CCDC137	1.41840682	1.089833741	1.846041127	0.009327442
CCDC130	0.744336854	0.570988914	0.970311925	0.029053424
CCDC13-AS1	0.157324246	0.041555217	0.595615195	0.006472784
CCDC13	0.402827197	0.194715651	0.833367783	0.014229916
CCDC121	0.653138521	0.437943257	0.974075797	0.036729114
CCDC108	0.667898572	0.462310704	0.964910609	0.031534695
CCDC101	0.593824236	0.429300028	0.821400421	0.001640784
CCAT1	1.202027781	1.034212125	1.397073919	0.016465269
CC2D2B	0.002713996	8.24E-05	0.089432663	0.000920243
CBX7	0.678481609	0.539228569	0.853696039	0.000934413
CBX5	1.462174315	1.145001931	1.867205347	0.002324261
CBX3	1.345818677	1.042315564	1.737696311	0.022737391
CBR3-AS1	0.665114782	0.451943579	0.978833849	0.038595058
CBLC	1.157143547	1.006252023	1.330661859	0.040619625

CBFA2T3	0.613714545	0.46329009	0.812979926	0.000665978
CAV3	0.025218408	0.002511203	0.253252361	0.001766988
CAV2	1.161887763	1.013357359	1.332188652	0.031547087
CAT	0.722707933	0.596112237	0.876188617	0.000949163
CASZ1	0.650406395	0.492355849	0.859192552	0.002458509
CASS4	0.641899767	0.49720059	0.828710422	0.000669952
CASQ2	0.654414946	0.443401607	0.965848827	0.032767471
CASP9	1.361628578	1.020961687	1.815966659	0.035625704
CASP14	1.22568151	1.068973922	1.405361846	0.003550119
CASP12	0.209100188	0.06806631	0.642357264	0.006277756
CASP10	0.734694982	0.582545603	0.926582766	0.009213841
CASD1	0.730284746	0.562784114	0.947638352	0.018051759
CASC8	1.588719545	1.262563628	1.999130767	7.86E-05
CASC5	1.588242014	1.255964041	2.00842748	0.000112015
CASC3	0.668533698	0.486360411	0.918942609	0.013110898
CASC19	1.202167308	1.024190837	1.411071241	0.024299467
CASC18	0.271667123	0.089793575	0.821918786	0.021045523
CASC15	1.314653477	1.079736555	1.600680978	0.006453856
CARHSP1	1.414849832	1.109905984	1.803576226	0.005080424
CARF	0.531529169	0.329263975	0.858044849	0.009694365
CARD8-AS1	0.679443004	0.509013466	0.906936314	0.008718479
CARD14	1.199247409	1.005688982	1.430058768	0.043059725
CAPZA1	1.510513685	1.123181472	2.031418475	0.006363976
CAPS	0.820546317	0.725247585	0.92836746	0.001689688
CAPNS1	1.507779102	1.141059148	1.992357561	0.003876782
CAPN3	0.585594162	0.391426337	0.876079328	0.009223373
CAPN13	0.875069278	0.791451718	0.967521106	0.009205997
CAPN12	0.774551922	0.633408294	0.947146864	0.012809879
CAP2	1.282939257	1.009790361	1.629975093	0.04137782
CANT1	1.385923779	1.089472858	1.763040454	0.007864593
CAND1	1.309718001	1.053495161	1.628257352	0.015134418
CAMTA2	0.683015812	0.505621013	0.922648757	0.012967763
CAMTA1	0.540001065	0.363664044	0.801842126	0.002251874
CAMSAP3	0.753236425	0.60830294	0.932701579	0.009351524
CAMSAP2	1.44295337	1.062038027	1.960489525	0.019034523
CAMKK1	0.566774757	0.407945057	0.787443358	0.000713625
CAMK2N1	1.135461741	1.012446942	1.273423141	0.029901102
CAMK1D	0.785676028	0.681362642	0.905959299	0.00090401
CAMK1	0.691586783	0.506662412	0.944005847	0.020182179
CALU	1.243406494	1.026495554	1.506153343	0.025925538
CALN1	2.183575277	1.233931576	3.864072435	0.007322668
CALM3	1.640634627	1.213773012	2.21761561	0.001281907
CALCOCO1	0.746689031	0.584499431	0.953883749	0.019396077
CALB2	1.239620956	1.108987417	1.385642515	0.000156393
CAHM	0.602189098	0.380498011	0.953044954	0.030365865
CADM3-AS1	0.27036744	0.083865251	0.871619071	0.028522307
CADM1	0.860601711	0.760132606	0.974350131	0.017777475
CACYBPP1	0.057195315	0.00338091	0.96758104	0.047389575
CACYBP	1.436297757	1.122661932	1.837553396	0.003971271

CACNB4	0.439790435	0.24086861	0.802992248	0.007489564
CACNB2	1.498674671	1.102925178	2.036426237	0.009704417
CACNB1	0.719251853	0.586574037	0.881940207	0.001537548
CACNA2D2	0.847532759	0.774438662	0.92752572	0.000324505
CACNA1D	0.766943202	0.608204376	0.967112205	0.024922931
CABLES1	0.782768324	0.657433906	0.931996726	0.005941104
CABIN1	0.782277059	0.614920099	0.995181974	0.045577186
CA5B	0.333294586	0.190698747	0.582517101	0.000114802
CA4	0.741445432	0.596730657	0.92125538	0.006927801
CA3	0.798658694	0.651272259	0.979399477	0.030776677
C9orf92	8.882650928	2.066954082	38.17283036	0.00332475
C9orf9	0.787431109	0.634247604	0.9776115	0.030379702
C9orf72	0.724772846	0.544727144	0.964328075	0.027156344
C9orf69	1.575795859	1.133497164	2.190682667	0.006821433
C9orf64	1.47664934	1.025357158	2.126569513	0.03621314
C9orf40	1.339779275	1.045125021	1.717506011	0.020984619
C9orf173-AS1	0.664136607	0.445559422	0.989940759	0.044472743
C9orf173	0.651001714	0.459461773	0.922390624	0.015762715
C9orf156	0.605247008	0.379287051	0.96582243	0.035221207
C9orf135	0.854793279	0.739539497	0.988008827	0.033735638
C8orf49	6.958497752	1.246062554	38.85895682	0.027060241
C8orf4	0.907425268	0.82668653	0.996049394	0.041030542
C8orf34	0.583271021	0.37491235	0.907425652	0.01681317
C7orf55	0.729998885	0.579423242	0.919704862	0.007582335
C7orf49	1.65019004	1.154985068	2.357716342	0.00593313
C7	0.885736851	0.811159452	0.96717084	0.006855256
C6orf62	0.679121638	0.470086941	0.9811083	0.039248126
C6orf3	0.358768101	0.173257807	0.742907652	0.005777065
C6orf229	0.217500612	0.050346057	0.939627029	0.041015492
C6orf211	1.354986685	1.01218526	1.813886242	0.041216166
C6orf195	3.943429172	1.390150231	11.1862972	0.00990306
C6orf1	0.785310293	0.630176376	0.978634361	0.031373534
C6	0.681122145	0.528273771	0.878194986	0.003059264
C5orf64	3.80E-06	6.08E-10	0.023709481	0.005124495
C5orf56	0.61027404	0.414309596	0.898927777	0.012447764
C5orf45	0.730554051	0.571369946	0.934086969	0.012288867
C5orf38	0.834927493	0.744147862	0.936781456	0.002126612
C5orf15	1.360327296	1.033400549	1.790680635	0.028218473
C5AR2	1.300996153	1.047397912	1.615996146	0.017379702
C4orf48	1.168863853	1.014085398	1.347265929	0.031321758
C4orf29	0.613496386	0.392815361	0.958154526	0.031723012
C4orf27	1.329486416	1.000432566	1.766769884	0.049652586
C4orf26	1.452970826	1.08963018	1.937468565	0.01094049
C4BPA	0.893146415	0.836861969	0.953216359	0.00066728
C4A	0.81942457	0.690686133	0.972158835	0.022385812
C3orf62	0.585313983	0.39685945	0.863258916	0.006899626
C3orf18	0.519345562	0.3779571	0.713625471	5.33E-05
C2orf81	0.792885637	0.637183093	0.986635774	0.037472075
C2orf78	1451567630	1648.190755	1.28E+15	0.002522859

C2orf42	0.508603495	0.280400474	0.922528806	0.026055396
C2orf40	0.793464404	0.660571994	0.953091816	0.013373122
C2CD2L	0.674783848	0.468257002	0.972400285	0.034849978
C2CD2	0.728378852	0.53610185	0.98961746	0.042692641
C22orf46	1.414926453	1.070935262	1.869409792	0.01459858
C20orf96	0.766417148	0.628874752	0.934041704	0.008386429
C20orf24	1.340548261	1.083253583	1.658955638	0.007029619
C20orf197	0.76423627	0.616982004	0.946635514	0.013810652
C20orf194	0.657135283	0.486321926	0.887944297	0.006261123
C20orf166-AS1	0.022466107	0.001161122	0.434688028	0.012034509
C20orf141	1.743467666	1.224503058	2.482378042	0.002046391
C1QTNF7	0.611877775	0.446906007	0.837747549	0.002181242
C1QTNF6	1.592109116	1.340907657	1.890369874	1.11E-07
C1QTNF3-AMACR	0.006941135	6.21E-05	0.776330271	0.038907928
C1QTNF1-AS1	2.264643565	1.257930455	4.077022269	0.00643193
C1QL2	0.838225043	0.713132865	0.98525991	0.032350834
C1QL1	1.244721203	1.031462847	1.502071429	0.022428322
C1QBP	1.254817891	1.012344639	1.555367488	0.038269612
C1orf94	2.576959259	1.373920829	4.833407341	0.003178652
C1orf87	0.727777645	0.531456522	0.996620192	0.047583305
C1orf228	0.767135627	0.590847307	0.99602226	0.046603935
C1orf210	0.731891097	0.611071326	0.876599105	0.000697038
C1orf21	0.786219523	0.651473713	0.948835118	0.012158574
C1orf194	0.859116218	0.74541913	0.990155265	0.036032483
C1orf168	0.701466695	0.534793535	0.920085028	0.010416429
C1orf141	0.372137463	0.147402734	0.939509651	0.036436741
C1orf132	0.65976795	0.464471134	0.937181485	0.020219346
C1orf116	0.913611385	0.836722217	0.997566152	0.043978981
C1orf112	1.382446006	1.016986898	1.879234593	0.038687235
C1orf106	1.204197407	1.011639242	1.433407616	0.036605884
C1orf105	2.158892753	1.057889428	4.405770393	0.034464811
C1orf101	0.317429312	0.141898989	0.710092223	0.005216082
C19orf48	1.288222241	1.065201077	1.557937349	0.009022697
C19orf44	0.667415926	0.447548822	0.99529704	0.047358055
C19orf40	1.302119827	1.020489624	1.661473086	0.033747195
C19orf33	1.133564953	1.025515295	1.252998866	0.01416972
C18orf8	0.615912885	0.428029238	0.886268154	0.009048374
C18orf65	0.358165283	0.131203484	0.977736001	0.045080005
C18orf54	2.035969124	1.45318008	2.852482174	3.59E-05
C17orf58	1.390193244	1.090896423	1.771604724	0.007738075
C17orf53	1.270705174	1.066109102	1.5145651	0.007480635
C17orf51	1.720943802	1.043360561	2.838565766	0.033485714
C16orf93	0.63075774	0.417008926	0.954069091	0.029060656
C16orf89	0.894230223	0.841914112	0.949797229	0.000278492
C16orf86	0.594175315	0.405263553	0.871147435	0.007663448
C16orf74	1.279885737	1.110873446	1.474612168	0.000637569
C16orf59	1.281957492	1.056340244	1.555762947	0.0119061
C16orf54	0.775933461	0.645992076	0.932012572	0.006669581
C15orf59	0.551588162	0.352795556	0.86239607	0.00907528

C15orf56	0.478761686	0.267137818	0.858031834	0.013348808
C15orf41	2.463260668	1.538286994	3.944422037	0.000174871
C14orf39	0.348188622	0.138497024	0.875364057	0.024898788
C14orf166	1.38404819	1.009090273	1.898333027	0.043789789
C14orf132	0.791336396	0.64334491	0.97337102	0.026728213
C12orf76	0.529862325	0.378120212	0.742499539	0.000224717
C11orf52	0.327432173	0.109438161	0.979656705	0.045855452
C11orf24	1.4911027	1.14751954	1.937559391	0.002792696
C11orf21	0.549089824	0.361728988	0.833495918	0.004874171
C11orf16	0.676908379	0.541478182	0.846211296	0.000612348
C10orf76	0.614644716	0.398823161	0.947257242	0.027419181
C10orf128	0.737791467	0.595458359	0.914146624	0.005422107
C10orf111	0.41829271	0.187331377	0.934006861	0.03345845
C10orf11	0.63435386	0.447940547	0.89834426	0.010352519
C10orf107	0.838233847	0.704668497	0.997115644	0.046307298
BZW2	1.381839053	1.107063251	1.72481488	0.004248025
BZW1P2	1.226579851	1.006340131	1.495019513	0.043119131
BZW1	1.604376576	1.247218493	2.063811764	0.000233784
BZRAP1-AS1	0.291080477	0.137431725	0.616508627	0.001267804
BZRAP1	0.649644892	0.516335717	0.817372249	0.000232402
BUB3	1.601442917	1.173623107	2.185215511	0.002982586
BUB1B	1.301070344	1.119384097	1.512245926	0.00060453
BUB1	1.268347818	1.094360287	1.469996862	0.00158983
BTNL9	0.698877644	0.547081941	0.892791234	0.004135684
BTN2A3P	0.532107531	0.334926752	0.845374167	0.007559438
BTN2A2	0.557877952	0.423921345	0.734164044	3.10E-05
BTN2A1	0.711068928	0.529169627	0.955495168	0.023699741
BTN1A1	0.162367213	0.02946476	0.894733642	0.036824768
BTLA	0.551530805	0.364178326	0.835267248	0.004954536
BTK	0.722614395	0.599281982	0.871328656	0.00066777
BTG2	0.790595595	0.696935382	0.896842678	0.000259922
BTBD9-AS1	0.159068614	0.040847925	0.619439644	0.008038401
BTBD9	0.714480643	0.59210495	0.862148829	0.000452541
BTBD18	0.001901303	1.04E-05	0.346742902	0.018338116
BTBD16	1.333358353	1.042593483	1.705213515	0.021887972
BSN-AS1	4.66E-05	1.29E-08	0.16833721	0.017022432
BSDC1	0.590337549	0.397159587	0.877477049	0.009152847
BRIP1	1.430156796	1.093184152	1.871000834	0.009057713
BRINP2	1.818843369	1.228824612	2.692158969	0.002791046
BRI3BP	1.391106501	1.103213461	1.754127706	0.005266623
BRD9P2	0.606202723	0.438993138	0.837101333	0.002367224
BRD9P1	2588.982345	5.828327614	1150043.379	0.011514517
BRCA2	1.537354883	1.07049776	2.207814088	0.019866191
BRCA1	1.294398812	1.051486381	1.593428422	0.014957799
BPIFB1	0.938568577	0.887222005	0.99288675	0.027198635
bP-2189O9.2	0.32563988	0.119504767	0.88733976	0.028259575
bP-21201H5.2	1191.578975	1.096958074	1294361.643	0.047043294
BORA	1.45715147	1.118827212	1.897782233	0.005223602
BOP1	1.207531866	1.010181299	1.443437142	0.038337932

BNIP3P42	0.159459964	0.03322516	0.765307989	0.021778984
BNIP3P40	0.374735005	0.176148285	0.797205173	0.010821571
BNIP3P28	0.187985128	0.040754821	0.867097627	0.032130187
BNIP3P26	0.208717744	0.059028026	0.738007009	0.015039577
BNIP3P15	0.625093662	0.412648819	0.946911922	0.026595753
BNIP3P10	0.370217625	0.172766258	0.793332512	0.010608806
BNC1	1.276884282	1.035342273	1.574777263	0.022336183
BMP7	1.18025817	1.024649204	1.359498785	0.021588682
BMP5	0.76912632	0.669119204	0.884080582	0.000221114
BMP15	0.000259664	5.32E-07	0.126803165	0.00895559
BMP1	1.279868029	1.050504152	1.559310517	0.014327428
BMF	0.818745185	0.671479241	0.998308864	0.048076241
BLZF1	1.414288845	1.020327326	1.960363979	0.037455598
BLOC1S4	1.40498256	1.061962434	1.858800209	0.017269138
BLNK	0.767421615	0.607589695	0.969298756	0.02630606
BLM	1.444142879	1.148377141	1.816083394	0.001671046
BLK	0.695676189	0.533420279	0.907287142	0.007405901
BIRC5	1.225187869	1.087336185	1.380516288	0.000853495
BIRC3	1.248400256	1.09806212	1.419321523	0.000701871
BIN2	0.806824291	0.66791385	0.974624852	0.02597534
BIK	1.164506538	1.001954799	1.353429795	0.04709745
BEX5	0.748205647	0.639939485	0.87478848	0.000275403
BEX4	0.724362728	0.624192077	0.840608813	2.17E-05
BEX2	0.882849542	0.789722752	0.986958159	0.028467738
BEST4	0.645544146	0.465581518	0.895068271	0.008670011
BEND6	1.434174285	1.060161008	1.940135378	0.019340588
BEND5	0.691413891	0.550989599	0.867626484	0.001443313
BEND4	2.153557697	1.111125928	4.173974019	0.023082865
BEGAIN	1.93742515	1.27559877	2.942630787	0.00192562
BDH2	0.680200836	0.535859591	0.863422406	0.001541851
BCRP3	0.711183323	0.515789729	0.980596725	0.037570036
BCL9L	1.268588304	1.049277674	1.53373728	0.014022725
BCL2L13	1.479897824	1.043049835	2.099705591	0.028083893
BCL2L10	1.47769648	1.201919129	1.816750259	0.00021134
BCL2L1	1.383517544	1.090648322	1.755030248	0.007473454
BCAT2	0.717245763	0.559670695	0.919186029	0.008646006
BCAS4	0.769708129	0.601393661	0.985129444	0.037620662
BCAR3	1.419849226	1.191896939	1.69139777	8.64E-05
BCAR1P2	16435001.96	151.9284235	1.78E+12	0.004964123
BCAR1	1.519411531	1.178321185	1.959237794	0.001259749
BCAN	1.471661943	1.186350747	1.825588999	0.000441322
BCAM	0.838071595	0.738135773	0.951537676	0.006396158
BBS5	0.583578425	0.382750806	0.889779388	0.012327903
BBS1	0.398508953	0.189842248	0.836533423	0.01502691
BAZ2B	0.674405965	0.467494085	0.9728966	0.035123692
BARX2	1.146212824	1.011541705	1.298813317	0.032361563
BARHL2	2.196722858	1.187863386	4.062412707	0.012114769
BANK1	0.744175472	0.597738873	0.92648673	0.008219128
BANF1	1.400701318	1.078383653	1.819356383	0.011551848

BANCR	0.807349078	0.655025757	0.99509451	0.044849635
BAK1	1.349865458	1.03341436	1.763219891	0.027727813
BAIAP2L2	1.217831396	1.075642488	1.378816219	0.001863955
BAI3	0.309436351	0.125031554	0.765813528	0.011178977
BACH1	1.310099845	1.011720763	1.696477593	0.040527513
B4GALT6	1.34473809	1.07927819	1.675490664	0.008292164
B4GALT4	1.452028985	1.171202148	1.800191519	0.000671274
B4GALT1	1.617123458	1.282230689	2.039483457	4.91E-05
B4GALNT1	1.229344655	1.029078375	1.468584238	0.022851768
B3GNTL1P1	4.568955655	1.132473535	18.43341599	0.032780137
B3GNT8	0.808999774	0.714143478	0.916455382	0.000865282
B3GNT5	1.386718635	1.144557187	1.680115764	0.000841403
B3GNT3	1.182882275	1.047745661	1.335448601	0.006657565
B3GALT2	0.692456574	0.532886561	0.899808969	0.005960968
B3GALT1	3.195500061	1.466720792	6.961938969	0.003455439
B3GALNT1P1	0.002906156	1.89E-05	0.446324435	0.022963644
B3GALNT1	1.240531533	1.034591466	1.487464894	0.019958668
AZIN2	0.624549006	0.458836744	0.850109468	0.002769629
AVPR2	0.563959879	0.330232416	0.963111826	0.035939538
AVPI1	1.164786497	1.009563321	1.343875671	0.036582036
AVEN	1.717100863	1.319901739	2.23382945	5.63E-05
AURKC	0.583039086	0.352420902	0.964569848	0.035693247
AURKB	1.185726243	1.048806553	1.340520536	0.006505763
AURKA	1.267863621	1.102682467	1.457788811	0.000860929
AUNIP	1.318705904	1.067902124	1.628412587	0.010159842
ATRIP	0.004537064	5.63E-05	0.365696835	0.015990584
ATP8B4	0.475101884	0.27340711	0.825588626	0.008295989
ATP8B3	1.368130567	1.129549264	1.657104571	0.001346267
ATP8B2	0.765026481	0.632041809	0.925991775	0.00597476
ATP8A2	0.434802093	0.286655952	0.65951137	8.92E-05
ATP8A1	0.74475665	0.632855645	0.876443897	0.000388814
ATP6V1B2	0.662550427	0.501491561	0.875334906	0.003767804
ATP6V0D1	0.691806125	0.517074319	0.925583996	0.01311644
ATP5HP2	6.043058426	1.559844624	23.41166201	0.009231371
ATP5G3	1.311553769	1.01163069	1.700396506	0.040633369
ATP5G1P4	1.666137932	1.282761228	2.16409379	0.000130032
ATP5F1P2	886.8921103	6.258236834	125686.7767	0.007241277
ATP5B	1.385653946	1.063937513	1.804651903	0.015531405
ATP2B1	1.279777803	1.06192358	1.542324943	0.009569106
ATP1B2	0.637362044	0.444353721	0.91420496	0.014390954
ATP1A2	0.557362477	0.365853147	0.849119197	0.006500087
ATP13A4-AS1	0.703187193	0.540218109	0.915319609	0.008851547
ATP13A4	0.837309857	0.751512282	0.932902646	0.001285637
ATP11B	1.392939434	1.077349553	1.800975607	0.011460054
ATOH1	1.939769869	1.213185543	3.101510042	0.005657318
ATL2	0.777449408	0.608374574	0.993512234	0.044221426
ATIC	1.560894876	1.159870722	2.100572734	0.003294379
ATG9A	1.539615692	1.038719791	2.282055757	0.031621696
ATG4AP1	38.24022585	3.662600511	399.2559026	0.002329481

ATG4A	0.650912318	0.466331254	0.908553397	0.011615695
ATG2B	0.699233461	0.495828119	0.986082503	0.041362907
ATG16L2	0.744368063	0.608823225	0.910089809	0.003994495
ATG12	1.549067489	1.023300037	2.344972148	0.038560851
ATG10	1.564085405	1.02754478	2.380784957	0.036912861
ATF7IP2	0.559674675	0.40707389	0.769481288	0.000352667
ATAT1	0.773646364	0.614415904	0.974142583	0.029052016
ATAD3C	0.78255587	0.662588921	0.92424378	0.003879234
ATAD2	1.233364294	1.05073153	1.447741347	0.010312106
ASUN	1.447627804	1.132213728	1.850910484	0.00317459
ASTL	0.284384552	0.083998427	0.962810568	0.043292951
ASTE1	0.622651428	0.396518046	0.977748185	0.039618848
ASPM	1.388911001	1.17456006	1.642379845	0.000122431
ASPH	1.214420333	1.069454833	1.379036029	0.002741753
ASPA	0.351077575	0.153389083	0.803547822	0.01322413
ASMT	2.957716563	1.238740925	7.0620798	0.014601831
ASF1B	1.252305804	1.072704949	1.461976874	0.004391788
ASCL4	3.20E-05	1.90E-08	0.053868844	0.006322022
ASCL2	0.826254413	0.68743796	0.993102497	0.041980017
ASB9P1	0.322714893	0.154032072	0.676124789	0.002725474
ASB2	0.523928903	0.359033048	0.764557739	0.000801846
ASB16	0.646265393	0.441701352	0.945568668	0.024563275
ASB14	0.276324183	0.11449505	0.666885197	0.004220002
ASAP3	0.73611332	0.609182517	0.889491745	0.00151051
ASAP2	1.253801893	1.055161151	1.489838006	0.010167454
ASAP1	1.334198523	1.061149428	1.677507099	0.013587028
ASAH2B	1.912401686	1.180776019	3.097353053	0.008403627
ASAH1	0.761068152	0.622272916	0.930821056	0.007865122
ARVCF	0.736323188	0.594794886	0.911527402	0.004945774
ART4	0.494335661	0.273594777	0.893174015	0.01958179
ARSI	1.325553773	1.035301648	1.69717957	0.025410711
ARSG	0.533075953	0.333053522	0.853226142	0.008757335
ARSF	9.153216131	1.064116682	78.73325074	0.043740981
ARRDC5	0.384717981	0.18442179	0.802551181	0.01088763
ARRB2	0.613223499	0.471521208	0.797510383	0.000264662
ARRB1	0.706937814	0.583608369	0.856329517	0.000391688
ARPP21-AS1	5836104515	72.51389341	4.70E+17	0.015469557
ARPP21	21.38238748	1.51157881	302.4695049	0.023475601
ARNTL2-AS1	5.05885046	1.790000776	14.29718261	0.002225711
ARNTL2	1.368158001	1.201317673	1.558169297	2.31E-06
ARNTL	0.676135262	0.491915756	0.929343871	0.015888137
ARMCX6	0.625248012	0.46057657	0.848794971	0.002602699
ARMCX3	0.7525089	0.575545422	0.9838835	0.037640619
ARMC2-AS1	0.657373905	0.441584838	0.978612519	0.038784942
ARMC2	0.640753809	0.411594475	0.997499888	0.048718281
ARL6IP6	1.2897659	1.016614475	1.636309651	0.036111279
ARL6IP1P1	8.672668411	1.030807117	72.96726626	0.046824291
ARL6IP1	1.3473926	1.042011536	1.742271323	0.022978757
ARL6	0.629121295	0.432869211	0.914349168	0.015125635

ARL4D	1.226348755	1.053366795	1.427737494	0.008534744
ARL2BPP4	0.687897831	0.476979055	0.992084288	0.045230712
ARL14	1.215702817	1.09981319	1.343803977	0.000132754
ARIH2OS	0.390684502	0.22912018	0.666176066	0.000556798
ARIH2	0.629318953	0.421857604	0.938805751	0.023244013
ARID4A	0.660446683	0.470010433	0.928042847	0.016837146
ARHGEF9	0.67070757	0.485325319	0.926901249	0.01552718
ARHGEF6	0.734230157	0.601403281	0.896393386	0.002411675
ARHGEF4	1.355772448	1.119053541	1.642565672	0.001877984
ARHGEF39	1.339872936	1.03280534	1.738236061	0.027593711
ARHGEF38	0.737599763	0.597313967	0.910833231	0.004688686
ARHGEF3	0.662510597	0.489850373	0.896029309	0.007526728
ARHGEF26-AS1	0.632032925	0.463689412	0.86149394	0.003691406
ARHGEF19	0.843411577	0.714042022	0.996220202	0.04501237
ARHGEF17	0.788015182	0.630396318	0.98504371	0.036410901
ARHGDI B	0.840255378	0.7162186	0.985773199	0.03269589
ARHGDI A	1.428584322	1.026960556	1.987275122	0.03418088
ARHGAP9	0.745170685	0.612317362	0.906848939	0.003325446
ARHGAP44	0.762125425	0.627573946	0.925524662	0.006127701
ARHGAP30	0.78627922	0.661693138	0.934322839	0.006299242
ARHGAP26-AS1	0.277111752	0.08731063	0.879514017	0.029418216
ARHGAP25	0.722668555	0.575922361	0.906805979	0.005036302
ARHGAP18	0.796460178	0.651093834	0.974281713	0.026872418
ARHGAP15	0.631537892	0.465975562	0.855924948	0.003047579
ARHGAP11B	1.547751839	1.046438766	2.289226884	0.028723165
ARHGAP11A	1.457823949	1.227626413	1.731186819	1.72E-05
ARHGAP10	1.424817633	1.031671707	1.967782264	0.031614796
ARGFXP2	0.273342448	0.091429853	0.817195828	0.020273004
ARG2	0.815446321	0.679350395	0.978806678	0.028532027
ARF6	1.373046283	1.020023281	1.848248103	0.036554484
ARF3	1.459722187	1.047335132	2.03448619	0.025549117
ARAP1	0.707099357	0.545869172	0.915951159	0.008668465
AQP6	0.577292295	0.356364222	0.935184772	0.025599825
AQP5	0.933319067	0.879384206	0.99056189	0.023074144
AQP4-AS1	0.163012427	0.036751008	0.723056406	0.017004649
AQP4	0.898369772	0.829852435	0.972544291	0.008102938
AQP3	0.901709745	0.833231823	0.975815424	0.010243542
APTR	0.677197599	0.530383113	0.864651564	0.001769593
APOL2	1.280468056	1.051202064	1.559736704	0.014048151
APOL1	1.250710917	1.094658192	1.429010271	0.001001619
APOC4-APOC2	0.141389511	0.042809963	0.466970595	0.001331168
APOC3	1.331232579	1.031683487	1.717755689	0.027821744
APOC2	0.474209861	0.253095278	0.888499359	0.019859251
APOBEC3H	0.746771419	0.582940533	0.956645695	0.020849052
APH1B	0.751282815	0.569217396	0.991582253	0.043418109
APCDD1L-AS1	1.589089489	1.144311907	2.20674572	0.00569918
APCDD1L	1.329346762	1.092627298	1.617351878	0.004436456
APBB3	0.769329539	0.608788177	0.972206692	0.028091572
APBB1	0.80943225	0.659204619	0.993895597	0.043547482

AP4B1-AS1	0.585222425	0.346247338	0.989134786	0.045418129
AP3S1	1.898870448	1.352459164	2.666039073	0.000212351
AP3B1	1.453698147	1.030938666	2.049819619	0.032863362
AP2S1	1.453218628	1.107410515	1.907011314	0.007022289
AP2M1	1.714376365	1.261731827	2.329406501	0.000568282
AP2A1	1.703972605	1.21761021	2.384607663	0.00188217
AP1S3	1.630304261	1.291322195	2.05827174	3.96E-05
AP1AR	1.419629374	1.039214293	1.939299306	0.027689913
AP006285.7	137107091.4	1.09139011	1.72E+16	0.048935285
AP005530.2	8.34E+16	10935039.69	6.36E+26	0.000790826
AP003774.4	0.174532171	0.035613017	0.855346751	0.03134687
AP003774.1	0.541142452	0.324301962	0.902970651	0.018739669
AP003558.1	2.136568957	1.073817811	4.251118635	0.030551868
AP003419.11	7.273982197	2.508202415	21.09511445	0.0002595
AP003356.1	2.600613314	1.006810379	6.717441287	0.048383752
AP003025.2	3.89E-13	5.25E-24	0.028883711	0.025252724
AP002856.5	0.34269952	0.133964265	0.876673798	0.025442873
AP002381.2	0.223704415	0.055897504	0.895275499	0.034318631
AP001885.1	71.61246862	1.820901191	2816.377784	0.022615508
AP001786.1	9.980789662	2.741730269	36.33331965	0.000483188
AP001625.5	672.667201	9.729906973	46504.1613	0.002589589
AP001525.1	18060.44038	72.40998559	4504620.518	0.000500074
AP001469.5	0.387951248	0.153292751	0.98182184	0.04564213
AP001462.6	0.515368553	0.304932347	0.871028435	0.01329903
AP001439.2	0.404602841	0.178394677	0.917647668	0.030337482
AP001282.1	4.743630196	1.837746998	12.24435544	0.001291975
AP001189.4	0.55925319	0.318279041	0.982672718	0.043306564
AP001055.6	0.338589133	0.11979622	0.956980121	0.041060937
AP000889.2	69759.66519	1.071159161	4543125862	0.048595986
AP000783.1	1.282737775	1.006758098	1.634370962	0.043961782
AP000704.5	0.513793866	0.320798206	0.822897794	0.005587108
AP000695.6	1.647566884	1.258148242	2.15751733	0.000284447
AP000695.4	1.786227944	1.340793006	2.379644178	7.38E-05
AP000679.2	43.54182901	7.101964692	266.9530132	4.53E-05
AP000640.10	0.272288809	0.094463977	0.784862107	0.016020068
AP000568.2	11.94422213	1.605057137	88.88433883	0.015434753
AP000474.1	2332.517923	2.437378305	2232168.822	0.026803438
AP000473.8	0.264918583	0.075542006	0.929044108	0.037993039
AP000473.5	0.503499169	0.278313976	0.910882797	0.023295154
AP000472.3	1244432.989	49.6748138	31175023049	0.006613547
AP000439.3	1.576459224	1.256436203	1.977994329	8.43E-05
AP000439.2	0.332667034	0.13255897	0.83485377	0.019055177
AP000438.4	8.40E-06	1.15E-10	0.612229622	0.040771189
AP000438.2	0.105055012	0.020267107	0.544555066	0.007276711
AP000351.3	0.786789056	0.638788754	0.969079395	0.024109691
AP000304.12	4.106826404	1.558997448	10.81850592	0.004256777
AP000302.58	0.075632466	0.010003874	0.571805458	0.012365909
AP000295.9	0.167427418	0.036584379	0.766227035	0.02127294
AP000282.3	0.002983851	1.10E-05	0.806403972	0.041822634

AP000275.64	743.4780558	7.372916543	74971.63655	0.004974276
AOC4P	0.150564505	0.033458959	0.677536611	0.01361545
AOC3	0.874625574	0.768420527	0.995509448	0.042549776
AOAH-IT1	0.045891921	0.004094438	0.514373063	0.012449631
ANXA8L1	1.3767011	1.049194614	1.806438856	0.021086711
ANXA8	1.274146595	1.066600748	1.522078011	0.007568913
ANXA2P3	3.852158623	1.169152049	12.69221234	0.026633263
ANXA2P2	1.219723814	1.047172123	1.420708353	0.010703135
ANXA2	1.329102231	1.092710514	1.616633791	0.004409533
ANXA13	1.334354722	1.096474856	1.623842548	0.003985327
ANXA10	1.102090314	1.015095146	1.196541097	0.020499024
ANTXRLP1	0.107278041	0.01947041	0.591080428	0.010351708
ANP32E	1.238748479	1.058497249	1.449694644	0.007618196
ANP32D	0.003927547	4.08E-05	0.378193027	0.017443668
ANP32B	1.819440828	1.312670983	2.521854273	0.000326485
ANP32A	1.605424397	1.140286662	2.260297852	0.006686351
ANO9	0.847403434	0.72359036	0.992402082	0.039917283
ANO4	1.863912708	1.275046637	2.724740008	0.001307964
ANO3	1.389011804	1.089357866	1.771092726	0.008042456
ANO2	0.184611969	0.051127591	0.666598577	0.009906509
ANO1	1.228011751	1.07353961	1.404710963	0.002748719
ANLN	1.382016504	1.221794565	1.563249398	2.66E-07
ANKUB1	0.494248755	0.25407351	0.961461242	0.03791947
ANKRD66	0.640904003	0.435778255	0.942584759	0.023796513
ANKRD65	0.767911075	0.6859105	0.859714816	4.57E-06
ANKRD60	1353.499646	1.930523759	948945.2187	0.031027814
ANKRD6	0.705028489	0.51004211	0.974557121	0.034345698
ANKRD55	0.261085832	0.090084436	0.756688003	0.013379972
ANKRD53	0.541736041	0.329732822	0.890047695	0.015529886
ANKRD44	0.630535851	0.486612216	0.817027289	0.000485546
ANKRD36BP2	0.69733537	0.540427426	0.899800038	0.005574971
ANKRD32	1.391990253	1.117982219	1.73315535	0.003105261
ANKRD29	0.800522886	0.68700888	0.932792732	0.004348906
ANKRD20A5P	1.640775122	1.080437587	2.491715425	0.020184627
ANKRD2	1.551726294	1.028906452	2.340207399	0.036091072
ANKRD13A	0.662742531	0.504028288	0.871434546	0.003227192
ANKHD1	0.520897354	0.271755078	0.99845072	0.049456554
ANKDD1B	0.733995739	0.570364847	0.944570388	0.016257407
ANKDD1A	0.597872412	0.397667032	0.898871146	0.013419949
ANK2	0.583686996	0.408767776	0.833457355	0.003053439
ANGPTL7	0.234637789	0.068686819	0.80153504	0.020727274
ANGPTL6	0.408290655	0.196926054	0.846517035	0.01604663
ANGPTL5	0.113559604	0.021553895	0.598304094	0.010294055
ANGPTL4	1.180763829	1.081435005	1.289215916	0.000210421
ANGPT1	0.776287133	0.627254147	0.96072974	0.019895704
ANGEL1	0.706290839	0.521607938	0.956363416	0.02454645
ANAPC4	0.61254648	0.426143624	0.880485285	0.008109139
AMY2B	0.737650036	0.557765709	0.975548635	0.032880561
AMT	0.706229679	0.584920058	0.852698334	0.000297883

AMPD1	0.538153982	0.367215944	0.788663219	0.00148563
AMN1	1.549813879	1.102119083	2.179367997	0.011768746
AMMECR1LP1	16.65003517	3.161058527	87.69963252	0.000907912
AMIGO1	0.668792055	0.517953749	0.863557438	0.002036276
AMICA1	0.743396727	0.614173761	0.899808376	0.002337749
AMDP1	3.26E-07	2.16E-13	0.493580708	0.039665421
AMDHD1	1.495525491	1.19893373	1.865488007	0.000358768
ALYREF	1.303870474	1.046544493	1.624468167	0.01800314
ALX1	1.331847543	1.041710557	1.702793416	0.022258021
ALS2CR12	0.572320254	0.343701731	0.953007926	0.031955559
ALPI	2.411933397	1.438936469	4.042862793	0.000835352
ALOXE3	1.632197022	1.021688337	2.607514467	0.040390531
ALOX15	0.857033797	0.740142144	0.992386306	0.039196308
ALOX12B	1.528527805	1.03748207	2.251988076	0.031866869
ALKBH3-AS1	0.10226288	0.01704742	0.613447464	0.012611282
ALK	0.391365002	0.160183294	0.956195624	0.039567092
ALG8	1.448349936	1.107156641	1.894689026	0.006878357
ALG3	1.494186849	1.176906192	1.897002797	0.000975551
ALG10	1.517844346	1.045279592	2.204052846	0.028332145
ALDOA	1.446680773	1.172732992	1.784622138	0.000565712
ALDH6A1	0.80193885	0.651319114	0.987389907	0.037569172
ALDH4A1	0.761415482	0.591637382	0.979913633	0.034208933
ALDH2	0.775984656	0.663398395	0.907678089	0.001518669
ALCAM	0.835758318	0.714059502	0.978198545	0.025450973
ALAD	0.699757369	0.5077548	0.964363853	0.029131231
AL928768.3	0.814825741	0.692662441	0.958534704	0.013474702
AL928761.1	0.869101096	0.776945513	0.972187498	0.014160051
AL662800.1	0.776451206	0.627912206	0.960128613	0.019515296
AL592205.2	2.44E+17	95368236.23	6.23E+26	0.000291895
AL591893.1	5.297408403	2.147385198	13.06823565	0.000295934
AL591377.1	0.344580745	0.132313606	0.897382315	0.029133506
AL590708.2	125.5112872	2.617311307	6018.803791	0.014396573
AL590684.1	53278941.25	73.20326619	3.88E+13	0.009784078
AL589787.1	2.720428693	1.29458905	5.71666528	0.008255833
AL513548.1	0.645123709	0.445775674	0.933618911	0.020115829
AL450327.1	0.484899652	0.245190423	0.958959447	0.03748764
AL392111.1	14.80358891	1.633955038	134.1201193	0.016546711
AL391261.1	28.01458991	3.503058742	224.037707	0.001679292
AL389915.1	1710.215667	8.728347505	335096.3773	0.005700243
AL365202.1	0.061292639	0.004998805	0.751537117	0.029012236
AL359955.1	123.1112554	2.235927081	6778.566855	0.018602174
AL359709.1	48.89896583	2.753160053	868.4961327	0.008051547
AL359538.1	26.54980018	1.613472007	436.8789087	0.021747231
AL359262.1	673258.6355	472.8579602	958590588.5	0.000291895
AL357140.1	0.044934365	0.002231411	0.904852116	0.042843791
AL356585.3	6.943582538	1.110828274	43.40305299	0.038231153
AL356214.1	1430.336306	3.460735712	591163.8795	0.018084717
AL356213.1	25.10413338	1.98958889	316.7576557	0.012708992
AL356154.1	36.88616023	2.319489435	586.5897884	0.010587402

AL355977.1	1695.660016	1.643287823	1749701.332	0.035706228
AL354932.1	27153504.67	36.46369537	2.02E+13	0.013090892
AL354833.2	15.06362739	1.671388549	135.7630876	0.01561205
AL162430.1	401.0641205	1.414234163	113738.1864	0.037502916
AL162381.1	0.10718972	0.016626432	0.691046413	0.018843142
AL161452.1	19.57128121	1.199747759	319.2629828	0.036815245
AL159977.1	3402.932953	2.565994113	4512852.397	0.026633898
AL158077.1	3137.65282	68.62351553	143461.9772	3.66E-05
AL157702.1	28821101.91	2651.484145	3.13E+11	0.000291895
AL157372.1	19.64823767	1.345023773	287.0233606	0.029509581
AL139319.1	19.19649962	1.425185533	258.5667544	0.025946971
AL139296.1	116.6967309	3.2679564	4167.169121	0.00907814
AL133260.1	0.24790804	0.068934435	0.891548562	0.03269942
AL133245.2	0.031120309	0.001852239	0.522866441	0.015934911
AL132988.1	0.867657234	0.75585075	0.996002286	0.043708526
AL122127.25	0.548698943	0.353473679	0.851748087	0.007469175
AL122127.2	0.804646246	0.712540922	0.9086574	0.000457787
AL121932.1	5.786603295	1.095178843	30.57471199	0.038733008
AL121748.1	3.347784637	1.52925391	7.328843106	0.002506575
AL121578.5	1.47E+11	850628.1429	2.53E+16	2.93E-05
AL121578.2	4.787610836	1.941775905	11.80425479	0.000670838
AL118520.1	0.123012266	0.015375048	0.984193185	0.048270315
AL096864.1	53430.56884	2.010746416	1419784048	0.036229064
AL050303.10	1.53E+27	3956260.925	5.94E+47	0.009653066
AL049794.1	0.004039218	5.04E-05	0.323599359	0.013722932
AL035610.1	2.705218716	1.38273603	5.292556311	0.003656428
AL035419.1	17.02934974	1.8260739	158.8099761	0.012826244
AL034375.1	0.143815677	0.032911552	0.628440413	0.009956767
AL020997.1	0.421619098	0.219638035	0.809343714	0.009439119
AL008723.1	8.226365492	1.313630124	51.51609117	0.024359757
AKTIP	0.542605502	0.381899803	0.770937112	0.000645613
AKT1S1	1.789573126	1.308472615	2.447565151	0.000269578
AKR7A2P1	3.479513994	1.18159703	10.24631691	0.023649019
AKR1C7P	1.372370634	1.083188438	1.738756701	0.008745812
AKR1A1	0.630337113	0.46574884	0.853088277	0.002798065
AKNA	0.718823542	0.576714633	0.895949667	0.003307585
AKAP12	1.224105332	1.101652111	1.360169739	0.000169762
AKAP1	0.770991677	0.600213714	0.990360854	0.041772326
AK9	0.538498012	0.32898794	0.881430817	0.01381803
AK8	0.754151037	0.580443018	0.979844306	0.034652129
AK4P4	0.028556313	0.001987383	0.410319954	0.008920182
AK4P1	1.740497192	1.214124361	2.495074287	0.002562519
AK4	1.210750333	1.050869066	1.394956247	0.00812966
AK2P2	0.184948111	0.039270154	0.871038191	0.032794048
AK2	0.659700846	0.492449183	0.88375658	0.005298637
AJ239318.1	122.1885176	7.706960855	1937.214176	0.000653605
AJ003147.9	4.918056499	1.824919931	13.25388545	0.001637139
AIPL1	20498884.85	874.0308664	4.81E+11	0.001041055
AIM1L	1.305586289	1.117086372	1.525894149	0.000803103

AHSG	3.29059049	2.019664815	5.36127861	1.73E-06
AHSA1	1.905872893	1.372035602	2.647417806	0.000119925
AHNAK2	1.30786749	1.159622281	1.475064251	1.23E-05
AHCTF1	1.376164038	1.007480147	1.879766531	0.044770773
AGPS	1.510799563	1.099214337	2.076497043	0.010993152
AGPAT9	1.236671591	1.048857478	1.458116719	0.011486312
AGO4	0.661937098	0.493428348	0.8879926	0.005915054
AGMO	1.409523496	1.048066655	1.895639438	0.023176942
AGMAT	1.312248102	1.056560549	1.629812019	0.013989425
AGFG1	1.557284476	1.187009783	2.043062302	0.001386026
AGER	0.891332226	0.824400556	0.963697965	0.003872087
AGBL4	0.256920923	0.074877451	0.881551921	0.030743306
AGAP3	0.706156878	0.532051434	0.937235584	0.016007884
AGAP2-AS1	1.172040019	1.002075563	1.370832558	0.047044178
AFF3	0.74520791	0.56214093	0.987892537	0.040888982
AFAP1	1.282630617	1.003960536	1.638651361	0.046416037
AF246928.1	3487.940039	34.35444336	354123.7909	0.000539656
AF241725.6	10.3071797	3.401176837	31.23564534	3.72E-05
AF186192.5	0.688451171	0.505983629	0.936720059	0.017499883
AF186192.1	0.569587042	0.391703629	0.828252215	0.003214875
AF131217.1	0.012776663	0.000553078	0.295153716	0.006495289
AF131215.9	0.615038291	0.42783206	0.884160246	0.008669984
AF131215.8	0.459226995	0.222573176	0.947506056	0.035214806
AF131215.4	0.003535311	1.60E-05	0.781171623	0.040400245
AF131215.3	0.057819187	0.005270993	0.634236942	0.019670588
AF131215.2	0.635374136	0.460550468	0.876560378	0.005737404
AF127936.5	0.521965736	0.315612937	0.863235305	0.01131154
AF124730.4	1.985087515	1.234307901	3.192536027	0.004679571
AF121898.3	2.467757779	1.533151077	3.972099386	0.000199569
AF111168.1	0.081478316	0.010108111	0.656771158	0.018533034
AF064858.11	0.726735948	0.547303808	0.964994453	0.027365859
ADSSL1	1.183534169	1.000638651	1.399859109	0.049135004
ADRBK2	0.763333995	0.616600617	0.944985735	0.013157032
ADRB2	0.696115979	0.557993829	0.868427986	0.00132683
ADRB1	0.788502508	0.650807984	0.955329714	0.015238713
ADRA1B	1.251017247	1.004389552	1.558204332	0.045601888
ADRA1A	0.158426051	0.027085239	0.926660236	0.040905784
ADPGK-AS1	0.014532725	0.001267837	0.166583056	0.000673466
ADM	1.275823688	1.13602268	1.432828861	3.89E-05
ADIPOR2	1.605936613	1.244589285	2.072195573	0.000270126
ADIPOQ	2.701649442	1.538858896	4.74306626	0.000538137
ADHFE1	0.705956136	0.558465094	0.892399671	0.003591005
ADH4	1.359862864	1.101505625	1.678817582	0.004246405
ADH1C	0.910409721	0.832432504	0.995691369	0.039929477
ADH1B	0.868471552	0.78786453	0.957325539	0.004547142
ADCY9	0.72976225	0.596380129	0.892975662	0.002219671
ADCK3	0.751973011	0.598555722	0.944713062	0.014345851
ADAMTSL5	1.301127941	1.044259152	1.621181789	0.018980047
ADAMTS9-AS2	0.203777922	0.06446245	0.644180317	0.006751376

ADAMTS8	0.679994748	0.544001423	0.849984647	0.000704913
ADAMTS7P3	0.454848934	0.260892618	0.792998875	0.00547338
ADAMTS6	1.712053647	1.062570457	2.75852549	0.027151145
ADAMTS4	1.178222846	1.010744954	1.373451404	0.036029922
ADAMTS3	1.339125264	1.004023172	1.786070804	0.046890454
ADAMTS17	0.512480656	0.285761235	0.919076453	0.024889051
ADAMTS15	1.255043774	1.011278345	1.557568084	0.039231454
ADAM32	2.676818324	1.294012973	5.537314146	0.007931844
ADAM24P	126740.6451	8.594076264	1869100369	0.016431516
ADAM21	1.901190954	1.089599246	3.317299509	0.023691867
ADAM12	1.206722793	1.049018473	1.388135612	0.008546884
ADAM10	1.497311589	1.129960052	1.984089606	0.004943381
ADA	1.292166994	1.071392336	1.558435209	0.007332903
ACVR2B-AS1	0.54972436	0.331815281	0.910738259	0.020181117
ACVR2A	0.660266679	0.450116357	0.968531982	0.033709652
ACTR8	0.608322411	0.392240443	0.943442123	0.026419076
ACTR3BP6	7.51E+30	1.74130384	3.24E+61	0.048225628
ACTR3BP4	18011240664	17.55207449	1.85E+19	0.025707051
ACTR2	1.567073556	1.116591922	2.19929903	0.009385051
ACTR1B	0.647068862	0.45775893	0.914669459	0.013699546
ACTN4P1	4.484448968	1.003610571	20.03793417	0.049450983
ACTN4	1.386408464	1.106906448	1.736486793	0.004453029
ACTN2	0.382325631	0.156236055	0.935589983	0.035223568
ACTN1	1.326579404	1.094269363	1.608208156	0.004013291
ACTL6A	1.357635068	1.07703386	1.71134172	0.00964875
ACTG1P11	201.1740049	5.657195249	7153.894904	0.003602426
ACTG1	1.473886981	1.107964228	1.960661524	0.007719587
ACTBP2	1.476219208	1.042287588	2.090807925	0.028293802
ACTB	1.471657943	1.093357169	1.980850505	0.010812791
ACSS3	0.663357974	0.485102999	0.907114166	0.010155039
ACSS1	0.743217889	0.632963942	0.872676616	0.000292016
ACSM5	0.329522444	0.17800701	0.6100043	0.000410671
ACSL5	0.885310481	0.792835131	0.988572046	0.030452208
ACSL3	1.435108616	1.157210163	1.779743045	0.001003251
ACSBG1	0.192972117	0.049550063	0.751527553	0.017703715
ACRV1	2.225360771	1.042532283	4.750193967	0.038675058
ACPP	0.766876958	0.589411677	0.997775055	0.04809243
ACP5	0.850012878	0.728382893	0.991953408	0.039159703
ACOXL	0.651670551	0.498638187	0.85166864	0.001714624
ACOX2	0.826883069	0.691625495	0.988592258	0.03699136
ACOT7	1.332651206	1.071367808	1.657655964	0.009906371
ACOT12	4.378490726	1.470249113	13.03941004	0.007996599
ACO2	1.394168094	1.039287523	1.870228047	0.026618331
ACKR1	0.86713609	0.77490355	0.970346567	0.012969829
ACER1	0.018206698	0.000598343	0.55400329	0.021511799
ACCSL	4.24E-09	5.43E-15	0.003317954	0.005361102
ACCS	0.778836593	0.635458852	0.954564464	0.016043671
ACBD4	0.750789816	0.565188485	0.997340467	0.047889823
ACAT2	1.336566921	1.069170488	1.670838426	0.010858431

ACAT1	0.740369371	0.59294414	0.924449316	0.007969366
ACAP3	0.796697454	0.641127657	0.990016305	0.040316834
ACAP1	0.733745668	0.594380183	0.905788452	0.003968495
ACAN	1.402927669	1.020088164	1.929446997	0.037316006
ACADSB	0.746170359	0.61309057	0.908136956	0.003484816
ACAD8	0.739681585	0.611600247	0.894585721	0.001882218
AC253578.1	9.557549331	1.416742437	64.47660974	0.020469459
AC246787.4	0.871085563	0.780849013	0.971750038	0.013377433
AC246787.3	0.833793734	0.732323931	0.949323054	0.006042369
AC246787.1	0.832268287	0.720706591	0.961099163	0.01240877
AC245028.1	0.79982356	0.663999564	0.963430944	0.018657751
AC244205.1	0.538436385	0.316181701	0.916921313	0.022649739
AC243980.1	11.01094774	1.041926729	116.3622804	0.046140554
AC233702.1	60389097.05	591.1244955	6.17E+12	0.002331221
AC195454.1	0.499909255	0.276476329	0.903908353	0.021774999
AC151960.1	1782.821847	8.079283569	393407.8696	0.006552703
AC145124.2	0.398328332	0.182246151	0.870610759	0.021039187
AC143336.1	0.072181069	0.005659848	0.920538331	0.043000199
AC139712.4	4377525672	1.835628965	1.04E+19	0.043894462
AC139530.1	0.662233053	0.478202073	0.917086399	0.013101341
AC139099.7	1.02E+14	1097.811065	9.56E+24	0.012307347
AC138811.1	29497808.63	79.99065318	1.09E+13	0.008538645
AC138783.10	395635616.6	38.51286732	4.06E+15	0.016252949
AC137932.4	0.648145353	0.430806194	0.975130824	0.0374516
AC135178.7	0.233743465	0.05824175	0.938090064	0.040354323
AC133785.1	1.891664824	1.272475397	2.812153238	0.001626515
AC129778.2	6750348.095	2.17981305	2.09E+13	0.039193316
AC128715.1	0.156545333	0.025449709	0.962936013	0.045423435
AC124861.2	442132.5815	110.2388551	1773251540	0.002134229
AC123023.1	0.432884448	0.191395637	0.97906592	0.044349578
AC122136.2	7.866599818	1.000223188	61.86958414	0.049975215
AC121251.1	0.582588916	0.347622089	0.976375944	0.040295226
AC118550.1	64.69177329	1.00161612	4178.272942	0.049911306
AC117945.1	14.9296091	1.232864417	180.7929768	0.033630181
AC116345.1	28.591763	1.604545921	509.4830261	0.02250579
AC115522.3	1.422253775	1.114646212	1.814751425	0.00461342
AC115286.1	7.259302448	1.658386323	31.77635469	0.008501627
AC114973.1	1.53E+17	25811.26598	9.07E+29	0.008365593
AC114877.3	0.004582423	2.67E-05	0.787149586	0.040255534
AC114765.1	0.134721331	0.020724297	0.875775779	0.035830182
AC113331.9	19.16236589	1.301913743	282.0434673	0.031376825
AC113133.1	2.474095786	1.213768658	5.043094431	0.012661617
AC112504.1	0.00682213	6.11E-05	0.761231731	0.038137276
AC109826.1	0.407241742	0.210273314	0.788715571	0.007727678
AC109642.1	0.64316946	0.486405521	0.850456946	0.001958935
AC108142.1	2.902883261	1.597390854	5.275309551	0.000470908
AC108057.1	465.9491875	3.260539587	66586.72271	0.01523315
AC108004.3	0.017206042	0.000433498	0.682927802	0.03053988
AC107072.2	0.582080446	0.384410281	0.881395898	0.010577463

AC106053.1	7.776497075	1.49224297	40.52550956	0.01488348
AC105443.2	2.84E+13	4435.883808	1.82E+23	0.007170384
AC104837.1	52.73487237	6.170542184	450.6843453	0.000291895
AC104820.2	0.259689688	0.077579793	0.869282207	0.028726461
AC104699.1	0.796919363	0.651269927	0.975141712	0.027495255
AC104113.3	0.230659397	0.064812655	0.820885319	0.023531227
AC104024.1	0.153561405	0.032976495	0.715088279	0.016975662
AC103863.1	122.9848425	2.373845026	6371.633919	0.016885343
AC103564.6	3728.488046	7.63678922	1820349.195	0.009225241
AC098820.2	5.824589856	1.58376833	21.42096564	0.008002028
AC098680.1	388.9655557	4.130606161	36627.60322	0.010122117
AC097711.1	36.78885168	6.172092363	219.2805176	7.55E-05
AC097461.4	1.954923334	1.028229254	3.716802673	0.040866361
AC097452.1	210.4704609	1.128489779	39254.06836	0.044933372
AC096670.3	0.303128848	0.117873187	0.779541987	0.01325859
AC096559.2	2608953.275	5.82437314	1.17E+12	0.026056483
AC096509.1	223.6275452	1.642391755	30449.05627	0.030938464
AC094019.4	0.530206398	0.332379961	0.84577549	0.007745358
AC093911.1	0.078409915	0.010819826	0.568226742	0.011758243
AC093865.1	311.6063292	5.46921598	17753.64234	0.005373434
AC093724.2	1.473284955	1.047182776	2.072769538	0.026104796
AC093673.5	1.213431375	1.009120196	1.459108347	0.039736661
AC093495.4	0.596520135	0.369889331	0.962007392	0.034106243
AC093484.4	0.15299774	0.028937869	0.80891611	0.027136347
AC093267.1	0.113143722	0.013188145	0.970682518	0.046911532
AC093063.2	1.446383884	1.061646514	1.970548871	0.019330106
AC092933.4	8597.697417	2.627752215	28130658.77	0.028239888
AC092839.4	0.270909269	0.080880774	0.90740764	0.034217002
AC092765.1	0.630547028	0.425049511	0.935395863	0.021913248
AC092614.2	0.466393703	0.249287013	0.872580901	0.017013301
AC092570.2	226.206262	12.36868786	4137.000913	0.000256015
AC092570.1	42.4805608	1.508140462	1196.5716	0.02772148
AC092171.4	1.253474242	1.032977989	1.521036936	0.022099449
AC092168.3	2129.542034	8.30405969	546112.3168	0.006771029
AC092168.2	2.54410491	1.345368334	4.810927707	0.004070935
AC092162.1	920.533425	1.341223408	631797.6421	0.04055378
AC092159.3	0.003130803	1.59E-05	0.614662779	0.032303878
AC092159.2	0.023972727	0.001469089	0.391189134	0.008824884
AC092071.1	0.816642246	0.705747604	0.944961846	0.006523768
AC092066.1	1.315117122	1.060895519	1.63025766	0.012443228
AC092048.1	36319.07632	160.2093488	8233447.764	0.000147952
AC092022.1	437.7636077	3.221637356	59484.34137	0.01523315
AC091132.1	0.263487007	0.108659837	0.638924233	0.003165592
AC090617.1	5.272110517	1.119755602	24.82251418	0.035461042
AC090616.2	0.741590259	0.586699503	0.937372725	0.012383849
AC090286.4	8044671.048	48.99349473	1.32E+12	0.009455595
AC090133.1	11.87676688	1.468094995	96.0820601	0.020344478
AC090095.1	69.05374939	2.27785161	2093.384961	0.014978277
AC087350.1	0.823730059	0.687728749	0.986626211	0.035186526

AC087163.2	0.445906043	0.222646693	0.893039089	0.02265481
AC084149.2	2.026312559	1.207751225	3.399659218	0.007474549
AC083949.1	0.600412541	0.36630124	0.984149602	0.043038711
AC083899.3	2.401094801	1.159676779	4.971433719	0.018328337
AC083863.5	12.25885475	1.628125602	92.30216613	0.014966724
AC079807.2	0.625207312	0.410436234	0.952362757	0.028722857
AC079779.7	1.18E-54	1.24E-103	1.12E-05	0.030924679
AC079779.5	155613.8892	1.827894253	13247857459	0.039007967
AC079767.4	0.766059875	0.632755828	0.927447376	0.006292274
AC079756.1	3858312.004	1253.17935	11879043114	0.000215093
AC079466.1	1.424564348	1.041947909	1.947682378	0.026591529
AC079298.1	5.537007641	1.466471755	20.90626942	0.011577598
AC079163.1	4.61E+15	3264549.023	6.52E+24	0.000793028
AC074391.1	0.04877453	0.004320705	0.550594174	0.014584981
AC074389.6	279045394.8	14.55775639	5.35E+15	0.023026898
AC074363.1	19.5054852	3.396813019	112.0061513	0.000864739
AC074289.1	0.663946247	0.469286915	0.939349905	0.020701944
AC074051.2	35107.81015	121.9058681	10110738.34	0.000291895
AC073316.1	0.208093764	0.082503555	0.524862411	0.000882231
AC073255.1	37727072.94	67.35297872	2.11E+13	0.009784078
AC072061.2	10.68755794	1.905357971	59.94878465	0.007087697
AC069303.1	669835.6439	210.0344923	2136219556	0.001117829
AC069280.1	3206977.718	2389.925223	4303358943	4.56E-05
AC069157.1	43229928.94	4528.17558	4.13E+11	0.000169643
AC069155.1	29.39416091	9.166717694	94.25584211	1.30E-08
AC068724.1	0.464530879	0.223894406	0.963797806	0.039495624
AC068580.7	1.670231307	1.080321838	2.582260693	0.021026666
AC068135.1	126.6710409	2.533126069	6334.289003	0.015282419
AC068057.1	106.4586416	1.401357083	8087.476424	0.034626902
AC067961.1	0.036135136	0.002457076	0.531423476	0.015482924
AC067735.1	519.0502521	6.484511345	41547.18063	0.005173974
AC066614.1	4.051282769	1.222268134	13.42822546	0.022123573
AC062032.1	6329.51011	7.542610922	5311515.952	0.010828058
AC061992.1	0.194231356	0.05741313	0.657093932	0.008407101
AC046143.3	1.520328172	1.01514228	2.276919991	0.042063328
AC035144.1	27.98550299	1.372934328	570.4485363	0.030309491
AC034243.1	0.76238862	0.595595964	0.97589044	0.031263519
AC034236.2	2.188993954	1.023429167	4.681999189	0.043418016
AC027612.6	1.854169188	1.384171478	2.483755396	3.48E-05
AC027612.1	4.976640122	1.736246876	14.26464591	0.002818489
AC027347.1	42.7191113	2.493832247	731.7743494	0.009585501
AC026904.1	48.69979955	4.281600248	553.9215103	0.001734252
AC026471.6	0.83578499	0.712527886	0.980363805	0.027554067
AC026393.1	44.94596177	1.906364129	1059.681856	0.018269551
AC026202.3	0.543781828	0.351218312	0.841922721	0.00630573
AC025171.1	0.742648166	0.559127665	0.986404954	0.03992901
AC024132.1	1.51E+17	4165181499	5.45E+24	8.41E-06
AC023593.1	0.671865081	0.466790161	0.967035564	0.032325286
AC023590.1	0.309705428	0.101932566	0.940989278	0.038711967

AC023469.1	2453.612033	1.524232639	3949667.429	0.03827993
AC023449.2	0.303333347	0.09865994	0.93260871	0.037368449
AC023158.1	46.25117362	4.311904988	496.1081162	0.001539514
AC023157.1	0.142270011	0.021633605	0.935616423	0.042436279
AC023050.1	3.738482205	1.29635734	10.78117026	0.014675425
AC021192.1	32.42030039	1.917591987	548.1227938	0.015898469
AC021188.4	0.36097584	0.185844065	0.701144569	0.002628772
AC021016.7	1.924852178	1.1084084	3.342681188	0.020047041
AC020983.5	0.087770186	0.011681451	0.659473325	0.018051425
AC020951.1	0.238450377	0.066961492	0.849123581	0.026941841
AC020550.7	0.436324618	0.195567845	0.97346868	0.042801809
AC019198.1	38.90881791	1.823397064	830.2613518	0.019044718
AC019181.2	0.615790962	0.39886287	0.950698942	0.028659908
AC019178.3	3540.513368	1.040716556	12044811.66	0.048886207
AC019129.1	2.266036196	1.205857519	4.258314071	0.011036261
AC018892.9	0.360687418	0.141280489	0.920830712	0.032970661
AC018647.3	0.032572077	0.005768146	0.183930886	0.000105749
AC018641.7	1.46088984	1.013251308	2.106288053	0.042307492
AC018634.9	0.006752269	8.70E-05	0.524246868	0.024398391
AC018464.3	11.67427144	1.188879263	114.6362107	0.03499596
AC018462.2	0.12242697	0.016995448	0.881904585	0.03709601
AC018359.1	0.056771803	0.004338249	0.742935114	0.02878349
AC017006.2	0.049957728	0.003621807	0.689096503	0.025215681
AC016993.1	1.61642174	1.060995619	2.462610773	0.025377941
AC016970.1	4.358548112	2.109990723	9.00332946	6.97E-05
AC016909.1	3.41E-06	1.18E-11	0.983259154	0.049693163
AC016907.2	6.79E+16	279989.9515	1.65E+28	0.003758671
AC016722.4	0.341116413	0.135326811	0.859847403	0.022603071
AC016717.1	0.522924478	0.287806437	0.950117768	0.033344369
AC015977.6	0.053205712	0.003979886	0.711288599	0.026590355
AC015820.1	97172.86054	174.6033544	54080088.29	0.000370107
AC013472.3	0.000169911	7.72E-07	0.037384237	0.001609342
AC013444.1	1.971221514	1.297533846	2.994692021	0.001469128
AC013429.5	0.000216649	1.21E-06	0.038694539	0.001426564
AC013264.2	0.853152253	0.733029077	0.992960293	0.040246794
AC012671.4	10.46810717	2.051158435	53.42408752	0.004745286
AC012668.2	0.080723636	0.006600184	0.987291415	0.048841187
AC012513.6	113.3804061	18.45526879	696.5553648	3.26E-07
AC012512.1	1.200389513	1.05067271	1.371440383	0.007204864
AC012497.2	94612.61418	1.884240289	4750745865	0.038016228
AC012487.2	2.360588483	1.186436042	4.696736939	0.014404874
AC012476.1	0.535140156	0.304458365	0.940604758	0.029798751
AC012368.1	0.409380507	0.18557471	0.903099349	0.026935495
AC012065.4	2.053295835	1.242631163	3.392819939	0.004989079
AC011899.9	0.589554607	0.386623156	0.899001079	0.014105619
AC011899.10	0.126830565	0.019173228	0.83898193	0.032185993
AC011515.2	0.443516765	0.202621581	0.970810313	0.041943507
AC011284.3	0.119100375	0.027112846	0.523180026	0.004833757
AC011239.2	0.186630686	0.034943969	0.99676752	0.049558899

AC011073.1	43.86001241	1.106056408	1739.24284	0.044046557
AC010980.2	1.596694927	1.051062469	2.425578654	0.028278297
AC010970.1	7292518015	3260.510927	1.63E+16	0.002331221
AC010967.2	1.91989171	1.065463398	3.459512721	0.029929823
AC010967.1	77370.4633	14.87552841	402418551.1	0.009927202
AC010931.1	759.8098151	50.94787721	11331.40352	1.50E-06
AC010887.1	45.73926236	1.415476075	1478.004579	0.031090423
AC010746.3	0.02337051	0.000597087	0.914741717	0.044686682
AC010633.1	0.132925257	0.025450956	0.69424205	0.0167268
AC010368.1	26.94462535	1.646425932	440.9629499	0.020911164
AC010095.5	0.526296471	0.28697848	0.96518727	0.038034972
AC009970.1	0.212198935	0.059289428	0.75946741	0.017177684
AC009961.5	0.239648782	0.082640864	0.694953273	0.008541213
AC009961.2	0.242395779	0.077648664	0.756686729	0.014687712
AC009892.9	5.482831214	1.468065158	20.47691001	0.011371857
AC009831.1	0.340020713	0.117720659	0.982105318	0.046225378
AC009506.1	0.614193628	0.429591062	0.878123048	0.007527658
AC009500.2	188852.6173	2.112598844	16882197557	0.03674896
AC009473.1	0.509878688	0.28086211	0.925636701	0.026832329
AC009336.19	483.774447	6.319235863	37035.76201	0.005223439
AC009299.3	0.691857082	0.556131583	0.860706775	0.000945493
AC009299.2	0.163991577	0.045803367	0.587145424	0.005465809
AC009276.4	0.008076659	6.62E-05	0.986075901	0.049335142
AC009238.8	9.399412466	1.984748163	44.51393701	0.00474446
AC009237.4	1.74E+11	285378.3551	1.06E+17	0.000140037
AC009237.2	3.27E+13	7699900.363	1.39E+20	6.44E-05
AC009166.7	218.4329012	2.945757005	16197.17182	0.014218248
AC009133.17	0.265105062	0.103973236	0.675949857	0.005435076
AC009127.1	610.2514626	1.34813838	276237.85	0.039810656
AC009120.6	0.710400447	0.538655212	0.936905061	0.015455705
AC009120.5	0.703916282	0.511512349	0.968692414	0.03114463
AC009120.3	0.736839346	0.576148977	0.942346934	0.014971347
AC009060.2	0.314873517	0.121339672	0.817089168	0.017541091
AC009014.3	1.547032947	1.028305571	2.327431655	0.036267968
AC008937.2	0.12259108	0.018392712	0.817093919	0.030106915
AC008753.1	10.73312193	2.189986147	52.60302971	0.003426913
AC008622.1	2.572969216	1.111111293	5.958143779	0.027391508
AC008278.2	0.277237287	0.10078413	0.762625166	0.01296062
AC008074.1	0.064568296	0.008774236	0.475148483	0.007130387
AC008073.7	0.120358839	0.016861587	0.859127325	0.034739738
AC008060.5	319.031251	3.284445367	30988.7752	0.013537628
AC007880.1	0.020091949	0.001287869	0.313452986	0.005310147
AC007879.5	1.962484021	1.049106201	3.671071172	0.034859121
AC007787.3	0.392155427	0.160546913	0.957887489	0.039938164
AC007773.2	1.345202	1.029837239	1.757140208	0.029579943
AC007563.3	0.043032173	0.002429939	0.762063681	0.031931632
AC007392.3	0.02009947	0.001255382	0.321805403	0.005757715
AC007386.4	0.60008886	0.410778525	0.876644271	0.008272071
AC007318.5	1.319082076	1.09500021	1.589020266	0.003552873

AC007255.8	1.380988895	1.053588452	1.81012835	0.019383777
AC007228.11	0.428467764	0.197062859	0.931604392	0.032456357
AC007163.6	4.189529072	1.881310704	9.329747501	0.000453086
AC007163.3	4.976285144	1.411797917	17.54033884	0.01254306
AC007128.1	1.329766397	1.019369465	1.734678867	0.03560452
AC007091.1	10.03471462	1.635277493	61.57700942	0.012728355
AC007050.1	659.3119176	2.201254928	197474.7219	0.025669834
AC007038.7	0.507010484	0.268508182	0.957362376	0.036231672
AC007036.4	0.387704989	0.165687075	0.907223198	0.028930063
AC007016.3	1.80619431	1.00742353	3.23829828	0.047167452
AC006995.8	7200727.105	21.60488471	2.40E+12	0.014950513
AC006942.4	0.626659705	0.427710253	0.918150508	0.01647805
AC006547.13	0.639593727	0.419592058	0.974947279	0.037715943
AC006539.3	0.363878905	0.188152389	0.703726685	0.002663896
AC006534.3	0.439932793	0.194652876	0.994287197	0.048411876
AC006486.10	3.196257599	1.252939523	8.153675777	0.015020098
AC006380.1	29497808.63	79.99065318	1.09E+13	0.008538645
AC006378.2	0.648265335	0.439877584	0.955374767	0.028474403
AC006369.2	0.312351451	0.176924524	0.551440957	6.01E-05
AC006130.1	13.53378504	1.342090138	136.4761818	0.027139621
AC006129.2	0.636059373	0.487555467	0.829795898	0.000852119
AC006129.1	0.350971711	0.178027063	0.691923688	0.002499684
AC006128.2	0.794295863	0.643862585	0.979876659	0.031577343
AC006116.22	0.02026624	0.000452073	0.908526635	0.044494094
AC006116.1	0.698119402	0.49618369	0.982238453	0.039128259
AC006115.6	118.1463707	3.940611603	3542.233116	0.005953209
AC006042.8	0.514290841	0.282803109	0.935262241	0.029308667
AC006042.7	0.309939527	0.118341768	0.811738003	0.017099393
AC006028.11	0.082193973	0.007539366	0.896076601	0.040365467
AC006014.8	0.02037483	0.000740093	0.560921239	0.021347822
AC005776.1	0.474854972	0.234799017	0.96034152	0.03821147
AC005722.4	505.3539077	8.852300502	28849.28861	0.002555438
AC005626.3	13.34757779	2.095445746	85.02144864	0.006087364
AC005550.3	1.660050193	1.204475106	2.287939893	0.001957498
AC005355.2	1.43265969	1.199134002	1.711663405	7.49E-05
AC005300.5	0.163516081	0.041041053	0.651482045	0.010242735
AC005288.1	0.318669232	0.113145218	0.897519854	0.030417254
AC005255.3	1.290434573	1.001946065	1.661987052	0.048265513
AC005154.7	0.593938773	0.365497446	0.965159318	0.035455325
AC005150.2	41.80179487	7.56557743	230.9658543	1.87E-05
AC005077.14	1.281850286	1.121469212	1.465167423	0.000271629
AC005077.12	1.428027999	1.107722183	1.840952539	0.005969879
AC005076.5	0.589302238	0.370078905	0.938386713	0.025888578
AC005062.2	0.404577723	0.165525698	0.988868409	0.047198683
AC005037.3	2.560306307	1.261764729	5.195238254	0.009214888
AC005037.1	17.09265713	2.345402255	124.566661	0.005091863
AC004878.2	3877.540601	47.2868522	317959.8644	0.000237768
AC004870.3	6.978768895	1.622876907	30.01041858	0.009039245
AC004869.2	62445.56217	5.395780722	722684711.7	0.020719165

AC004866.3	15099281808	1582.465168	1.44E+17	0.004258149
AC004813.1	1.794750552	1.144942187	2.813355627	0.010768097
AC004485.3	1.09E-07	2.87E-13	0.041601725	0.014488655
AC004066.3	0.430947664	0.234862448	0.790743225	0.006566263
AC004063.1	0.001136958	1.36E-06	0.953393406	0.048397646
AC004000.2	18.66928222	1.901073421	183.3396304	0.012034532
AC003991.3	0.428004095	0.197115874	0.929339186	0.031936033
AC003956.1	0.432895787	0.22035262	0.850449442	0.015092967
AC003092.1	1.236828471	1.011630498	1.512157521	0.038197734
AC003005.2	2.048025436	1.026651697	4.085522087	0.041889569
AC002519.8	0.049489064	0.003282997	0.74601572	0.029882539
AC002486.2	404.1076459	5.919731834	27586.21404	0.005349108
AC002480.2	2.38E-06	9.00E-11	0.062966929	0.012696639
AC002454.1	2.975711685	1.529898948	5.787872489	0.001315226
AC002400.1	0.255119742	0.07071877	0.920350881	0.036910152
AC002398.9	12.4502423	1.600617062	96.84298447	0.015978882
AC000078.5	0.680921547	0.473746063	0.978697638	0.037866439
ABTB1	0.755815342	0.572033965	0.998641456	0.048892496
ABLM3	1.217389371	1.014798882	1.460424233	0.034162364
ABL1	1.363927308	1.023774812	1.817096572	0.033964125
ABI3BP	0.791373149	0.661342638	0.946969734	0.010620937
ABHD6	0.675072301	0.488582908	0.932743664	0.017216947
ABHD4	1.305607714	1.042619376	1.634931733	0.020145065
ABHD16A	0.648267596	0.423440881	0.992466468	0.046068527
ABHD15-AS1	0.106473052	0.012690576	0.893301528	0.039024094
ABHD14A	0.745724974	0.59444765	0.935499934	0.011201701
ABCE1	1.330073173	1.002636856	1.764442066	0.047903023
ABCD2	0.450206761	0.237051094	0.855031394	0.014747347
ABCD1P4	9809.956585	2.47401752	38898369.73	0.029686417
ABCD1	1.315801587	1.036485045	1.670389578	0.02417625
ABCC8	0.542970223	0.298362912	0.988114309	0.045597061
ABCC6P2	0.631699592	0.477852973	0.835077726	0.001257207
ABCC6P1	0.677069522	0.481223382	0.952620249	0.025182638
ABCC6	0.766344633	0.635622512	0.923951065	0.005289427
ABCC4	0.829080022	0.700912111	0.980684557	0.028698708
ABCC2	1.190954913	1.100806709	1.288485611	1.35E-05
ABCC12	0.044714375	0.003210256	0.622808671	0.020760306
ABCC1	1.23437377	1.007318781	1.512608156	0.042328557
ABCB10P4	4.059150476	1.427385896	11.54327125	0.008606768
ABCA9-AS1	3.260640332	1.729984348	6.145590502	0.000257265
ABCA8	0.654925263	0.494989523	0.866537736	0.003049058
ABCA6	0.511363937	0.304576684	0.858545941	0.011185142
ABCA5	0.701858227	0.510869542	0.96424807	0.028916448
ABCA3	0.851234843	0.777788072	0.931617216	0.000467836
ABCA10	0.335525416	0.125729481	0.895393063	0.029213568
ABAT	0.627524481	0.504594456	0.780402895	2.80E-05
ABALON	1.78451037	1.184059581	2.689456943	0.005653612
AATF	1.428584896	1.032975096	1.97570572	0.031077814
AAGAB	1.380335853	1.010656968	1.885236165	0.042701838

AADACP1	1.271172617	1.000424169	1.615194706	0.049595739
A2MP1	0.015229958	0.000620613	0.373745925	0.01038606
A2M-AS1	0.43066873	0.216846284	0.855331949	0.016113651
A2M	0.865952386	0.767586037	0.976924407	0.019312523
