

The 2,112 differentially expressed genes obtained from the GEO datasets

gene	logFC	conMean	treatMean	pValue
AADAC	-1.07721	1.078133	0.510976	1.18E-05
ABCA10	-2.19655	0.54789	0.119527	4.08E-18
ABCA12	1.951305	0.150944	0.583735	2.71E-08
ABCA6	-2.11358	1.16	0.268044	1.36E-16
ABCA8	-2.72895	1.116243	0.16837	8.59E-18
ABCA9	-2.18791	0.524456	0.115102	1.29E-16
ABCC5	1.064841	1.424713	2.980414	0.000513
ABI3BP	-1.60704	0.511329	0.167855	2.10E-11
ABL2	1.081286	0.439361	0.929653	4.39E-15
ABLM3	-1.39208	0.393204	0.149816	9.67E-08
ABO	-1.22278	2.091526	0.896126	1.22E-11
ACACB	-1.63523	0.47592	0.153207	5.46E-14
ACADL	-2.32225	0.210054	0.042001	7.02E-12
ACKR1	-1.80072	6.981722	2.003967	7.39E-14
ACOT7	1.298668	0.104898	0.258051	1.47E-13
ACOX2	-1.65943	0.181143	0.057343	8.60E-15
ACOX3	-1.01436	0.504159	0.249584	3.54E-14
ACP3	-1.34162	0.591897	0.233548	1.42E-05
ACP5	1.203967	4.095336	9.434519	4.39E-10
ACP7	3.817738	0.040878	0.576423	2.58E-07
ACTA2-AS1	-1.02258	0.793114	0.390398	2.77E-09
ACTG2	-1.06315	0.579237	0.277215	2.61E-05
ACTL6A	1.235753	1.101156	2.593268	6.78E-14
ACTN1	1.156352	1.221834	2.723385	1.15E-08
ACTRT3	1.093223	0.401898	0.85745	1.76E-09
ADA	1.031054	0.242608	0.495773	1.38E-06
ADAM12	2.299136	0.037201	0.183088	2.48E-12
ADAM23	1.622332	0.085473	0.263148	6.01E-05
ADAM33	-1.43314	1.695439	0.627862	5.53E-12
ADAM8	1.067513	1.068285	2.23893	2.55E-05
ADAMTS14	2.165553	0.04592	0.206015	2.19E-12
ADAMTS2	2.348686	0.07539	0.384005	6.50E-14
ADAMTS7	1.442381	0.070646	0.191994	5.07E-10
ADCY4	-1.0034	1.086785	0.542112	4.21E-11
ADCY6	-1.07103	2.408484	1.146386	1.46E-12
ADGRF1	-2.33943	2.305825	0.455604	3.83E-15
ADGRG6	-1.08099	0.595225	0.281365	7.01E-10
ADH1B	-4.64688	2.699685	0.107761	1.55E-17
ADH4	-2.1841	0.486727	0.107104	2.89E-16
ADH7	-1.1747	7.862909	3.483084	2.10E-06
ADHFE1	-1.21988	0.28218	0.121145	3.40E-10
ADIPOQ	-4.87292	0.816193	0.027855	9.63E-09

ADM	1.068192	11.76383	24.66645	3.39E-08
ADRA2A	-1.32044	3.478262	1.392743	1.79E-07
ADRB1	-2.21754	1.632958	0.351098	8.06E-14
AFAP1-AS1	2.257805	0.226876	1.085062	1.83E-06
AFAP1L2	1.099627	0.265037	0.567972	3.19E-06
AGAP2-AS1	1.064381	1.420204	2.970033	5.23E-14
AGBL2	-1.96055	0.165056	0.042408	0.005883
AGFG2	-2.08249	3.242742	0.765632	2.63E-16
AGR2	-2.02569	4.576775	1.124003	2.73E-10
AGR3	-2.59695	0.452628	0.074814	6.49E-10
AGRN	1.119924	3.15777	6.862955	5.15E-08
AIF1L	-1.54238	2.525565	0.867071	1.57E-10
AIM2	1.474104	0.095012	0.263954	1.91E-07
AJUBA	1.075678	3.530739	7.441783	1.69E-07
AKAP12	-1.31819	1.310014	0.525363	8.65E-11
AKR1B1	1.007563	0.940476	1.890838	6.39E-11
AKR1B15	2.69076	0.028475	0.183852	7.16E-11
ALDH1L1	-2.14423	0.433978	0.098173	3.02E-13
ALDH3A1	-1.53693	31.8023	10.95967	6.85E-08
ALDH3B1	-2.09543	1.387202	0.324602	6.50E-14
ALDH6A1	-1.17594	1.505992	0.666545	4.21E-14
ALG1L	1.07091	0.469061	0.985383	7.53E-08
ALG3	1.040262	2.213003	4.551265	1.83E-14
ALKAL2	-1.21733	0.511828	0.220125	1.59E-07
ALOX12B	3.273546	0.278424	2.692419	3.18E-08
ALOX15	-2.47628	4.847881	0.871196	6.69E-07
ALOXE3	3.630805	0.049197	0.60942	1.54E-11
ALS2CL	-1.02508	3.906306	1.919494	6.31E-07
AMIGO1	-1.06738	1.616281	0.771265	2.41E-09
AMIGO2	1.47107	2.076644	5.757024	0.002874
AMOT	-1.14577	0.54261	0.245232	3.75E-11
AMPD1	-1.55218	0.202768	0.069143	1.19E-08
AMTN	3.985609	0.171823	2.721886	1.53E-05
AMY2B	-1.21272	0.777607	0.335502	1.29E-13
ANG	-1.81619	0.837588	0.237851	1.17E-10
ANGPTL1	-1.7013	1.308311	0.402317	4.74E-17
ANKRD13B	1.084572	0.243481	0.516361	9.48E-07
ANKRD66	-4.19869	0.340215	0.018528	4.10E-06
ANKUB1	-2.60663	0.219895	0.036103	0.001131
ANLN	1.802195	0.597904	2.085192	2.79E-15
ANXA1	-1.35177	182.5253	71.51525	0.003646
ANXA9	-1.69322	2.14688	0.663892	6.23E-08
AOC3	-1.68943	2.112588	0.655007	1.38E-09
AOX1	-1.85937	0.394879	0.108827	1.79E-12

APLN	3.003249	0.067985	0.545107	1.01E-12
APOBEC3A_B	1.423913	1.163037	3.120573	0.003269
APOBEC3B	2.064449	0.36495	1.526493	8.65E-11
APOBEC4	-2.24869	0.616067	0.129629	0.001188
APOC1	1.94081	0.586523	2.251785	3.90E-11
APOD	-2.58091	9.999097	1.671201	3.19E-15
APOE	1.191927	12.10147	27.64672	8.20E-07
APOL1	1.401926	5.220125	13.7944	1.31E-08
APOL4	1.020021	0.477324	0.967988	1.54E-06
AQP1	-1.27696	1.802246	0.743724	1.89E-10
AQP2	-3.16948	0.264072	0.02935	4.97E-13
AQP3	-1.56508	103.6907	35.04313	6.39E-11
AQP4	-2.78898	0.236676	0.034244	4.33E-14
AQP5	-3.18504	40.92576	4.49992	4.03E-14
AQP5-AS1	-3.11513	0.66898	0.077209	4.28E-14
AQP6	-2.48875	0.259001	0.046144	2.83E-10
AQP9	1.553461	0.111359	0.32686	1.00E-06
AR	-1.9328	0.160375	0.042005	3.38E-14
ARFGEF3	-2.15849	0.90406	0.202501	2.10E-09
ARHGAP11A	1.433139	1.038924	2.805442	2.15E-13
ARHGAP40	-1.33794	0.307999	0.121839	0.000106
ARHGEF10L	-1.01997	0.438915	0.216441	1.33E-09
ARHGEF4-AS1	1.305598	0.0626	0.154738	1.98E-05
ARL14	1.454374	0.795869	2.18098	0.046584
ARNTL2	1.015493	0.801227	1.619755	1.13E-07
ARSI	3.177264	0.026798	0.242412	2.09E-14
ARTN	2.222141	0.780749	3.642862	6.40E-13
ASB14	-1.10455	0.394871	0.183634	3.83E-16
ASF1B	1.332797	0.302414	0.761752	3.72E-13
ASPA	-2.46673	0.178881	0.03236	4.97E-17
ASPHD1	1.437907	0.100356	0.271892	1.83E-06
ASPM	1.627017	0.769743	2.377534	2.34E-13
ASPN	2.24011	0.686742	3.244396	1.12E-10
ASPRV1	3.143178	1.118854	9.884713	9.76E-07
ASRGL1	-1.16824	0.17973	0.079973	1.63E-06
ATAD2	1.44132	0.495466	1.345532	4.01E-15
ATAD5	1.085672	0.328092	0.69633	2.91E-12
ATOH8	-1.95005	0.19561	0.050625	2.18E-14
ATP12A	-1.97846	4.949993	1.25611	5.88E-09
ATP13A3	1.112645	1.480963	3.202461	6.01E-15
ATP1A2	-1.88963	0.738163	0.199213	3.69E-14
ATP1B2	-1.03625	0.315651	0.153909	6.29E-09
ATP1B3	1.385538	2.611281	6.822478	4.78E-13
ATP2A1-AS1	1.260191	0.21103	0.505475	6.94E-05

ATP2A3	-2.14613	7.207464	1.628293	3.05E-10
ATP6V0A4	-3.11583	0.229517	0.026476	3.18E-16
ATP6V0E2	-1.08186	1.587486	0.749959	6.50E-07
ATP7B	-2.18088	0.413274	0.091144	8.22E-12
ATP8A1	-1.09269	0.188561	0.088414	1.76E-10
AUNIP	1.858295	0.069611	0.252394	1.34E-15
AURKA	1.708175	0.320245	1.04639	1.54E-15
AURKB	1.622488	0.811863	2.499773	2.84E-14
AZGP1	-2.74309	46.99459	7.019317	7.97E-09
B3GALT5	-2.1951	0.232	0.050664	1.86E-12
B3GNT3	-1.37932	2.308532	0.887399	1.27E-11
B3GNT6	-2.40805	1.751541	0.330009	9.39E-15
B3GNT7	-1.53221	5.349491	1.849573	3.05E-10
B4GALNT1	2.741086	0.194415	1.29981	5.49E-15
B4GALNT3	1.429154	0.332768	0.896107	1.32E-07
B4GALNT4	1.496317	0.342271	0.96562	1.49E-07
BAIAP3	-1.80823	1.019845	0.291208	6.52E-10
BARX1	2.434723	0.277065	1.497981	0.026098
BARX2	-1.84661	0.828951	0.230486	3.71E-12
BBOF1	-1.6367	0.19286	0.062022	2.83E-10
BCAN	1.087722	0.129102	0.274392	0.023054
BCAS1	-2.41459	0.422186	0.079184	2.29E-16
BCL2A1	1.547957	0.412891	1.207304	1.68E-06
BCL2L10	1.378274	0.235299	0.611676	8.39E-05
BCL2L15	-1.95222	0.401947	0.103871	2.28E-14
BEND7	-1.40435	0.210699	0.0796	8.09E-10
BEST4	-2.18512	0.842167	0.185187	0.000349
BGN	1.223478	5.279087	12.32714	0.000111
BHLHA15	-1.72752	8.609929	2.599952	3.71E-07
BHLHE22	-1.11991	0.845663	0.389108	3.29E-09
BHMT2	-1.71195	0.238925	0.072931	1.54E-15
BICD1	1.013691	0.074691	0.150806	1.26E-10
BICDL2	-1.64684	8.949375	2.857875	4.05E-13
BID	1.159807	0.386764	0.864136	1.41E-13
BIRC5	1.878707	0.793411	2.917729	3.50E-15
BLM	1.229399	0.1156	0.271046	2.34E-13
BLNK	-1.05814	0.534199	0.25655	6.50E-07
BMP2	1.519948	0.740462	2.123501	1.83E-06
BMP3	-2.76298	0.843351	0.124242	2.72E-14
BMS1P17	3.277668	0.046905	0.454879	4.47E-15
BNC1	1.868201	0.982814	3.588031	8.33E-11
BNIP3	1.036762	1.416042	2.905178	3.86E-08
BOC	-1.46598	0.789245	0.285698	2.48E-12
BPIFA1	-2.70387	14.39373	2.209156	3.00E-07

BPIFB1	-3.17504	135.1407	14.96248	4.23E-10
BPIFB2	-2.66883	18.2721	2.87336	1.00E-09
BRCA1	1.291252	0.255857	0.626184	1.53E-14
BRCA2	1.183206	0.31859	0.723456	3.86E-12
BRIP1	1.526782	0.072663	0.209373	2.55E-13
BRIX1	1.010454	2.016828	4.062989	1.67E-11
BST2	1.919462	10.73586	40.61184	1.08E-08
BTC	-1.77649	0.215593	0.06293	2.34E-13
BTG3	1.158749	1.038502	2.318599	9.68E-13
BUB1	1.592154	0.338798	1.021473	9.00E-15
BUB1B	1.587996	0.219999	0.661387	1.90E-13
C10orf55	1.731019	0.106573	0.353781	4.96E-09
C10orf95	-1.06436	2.014069	0.9631	0.000778
C10orf99	1.280059	2.329231	5.656514	0.005162
C11orf16	-2.11567	0.541814	0.125017	0.001973
C11orf87	3.142738	0.028255	0.24955	4.56E-05
C12orf75	1.829071	0.184505	0.655562	7.02E-12
C15orf62	-1.47986	10.94157	3.922815	1.87E-11
C15orf65	-1.01243	0.136715	0.067771	4.61E-05
C16orf74	1.544304	0.084966	0.247814	7.56E-13
C16orf89	-2.86605	0.274709	0.03768	5.96E-14
C18orf54	1.403561	0.248336	0.656983	9.29E-13
C19orf48	1.080975	2.097879	4.437989	1.40E-12
C19orf67	-1.04949	0.262429	0.12679	6.51E-09
C1orf115	-1.17781	2.360326	1.043318	3.52E-09
C1orf116	-1.15503	15.41665	6.92297	8.41E-06
C1orf210	-1.12761	1.829967	0.837525	4.91E-12
C1orf68	3.27992	0.157	1.524943	1.04E-11
C1QL1	2.064351	0.041593	0.173961	4.30E-07
C1QTNF12	1.830396	0.256796	0.913256	4.39E-05
C1QTNF6	1.888354	0.58409	2.162374	3.05E-15
C20orf85	-4.20549	1.523858	0.082598	1.11E-06
C22orf15	-1.89488	1.151918	0.309747	2.10E-06
C2CD4C	1.472581	0.093856	0.260466	0.000274
C2orf66	1.177036	0.081881	0.185141	0.036511
C3	-1.16866	10.08937	4.488109	1.50E-08
C4orf48	1.058355	0.740645	1.542435	0.000184
C5orf46	-1.78751	0.514574	0.149058	0.005069
C5orf49	-3.77717	0.323128	0.023569	1.24E-07
C6orf118	-4.16783	0.21876	0.012171	9.31E-09
C6orf141	1.704219	2.079018	6.774532	4.61E-05
C6orf15	2.418887	1.289512	6.895774	0.001054
C6orf223	2.786269	0.092204	0.63606	1.46E-12
C6orf58	-3.46822	51.91915	4.691253	2.58E-09

C7	-2.94647	0.917923	0.119077	3.49E-16
C9orf116	-1.98958	0.811953	0.20446	0.000535
C9orf152	-2.31397	2.00112	0.402437	3.50E-15
C9orf24	-3.14545	0.445335	0.050328	1.36E-07
CA8	-2.67638	0.193155	0.030216	5.07E-10
CA9	4.17471	0.061096	1.10339	4.59E-13
CAB39L	-1.81128	0.219118	0.062435	7.05E-18
CABYR	1.139648	0.188528	0.415378	0.038062
CADM3	-1.09343	0.259622	0.121671	1.54E-07
CALB1	4.442567	0.077343	1.681776	0.000172
CALML5	1.585852	26.1	78.34827	0.010591
CAMK2N2	1.856882	0.147284	0.533498	5.11E-12
CAPN14	-3.66297	4.165428	0.328848	1.61E-05
CAPN5	-2.42405	1.026128	0.191201	6.38E-18
CAPS	-2.58061	16.37683	2.737725	2.54E-10
CAPSL	-4.15837	0.22105	0.012379	2.10E-06
CAPZA3	1.531768	0.070063	0.20258	0.020869
CARD10	1.093326	0.511626	1.091633	1.31E-05
CARD17	1.747708	0.051134	0.17172	2.39E-05
CARD18	2.924211	0.107178	0.81354	5.97E-06
CASC9	2.750915	0.028194	0.189787	9.28E-16
CASP14	4.28649	0.128014	2.498165	6.34E-10
CAV1	1.654399	1.76106	5.543676	2.08E-08
CAV2	1.194506	6.355281	14.54511	3.80E-10
CAVIN2	-1.24584	2.936119	1.238053	8.91E-13
CBLN1	-1.57196	0.196818	0.0662	5.32E-06
CBR3-AS1	-1.04748	0.714142	0.34551	6.14E-13
CBX2	2.162048	0.447566	2.003078	4.05E-13
CBX7	-1.16842	1.857007	0.826199	1.67E-13
CCDC110	-1.84007	0.179726	0.050199	6.90E-11
CCDC113	-1.64045	0.436173	0.139906	0.012249
CCDC125	-1.1357	0.54519	0.248124	5.32E-16
CCDC153	-1.60468	0.438983	0.144342	1.20E-07
CCDC160	-3.20627	0.417398	0.045224	8.43E-15
CCDC17	-2.52504	7.221188	1.25457	4.35E-12
CCDC170	-2.67012	0.212141	0.03333	9.76E-07
CCDC190	-1.30129	1.879422	0.7626	4.39E-08
CCDC40	-1.39058	0.225789	0.086118	0.000535
CCDC65	-1.11304	0.350093	0.161854	0.004063
CCDC78	-2.30709	3.613955	0.730265	0.000702
CCDC86	1.110794	1.607882	3.472455	1.08E-14
CCDC87	1.49799	0.279994	0.790839	5.07E-10
CCDC89	-1.5489	1.220555	0.417151	0.000101
CCDC96	-1.77896	2.562903	0.746812	7.97E-07

CCKAR	-2.22251	0.414178	0.088745	2.82E-09
CCL11	3.737052	0.110136	1.468563	1.97E-14
CCL19	-1.93775	17.6327	4.60254	1.76E-10
CCL20	1.209246	1.242919	2.873836	0.000424
CCL21	-2.14284	41.86	9.478534	3.88E-13
CCL22	1.048192	0.786707	1.626859	1.07E-05
CCL28	-2.46024	2.00103	0.363619	1.96E-10
CCL7	3.242793	0.030089	0.284828	4.08E-10
CCN4	1.307813	0.233549	0.578187	4.54E-11
CCN5	-1.72046	0.471017	0.142931	1.07E-09
CCNA2	1.360505	2.087811	5.360977	2.28E-12
CCNB1	1.45293	1.606448	4.397867	5.75E-12
CCNB2	1.669463	0.470465	1.49653	2.18E-14
CCND2	1.115946	4.576295	9.91853	0.000442
CCNE1	1.793572	0.238159	0.82563	1.94E-15
CCNF	1.277694	0.351365	0.851889	1.12E-14
CCNO	-1.4617	1.905048	0.691655	0.001165
CCNP	1.772502	0.053182	0.181693	5.75E-08
CCR8	1.917944	0.124522	0.470549	8.22E-12
CCRL2	1.031934	1.008936	2.063035	6.28E-06
CCT2	1.126138	4.702667	10.26468	9.17E-14
CCT5	1.141461	8.172114	18.02804	1.41E-13
CD109	1.337603	0.64463	1.62918	4.72E-11
CD164L2	-1.05755	1.430951	0.687494	4.70E-07
CD1C	-1.35511	0.928289	0.362872	4.99E-07
CD200R1	-1.04654	0.361417	0.174972	2.42E-06
CD200R1L	1.449747	0.081389	0.222323	1.57E-05
CD22	-1.67386	0.517947	0.162332	0.003209
CD274	1.244623	0.566806	1.343085	8.64E-06
CD276	1.529035	0.860778	2.484142	1.12E-16
CD300E	1.333473	0.230728	0.581455	1.54E-06
CD300LF	1.030874	0.070941	0.144951	7.98E-06
CD34	-1.20404	1.74022	0.755358	1.31E-10
CD40LG	-1.58259	0.212133	0.070827	8.98E-11
CD79B	-1.1582	2.082975	0.933319	0.001535
CD80	1.446441	0.069666	0.189865	1.76E-10
CD86	1.040089	0.12148	0.249806	2.15E-07
CDA	1.463813	0.158082	0.436048	2.48E-05
CDC20	1.600498	2.748165	8.333757	1.35E-13
CDC25A	1.242094	0.155069	0.366804	1.37E-11
CDC25B	1.309715	1.820756	4.513518	7.87E-15
CDC42EP5	-1.34404	2.207207	0.869453	1.48E-11
CDC45	1.975994	0.111284	0.437788	1.12E-15
CDC6	1.847772	0.492225	1.771735	4.02E-16

CDC7	1.066656	0.446363	0.93494	2.36E-11
CDCA2	1.674048	0.169356	0.540429	5.46E-14
CDCA3	1.489711	0.847169	2.379128	6.88E-15
CDCA4	1.396482	1.030112	2.711861	1.17E-15
CDCA5	2.05816	0.320273	1.333794	3.90E-17
CDCA7	1.095809	0.840669	1.796786	3.18E-08
CDCA8	1.543682	0.330642	0.963945	2.22E-15
CDH11	1.721395	0.17979	0.592866	8.01E-08
CDH24	1.221701	0.524294	1.222767	2.28E-14
CDH26	-1.25882	0.699229	0.292198	1.76E-09
CDH3	1.866702	0.94965	3.463353	2.09E-14
CDHR1	1.502668	0.419015	1.187346	3.19E-05
CDHR3	-3.88781	0.656181	0.044328	1.54E-07
CDHR4	-3.69934	1.054897	0.081208	3.59E-07
CDK1	1.695131	1.056217	3.420098	1.90E-13
CDK2	1.126519	2.799206	6.111543	9.73E-17
CDK4	1.063818	2.611067	5.458323	2.55E-15
CDK5R1	1.035117	5.183882	10.62322	1.76E-09
CDK6	1.198568	0.460497	1.056895	1.23E-08
CDKN3	1.490179	0.19171	0.538558	2.66E-13
CDNF	-1.33367	0.189045	0.075005	2.11E-12
CDO1	-2.13608	0.521434	0.118625	1.17E-10
CDR2L	1.149869	0.555891	1.233488	6.90E-11
CDSN	4.323682	0.668324	13.38274	2.77E-13
CDT1	1.388865	1.383172	3.622148	3.69E-14
CEACAM1	-1.63045	2.281505	0.736899	3.61E-11
CEACAM19	1.277713	0.260685	0.632043	2.48E-12
CEACAM5	-2.09356	20.88118	4.892492	3.28E-12
CEACAM6	-1.68067	15.84391	4.942315	3.47E-11
CEACAM7	-1.57157	2.908571	0.978565	0.001013
CEBPE	2.94571	0.025953	0.199959	6.94E-06
CELSR3	1.544567	0.180852	0.527574	1.46E-10
CENPA	1.934888	0.354281	1.354589	2.22E-15
CENPE	1.586301	0.327229	0.982597	9.99E-14
CENPF	1.801037	1.214768	4.233108	7.08E-14
CENPH	1.193766	0.248063	0.567442	4.02E-12
CENPI	1.494625	0.081844	0.230628	2.72E-14
CENPL	1.246579	0.177742	0.421743	3.66E-15
CENPM	1.1377	0.399881	0.879859	1.35E-10
CENPN	1.538787	0.287755	0.836072	1.55E-17
CENPO	1.044285	0.478787	0.987424	3.19E-15
CENPQ	1.115535	0.172545	0.373862	1.10E-12
CENPW	1.305062	0.707798	1.748928	9.00E-10
CEP126	-1.21261	0.316949	0.13676	2.65E-11

CEP55	2.035216	0.353933	1.450714	4.80E-15
CEP72	1.090366	0.16607	0.35361	3.16E-12
CERCAM	1.264979	0.613277	1.473849	1.97E-07
CEROX1	-2.12566	1.340033	0.307063	2.98E-11
CES4A	-1.05909	0.655264	0.314483	1.32E-07
CFAP100	-2.49947	0.262571	0.046434	5.35E-06
CFAP141	-2.12777	0.185146	0.042364	7.30E-07
CFAP157	-2.32789	2.145764	0.427382	0.004287
CFAP276	-2.80682	0.529268	0.075638	4.25E-08
CFAP43	-3.29225	0.396336	0.040457	3.19E-06
CFAP45	-2.52545	0.505041	0.087718	0.0096
CFAP65	-4.15343	0.287173	0.016138	1.09E-09
CFAP69	-1.0845	0.249656	0.117726	1.85E-07
CFAP70	-2.08488	0.190653	0.04494	2.96E-09
CFAP73	-2.80755	0.791871	0.113109	1.24E-09
CFAP91	-2.35919	0.28295	0.055147	1.37E-11
CFD	-2.6301	15.22395	2.459171	1.12E-16
CFH	-1.2311	3.754806	1.59952	5.11E-12
CGAS	1.072731	0.278838	0.586511	2.86E-09
CGB7	1.254129	0.2484	0.592491	4.56E-07
CGN	-1.05064	2.053843	0.991499	5.53E-12
CGNL1	-2.19893	0.577653	0.125812	2.89E-16
CH25H	-1.51599	6.667321	2.331274	5.42E-13
CHAD	-1.08674	1.107897	0.521624	5.88E-09
CHADL	-1.00904	0.301341	0.149729	8.22E-12
CHDH	-1.51038	0.435093	0.152725	2.98E-08
CHEK1	1.542132	0.188655	0.549411	1.23E-16
CHI3L1	1.811713	1.352595	4.748407	1.99E-06
CHIT1	2.157545	0.053824	0.240139	0.000114
CHL1	-1.23597	0.529822	0.22494	4.63E-09
CHML	1.19519	3.858797	8.835679	8.90E-12
CHPT1	-1.53453	1.281622	0.442405	7.88E-13
CHRD1	-2.43426	0.267944	0.049575	1.53E-14
CHRM1	-3.01891	0.567573	0.070023	1.08E-07
CHRNA5	1.805361	0.056276	0.196694	9.68E-13
CHST11	1.03191	0.076302	0.156017	1.79E-07
CHST2	1.976371	3.287805	12.93758	2.65E-11
CHST4	-2.25122	0.210678	0.044252	6.71E-12
CHST6	-2.05662	1.273322	0.306079	1.23E-06
CHST9	-2.94652	0.206833	0.02683	1.67E-13
CHTF18	1.126624	0.964557	2.106084	2.60E-14
CIB2	1.137168	0.073547	0.161766	4.05E-07
CIBAR2	-3.462	0.624053	0.056631	2.78E-06
CILP	-1.82125	0.68869	0.194883	2.10E-11

CILP2	2.098334	0.084124	0.36023	3.10E-06
CIP2A	1.668056	0.265051	0.842296	3.03E-16
CKAP2	1.238608	1.507351	3.556906	2.34E-13
CKAP2L	1.724897	0.348702	1.152659	2.15E-13
CKM	-1.18384	3.008128	1.324112	0.031725
CKS1B	1.529007	2.948255	8.508286	1.02E-15
CKS2	1.887893	1.189058	4.400638	1.53E-13
CLCA4	-3.59963	17.33221	1.429738	2.76E-11
CLCN2	1.013945	0.336123	0.678775	6.07E-10
CLDN1	1.433322	9.017961	24.35462	2.35E-06
CLDN23	-1.50493	4.206831	1.482268	4.35E-12
CLDN3	-2.05459	11.83869	2.849772	1.71E-08
CLDN7	-1.23919	30.40166	12.8785	1.13E-11
CLEC10A	-1.02061	1.399782	0.689963	2.79E-08
CLEC11A	1.222247	1.101901	2.570843	9.98E-08
CLEC12A	1.077654	0.091181	0.192446	1.24E-07
CLEC12A-AS1	1.438264	1.786163	4.840406	8.78E-14
CLEC3B	-2.55247	2.359197	0.402156	1.40E-15
CLEC5A	1.756422	0.15843	0.535271	6.58E-15
CLEC7A	1.648516	0.838786	2.629687	4.08E-10
CLIC3	-1.56842	14.63771	4.935498	0.010765
CLIC6	-1.49204	0.622467	0.221293	3.74E-08
CLMN	-1.05759	0.525119	0.252286	2.79E-08
CLSPN	1.876798	0.16514	0.606491	4.02E-16
CLU	-1.97767	31.41476	7.976187	1.60E-13
CMA1	-1.72978	0.551736	0.166347	8.64E-11
CMYA5	-1.14228	0.843476	0.382131	3.29E-07
CNGA4	-3.71935	0.288821	0.021928	1.22E-08
CNPY3-GNMT	-1.52764	0.911256	0.316064	2.58E-07
CNR1	-1.02389	0.347753	0.171021	7.53E-08
CNTN1	1.419856	0.062521	0.16728	0.000313
COA6	1.11523	0.84256	1.825233	1.82E-10
COBL	-1.6728	0.155413	0.048744	3.57E-13
COL10A1	2.01384	0.291788	1.178402	1.00E-11
COL11A1	5.191209	0.011457	0.418576	1.24E-13
COL12A1	2.218113	1.384964	6.444023	2.89E-16
COL16A1	1.431361	0.946609	2.553015	2.04E-06
COL17A1	2.062132	3.883725	16.21855	1.54E-06
COL1A1	3.089267	21.37209	181.89	2.55E-13
COL1A2	1.99723	14.73842	58.84059	2.23E-08
COL27A1	1.980476	0.211009	0.832689	1.67E-13
COL28A1	-2.41449	0.425138	0.079744	2.46E-11
COL3A1	2.065256	19.40635	81.21716	1.64E-09
COL4A1	2.142471	0.827085	3.651724	2.08E-16

COL4A2	1.898264	0.599513	2.234771	1.07E-15
COL4A5	1.16828	0.248972	0.559548	8.53E-08
COL4A6	2.054388	0.042263	0.175545	3.90E-11
COL5A1	2.235925	0.524126	2.468972	1.38E-09
COL5A2	2.43732	0.653129	3.537575	4.03E-14
COL5A3	1.571356	0.439012	1.304674	6.63E-08
COL6A1	1.318929	8.35385	20.84125	0.000164
COL6A3	1.901284	3.289419	12.28748	6.64E-11
COL7A1	1.843473	4.932268	17.70057	6.29E-15
COL8A1	2.461719	0.089988	0.495721	1.12E-15
COLGALT1	1.101784	1.764084	3.786075	8.03E-17
CORO6	1.153341	0.545985	1.214426	1.85E-07
COX6A2	-1.31376	4.914967	1.977146	0.014653
COX6B2	1.01423	0.492191	0.99414	0.00494
COX7A1	-1.21882	7.610439	3.269714	2.38E-12
CP	-1.04359	2.1014	1.019426	9.74E-09
CPA4	1.683242	0.276042	0.886507	0.00018
CPEB3	-1.02231	0.145873	0.071817	1.54E-15
CPNE7	1.702857	0.09692	0.315517	1.38E-06
CPT1C	1.098771	0.113197	0.242436	2.48E-06
CPXM1	1.902653	0.640076	2.393244	1.26E-10
CR2	-1.87837	0.319713	0.086959	0.000166
CRACDL	-1.79869	0.278308	0.079996	9.41E-15
CRACR2A	-1.54729	0.334563	0.114471	8.20E-07
CRACR2B	-2.23655	6.684013	1.418305	2.28E-12
CREB3L1	-1.34729	0.958659	0.376781	9.21E-07
CRIP1	-1.01033	35.97503	17.85923	3.62E-08
CRISP2	-3.44001	0.336378	0.030994	6.23E-15
CRISP3	-3.0954	22.36605	2.616866	2.28E-14
CRNN	-3.9853	244.5778	15.44264	0.000687
CROCC2	-4.28153	0.199942	0.010281	5.49E-09
CSAG1	4.204048	0.024963	0.460093	3.25E-06
CSE1L	1.045417	1.605482	3.313655	3.69E-14
CSF2	4.363994	0.047416	0.976378	9.28E-12
CSPG4	1.74765	0.626102	2.102521	1.68E-06
CST1	3.700307	0.525899	6.836058	3.34E-09
CST4	-2.33647	2.062496	0.408362	0.000305
CST5	-4.92991	0.334279	0.010966	1.58E-05
CT70	1.703944	0.071016	0.231364	9.56E-06
CTHRC1	2.604934	0.638674	3.885458	1.23E-16
CTSG	-1.52971	1.797085	0.622413	1.82E-09
CTSV	2.374953	1.630925	8.45992	6.14E-13
CTTNBP2	-1.33646	0.164559	0.065164	3.42E-13
CX3CR1	-1.08744	0.260943	0.122799	1.20E-09

CXCL10	1.219801	9.348201	21.77332	7.20E-09
CXCL12	-2.03925	1.026337	0.249699	7.52E-15
CXCL14	1.785638	17.0603	58.81895	2.81E-05
CXCL17	-2.30834	8.889667	1.794763	1.41E-13
CXCL3	1.157569	1.261113	2.813305	0.000659
CXCL5	3.923005	0.670374	10.16856	5.53E-12
CXCL6	1.031954	1.841343	3.765163	2.03E-05
CXCL8	2.268161	16.55676	79.75537	3.08E-08
CXCR2	-1.10612	1.816854	0.844003	0.001165
CXXC4	-1.333	0.263448	0.104573	1.28E-07
CYBRD1	-1.10563	5.943945	2.762156	9.00E-10
CYP1B1	-1.0435	6.213971	3.014708	3.39E-07
CYP21A2	-2.67343	0.482028	0.07556	2.71E-14
CYP24A1	1.752338	0.812462	2.737218	0.007475
CYP26B1	1.551164	0.39476	1.156859	1.23E-08
CYP27B1	1.90988	0.262425	0.986135	4.80E-14
CYP27C1	2.181516	0.074758	0.339124	3.60E-07
CYP2C18	-1.10342	0.789698	0.367534	2.04E-06
CYP2E1	-1.48552	0.4324	0.154419	7.30E-07
CYP2F1	-3.66051	0.86225	0.068188	7.19E-15
CYP2J2	-1.56047	0.36029	0.122153	9.17E-14
CYP2S1	1.005993	3.051077	6.127555	0.01652
CYP3A5	-1.57224	1.794929	0.603609	6.75E-12
CYP4A11	-2.58906	0.320173	0.053211	1.85E-15
CYP4B1	-2.99513	2.818037	0.353447	1.21E-17
CYP4F12	-1.72158	0.602465	0.182677	3.28E-13
CYP4F35P	-4.06903	2.672997	0.159257	1.53E-14
CYP4V2	-1.02976	0.998006	0.488816	3.38E-14
CYP4X1	-1.67138	0.820478	0.257592	8.68E-10
CYSLTR1	-1.23118	0.157353	0.067028	1.52E-12
CYSLTR2	1.047613	0.505586	1.045101	0.002874
CYSRT1	-1.98502	35.50345	8.968512	0.005117
CYTL1	-1.52695	0.866236	0.300593	5.33E-05
DAGLA	-1.35885	0.186942	0.072887	9.84E-15
DBF4	1.188368	0.407802	0.92936	1.52E-12
DCBLD1	1.250909	0.191884	0.456666	2.66E-13
DCBLD2	1.013306	0.38673	0.780626	1.36E-07
DCUN1D5	1.21508	0.526316	1.221861	8.60E-15
DDI1	-1.09395	0.209375	0.098087	3.18E-08
DDIAS	1.393499	0.130039	0.341631	5.75E-12
DDN	1.507928	0.158147	0.449772	1.20E-07
DDX58	1.05134	0.794058	1.645648	7.77E-08
DDX60	1.1324	0.829118	1.817618	5.64E-06
DEFB4B	4.324767	0.393658	7.888673	1.31E-06

DEGS2	-1.42522	0.706518	0.263081	3.42E-12
DEPDC1	1.910663	0.405191	1.523445	9.00E-15
DHRS2	3.585473	0.021648	0.259874	7.56E-13
DHRS3	-1.04678	1.705674	0.825625	5.20E-13
DHRS9	-1.53579	1.692594	0.583759	1.70E-09
DIO3OS	-1.15874	0.502078	0.224882	4.30E-07
DKK1	2.049919	1.316451	5.451194	0.001054
DLEC1	-1.28787	0.383541	0.157082	5.31E-09
DLGAP5	1.605873	0.277788	0.845531	8.06E-14
DLX1	3.545909	0.091777	1.071907	3.82E-15
DLX2	4.044161	0.070112	1.156667	8.99E-17
DLX3	2.017678	0.429475	1.739081	1.69E-10
DLX4	1.998562	0.124549	0.497698	1.00E-09
DLX5	2.441412	0.513663	2.79008	4.40E-13
DLX6	2.985871	0.12224	0.96839	1.89E-10
DMBT1	-2.81836	18.3408	2.6002	6.23E-08
DMKN	1.343098	5.100785	12.94046	0.000184
DMP1	3.353175	0.062957	0.643354	3.13E-15
DMRTA1	-1.18596	1.442499	0.634025	5.49E-09
DMRTA2	1.618961	0.205273	0.630503	0.047937
DNA2	1.37867	0.159287	0.414193	1.34E-14
DNAAF1	-3.62913	0.661329	0.053449	1.23E-06
DNAAF8	-1.66564	0.24192	0.076254	3.01E-07
DNAH1	-1.29319	0.785661	0.320588	4.02E-12
DNAH10	-3.223	0.232199	0.024868	4.80E-06
DNAH12	-4.06009	0.250475	0.015016	7.97E-09
DNAH17	2.649864	0.062785	0.394042	1.82E-13
DNAH2	-2.07435	0.259844	0.061698	0.023747
DNAH3	-2.59957	0.241794	0.039893	0.000861
DNAH5	-2.83911	0.302659	0.042296	0.000546
DNAI1	-4.11632	0.244621	0.014105	2.90E-07
DNAI2	-3.51078	0.196235	0.017216	2.81E-05
DNAI4	-2.1986	0.182175	0.039686	2.89E-08
DNALI1	-2.06229	1.847262	0.4423	1.08E-08
DNMT3B	1.73895	0.094481	0.31537	7.71E-16
DPF1	2.23042	0.044053	0.206728	2.12E-15
DPT	-1.65545	1.07184	0.340243	5.42E-13
DRAP1	1.012171	12.34853	24.90629	2.27E-10
DRC1	-3.68017	0.249006	0.019425	2.24E-05
DRC3	-1.97595	0.38855	0.09877	1.45E-08
DRD1	-1.74537	0.234686	0.069997	6.67E-12
DSC1	4.339984	0.136548	2.765363	5.60E-11
DSC3	1.206211	8.400915	19.38351	4.70E-07
DSCC1	1.522672	0.196164	0.563625	1.47E-13

DSG1	2.873434	1.801303	13.20008	8.19E-06
DSG2	1.548313	2.008882	5.875479	5.45E-07
DSPP	3.253102	0.099749	0.951016	1.25E-14
DTHD1	-2.14821	0.427997	0.096553	2.29E-07
DTL	1.832197	0.134113	0.47755	1.47E-15
DTX1	-1.16818	0.196352	0.087373	2.46E-11
DUSP26	-1.14743	0.165783	0.074839	1.79E-07
DUSP5	-1.44284	8.734505	3.212932	4.19E-06
DUSP9	3.082948	0.05538	0.469261	1.60E-14
DUXAP10	2.668129	0.035644	0.226555	1.40E-15
DUXAP8	3.064595	0.036638	0.306528	9.28E-16
DUXAP9	2.94937	0.08019	0.619398	1.12E-15
DYNAP	-2.19193	0.440407	0.096387	8.49E-08
DYNLRB2	-3.04647	0.291033	0.035226	5.46E-08
DYNLT4	-1.125	4.187773	1.920096	1.99E-06
E2F1	1.701004	0.401767	1.306255	2.76E-16
E2F7	1.635298	0.203757	0.632973	1.83E-14
ECE2	1.603725	0.066279	0.201439	1.02E-15
ECEL1	2.499326	0.04456	0.251952	0.000127
ECHDC2	-1.06866	1.498572	0.714462	1.85E-15
ECM1	-1.66757	76.05532	23.94094	0.039127
ECRG4	-2.55593	0.413882	0.070383	4.50E-12
ECT2	1.850611	0.525426	1.894963	1.61E-15
EDN3	-3.97646	0.273673	0.017386	2.30E-15
EFCAB1	-1.81508	0.568932	0.161684	0.035507
EFCAB12	-3.05682	0.193899	0.023301	1.49E-07
EFNB1	1.359353	2.901456	7.44427	2.02E-12
EGF	-1.33941	0.154339	0.060992	0.000397
EGFL6	1.251831	0.097804	0.232914	8.52E-09
EGR4	1.720905	0.051852	0.170926	7.85E-05
EHD3	-1.19286	1.627039	0.711725	0.00015
EHF	-1.441	19.18691	7.066756	8.41E-14
EIF4EBP3	-1.01215	1.325101	0.656993	2.55E-11
EIF5A2	1.501034	0.333456	0.943832	1.29E-13
ELAPOR1	-2.327	2.225383	0.443515	3.39E-07
ELF3	-1.2788	26.35956	10.86375	1.40E-12
ELF5	-1.4722	0.752173	0.271107	5.08E-05
EMCN	-1.7127	0.176099	0.053726	3.54E-14
EME1	1.412972	0.334702	0.891263	4.80E-15
EMP1	-2.3027	90.6715	18.37758	0.000607
EN1	3.35315	0.094033	0.960905	1.13E-13
EN2	3.129054	0.026953	0.2358	1.69E-09
ENAH	1.424165	0.601585	1.614409	9.73E-17
ENDOU	-1.44378	1.88869	0.69429	0.018679

ENHO	-1.25188	0.268829	0.112882	2.51E-06
ENKUR	-2.13984	0.273892	0.062148	0.04606
ENO2	1.254394	1.125663	2.685459	8.68E-10
ENPP4	-1.58987	1.804944	0.599605	3.88E-13
ENPP5	-1.2104	0.759156	0.328068	5.13E-09
ENTPD8	-1.81001	0.52297	0.149146	1.27E-11
EPB41L4A	-1.18244	0.154552	0.068096	1.42E-16
EPHX2	-1.10105	0.484656	0.225936	3.15E-13
EPIST	-1.74141	6.46363	1.933123	0.000116
EPPIN	-4.25954	0.204089	0.010655	5.17E-07
EPS8L1	-1.64642	9.494118	3.032715	1.64E-07
EPS8L2	-1.13597	5.200221	2.366246	2.36E-07
EPSTI1	1.073617	0.27279	0.574142	1.68E-06
ERCC6L	1.2098	0.184594	0.426975	4.91E-12
ERFE	1.612532	0.078017	0.238566	4.02E-12
ERICH2	-1.62271	0.169312	0.05498	2.22E-07
ERICH3	-4.1423	0.370098	0.020958	1.07E-09
ERN2	-2.82856	1.429925	0.201295	2.55E-11
ERVMER34-1	2.156576	0.300739	1.340861	9.29E-13
ERVV-1	2.722393	0.030842	0.203544	0.001455
ERVV-2	6.292909	0.003376	0.264671	5.26E-05
ESCO2	1.489429	0.158	0.443628	2.11E-12
ESYT3	1.304569	0.093729	0.231521	7.37E-06
EVPL	-1.17994	20.87539	9.213736	0.009443
EXO1	2.067889	0.126958	0.532302	9.72E-16
EXT1	1.158023	0.188855	0.421432	1.04E-13
EYA2	-1.19897	0.156601	0.068213	1.32E-11
F13A1	-1.06846	0.859065	0.409626	2.35E-06
F5	-1.98865	1.227472	0.309291	5.29E-07
FABP5	1.111269	93.22181	201.3923	0.006523
FADD	1.07165	2.125272	4.466975	3.50E-08
FADS1	1.688675	0.505728	1.630269	1.23E-16
FADS2	1.360202	0.193183	0.495941	2.33E-09
FALEC	-2.03272	1.034622	0.252855	3.10E-06
FAM107A	-2.87272	0.804968	0.109901	4.41E-16
FAM107B	-1.30681	0.53268	0.215316	1.00E-11
FAM110D	-1.30003	0.717596	0.291429	5.49E-11
FAM111B	1.415953	0.570531	1.522383	1.67E-11
FAM149A	-1.68713	0.174988	0.054341	2.72E-14
FAM166B	-2.7833	2.562036	0.372159	5.65E-10
FAM177B	-2.17612	0.32646	0.072236	1.10E-12
FAM180B	-1.76482	0.189844	0.055864	2.00E-12
FAM183A	-1.34812	0.544016	0.213691	0.01112
FAM216B	-3.68293	2.622896	0.204224	8.39E-05

FAM221A	-1.37578	0.463198	0.17849	8.86E-16
FAM229B	-1.26534	0.596112	0.247983	1.03E-07
FAM3B	-2.35888	0.859826	0.167617	2.29E-16
FAM3D	-2.91268	5.751527	0.763797	1.80E-16
FAM71A	-1.72302	0.4592	0.139098	6.31E-07
FAM71C	-2.57031	0.281232	0.04735	1.03E-13
FAM71E2	2.302588	0.059336	0.29273	0.01481
FAM72A	1.0065	0.130452	0.262081	1.69E-10
FAM72B	1.411839	0.072927	0.194041	3.90E-11
FAM72D	1.360901	0.071599	0.183898	1.70E-09
FAM83B	1.294401	0.665437	1.632152	8.09E-10
FAM83E	-1.32939	1.516383	0.603423	1.69E-10
FAM89A	2.000558	0.202489	0.810267	6.29E-15
FAM95B1	-1.92025	1.380154	0.364648	9.28E-16
FANCA	1.233032	0.155211	0.364839	2.49E-14
FANCB	1.582534	0.124723	0.37354	2.00E-14
FANCE	1.096014	0.528494	1.129727	1.21E-10
FANCI	1.563557	0.388449	1.148186	1.94E-15
FAP	2.000658	0.126778	0.507342	2.27E-10
FAT1	1.13566	2.186459	4.804065	9.42E-09
FAXDC2	-1.38181	0.850135	0.326229	3.34E-15
FBLIM1	1.253247	0.931362	2.220155	4.12E-08
FBLN5	-1.04446	0.469208	0.227485	1.58E-09
FBN2	3.530969	0.020418	0.236017	9.73E-17
FBXO45	1.3968	1.056873	2.782925	2.79E-15
FBXO5	1.172324	0.59736	1.346297	2.66E-15
FCER1A	-1.71836	0.429643	0.130566	7.72E-11
FCER1G	1.052034	1.89357	3.926225	9.11E-06
FCGR2A	1.3	2.385241	5.873154	1.55E-08
FCGR3A	1.584118	0.216547	0.649262	1.83E-08
FCMR	-1.14163	0.821911	0.37253	0.001054
FCRL1	-1.88892	0.304994	0.082351	0.002718
FCRL2	-1.50896	0.235457	0.082731	0.003037
FCRLA	-1.19119	0.64482	0.282394	0.007165
FDCSP	-1.74548	10.82014	3.226947	7.18E-06
FEN1	1.38391	2.780455	7.256281	1.98E-16
FERMT1	1.74335	0.838274	2.80664	1.04E-13
FEZF1	2.970127	0.028493	0.22327	3.21E-10
FEZF1-AS1	3.151709	0.060984	0.541969	2.46E-10
FFAR2	1.236062	0.510022	1.201381	9.89E-05
FGD6	1.468524	0.325309	0.900256	1.12E-15
FGF11	1.088437	1.124298	2.390746	1.30E-06
FGF19	4.274009	0.082667	1.59932	0.003112
FGF7	-1.34225	0.555049	0.218915	3.52E-09

FGFR4	1.48423	0.088085	0.246435	5.88E-09
FHL1	-1.43059	1.39904	0.519014	3.29E-09
FIBCD1	3.968276	0.017091	0.267506	2.62E-06
FJX1	1.684139	1.513372	4.863198	3.86E-14
FKBP10	1.429075	2.07897	5.598125	7.07E-08
FMO2	-2.55535	4.712938	0.801777	3.90E-17
FMO5	-1.95235	0.633169	0.163608	2.96E-09
FN1	2.471621	5.548597	30.77621	1.71E-08
FNDC1	2.888899	0.075415	0.558599	1.34E-12
FOLR1	-2.67398	5.381147	0.843193	3.05E-10
FOLR3	2.632086	0.052008	0.322409	2.44E-08
FOS	-1.23412	167.6336	71.26134	7.57E-06
FOSB	-1.24279	43.80784	18.51115	0.0003
FOXA1	-1.48456	5.46604	1.95333	1.32E-11
FOXC1	-1.17728	17.59566	7.780502	1.46E-10
FOXD3-AS1	1.581919	0.061141	0.183036	0.00054
FOXI1	-2.55088	0.664439	0.113387	3.50E-10
FOXJ1	-3.17657	4.990666	0.55197	4.96E-05
FOXL1	1.332566	0.463721	1.167882	0.000993
FOXL2	1.825973	0.208122	0.737887	9.70E-06
FOXL2NB	1.677771	0.069316	0.221764	0.006668
FOXM1	1.714454	0.990809	3.251561	3.49E-16
FOXP3	1.360528	0.247471	0.635454	4.89E-10
FOXRED2	1.065965	0.734042	1.536768	3.86E-12
FPR2	1.60318	0.120652	0.366555	1.40E-06
FPR3	1.235889	0.444081	1.045928	1.20E-07
FRZB	-2.45607	1.629313	0.29693	5.26E-10
FSCN1	1.953456	4.513983	17.48271	4.21E-14
FST	2.298493	2.18409	10.74449	2.25E-13
FSTL3	1.198901	1.547125	3.551653	1.74E-05
FUT2	-1.2003	7.37959	3.211489	9.57E-14
FUT3	-1.92861	8.225306	2.160643	5.46E-14
FUT6	-2.61916	4.820545	0.784605	8.43E-17
FXYD1	-1.77621	1.535448	0.448273	1.91E-14
FZD4	-1.05936	4.232317	2.030851	1.00E-09
FZD6	1.195529	2.08481	4.774815	5.71E-14
G0S2	1.034926	11.19561	22.93989	0.001237
GABRP	-3.1283	3.561426	0.407297	2.29E-16
GAL	2.532736	0.08023	0.464264	1.83E-07
GALNT12	-1.67448	0.777108	0.243452	1.42E-16
GAPT	-1.0218	0.885583	0.436151	1.25E-05
GAREM2	1.006263	0.231163	0.464338	3.61E-05
GAS7	-1.12417	0.25951	0.119054	3.47E-11
GAST	4.706126	0.024037	0.627422	1.14E-13

GATM	-1.25012	0.984611	0.413943	8.81E-09
GBP1	1.141818	6.469054	14.27454	5.49E-09
GBP5	1.382925	2.917204	7.607968	9.08E-08
GBP6	-1.79462	20.37821	5.873947	0.011672
GBX2	3.336077	0.032096	0.324119	3.09E-10
GCHFR	-1.18297	3.393405	1.494604	4.05E-13
GCNT3	-2.1799	5.453877	1.203625	1.19E-13
GDA	1.289038	0.083921	0.205074	0.01112
GDF7	-1.12594	0.447211	0.204913	6.64E-11
GDPD2	2.02819	0.143428	0.585033	1.32E-07
GDPD3	-1.65361	2.199544	0.699114	2.55E-06
GFRA1	-2.35328	0.180063	0.035238	7.03E-16
GGH	1.252519	0.63894	1.52232	2.15E-13
GGT6	-1.28074	12.36283	5.088338	5.65E-10
GIMAP1	-1.06782	1.670213	0.796757	7.72E-11
GIMAP7	-1.03905	2.739271	1.333062	3.28E-10
GINS1	1.727671	0.194181	0.643114	1.40E-15
GINS2	1.524203	0.341743	0.982947	1.47E-14
GINS3	1.078173	0.490832	1.036322	7.02E-12
GINS4	1.528787	0.302363	0.872449	5.02E-15
GJA1	2.534915	5.725494	33.18169	1.68E-14
GJA3	2.038818	0.051844	0.213031	8.27E-08
GJB1	-2.8021	0.411705	0.05903	3.05E-12
GJB6	1.268259	7.657535	18.44477	0.000188
GJC1	1.628157	0.21924	0.677711	9.29E-13
GJC3	-2.34306	0.295459	0.058233	1.38E-09
GLYATL2	-1.21219	0.421679	0.182002	1.54E-06
GMNN	1.234223	0.807672	1.900085	2.34E-13
GMPR	-1.16126	0.148708	0.066491	1.21E-05
GNE	-1.32244	1.558762	0.623286	3.24E-14
GNG8	1.814139	0.074614	0.26238	6.50E-06
GNLY	1.400184	0.791716	2.089618	6.78E-05
GOLGA7B	1.969343	0.193595	0.758098	9.21E-07
GP2	-2.37058	12.04047	2.328246	1.37E-09
GPC2	1.338059	0.114685	0.289937	8.52E-09
GPD1	-2.79062	2.04899	0.296128	1.74E-13
GPD1L	-1.75284	1.043479	0.309618	1.29E-18
GPNMB	2.009793	6.387318	25.72329	9.29E-13
GPR12	-2.54178	0.186023	0.031946	3.24E-11
GPR153	1.074741	1.213514	2.556077	1.20E-07
GPR161	1.416694	0.110414	0.294776	8.78E-14
GPR17	-1.18589	0.651277	0.28627	4.08E-10
GPR176	1.801414	0.056039	0.19533	3.69E-14
GPR25	-1.11563	0.706658	0.326115	0.000286

GPR50	3.791335	0.048168	0.6669	2.62E-06
GPR84	1.146401	0.347321	0.768832	1.01E-08
GPRC5C	-1.1008	0.799252	0.372658	1.20E-07
GPRIN1	2.657818	0.124458	0.785426	9.96E-18
GPT	-1.14593	2.437923	1.101694	1.86E-12
GPT2	-1.12655	1.770377	0.810849	1.73E-11
GPX3	-1.08571	12.41304	5.848541	1.54E-06
GRAMD2B	-1.19781	0.403575	0.175933	9.29E-13
GRASLND	2.007495	0.08715	0.350416	1.35E-10
GREM1	1.193331	2.016232	4.610722	4.99E-08
GREM1-AS1	1.671143	0.592974	1.888425	6.42E-08
GRIN2D	2.581455	0.044823	0.268285	8.07E-16
GRIN3B	-1.24926	0.515937	0.217036	7.97E-07
GSDMA	2.924045	0.121351	0.921017	3.86E-08
GSDME	1.673028	0.111677	0.356118	7.90E-12
GSN	-1.01331	5.197233	2.574746	2.28E-12
GSTA2	-4.88493	0.50184	0.016985	6.83E-08
GSTM5	-2.08454	0.611739	0.144231	6.67E-13
GSTO1	1.081248	2.012596	4.258381	5.45E-10
GTSE1	1.685155	0.173718	0.558635	2.55E-15
GTSF1	2.836331	0.034959	0.249676	0.00205
GTSFIL	1.096169	0.094726	0.202512	0.000187
H1-1	1.298727	10.40057	25.58663	0.0241
H1-2	1.002652	211.2338	423.245	1.35E-10
H1-3	1.049279	57.7295	119.4709	2.38E-08
H1-5	1.109426	121.4814	262.1081	8.41E-06
H1-6	1.987337	0.185927	0.737207	3.86E-09
H2AC11	1.360165	17.87246	45.88118	3.28E-10
H2AC13	1.445166	56.28582	153.263	2.54E-10
H2AC21	1.192307	36.79837	84.09085	2.30E-08
H2AC7	1.325211	13.89247	34.81031	4.25E-08
H2AW	1.17287	10.28964	23.199	2.29E-06
H2AZ1	1.039915	27.69106	56.93577	3.10E-11
H2BC11	1.384462	3.121391	8.149158	1.48E-09
H2BC12	1.087065	7.619883	16.18778	8.52E-09
H2BC13	1.526681	29.17163	84.04993	8.33E-11
H2BC15	1.081901	1.145019	2.423802	1.13E-11
H2BC18	1.171622	2.019677	4.549623	1.60E-08
H2BC5	1.109686	3.836417	8.278937	3.77E-09
H2BU1	1.191759	12.4988	28.55115	2.48E-06
H3C12	1.338938	32.86253	83.13073	1.65E-05
H3C13	1.230327	23.32562	54.72661	1.04E-05
H3C4	1.094713	19.97757	42.66621	1.77E-08
H4C11	1.334506	90.7072	228.7537	3.94E-10

HAGLR	1.292692	0.083492	0.204544	0.006303
HAND2	-1.59713	0.59137	0.195467	1.35E-07
HAP1	2.976367	0.101643	0.79993	2.77E-13
HAS2	1.269807	0.255414	0.615879	0.003329
HAS3	1.49642	4.647646	13.11295	4.43E-07
HASPIN	1.190422	1.320481	3.013595	1.72E-12
HAUS8	1.028677	0.163524	0.333614	1.02E-15
HBA1	-2.16367	19.40865	4.331775	3.90E-09
HBA2	-3.34352	60.41536	5.951794	5.68E-09
HBB	-2.26961	44.14902	9.155889	2.71E-08
HCG14	-1.13397	0.453005	0.206416	1.01E-05
HCG22	-3.31043	1.517016	0.152916	6.86E-05
HELLS	1.098989	0.565668	1.211688	8.22E-12
HEPHL1	3.016255	0.237576	1.922142	7.07E-08
HERC5	1.112218	0.325486	0.703629	1.83E-05
HES2	1.11868	1.536715	3.33695	3.35E-05
HES5	1.330126	0.556455	1.399064	0.013266
HID1	-1.59465	1.996674	0.661104	2.86E-09
HIF1A	1.357128	3.70122	9.48159	2.22E-15
HIF1A-AS3	1.110211	0.116904	0.252368	6.29E-10
HJURP	1.655755	0.425619	1.341076	1.75E-14
HJV	-1.32035	0.208972	0.08368	4.76E-06
HK2	1.068313	1.467955	3.078272	9.68E-13
HLF	-1.61657	0.652559	0.212805	4.19E-15
HMGA2	2.964043	0.049815	0.388712	8.55E-13
HMGA2-AS1	2.429003	0.122522	0.659805	5.11E-12
HMGB3	1.286009	3.647911	8.895524	1.51E-10
HMGCS2	-2.67172	0.373879	0.058677	4.24E-12
HMMR	1.510382	0.233743	0.665901	2.55E-13
HOATZ	-3.31132	0.365729	0.036843	1.49E-05
HOMER3	1.658948	0.94596	2.98721	2.29E-17
HOPX	-1.28478	5.180143	2.126103	0.04924
HOXA10	2.08607	0.202095	0.858076	6.50E-14
HOXA11	2.806407	0.036824	0.257602	3.36E-10
HOXA11-AS	3.118497	0.024994	0.217069	1.74E-10
HOXA13	2.87436	0.048021	0.352131	3.49E-09
HOXA3	-1.03859	0.412947	0.201025	1.04E-11
HOXA7	1.228623	0.88959	2.084695	4.99E-08
HOXA9	1.747394	0.686717	2.305665	1.53E-05
HOXB1	-1.46476	0.303199	0.109848	3.09E-07
HOXB13	3.136069	0.02045	0.179784	1.75E-05
HOXB6	1.358748	0.124649	0.319678	4.99E-08
HOXB7	2.60405	0.321966	1.957524	9.27E-17
HOXB9	3.696429	0.031503	0.408404	2.00E-09

HOXB-AS4	3.045389	0.02326	0.192026	8.43E-08
HOXC10	3.860928	0.053362	0.775336	3.01E-12
HOXC11	3.792238	0.040378	0.559402	2.45E-14
HOXC13	4.06316	0.031983	0.534636	3.57E-17
HOXC13-AS	4.305119	0.018343	0.362609	1.03E-16
HOXC8	3.72693	0.058951	0.78057	2.19E-16
HOXC9	3.495759	0.031571	0.356134	1.28E-15
HOXC-AS2	3.677966	0.070367	0.900635	9.09E-17
HOXD1	1.220988	0.1757	0.409568	5.59E-05
HOXD10	3.270114	0.477125	4.602929	8.23E-15
HOXD11	3.900906	0.310306	4.635325	3.34E-14
HOXD13	4.026929	0.081603	1.330252	1.08E-12
HOXD9	1.438728	0.965351	2.616892	3.90E-11
HP	-1.78088	1.888841	0.549664	5.20E-06
HPGD	-2.44858	2.838304	0.51995	3.07E-09
HPRT1	1.292577	0.319656	0.783045	2.02E-12
HRCT1	-1.36663	1.176347	0.456184	2.43E-10
HROB	1.525415	0.137499	0.395817	5.71E-14
HS3ST1	-1.27299	0.837497	0.346558	2.80E-12
HSD17B13	-2.51959	0.356469	0.062165	3.80E-08
HSPA2	1.089019	2.559387	5.444566	0.005299
HSPA6	1.874862	3.30661	12.12754	2.36E-05
HSPB3	2.07116	0.678269	2.850254	3.64E-08
HSPB6	-1.98391	5.06953	1.281595	9.57E-14
HSPB8	-1.25192	2.795363	1.173746	7.26E-10
HSPD1	1.028009	5.993851	12.22271	4.54E-11
HSPE1	1.005704	11.13488	22.35797	1.08E-08
HSPH1	1.061848	4.919764	10.27052	1.36E-07
HTRA3	1.359944	0.226153	0.580478	2.58E-07
HYDIN	-2.36076	0.177896	0.034634	1.09E-05
ICA1	-1.38949	0.162507	0.062029	7.39E-14
ID4	-1.40919	12.267	4.618795	3.42E-13
IFI27	2.097776	6.535845	27.97662	7.80E-10
IFI30	1.213271	8.007698	18.56687	6.51E-09
IFI44	1.095271	3.811175	8.142697	7.63E-05
IFI6	1.900526	9.146083	34.14684	7.29E-08
IFIT1	1.644765	2.662892	8.32678	1.61E-05
IFIT2	1.275526	3.609674	8.738554	0.000201
IFIT3	1.460838	2.868433	7.895882	1.38E-06
IGF2BP1	3.995795	0.026889	0.428964	3.27E-10
IGF2BP2	1.787474	0.181575	0.626816	3.94E-10
IGF2BP2-AS1	1.675481	0.280003	0.894403	2.86E-09
IGF2BP3	1.896474	0.081704	0.304185	1.25E-05
IGFBP2	1.225551	2.091913	4.891827	0.010251

IGFBP3	1.887524	8.958069	33.14481	1.82E-09
IGFBP5	-1.10591	33.28779	15.46584	5.68E-09
IGFL2	3.864558	0.018446	0.268692	1.42E-11
IGFL2-AS1	2.555472	0.135088	0.79413	5.78E-07
IGFL3	3.345735	0.018604	0.189138	4.08E-05
IGFN1	2.116432	0.045316	0.196501	3.76E-06
IGSF10	-1.97504	1.503595	0.382459	4.59E-14
IGSF3	1.129456	0.792267	1.73329	3.47E-11
IGSF9	1.23256	0.991057	2.32882	9.48E-07
IKBIP	1.00157	0.392019	0.784891	5.93E-11
IKZF2	-1.3914	1.283991	0.489449	2.28E-12
IL11	3.590432	0.063616	0.766291	1.35E-18
IL12A	-1.68369	0.370756	0.115411	6.03E-08
IL12RB2	1.857889	0.060248	0.218384	2.75E-07
IL17REL	-1.47885	0.213106	0.076457	3.86E-06
IL1A	1.756655	0.535315	1.808903	2.85E-06
IL1B	1.997231	2.315752	9.245246	1.23E-06
IL1F10	2.973732	0.038047	0.298881	1.42E-07
IL1RAP	1.153172	0.333038	0.740685	5.13E-09
IL20	2.203108	0.090721	0.417744	3.74E-05
IL24	1.577302	0.612198	1.826869	0.000206
IL33	-1.41546	1.102592	0.41335	1.01E-12
IL36G	3.048848	0.492739	4.077666	4.72E-10
IL36RN	2.469824	2.195972	12.16516	1.40E-07
IL4I1	1.054905	0.091754	0.190627	1.27E-08
INHBA	3.487228	0.808639	9.068068	2.44E-13
INHBE	1.674363	0.065781	0.209957	5.07E-10
INMT	-1.45912	3.687135	1.341068	1.82E-13
INSL3	-1.14605	0.191952	0.086735	1.89E-09
IQCD	-1.94509	0.241668	0.062761	3.66E-15
IQCN	-1.19614	0.637832	0.278376	3.22E-11
IQGAP3	1.59954	0.295524	0.895574	3.83E-15
IRAG2	-1.93938	1.033596	0.269488	2.97E-14
IRS1	1.031395	0.584305	1.19432	6.45E-06
IRX1	-1.0462	0.770795	0.373251	4.67E-06
IRX4	1.810869	0.556658	1.953056	5.49E-08
ISG15	2.396171	19.42072	102.2315	1.04E-09
ISL1	-1.22143	0.814573	0.349335	1.24E-09
ISL1-DT	-1.62605	0.530135	0.171749	4.18E-09
ITGA11	1.615467	0.074071	0.226961	4.08E-05
ITGA3	1.621051	2.236746	6.88021	3.16E-10
ITGA5	1.400321	2.035072	5.371783	2.30E-08
ITGA6	1.552832	4.355222	12.77789	6.88E-15
ITGAV	1.219682	1.742564	4.058352	4.19E-15

ITGB6	1.293009	0.481805	1.180608	0.000128
ITLN1	-2.22585	0.189903	0.040596	1.38E-05
ITM2A	-1.39547	2.667704	1.014047	2.77E-13
ITPKA	1.393756	0.063947	0.168028	1.59E-07
ITPRID1	-3.0882	0.186422	0.021921	2.02E-09
JAG2	1.173409	1.147113	2.587245	6.75E-12
JAM2	-1.32442	0.29864	0.11925	1.01E-12
JCHAIN	-1.66517	53.80637	16.96558	1.59E-07
KANK3	-1.09585	0.319997	0.149714	1.90E-13
KAT2B	-1.32757	0.735973	0.293241	1.89E-16
KBTBD11	-1.0638	0.281208	0.134522	1.27E-11
KCNA5	-1.14858	0.224044	0.101059	4.70E-07
KCNA7	1.422314	0.132631	0.355472	3.29E-08
KCNE5	1.085212	0.089899	0.190737	9.75E-07
KCNK5	-1.12685	0.394598	0.180692	8.38E-10
KCNMB3	1.014179	0.142594	0.288004	1.54E-06
KCNN4	-1.68712	2.779181	0.863061	6.03E-08
KCNS3	1.125845	0.210245	0.458816	1.06E-07
KCTD14	-1.27723	0.289714	0.119533	0.000188
KDM4E	-1.45152	0.264168	0.096589	2.13E-09
KHDC1L	4.986685	0.153177	4.856624	2.20E-12
KIAA2012-AS1	-2.53481	0.183397	0.031647	0.000188
KIF11	1.331577	0.472931	1.190262	1.19E-12
KIF14	2.042811	0.169256	0.697416	2.55E-15
KIF15	1.20038	0.106881	0.245613	1.76E-10
KIF18A	1.749286	0.072117	0.242453	7.87E-15
KIF18B	1.738805	0.332721	1.110486	3.05E-15
KIF19	-2.45815	0.265381	0.048294	9.00E-10
KIF20A	1.310625	1.252161	3.105973	1.86E-12
KIF20B	1.182652	0.426781	0.968767	3.42E-12
KIF23	1.827425	0.470297	1.669097	3.05E-15
KIF2C	1.720206	0.364285	1.20026	8.86E-16
KIF3C	1.368586	0.143547	0.370664	1.37E-11
KIF4A	1.797689	0.078561	0.273129	8.07E-16
KIF7	1.086037	0.243131	0.516143	1.27E-08
KIF9	-1.03659	0.159864	0.07793	8.33E-11
KIFC1	1.34996	0.618447	1.576453	4.78E-13
KIT	-1.28825	0.587018	0.240354	2.55E-11
KLC3	1.040141	0.431196	0.886724	1.54E-06
KLF15	-2.58542	0.908328	0.15134	1.35E-13
KLF2	-1.00379	17.9142	8.933625	5.49E-09
KLF7	1.010755	0.53304	1.074057	1.53E-09
KLHDC1	-1.29462	0.151278	0.061667	1.40E-15
KLHDC7A	-3.34355	1.650321	0.162577	5.50E-18

KLHDC7B	2.624851	1.411451	8.706126	1.08E-08
KLHDC7B-DT	2.499163	1.868477	10.56357	2.91E-12
KLHDC8A	-1.29686	0.276437	0.112513	5.07E-10
KLHDC9	-1.04705	1.313516	0.635683	1.40E-07
KLHL41	-1.12316	0.814702	0.37402	2.24E-05
KLK14	4.477176	0.264372	5.888165	1.06E-07
KLK5	3.335975	0.57611	5.817474	6.31E-07
KLK6	1.411457	1.814287	4.826108	0.00112
KLK9	3.145561	0.267789	2.369742	3.49E-08
KNL1	1.529332	0.342398	0.98834	3.28E-13
KNSTRN	1.438419	0.767753	2.080793	7.87E-15
KNTC1	1.028136	0.498335	1.016299	1.18E-14
KPNA2	1.648503	3.656965	11.46489	1.54E-15
KPRP	1.692596	1.045712	3.380137	0.001914
KREMEN2	1.927499	0.380621	1.447866	1.15E-09
KRT1	2.651535	12.07007	75.84052	0.000157
KRT10	2.222312	20.04889	93.55627	0.000481
KRT12	-1.22536	0.167213	0.071516	1.14E-06
KRT13	-3.59291	1837.369	152.2726	4.08E-06
KRT14	2.716251	166.1172	1091.661	2.36E-10
KRT16	2.86283	44.31371	322.356	2.98E-11
KRT17	3.087795	23.77257	202.1134	6.71E-16
KRT2	2.091763	0.052085	0.222021	0.042499
KRT24	-2.29096	14.51789	2.96658	0.001065
KRT32	-1.85717	0.209201	0.057743	0.00011
KRT34	2.871428	0.0419	0.306619	3.10E-08
KRT4	-5.29033	1027.157	26.2475	3.60E-07
KRT40	-1.29848	0.194639	0.079131	1.31E-14
KRT6A	1.119783	421.2866	915.5157	5.64E-06
KRT6B	2.554951	45.64555	268.235	7.26E-10
KRT6C	1.872257	37.3186	136.6252	1.38E-05
KRT7	-1.66106	8.013048	2.533783	2.02E-11
KRT75	3.945901	0.275667	4.248338	5.46E-14
KRT77	3.309404	0.029136	0.288839	0.014735
KRT78	-3.55525	31.92459	2.715742	0.00142
KRT7-AS	-1.674	3.129601	0.980762	1.57E-10
KRT81	1.449963	0.072432	0.197886	0.00024
KRT9	2.723969	0.147535	0.974744	1.04E-10
KRTAP19-1	4.699146	0.018963	0.492598	1.77E-06
KRTAP3-2	-1.02411	0.23584	0.115966	1.41E-06
KRTAP3-3	-1.78139	0.217492	0.063269	4.39E-06
KRTAP4-1	2.917773	0.025827	0.195168	1.97E-08
KRTDAP	3.910947	3.323153	49.98764	3.77E-09
KYNU	1.084911	0.105592	0.223987	0.000281

LAMA2	-1.01476	0.187746	0.092918	4.63E-09
LAMA3	2.176775	0.411342	1.859851	4.03E-14
LAMB1	1.155922	1.459099	3.251263	2.10E-11
LAMB3	1.955188	2.997137	11.62189	1.29E-12
LAMC2	3.202341	1.531484	14.09656	4.59E-15
LAMP3	1.706897	0.47555	1.552469	3.40E-10
LAMP5	2.750891	0.098689	0.664309	6.69E-07
LAPTM4B	1.375933	0.539721	1.400769	1.77E-15
LARGE2	1.007353	1.374649	2.763345	2.88E-05
LCE1A	3.413455	0.178889	1.90606	1.55E-06
LCE1B	2.518102	0.138886	0.795576	9.15E-09
LCE1C	2.561037	0.150635	0.888948	4.22E-07
LCE1E	3.333312	0.026986	0.272001	9.26E-07
LCE1F	3.693423	0.239854	3.102973	7.38E-11
LCE2A	4.136601	0.078383	1.378677	1.86E-11
LCE2C	3.989865	0.075921	1.206225	6.85E-09
LCE2D	3.739292	0.041561	0.555045	1.24E-08
LCE3A	3.235123	1.176676	11.07965	2.71E-08
LCE3D	3.891026	3.076244	45.63902	3.17E-09
LCE3E	3.386905	1.544396	16.15544	4.17E-08
LCE6A	2.886846	0.102951	0.76148	8.08E-07
LCN10	-2.21206	0.376295	0.081214	8.02E-13
LCN2	-1.19963	114.0887	49.67282	2.19E-10
LCN6	-1.91933	0.326012	0.086191	6.94E-13
LCNL1	-1.79805	0.314573	0.090459	7.48E-10
LDB3	-1.27467	0.210907	0.087172	8.24E-09
LDHA	1.224441	19.59532	45.78738	3.77E-09
LDHD	-1.26568	1.994848	0.829666	1.34E-12
LDLRAD1	-3.595	0.872455	0.072201	3.49E-10
LEPR	-2.51817	0.785087	0.137048	9.02E-18
LGALS1	1.499977	10.40434	29.42745	0.000137
LGALS7	1.818051	6.028362	21.25628	0.000168
LGI4	-1.14877	0.627268	0.282905	2.38E-12
LIFR	-1.81415	1.398823	0.397785	1.98E-13
LIN9	1.084668	0.09958	0.211198	2.80E-12
LINGO4	-2.26679	0.176929	0.036764	6.63E-13
LIPG	1.97743	0.068999	0.27171	1.19E-12
LIPH	-1.20072	0.927985	0.403728	6.64E-11
LIPN	2.565476	0.03244	0.19203	2.41E-09
LMNB2	1.114497	1.933587	4.186593	6.40E-13
LMO7	-1.25464	1.619562	0.678753	8.01E-08
LMO7DN-IT1	-1.80914	0.259388	0.074019	1.08E-09
LMOD1	-1.86226	0.535074	0.14717	2.27E-11
LMOD2	-1.27898	0.674596	0.277993	0.002794

LMOD3	-1.22602	0.226727	0.096925	3.86E-08
LNCAROD	4.192147	0.011929	0.218063	2.34E-10
LNC SRLR	1.090011	0.224419	0.477734	3.11E-05
LN X1	-1.10959	0.156503	0.072527	2.46E-11
LONRF3	-1.18254	0.204861	0.090256	1.76E-09
LORICRIN	2.473195	0.358741	1.99199	0.000493
LOX	1.476903	1.410423	3.92592	3.29E-09
LOXL2	2.174472	0.09071	0.409485	2.92E-15
LPCAT1	1.031823	0.516182	1.05539	3.42E-12
LPIN1	-1.05438	0.65705	0.316373	3.52E-09
LPO	-3.11422	6.365788	0.735156	1.33E-09
LRFN4	1.202308	2.47445	5.693895	3.50E-15
LRP12	1.616646	0.143695	0.440657	4.02E-16
LRP8	1.483735	0.146542	0.409835	3.02E-13
LRRC10B	-3.51588	3.453831	0.301937	3.14E-07
LRRC15	3.670188	0.198367	2.525265	6.01E-15
LRRC23	-1.51912	0.440288	0.153616	0.006196
LRRC26	-2.69902	25.42746	3.915767	1.10E-12
LRRC46	-2.66327	2.063429	0.325735	1.83E-05
LRRC55	1.006861	0.077241	0.155218	0.037539
LRRC71	-2.84204	0.428617	0.059776	6.96E-09
LRRC73	-1.43431	0.516942	0.191281	0.00022
LRRC74B	-3.72207	0.273938	0.020759	2.76E-09
LRRC8E	1.221575	0.142442	0.332177	1.19E-06
LRRN4CL	-1.83219	1.827821	0.513322	1.34E-14
LTBP1	1.014755	0.180671	0.365056	4.93E-06
LTBP4	-1.07393	5.172573	2.457096	1.08E-10
LTC4S	-1.07092	1.176699	0.560126	1.67E-11
LTF	-2.45027	68.93275	12.6131	4.53E-08
LUCAT1	1.727914	0.12012	0.397894	1.43E-09
LUM	1.909639	11.23535	42.2129	1.12E-14
LY6K	2.13316	0.818874	3.592216	2.27E-11
LYPD1	2.459922	0.034695	0.190887	7.07E-08
LYPD2	-1.87995	27.74603	7.538394	7.09E-07
LYPD5	1.932978	0.254321	0.971105	1.28E-05
LYVE1	-2.25239	2.931951	0.615347	1.00E-11
LYZ	-3.26774	3144.179	326.452	4.79E-09
LZTS3	-1.02334	2.60875	1.283444	0.00016
MAB21L1	-1.87376	1.706837	0.465729	4.21E-14
MAB21L4	-2.86072	5.446465	0.749813	2.29E-06
MACC1-DT	-1.10764	0.514787	0.238889	3.22E-11
MAD2L1	1.740208	0.807611	2.698094	1.68E-14
MAFA	2.063716	0.087646	0.366414	1.65E-11
MAGEA1	7.133501	0.003102	0.435494	2.39E-05

MAGEA10	5.163924	0.019534	0.700304	0.000119
MAGEA11	3.042632	0.024801	0.204356	2.95E-05
MAGEA3	4.115316	0.226061	3.917955	1.70E-06
MAGEA4	5.377792	0.021833	0.907817	2.57E-06
MAGEA6	4.226616	0.186377	3.489234	0.000127
MAGEB2	3.315932	0.049751	0.495451	0.044749
MAGI2-AS3	-1.20896	0.470683	0.203608	1.96E-10
MAL	-4.22814	14.04412	0.749373	3.02E-06
MALL	-1.14131	7.437361	3.371716	0.007104
MAMDC2	-1.96658	0.201029	0.051435	1.18E-14
MANSC1	-1.22646	2.881557	1.231477	6.67E-13
MAP1LC3C	-2.1032	0.197934	0.046067	4.61E-09
MAP3K21	1.139361	0.215414	0.474522	1.23E-08
MAP6D1	1.062923	0.212812	0.444599	2.02E-08
MAPK12	1.11453	0.504807	1.093031	1.43E-11
MAPK6	1.027938	2.241129	4.569903	4.54E-11
MAPK8IP1	-1.11081	0.6452	0.29875	2.55E-06
MAS1L	-3.09116	0.226817	0.026616	5.46E-11
MATN3	1.712796	0.054367	0.178212	2.42E-06
MB	-1.44926	1.062462	0.389083	1.17E-07
MCEMP1	1.462501	0.139225	0.383685	2.78E-07
MCM10	1.97451	0.121542	0.477654	6.78E-14
MCM2	1.795423	0.835288	2.899428	8.43E-17
MCM3	1.010662	2.169807	4.371804	4.05E-13
MCM4	1.324286	3.071396	7.69105	5.02E-15
MCM5	1.105188	1.287368	2.769475	9.57E-14
MCM6	1.092456	0.78658	1.677277	6.22E-14
MCM7	1.210593	5.400965	12.4996	2.43E-15
MCM8	1.253783	0.35135	0.837849	1.34E-15
MDH1B	-2.69918	0.247739	0.038147	1.28E-07
MECOM	-1.16268	0.181011	0.080855	1.86E-12
MEFV	1.201041	0.245775	0.56505	7.98E-06
MEIS1	-1.19577	0.823155	0.359351	1.85E-15
MEIS1-AS2	-1.19162	3.007462	1.316704	1.09E-13
MEIS2	-1.13794	0.21463	0.097529	1.27E-11
MELK	1.772384	0.098771	0.33742	2.60E-14
MEST	1.338805	0.888909	2.248422	5.07E-10
MET	1.100676	0.629685	1.350391	2.65E-11
METTL7A	-1.46807	13.16692	4.759387	1.83E-14
MEX3A	1.661562	0.470167	1.487416	1.04E-05
MEX3B	1.331418	0.625441	1.57392	7.72E-11
MFAP2	2.318834	0.931003	4.645041	3.66E-15
MFAP4	-1.59118	22.95838	7.619867	2.58E-12
MFHAS1	1.352795	0.314577	0.803451	8.86E-16

MFSD4A	-1.20522	0.732028	0.317483	3.52E-09
MFSD6L	-1.46379	1.081012	0.391909	3.29E-09
MGAM2	-3.19424	0.198642	0.021703	8.98E-11
MGLL	-1.4475	1.157143	0.424275	5.71E-14
MGME1	1.069008	0.885993	1.858805	4.97E-17
MGP	-1.57528	37.20441	12.48495	1.20E-07
MIA	-2.43159	1.677428	0.31093	5.71E-11
MICAL2	1.606123	0.145587	0.443214	3.10E-11
MINDY1	-1.02962	2.776031	1.359808	5.49E-15
MIOX	1.553256	0.07494	0.219934	0.042171
MIR1915HG	1.147288	0.28058	0.621476	4.42E-06
MIR205HG	1.188522	27.26145	62.13404	1.28E-09
MIR2117HG	2.399017	0.032897	0.173511	4.24E-06
MISP3	-1.03572	1.766991	0.861888	4.23E-10
MKI67	1.521856	4.233133	12.15587	5.42E-13
MKRN2OS	-1.48313	0.623838	0.223153	2.88E-18
MLPH	-2.36427	0.886415	0.172155	1.01E-12
MMP1	5.16539	1.271392	45.62644	3.54E-17
MMP10	2.988338	1.359188	10.78596	1.66E-08
MMP11	4.33789	0.170779	3.45357	1.55E-17
MMP13	4.132366	0.421474	7.391579	1.80E-11
MMP14	1.396526	12.80776	33.71859	1.52E-12
MMP3	3.236664	0.698414	6.583334	3.83E-16
MMP9	2.502306	1.692753	9.590977	2.48E-12
MMRN1	-2.85532	0.92627	0.127997	1.69E-15
MMS22L	1.056576	0.139933	0.291058	1.53E-13
MNS1	-1.04893	0.3554	0.171774	1.83E-08
MOGAT2	-1.39498	0.165377	0.062885	5.54E-08
MPO	-3.3968	1.670254	0.158578	2.32E-10
MPP3	1.254956	0.165897	0.39593	8.33E-11
MPZ	-2.328	1.860035	0.370444	1.12E-14
MRGBP	1.015314	2.208934	4.465013	1.21E-17
MRGPRF-AS1	-1.22558	0.217026	0.092806	9.21E-07
MRLN	1.867187	0.047288	0.172516	0.000509
MROH7	-1.04	0.173426	0.084342	1.31E-08
MRPL13	1.078886	0.329171	0.695341	1.21E-10
MRPL36	1.021046	2.707286	5.49414	4.23E-10
MRPL47	1.153304	1.107629	2.463619	4.21E-14
MS4A1	-1.67697	2.804268	0.877006	0.000861
MS4A8	-4.34114	1.240268	0.061193	1.10E-11
MSANTD3	1.279625	0.468862	1.138285	6.02E-17
MSC	1.095048	1.50653	3.218252	4.72E-05
MSI1	2.790795	0.031307	0.216649	1.63E-06
MSLN	-1.57922	7.592046	2.540771	1.32E-07

MSLNL	-1.6511	0.160795	0.051197	4.30E-07
MSN	1.118643	1.399152	3.038155	3.16E-12
MSX1	1.197381	0.328416	0.753133	3.11E-05
MSX2	1.843432	0.23143	0.830515	6.76E-10
MT1A	-2.8309	0.945331	0.132861	1.61E-09
MT1E	1.335657	13.75801	34.72388	0.003646
MT2A	1.484741	55.12448	154.2752	0.000188
MTBP	1.407583	0.09504	0.252133	1.47E-14
MTCL1	1.670862	0.113211	0.360471	4.21E-14
MTFR2	1.461761	0.101517	0.279624	2.38E-14
MTHFD1L	1.095817	0.091229	0.194988	3.10E-14
MTUS1-DT	-1.06393	0.414669	0.198347	5.61E-07
MUC1	-1.72513	33.897	10.25286	4.39E-15
MUC13	-3.63922	1.015585	0.081508	5.86E-07
MUC15	-1.14466	2.728037	1.233879	7.53E-10
MUC16	-2.76772	12.30224	1.80641	9.11E-09
MUC19	-3.07267	1.116734	0.132735	6.16E-11
MUC2	-2.77034	0.284891	0.041756	0.000183
MUC20	-1.44674	4.628039	1.697796	7.56E-13
MUC21	-4.55892	84.52435	3.586011	5.35E-06
MUC22	-3.75756	3.014557	0.222887	0.000164
MUC4	-1.70616	18.76716	5.751669	3.42E-12
MUC5AC	-5.28522	12.29155	0.315207	4.67E-08
MUC5B	-2.63086	134.9172	21.78212	4.39E-10
MUC7	-3.036	1.698441	0.207072	9.70E-09
MUCL1	4.036046	0.013828	0.22685	3.86E-07
MUCL3	-3.12654	0.495052	0.056685	3.07E-09
MYBL2	2.05022	0.267694	1.108706	3.54E-17
MYBPC1	-1.04073	0.39861	0.193757	8.68E-07
MYCBPAP	-1.14983	0.187235	0.084383	0.024819
MYCL	1.049887	2.384728	4.937264	0.01285
MYCL-AS1	1.219861	0.124405	0.28977	0.006618
MYCT1	-1.01143	0.407915	0.202348	1.76E-09
MYO10	1.266246	0.314714	0.756996	8.23E-15
MYO1B	1.785565	0.465519	1.604891	3.05E-15
MYO5A	1.043663	0.414883	0.855263	4.80E-14
MYO5C	-1.35407	1.238652	0.484546	2.66E-13
MYOC	-3.35071	0.950155	0.093139	3.82E-15
MYOSLID	2.263453	0.073728	0.353996	4.05E-13
MYOT	-1.16483	0.538129	0.240014	5.87E-05
N4BP3	-1.55428	2.092088	0.712351	1.98E-05
NAAA	-1.24498	1.186364	0.500544	5.65E-13
NAT8	-1.00861	0.359215	0.178538	0.01757
NCALD	-1.90287	0.243725	0.065175	2.92E-07

NCAPD2	1.016204	1.455841	2.94457	5.46E-14
NCAPG	1.475954	0.378521	1.052923	2.55E-13
NCAPG2	1.120837	0.313544	0.681875	2.77E-13
NCAPH	1.641111	0.213154	0.664841	2.22E-15
NCCRP1	-1.69334	33.03567	10.21499	0.006303
NCF2	1.072619	0.553009	1.163114	3.52E-09
NDC80	1.663826	0.199949	0.633552	2.25E-13
NDNF	-1.9702	0.457847	0.116851	1.35E-13
NDRG1	1.216477	5.561155	12.92293	1.77E-08
NDRG2	-1.87594	4.45261	1.213114	8.07E-16
NDRG4	1.203629	0.36724	0.84582	1.38E-05
NDUFA4L2	1.862424	2.925462	10.63751	1.95E-08
NDUFB9	1.051663	1.773108	3.675506	3.34E-11
NEDD1	1.01028	0.589715	1.187865	2.34E-13
NEDD4	1.091363	0.183938	0.391926	2.77E-13
NEFM	2.01187	0.196029	0.790595	0.028089
NEIL1	-1.17541	2.195068	0.971886	1.67E-13
NEIL3	1.381477	0.068818	0.179294	4.39E-10
NEK2	1.676213	0.43084	1.376911	9.99E-14
NELL2	2.886154	0.025684	0.189883	1.28E-14
NEMP1	1.196807	1.027801	2.356045	1.02E-16
NETO2	2.46105	0.116117	0.63936	1.63E-17
NEU2	5.147882	0.021013	0.745002	4.89E-08
NFIA	-1.15039	0.35465	0.159771	5.25E-15
NFIX	-1.25988	2.330695	0.973249	1.28E-15
NHLRC4	-2.35571	0.914262	0.178621	3.44E-07
NIBAN2	-1.01855	8.248825	4.071734	0.000778
NID2	1.045088	0.259032	0.53451	1.78E-06
NIPAL4	1.246702	0.753517	1.788082	0.001476
NKD2	1.125071	0.221186	0.482434	5.49E-06
NKPD1	1.465878	0.173137	0.478259	3.19E-06
NKX2-5	3.178393	0.039487	0.357477	6.42E-10
NKX3-1	-2.30181	16.40642	3.327365	9.11E-09
NLRP10	4.136568	0.033062	0.58152	7.49E-14
NMB	1.637909	0.702507	2.186304	2.11E-10
NME1	1.068241	1.638434	3.435591	1.90E-13
NME5	-3.20918	0.200269	0.021655	7.42E-11
NOBOX	3.197731	0.023276	0.213558	0.014013
NOCT	1.187631	0.286173	0.651839	2.86E-09
NOSTRIN	-1.09804	0.234857	0.109713	1.07E-09
NOTUM	2.760878	0.109231	0.740375	8.14E-08
NOXA1	-1.05721	1.181745	0.567901	1.60E-11
NPDC1	-1.37065	5.443519	2.105095	4.23E-10
NPM3	1.06894	2.761799	5.793954	4.48E-09

NPNT	1.690194	0.235636	0.760397	1.14E-12
NPR1	-1.0726	0.609837	0.289955	6.31E-07
NPW	2.561305	0.039293	0.231925	7.97E-09
NPY1R	-2.87592	0.638812	0.087023	3.28E-12
NPY4R	1.295156	0.141503	0.347253	0.001165
NPY5R	-3.24559	0.222985	0.02351	2.11E-11
NR2F2	-1.35067	8.111077	3.180432	6.14E-13
NR4A1	-1.29574	3.213695	1.309025	3.49E-07
NR4A1AS	-1.96227	4.352195	1.116883	1.07E-09
NR4A2	-1.30487	2.771301	1.121703	2.36E-10
NR5A1	3.084347	0.038542	0.326901	0.000449
NRAP	-1.10074	0.467387	0.217931	0.000139
NRIP3	2.121351	0.078908	0.343332	1.93E-18
NRTN	-2.4556	1.949179	0.355339	1.36E-16
NSUN7	-1.54566	0.265586	0.090974	1.94E-12
NTN4	-1.26331	0.366147	0.152531	9.17E-14
NUCB2	-1.81585	1.649025	0.468383	2.18E-16
NUDCD1	1.111798	0.253162	0.547121	3.61E-11
NUDT1	1.250232	0.643747	1.531343	9.63E-12
NUDT11	1.702902	0.302969	0.98633	1.53E-09
NUF2	1.776925	0.077658	0.26613	1.90E-13
NUP107	1.062561	0.654592	1.367203	1.29E-13
NUSAP1	1.616526	0.430518	1.320122	1.24E-13
NWD1	-3.74576	0.444382	0.033126	3.56E-12
NXPE2	-2.77391	0.997731	0.145876	1.82E-09
NXPH3	-1.63905	0.61043	0.19599	2.44E-13
NXPH4	3.224134	0.101359	0.947161	7.30E-17
OAS2	1.175535	2.603451	5.880588	3.49E-07
OAS3	1.185727	3.273812	7.4472	1.95E-09
OASL	2.098749	0.359035	1.537881	1.24E-07
OCIAD2	1.281586	0.676863	1.645495	3.86E-12
ODAD1	-3.14239	0.385508	0.04366	2.81E-05
ODAD3	-2.20191	0.243753	0.052979	0.000184
ODAD4	-2.38198	0.215481	0.041339	4.96E-05
ODAM	-3.04572	4.099519	0.496455	2.87E-07
ODC1	2.034857	9.049995	37.08527	6.39E-11
OIP5	1.366599	0.081872	0.211117	6.67E-13
OLFM2	1.322163	0.069832	0.174609	3.62E-08
OLFML2A	1.013252	1.142833	2.306758	2.78E-06
OLFML2B	1.045519	0.457857	0.945066	0.000235
OLR1	1.896147	0.164694	0.613021	8.52E-09
OMP	-2.16269	0.90793	0.202777	1.40E-14
OR10AD1	-1.05453	0.713656	0.343592	5.84E-08
OR13G1	-2.54079	0.179084	0.030775	5.44E-07

OR13H1	2.836866	0.290795	2.07763	7.87E-14
OR1J1	1.292132	0.108511	0.265733	1.68E-06
OR1L4	-1.08706	0.236041	0.111109	1.16E-06
OR2A4	-2.30654	0.239113	0.048335	1.69E-08
OR2B2	2.353703	0.084384	0.431315	2.35E-07
OR2B6	2.486748	0.048929	0.274251	3.56E-06
OR52B6	-1.39246	0.711239	0.270922	2.28E-12
OR52H1	-1.27581	0.406915	0.168053	1.19E-09
OR52I1	-1.13705	0.373529	0.16984	5.85E-07
OR52N4	-1.21963	0.409946	0.176027	4.61E-08
OR56A1	2.626282	0.039547	0.244174	2.51E-07
OR56A3	2.974651	0.028601	0.224822	0.002162
OR56B4	1.897883	0.087705	0.326845	9.18E-05
OR6C2	2.989815	0.097729	0.776333	9.30E-06
OR6C70	3.321415	0.104469	1.044319	1.74E-09
OR7C1	1.00013	0.07292	0.145853	0.027591
OR9A4	1.642179	0.05016	0.156567	0.00712
ORC1	1.645197	0.147852	0.462467	2.92E-15
ORC6	1.878178	0.405879	1.492053	1.98E-16
OSCP1	-1.09022	0.24217	0.113745	1.04E-05
OSM	1.548629	1.110452	3.248505	5.79E-06
OSR1	-1.36327	1.438743	0.559241	2.86E-09
OXGR1	-2.54424	2.318883	0.397546	7.60E-12
P2RX2	-1.54441	0.538807	0.184722	4.79E-09
P2RX5	-1.00941	0.391153	0.194304	0.032637
P3H2	2.625637	0.069391	0.428251	7.01E-10
P3H4	1.37179	0.633837	1.640317	1.04E-13
P4HA2	1.023727	0.248663	0.505572	1.34E-06
P4HTM	-1.0358	1.315188	0.641478	6.90E-11
PABPC5	-1.24438	0.666383	0.281274	1.38E-09
PADI1	-3.75809	5.014516	0.370622	2.77E-09
PADI2	-1.67071	0.834383	0.262078	2.62E-08
PAEP	3.149132	0.035939	0.318819	2.61E-07
PAICS	1.053918	2.500515	5.191471	1.90E-13
PAIP2B	-1.66507	1.491394	0.470281	1.91E-14
PALM	-1.36747	0.709069	0.274815	3.16E-10
PANX1	1.356833	0.35864	0.918557	1.60E-14
PAQR3	1.015148	0.324269	0.655383	1.94E-12
PARPBP	1.095885	0.106623	0.2279	2.02E-09
PART1	-2.28995	0.445487	0.091094	2.18E-14
PAX1	-5.13967	1.618792	0.045919	5.05E-11
PAX6	1.145228	0.094391	0.208776	0.00142
PAX9	-1.82627	8.002606	2.256674	1.85E-15
PBK	1.599452	0.208941	0.633151	6.16E-11

PBOV1	-2.23613	1.292103	0.274255	1.64E-09
PCDH1	-1.22045	3.998002	1.715739	4.21E-14
PCDH17	1.154031	0.094181	0.209586	4.39E-10
PCDH7	1.149405	0.100381	0.222668	0.027487
PCDHB11	1.038401	1.405376	2.886573	0.000452
PCDHB12	1.043313	0.796869	1.642312	2.09E-07
PCDHB14	1.022677	2.54859	5.177935	8.09E-10
PCDHB8	2.119619	0.455645	1.980138	6.43E-08
PCK1	-2.42962	0.524688	0.09739	1.34E-06
PCLAF	1.734063	0.341047	1.13454	1.68E-14
PCNA	1.165139	3.248401	7.284696	1.75E-14
PCOLCE2	-1.68633	0.2462	0.076498	4.50E-05
PCSK9	2.476369	0.181678	1.011027	2.73E-10
PDCD4	-1.00544	11.95415	5.954588	7.72E-14
PDE2A	-1.42911	0.146552	0.054424	1.34E-12
PDK4	-2.25545	5.595269	1.171822	3.40E-09
PDLIM2	-1.00225	1.935598	0.966288	0.00081
PDLIM7	1.199585	1.588004	3.647228	6.50E-07
PDPN	1.95978	0.505732	1.96731	1.67E-11
PEG3	-1.8523	0.333704	0.09242	5.65E-13
PELP1-DT	1.060902	0.087064	0.181637	1.03E-06
PFDN2	1.130092	0.650844	1.424519	2.44E-13
PFKFB4	1.674513	0.142088	0.45356	6.01E-15
PFN2	1.281901	0.474312	1.153334	1.40E-08
PGBD5	1.088009	0.074084	0.157488	2.19E-05
PGF	1.06919	0.463248	0.972013	5.08E-05
PGLYRP4	1.657501	0.198107	0.624967	5.31E-08
PGPEP1	-1.05613	1.204449	0.579242	5.45E-10
PHF24	1.328111	0.057849	0.145244	0.0096
PHLDB2	1.68025	0.301248	0.965451	7.25E-13
PHYHIP	-2.17257	0.879873	0.19517	2.49E-14
PI15	1.370386	0.684414	1.769481	1.29E-12
PI16	-3.05354	1.914333	0.230574	1.01E-12
PI3	1.939319	118.1764	453.2355	0.000731
PIF1	1.198836	0.298353	0.684883	7.02E-12
PIFO	-3.57617	3.330085	0.279204	1.15E-09
PIGR	-2.91171	275.1163	36.55997	2.02E-11
PIGX	1.047138	0.219597	0.453781	8.55E-13
PIH1D2	-1.74016	0.450415	0.134826	1.36E-07
PIK3R1	-1.04745	2.421279	1.171466	7.30E-12
PILRA	1.16271	0.088879	0.198979	5.13E-09
PIMREG	1.326547	0.357819	0.897416	4.90E-11
PIP	-3.64635	71.19349	5.685656	6.52E-10
PITX1	-1.34152	27.9502	11.02929	0.00609

PKDCC	-1.46377	1.92737	0.698759	1.83E-08
PKHD1L1	-3.76385	0.203697	0.014995	9.96E-18
PKM	1.033764	14.39118	29.46393	9.29E-13
PKMYT1	1.917341	0.296697	1.120703	2.32E-15
PKP1	1.230179	10.27053	24.09427	2.23E-08
PLA2G2A	-1.82676	7.312556	2.061385	1.74E-07
PLA2G2F	2.906628	0.04507	0.337967	3.09E-09
PLA2G3	1.290239	0.613598	1.500669	0.022379
PLA2G4D	3.798432	0.030748	0.427812	1.65E-08
PLA2G4E	2.569668	0.160753	0.954348	1.28E-09
PLA2G4E-AS1	2.280553	0.071174	0.345808	8.52E-09
PLA2G4F	1.176936	0.614698	1.389808	0.001261
PLA2G7	2.169311	0.102251	0.459934	2.22E-15
PLAC8	-1.78713	2.601024	0.753642	4.40E-13
PLAC9	-1.41223	0.418572	0.15727	3.69E-14
PLAU	2.547928	3.47292	20.30942	3.86E-14
PLAUR	1.602338	0.683697	2.075943	6.90E-11
PLEK2	1.960586	0.272114	1.059123	2.10E-11
PLEKHA6	-1.73149	0.311035	0.093665	3.38E-17
PLEKHA7	-1.33407	0.426202	0.169052	3.54E-14
PLEKHB1	-2.40397	1.595813	0.30152	2.58E-12
PLEKHG4	1.082224	1.064169	2.253162	6.03E-08
PLEKHG4B	1.793169	0.099494	0.344822	1.09E-06
PLEKHG7	-2.22454	0.241097	0.051587	1.01E-08
PLEKHS1	-2.87468	2.822266	0.384798	4.23E-10
PLIN1	-4.0727	1.035688	0.06155	4.78E-13
PLIN4	-2.23864	1.966365	0.416646	1.95E-11
PLIN5	-2.2718	1.559068	0.322838	1.24E-12
PLK1	1.501052	0.9455	2.676229	5.25E-15
PLK4	1.306808	0.572564	1.416488	2.48E-12
PLN	-1.62554	0.756955	0.24532	7.60E-12
PLOD1	1.090504	0.803719	1.711507	5.09E-11
PLOD2	1.534786	0.374394	1.08479	4.71E-12
PLOD3	1.091579	1.361796	2.902083	7.72E-11
PLP1	-2.98535	0.496863	0.062742	1.49E-16
PLPP3	-1.36114	1.321926	0.514593	2.38E-14
PLPPR3	-2.6908	0.471304	0.072994	6.64E-11
PLXNA1	1.232967	1.777751	4.1786	1.36E-16
PMCH	1.892694	0.152974	0.568034	1.14E-05
PMEPA1	1.819501	0.507456	1.79111	3.66E-10
PNCK	2.407101	0.073552	0.390123	0.001165
PNLIPRP3	2.358635	0.036486	0.187134	0.000141
PNPLA3	2.173694	0.044671	0.201547	2.38E-14
PNPLA7	-1.53162	0.180912	0.062575	1.05E-12

PODN	-1.55874	1.851284	0.628412	3.75E-11
POGLUT2	1.267154	0.241178	0.580483	6.78E-14
POLQ	1.524686	0.177388	0.510387	2.25E-13
POLR1G	1.05744	1.103818	2.297306	2.25E-13
POSTN	3.171674	1.815877	16.36271	5.09E-11
POTEE	2.943044	0.047989	0.369052	2.18E-08
POTEF	3.133371	0.041903	0.367692	5.11E-11
POTEI	2.888077	0.064305	0.476037	1.60E-08
POU3F3	-1.36939	0.800566	0.309862	7.86E-12
POU4F1	2.35635	0.064242	0.328965	0.001528
PPARGC1A	-1.02508	0.206882	0.101659	6.73E-09
PPAT	1.100191	0.361878	0.775805	1.05E-12
PPFIA1	1.060824	0.698988	1.458174	2.34E-13
PPIAL4G	-1.28507	0.17609	0.072259	0.001561
PPIF	1.440057	5.51578	14.96605	5.53E-12
PPIL6	-2.38304	0.216269	0.04146	9.26E-12
PPL	-1.78712	18.61977	5.395089	0.000235
PPP1R14B	1.114585	20.67036	44.75808	4.53E-08
PPP1R14B-AS1	1.264062	1.006099	2.416359	0.003453
PPP1R14C	1.622606	0.125527	0.386537	1.73E-11
PPP1R1A	-2.50381	0.204549	0.036064	3.63E-11
PPP1R1B	-2.44991	6.049508	1.107191	8.38E-10
PPP1R32	-1.38658	0.63789	0.243975	1.03E-07
PPP1R3C	-1.86035	8.689883	2.393282	4.39E-10
PPP2R2C	1.251315	0.117756	0.280329	3.27E-05
PRAME	3.888997	0.079323	1.175177	5.19E-07
PRB1	-5.66133	2.029829	0.040108	1.20E-07
PRB2	-4.431	1.687775	0.078244	1.05E-06
PRB3	-4.09545	856.3495	50.09543	5.86E-10
PRB4	-5.74482	75.19184	1.402192	6.85E-08
PRC1	1.6189	0.839646	2.578895	3.83E-15
PRELID3A	1.450713	0.05524	0.150995	1.42E-16
PRELP	-1.80474	5.518091	1.579457	8.90E-12
PREX2	-1.077	0.14127	0.066964	3.16E-12
PRH1	-3.84015	580.9558	40.56423	6.90E-11
PRH2	-3.9122	1284.401	85.31211	5.09E-11
PRKAA2	-1.3454	0.376066	0.147999	8.52E-09
PRKAR2B	-1.31417	0.222032	0.089292	1.71E-08
PRND	1.709121	0.054476	0.178117	2.26E-05
PRNP	1.408619	7.577641	20.11734	3.88E-13
PROCR	1.254526	1.332067	3.178161	9.00E-10
PRODH	1.143601	0.662694	1.464102	0.000293
PROK2	1.291751	0.07341	0.179726	0.007601
PROM1	-2.42759	0.840613	0.156249	4.04E-09

PRPH	-1.54581	0.352082	0.120589	0.000145
PRR11	1.64471	0.147646	0.461668	7.87E-15
PRR15	-1.94328	5.754623	1.496348	1.26E-06
PRR15L	-1.7325	2.423618	0.72934	1.82E-13
PRR18	-1.60529	0.38442	0.126347	0.000123
PRR29	-2.55926	2.44035	0.414036	1.10E-07
PRR29-AS1	-2.24978	0.183356	0.038552	1.74E-07
PRR4	-3.4183	3471.708	324.7367	3.94E-10
PRR9	6.192011	0.079151	5.786819	1.21E-11
PRRG3	-1.30184	0.584132	0.236929	1.36E-08
PRRT3	-1.20624	1.526016	0.66137	2.43E-15
PRSS27	-2.30219	13.09668	2.655411	0.002211
PRX	-1.29234	0.40034	0.163454	8.55E-13
PSAPL1	1.628463	0.226287	0.699642	0.039941
PSCA	-3.27919	33.39283	3.439694	1.52E-12
PSMB2	1.033297	1.143	2.339374	4.80E-14
PSMD14	1.033471	0.371982	0.761427	8.23E-15
PSMD2	1.292826	11.68563	28.63067	1.02E-16
PSMG3-AS1	-1.2132	0.365802	0.157775	1.47E-13
PSORS1C2	3.096732	0.480113	4.107267	1.57E-10
PTCH2	-1.31393	0.370834	0.149158	3.34E-11
PTGDS	-2.09117	13.97298	3.279315	3.57E-13
PTGER2	-1.00015	0.29178	0.145875	7.20E-09
PTGER3	-1.37534	0.146189	0.05635	1.20E-07
PTGFRN	1.232927	1.30525	3.067903	3.18E-16
PTGIS	-1.24274	0.557269	0.235485	3.10E-06
PTGS2	1.396828	3.718256	9.790984	9.89E-05
PTHLH	3.722465	0.746928	9.85944	1.29E-13
PTK6	-1.37363	5.107033	1.970904	1.34E-06
PTK7	1.389102	0.62074	1.625813	1.40E-15
PTTG1	1.456739	1.782729	4.893363	6.90E-11
PURPL	3.510198	0.019777	0.225333	0.003755
PVT1	1.079773	0.067903	0.143526	2.10E-09
PXDN	1.736738	0.319617	1.065223	7.16E-11
PYDC1	2.727835	0.042815	0.28363	3.65E-09
PYDC2	3.554507	0.182063	2.139119	9.48E-09
PYGM	-1.27258	1.261413	0.522122	1.76E-10
PYROXD2	-1.25113	0.391933	0.164658	2.77E-09
PZP	-1.51397	0.187472	0.065643	2.17E-09
RAB17	-1.41063	0.324726	0.122145	1.15E-09
RAB31	1.146889	0.390016	0.863636	2.04E-10
RAB32	1.235468	0.440067	1.036172	1.74E-13
RAC3	1.453668	1.571923	4.305555	9.35E-06
RACGAP1	1.245154	0.438079	1.038441	1.24E-13

RAD51	1.528135	0.106599	0.307446	1.22E-15
RAD51AP1	1.842583	0.245733	0.881324	1.40E-14
RAD54B	1.396698	0.078172	0.205825	2.11E-12
RAD54L	1.299454	0.23201	0.57106	3.86E-14
RADX	1.189864	0.062841	0.143361	6.31E-07
RAET1E	-1.16288	1.420702	0.634513	0.000313
RAG1	1.903602	0.248977	0.931538	4.78E-13
RAI2	-1.39247	0.210842	0.080312	1.86E-12
RAMP2-AS1	-1.22148	0.316981	0.135935	8.38E-10
RANBP1	1.286322	3.274668	7.987093	8.46E-16
RASAL1	-1.07435	0.949873	0.451082	6.29E-09
RASGRP2	-1.36082	0.768097	0.299067	6.31E-07
RASL11B	1.584795	0.278955	0.836768	5.93E-11
RASL12	-1.01488	0.374027	0.185094	3.74E-08
RBBP8	1.020255	0.249758	0.506578	6.75E-12
RBL1	1.020526	0.206415	0.418746	8.41E-14
RBM24	-1.2146	0.303608	0.130822	2.13E-06
RBM47	-1.09697	0.799985	0.37399	6.29E-15
RBP1	1.997763	0.595045	2.376492	8.45E-07
RBPMS-AS1	-1.19701	0.645031	0.281348	1.94E-15
RC3H1-DT	-1.06739	0.600824	0.286703	4.89E-07
RCN3	1.011428	0.614726	1.239229	0.000111
RDH16	2.100338	0.099621	0.427186	4.37E-11
RECK	-1.24784	0.283786	0.119496	5.93E-11
RECQL4	1.162016	1.552934	3.475	8.23E-15
RERGL	-3.40459	0.215274	0.020329	3.60E-16
RFC4	1.593498	0.664603	2.005639	1.23E-14
RGMB-AS1	-1.26304	0.534035	0.222514	5.07E-10
RGN	-1.8201	0.245617	0.069559	4.05E-11
RGS11	-1.15778	0.594409	0.266416	2.27E-10
RGS4	1.748231	0.358849	1.205541	1.04E-05
RHCG	-2.03511	21.13832	5.157521	0.027487
RHOJ	-1.27419	0.317465	0.131259	5.71E-11
RHOU	-1.01919	2.510609	1.238716	1.66E-08
RIBC1	-1.53411	0.477698	0.164945	5.95E-07
RIC3	-1.61127	0.384042	0.1257	1.08E-14
RIMS3	1.040306	0.141389	0.290789	0.010765
RMND5B	-1.12325	2.633359	1.208865	6.14E-13
RN7SKP105	2.341251	0.104295	0.528504	4.29E-10
RN7SKP106	3.517935	0.136359	1.562025	4.69E-16
RN7SKP234	-1.05193	0.742881	0.358309	1.01E-09
RN7SKP24	-3.73099	0.940991	0.070867	4.63E-07
RN7SKP253	-1.24233	2.516577	1.06373	3.10E-11
RN7SKP32	2.59363	0.205035	1.237622	2.63E-06

RN7SKP40	-1.38747	0.822851	0.314521	7.51E-08
RN7SKP5	-1.09255	0.148922	0.069834	0.008874
RN7SKP57	1.961079	0.260138	1.012856	2.65E-09
RN7SKP58	-1.11399	0.508521	0.234944	0.00152
RN7SKP76	2.065278	0.250344	1.047725	9.86E-08
RN7SL124P	1.034326	0.352522	0.722019	0.001067
RN7SL176P	-1.21833	1.314939	0.565135	2.82E-06
RN7SL209P	-1.53222	0.389135	0.134541	1.83E-06
RN7SL318P	2.640911	0.095869	0.597958	0.000644
RN7SL359P	-1.37429	0.356236	0.137416	6.85E-05
RN7SL375P	1.032087	0.213855	0.437328	0.000237
RN7SL384P	-2.02555	0.50802	0.124776	3.46E-08
RN7SL393P	-1.59961	0.669682	0.220972	5.28E-06
RN7SL399P	3.068617	0.109057	0.914954	1.01E-10
RN7SL411P	-2.10356	0.476822	0.110948	3.09E-12
RN7SL454P	2.886659	0.048464	0.358419	2.36E-09
RN7SL455P	2.278192	0.256496	1.244183	0.00073
RN7SL472P	-1.23034	4.014489	1.711043	0.007602
RN7SL484P	-1.29897	0.211003	0.085755	0.000544
RN7SL494P	-1.06518	0.212647	0.101627	0.005224
RN7SL526P	-2.31274	0.446213	0.089813	1.26E-09
RNASE10	1.368042	0.511019	1.319044	1.27E-08
RNASE4	-1.9992	0.24675	0.061722	1.10E-12
RNASE8	-3.42781	1.484735	0.137967	6.64E-08
RNASEH2A	1.192098	1.00821	2.303606	1.34E-14
RNF125	-1.25068	0.243501	0.102331	3.19E-15
RNF168	1.008088	1.850735	3.722279	4.22E-13
RNF183	-1.24843	0.338343	0.142411	3.39E-08
RNF207-AS1	-1.14253	0.580491	0.262941	7.01E-10
RNF217-AS1	1.318445	0.061781	0.15408	2.29E-06
RNF224	-2.14371	1.794624	0.406117	3.77E-09
ROPN1B	-1.8657	0.15726	0.043151	6.07E-10
ROPN1L	-3.77863	0.344777	0.025122	1.23E-08
RORC	-2.36934	0.798302	0.154498	2.79E-15
RP1	-2.79264	0.957594	0.138202	0.000106
RPE65	4.090133	0.037036	0.630772	1.93E-06
RPL39L	1.969112	0.050923	0.199379	1.66E-08
RPP38-DT	-1.3217	0.360326	0.144154	3.27E-05
RPRM	1.515859	0.782467	2.237614	2.10E-09
RRAGD	-1.39658	0.930881	0.353574	5.49E-15
RRM2	1.322285	3.370869	8.429259	2.80E-12
RSAD2	1.58089	0.986579	2.951395	2.04E-06
RSPH1	-3.94006	0.902152	0.058777	1.76E-09
RSPH1-DT	-1.3432	0.196074	0.077282	1.58E-05

RSPH4A	-2.69544	1.01609	0.156864	3.97E-06
RSPH9	-1.1477	0.239701	0.108188	1.06E-07
RSPO1	-2.06555	0.237167	0.056658	6.11E-16
RUNDC3A	1.258429	0.107683	0.257614	0.000357
RUNX1T1	-1.20566	0.177019	0.07675	4.90E-11
RXFP4	-1.17949	0.719369	0.317607	5.10E-12
S100A1	-2.22672	6.8168	1.456371	4.21E-11
S100A12	1.999977	2.074979	8.299785	0.000673
S100A2	1.348138	26.49022	67.4397	0.001627
S100A7	2.546175	28.34172	165.5394	1.11E-08
S100A7A	3.131451	3.207643	28.1091	6.36E-11
S100B	-1.40843	1.949205	0.734307	5.84E-08
SAA4	-1.14354	0.148036	0.067008	0.001012
SALL4	2.189628	0.042216	0.192586	3.39E-08
SAPCD1	-1.49551	0.223896	0.079406	5.44E-05
SAPCD2	1.410532	1.031956	2.743304	2.30E-08
SASH1	-1.48496	0.776226	0.277312	1.48E-11
SAXO2	-3.12221	0.949452	0.109042	2.66E-07
SCARA5	-3.00993	0.408796	0.050749	2.40E-16
SCEL	-2.28272	5.100369	1.048179	0.000746
SCEL-AS1	-2.32425	0.97066	0.193819	0.000364
SCGB1A1	-3.77851	3.15575	0.229963	5.09E-11
SCGB1C1	-1.44023	0.15661	0.057712	1.97E-05
SCGB2A1	-2.67904	0.495721	0.077404	6.70E-10
SCGB3A1	-2.69153	734.7261	113.7348	1.96E-10
SCGB3A2	-3.40122	44.5256	4.214445	3.38E-07
SCIN	-2.57944	0.506422	0.084727	2.12E-15
SCN7A	-3.30631	0.255668	0.025845	3.33E-16
SCNN1A	-1.03379	5.680572	2.774544	4.21E-11
SCNN1B	-2.15051	0.465165	0.104771	1.19E-12
SCRG1	-1.01346	0.31381	0.155448	6.63E-08
SDK2	1.360834	0.059989	0.154073	1.36E-07
SDR9C7	1.616783	0.384598	1.179525	0.000581
SDS	1.584503	0.054092	0.162226	5.09E-11
SEC61G	1.002347	3.988298	7.989582	2.04E-06
SELENBP1	-2.54708	5.413885	0.926321	3.66E-16
SEMA3C	1.535525	0.273123	0.791768	1.10E-07
SEMA3G	-1.17629	1.097322	0.485551	1.24E-09
SEPTIN3	1.572124	0.06862	0.204036	7.53E-08
SERPINA3	-1.00033	15.89038	7.943361	0.015048
SERPINB1	-1.22152	53.1774	22.80411	1.38E-05
SERPINB4	1.48992	4.359895	12.24579	0.006985
SERPINB7	2.361473	0.078667	0.404263	1.13E-11
SERPINE1	3.199789	1.563107	14.36221	7.19E-15

SERPINH1	1.922016	4.505508	17.07373	4.02E-16
SESN3	1.021446	2.84425	5.773693	5.31E-08
SEZ6L2	1.12722	0.214493	0.468534	0.003713
SFRP1	-1.40826	1.307593	0.492658	9.32E-11
SFRP4	1.722481	0.115136	0.379954	0.04606
SFRP5	-1.32217	0.22894	0.09156	3.45E-08
SFTPA2	-1.67444	0.662265	0.20748	0.000972
SGK1	1.077656	1.257118	2.653279	4.53E-08
SGO2	1.238489	0.153504	0.362195	4.91E-12
SH2D1B	-2.36307	0.278287	0.054093	1.31E-10
SH2D5	3.404715	0.069271	0.733621	3.02E-13
SH3BGRL2	-2.57871	2.67572	0.447892	1.88E-17
SHCBP1	1.723508	0.143128	0.472662	6.32E-17
SHE	-1.15692	0.53588	0.240325	1.54E-11
SHISA2	1.697249	0.59022	1.913977	0.006412
SHISA3	-3.08538	0.266434	0.03139	6.31E-14
SHISAL1	1.496947	0.068786	0.194146	0.005207
SHMT1	-1.03271	1.487825	0.727237	3.15E-13
SHOX2	1.751419	0.204291	0.687828	3.90E-09
SHROOM3	-1.17175	0.248852	0.110461	9.68E-11
SIDT1	-1.51097	0.268346	0.094156	3.19E-15
SIGLEC12	2.002798	0.127473	0.510881	1.11E-09
SIGLEC6	-1.25618	0.234548	0.098193	7.26E-10
SKA1	1.597312	0.236118	0.714445	9.68E-13
SKA3	1.429428	0.23674	0.637634	3.03E-12
SKP2	1.156689	0.70551	1.572899	1.13E-11
SLAIN1	-1.08673	0.147909	0.06964	2.89E-08
SLAMF9	3.640316	0.055814	0.695964	7.62E-16
SLC10A1	-1.11875	0.192191	0.088503	7.39E-14
SLC10A5	-1.55231	2.278383	0.776845	2.15E-13
SLC11A1	1.390611	0.477697	1.252471	6.07E-10
SLC12A2	-2.17086	5.793642	1.286646	5.78E-07
SLC13A2	-3.01116	0.888784	0.110242	2.44E-10
SLC15A2	-1.41376	1.619609	0.60789	2.25E-13
SLC16A1	2.160297	0.636554	2.845439	1.17E-15
SLC1A1	-1.64101	0.224444	0.071964	6.40E-16
SLC22A17	-1.11554	2.124237	0.980375	7.52E-07
SLC22A4	-1.08971	0.186722	0.087732	0.000137
SLC25A30-AS1	-1.02343	0.14713	0.072379	7.09E-07
SLC25A48-AS1	1.337748	0.187234	0.473246	0.012647
SLC26A10	1.773961	0.226771	0.775539	8.65E-11
SLC26A2	-1.35868	5.241199	2.043751	2.15E-13
SLC29A4	1.096081	0.073642	0.157426	0.002982
SLC2A1	1.819162	3.769651	13.3022	2.55E-13

SLC2A10	-1.04451	0.950005	0.460572	1.64E-09
SLC2A1-DT	1.073905	0.09479	0.199544	7.18E-06
SLC34A2	-1.44873	2.802492	1.026677	2.36E-07
SLC34A3	-1.21026	0.218751	0.094542	4.84E-07
SLC35C1	-1.28504	6.100321	2.503316	1.40E-15
SLC35G1	1.632016	0.397755	1.232823	1.24E-07
SLC37A1	-1.34578	0.514588	0.20246	4.51E-17
SLC38A5	1.539421	0.672255	1.954095	1.19E-06
SLC39A4	1.420012	1.124731	3.009643	1.90E-13
SLC39A6	1.142949	3.09028	6.824328	9.41E-15
SLC3A2	1.236452	1.859001	4.380149	1.68E-14
SLC44A1	1.116389	0.584168	1.266498	1.85E-15
SLC44A3	-1.47313	0.250497	0.090229	1.07E-15
SLC44A4	-2.52324	4.183902	0.727795	2.25E-09
SLC47A2	2.080952	0.063621	0.269171	4.19E-06
SLC52A1	1.210085	0.146923	0.339908	4.96E-09
SLC5A1	-1.49559	0.824325	0.292334	2.92E-07
SLC5A8	-3.19127	0.753469	0.082489	2.65E-11
SLC5A9	-1.74212	0.196808	0.058832	7.19E-15
SLC6A15	1.781166	0.119685	0.411361	0.000492
SLC6A8	1.249867	6.827341	16.23674	6.28E-06
SLC7A11	1.616939	0.365967	1.122507	4.55E-10
SLC7A4	-1.42847	0.788408	0.292914	3.86E-08
SLC7A5	1.809753	2.234267	7.832947	2.36E-11
SLC7A8	1.531471	0.870044	2.515126	2.04E-10
SLIT3	-1.5398	0.155955	0.053638	1.52E-12
SLITRK5	-2.2076	2.127272	0.460541	7.02E-12
SLITRK6	-1.10837	8.516166	3.949952	9.85E-06
SLPI	-2.23005	1237.865	263.8534	7.45E-09
SLURP1	-1.92501	24.91396	6.560809	0.037279
SMAD9	-1.38182	0.357555	0.137206	5.31E-12
SMC2	1.08033	0.922297	1.950216	1.22E-11
SMC4	1.076339	2.944729	6.209484	1.04E-09
SMIM10	-1.00205	1.921009	0.959138	3.66E-10
SMIM22	-1.13478	0.864472	0.393685	3.97E-06
SMIM2-AS1	-1.24372	0.205558	0.086803	1.19E-08
SMIM34	-1.66692	0.251726	0.079275	5.86E-05
SMIM5	-1.38912	2.583087	0.986215	3.22E-11
SMR3A	-3.4101	0.927697	0.08727	2.04E-07
SMS	1.082809	0.605213	1.281935	5.31E-09
SMTN	1.267643	0.608651	1.465437	2.80E-12
SNAI1	1.272843	0.358623	0.866568	9.98E-08
SNAI2	1.569276	6.044524	17.93747	2.72E-14
SNAPC1	1.17858	0.27405	0.620324	4.59E-14

SNED1	-1.14232	0.796542	0.360859	1.00E-11
SNPH	-1.08949	0.290326	0.136432	3.50E-08
SNRPB	1.043188	5.879944	12.11725	3.10E-14
SNTN	-3.79507	0.521138	0.037542	1.63E-05
SNX10	1.475907	0.092257	0.256621	2.45E-10
SNX31	-2.41067	0.246812	0.046417	3.72E-13
SOCS1	1.045468	3.692261	7.620958	8.27E-08
SOD3	-1.86923	3.480734	0.952744	1.98E-13
SOHLH1	2.24537	0.051994	0.246536	9.27E-07
SORBS1	-1.46087	0.223096	0.081045	4.90E-11
SORBS2	-2.65383	0.239015	0.037979	6.38E-18
SORT1	-1.1038	2.308897	1.074306	1.95E-11
SOST	4.793954	0.027042	0.750177	2.04E-10
SOX10	-2.54571	1.816763	0.311144	8.91E-13
SOX11	4.267502	0.067836	1.30649	7.00E-15
SOX12	1.09864	4.640477	9.93771	3.56E-12
SOX4	1.109461	30.57306	65.96597	7.52E-07
SOX8	-1.75236	0.842472	0.250059	7.80E-10
SP5	-1.53345	0.97279	0.33605	3.81E-15
SP9	3.459922	0.031436	0.345912	2.90E-06
SPACA9	-1.28795	0.883533	0.361837	1.71E-08
SPAG17	-1.55326	0.199503	0.067979	1.20E-07
SPAG5	1.523926	0.67901	1.952647	5.75E-15
SPAG6	-3.90386	0.201565	0.013466	1.18E-06
SPAG8	-2.62798	1.292019	0.209011	1.54E-07
SPARC	1.804288	8.946082	31.2448	1.31E-08
SPATA18	-2.21692	0.87191	0.187548	1.12E-15
SPATA6	-1.61209	0.161121	0.052706	2.89E-16
SPATA6L	-1.80749	0.196555	0.056153	8.07E-16
SPC24	1.413373	0.200092	0.532962	1.90E-13
SPC25	1.323064	0.082489	0.206385	2.06E-13
SPDEF	-2.67445	1.292152	0.202407	3.22E-10
SPEF1	-3.07452	0.813016	0.096511	3.37E-06
SPHK1	1.239811	1.239963	2.92839	4.72E-11
SPIB	-1.23309	0.481051	0.204642	0.016266
SPINDOC	1.107129	0.62097	1.337671	1.64E-16
SPINK5	-2.10717	8.834048	2.050393	0.00257
SPINK6	4.266566	0.02787	0.536424	7.62E-16
SPINK7	-1.22881	11.51865	4.914642	0.029541
SPNS2	-1.76665	2.551404	0.749831	3.74E-08
SPP1	3.726797	1.285258	17.01641	6.01E-15
SPRR1B	1.820274	160.1696	565.6361	3.39E-07
SPRR2A	1.15153	145.7528	323.7888	0.000206
SPRR2B	3.487577	0.051073	0.572873	1.77E-08

SPRR2D	2.0366	31.15682	127.8294	4.30E-07
SPRR2E	2.70284	3.768852	24.53834	1.77E-08
SPRR2F	2.378271	4.682003	24.34236	3.38E-07
SPRR2G	4.84489	2.174833	62.50044	2.51E-12
SPRR3	-2.60322	1219.338	200.6675	0.001758
SPRR4	3.291597	0.342151	3.350327	6.81E-10
SPRY4	1.354449	0.700255	1.790548	1.58E-09
SQLE	1.23854	2.099954	4.955041	1.73E-11
SRPX	-1.16867	0.343408	0.152758	4.23E-10
SRRM2-AS1	-1.4556	0.335896	0.122469	8.46E-16
SSBP2	-1.0997	0.160503	0.074893	1.08E-14
SSTR1	-3.55867	0.280146	0.023775	2.66E-18
ST3GAL4	-1.48284	0.865328	0.309601	2.60E-14
ST3GAL6	-1.16482	0.441595	0.19696	1.49E-05
ST6GALNAC1	-2.00213	2.795775	0.69791	1.94E-15
STAC2	-1.77069	0.155191	0.045482	1.72E-06
STAR	1.401643	0.228879	0.604704	0.004603
STAT1	1.085045	5.048958	10.71107	8.38E-10
STATH	-2.8862	141.7462	19.17245	4.08E-10
STC2	2.184557	0.278466	1.265869	4.59E-15
STIL	1.172247	0.231897	0.522609	4.19E-15
STIP1	1.085663	3.975618	8.437653	6.22E-14
STK39	-1.46275	0.438688	0.159156	6.88E-15
STMN1	1.416815	1.837645	4.906427	1.73E-11
STON2	1.205821	0.360052	0.830528	1.11E-08
STRIP2	1.95132	0.084814	0.328	3.24E-14
STRIT1	-2.09585	0.165683	0.038758	0.000327
STT3A-AS1	1.443939	0.13812	0.375774	1.03E-06
STUB1-DT	1.152549	0.137695	0.306105	0.000971
SULF1	1.78341	0.380751	1.310693	2.96E-09
SV2A	1.168688	0.257695	0.579317	2.74E-05
SVEP1	-1.61273	0.472134	0.154378	2.19E-12
SVIP	-1.17286	2.296547	1.018612	1.29E-13
SYBU	-1.24681	0.200863	0.08464	3.77E-09
SYCN	-1.51987	0.424958	0.148191	0.006729
SYCP3	-1.81336	0.896467	0.25507	1.98E-13
SYNE1	-1.30911	0.62043	0.250387	1.01E-12
SYNGR1	-1.34359	0.846463	0.33354	2.03E-15
SYNGR3	1.045713	0.295205	0.609417	0.006523
SYNPO2	-1.19958	0.59031	0.257022	3.75E-11
SYT12	2.230897	0.036454	0.171126	2.85E-06
SYT8	-1.82422	4.555643	1.286482	6.76E-10
SYTL2	-1.62779	0.763168	0.246948	7.20E-09
SYTL4	-1.17988	0.594704	0.262495	1.53E-14

TAAR1	-3.22334	0.706651	0.075663	1.85E-09
TACC3	1.013514	0.866775	1.749865	3.86E-14
TAP1	1.037417	8.582812	17.61665	6.03E-08
TAS2R38	1.479399	0.058577	0.163331	0.000456
TBX18	1.141129	0.151299	0.333696	3.65E-09
TC2N	-1.31484	1.702877	0.684504	2.66E-15
TCAP	-1.20042	7.169015	3.119595	7.57E-06
TCEAL2	-1.8439	2.84488	0.79249	3.55E-12
TCF15	1.949812	0.041896	0.161854	8.19E-05
TCF21	-1.03517	0.197034	0.096144	0.007421
TCHH	4.343587	0.190867	3.875088	1.10E-07
TCHHL1	5.102904	0.028388	0.975587	1.78E-11
TCN1	-2.30609	14.8537	3.003536	3.90E-09
TEAD2	1.029031	0.57142	1.166071	8.55E-13
TEAD4	1.460637	0.070109	0.192961	3.34E-15
TECPR1	-1.14075	1.856908	0.842151	6.40E-13
TEDC2	1.690995	0.2854	0.921497	1.18E-16
TEKT1	-3.31784	0.34077	0.034174	1.63E-06
TEKT2	-3.07955	1.52434	0.180321	6.62E-06
TEKT4	-3.18356	0.56531	0.062221	3.31E-07
TENM2	2.609252	0.030732	0.187526	6.96E-13
TEX13B	2.016443	0.09256	0.374486	1.91E-10
TEX15	2.505084	0.053193	0.30197	0.008923
TF	-2.32263	1.450621	0.289983	2.36E-11
TFCP2L1	-1.07424	2.165685	1.028533	1.38E-06
TFF1	-3.05734	1.748024	0.209989	6.27E-10
TFF3	-2.62603	18.98525	3.075397	3.22E-11
TFPI2	2.630658	0.440378	2.727297	0.001627
TFRC	1.648001	2.332724	7.310737	1.08E-14
TGFBI	2.180344	2.923025	13.24895	4.21E-11
TGFBR3	-1.00535	0.320856	0.159835	3.77E-09
TGM3	-2.44621	14.07667	2.582959	0.012054
THBS2	2.229357	1.510256	7.081968	3.29E-09
THRSP	-1.48187	0.272251	0.097473	2.51E-07
THSD1	1.141734	0.287045	0.633354	7.77E-06
THY1	1.772877	1.931052	6.599074	2.19E-12
TIAM1-AS1	1.390637	0.210914	0.553006	0.000111
TICRR	1.568582	0.235941	0.699833	5.11E-12
TIGD4	-1.48723	0.161332	0.057547	6.50E-07
TIMELESS	1.316825	0.630906	1.571696	5.02E-15
TIMP4	-2.13788	0.491654	0.111711	4.89E-10
TJP3	-3.11059	1.578143	0.182711	4.08E-18
TK1	1.499898	0.882136	2.494881	2.84E-14
TLE2	-1.67531	0.490759	0.153656	1.29E-13

TLR10	-1.01879	0.772428	0.381217	0.022048
TLR2	1.029448	5.668882	11.57156	7.09E-07
TLR3	-1.00789	1.607481	0.799355	1.43E-11
TLR5	-1.04284	0.632148	0.306826	2.00E-14
TLX2	1.797407	0.100112	0.347985	4.55E-10
TLX3	3.052404	0.039423	0.327047	0.000386
TM4SF19	2.914548	0.082199	0.61977	3.24E-14
TM4SF19-AS1	2.112156	0.155885	0.67395	3.86E-12
TM7SF2	-1.00871	6.587828	3.274082	3.74E-08
TMC4	-1.14807	3.088294	1.393526	3.80E-10
TMC5	-2.14754	1.16218	0.2623	3.07E-09
TMEM100	-2.69037	0.493235	0.076414	3.66E-16
TMEM125	-1.69454	4.079271	1.260307	1.52E-12
TMEM132A	1.47754	1.750051	4.873428	4.80E-14
TMEM158	2.356071	0.962281	4.926632	2.32E-15
TMEM184A	-1.20992	4.248749	1.836707	4.18E-07
TMEM190	-1.81742	1.434099	0.406893	0.000632
TMEM210	-2.6788	0.227089	0.035465	5.18E-11
TMEM212	-2.75806	0.263888	0.039009	1.36E-08
TMEM213	-2.7939	0.206448	0.029769	3.07E-10
TMEM220	-1.04871	0.360969	0.174492	4.18E-12
TMEM229A	-1.84861	0.280937	0.078005	7.79E-07
TMEM231	-1.7806	1.106953	0.322193	8.41E-06
TMEM238L	-2.1657	0.287786	0.06414	2.19E-12
TMEM45A	2.224271	0.155	0.724275	1.07E-09
TMEM88B	2.018977	0.095113	0.385491	0.001181
TMEM89	1.45077	0.057709	0.157749	0.002552
TMEM8B	-1.30376	0.387805	0.157088	1.46E-12
TMEM97	1.291584	0.966031	2.364812	9.68E-11
TMPRSS11A	-1.27456	3.682706	1.522252	0.000306
TMPRSS11B	-4.05355	20.0176	1.205516	3.35E-05
TMPRSS2	-2.24371	0.962173	0.203156	4.97E-17
TMPRSS3	-1.12812	0.198944	0.091019	0.000731
TMPRSS5	-1.50847	0.183485	0.064492	5.49E-11
TMSB15A	2.712252	0.058789	0.385269	2.19E-05
TMSB4Y	-1.09648	1.284041	0.600489	1.84E-09
TMTC3	1.076157	1.379256	2.908039	7.72E-14
TNC	1.842539	2.959606	10.61435	9.67E-08
TNFAIP6	1.708238	0.142802	0.466622	1.89E-09
TNFRSF11A	-1.56994	0.418915	0.1411	6.88E-15
TNFRSF11B	1.350565	0.09564	0.243894	3.74E-08
TNFRSF12A	2.186503	2.537102	11.54891	6.16E-11
TNFRSF18	1.072697	1.147237	2.413054	1.45E-07
TNFRSF19	-1.37291	0.561473	0.216791	1.13E-06

TNFRSF9	1.728122	0.058079	0.192413	3.10E-11
TNFSF13	-1.30066	4.60599	1.869756	1.36E-07
TNFSF18	1.548162	0.087055	0.254587	7.45E-05
TNFSF4	1.385555	0.082401	0.215292	4.23E-10
TNNC1	-1.45996	2.583215	0.939007	0.000794
TNNT2	1.195521	0.14026	0.321235	0.00016
TNS2	-1.17011	4.253256	1.890096	2.38E-12
TNXB	-2.7893	4.845897	0.700989	2.76E-16
TONSL	1.214808	0.662018	1.536609	2.49E-14
TOP2A	1.756093	2.665732	9.004366	2.28E-14
TP63	1.528614	0.865566	2.497231	3.42E-12
TPSD1	-1.31963	0.464846	0.186235	1.89E-08
TPX2	1.94955	0.43117	1.665412	3.66E-16
TREM1	1.735005	0.184926	0.615584	1.77E-08
TREM2	2.183098	0.30788	1.39817	5.89E-13
TREX2	2.021035	0.045873	0.186187	9.85E-06
TRIB3	1.227281	0.367228	0.859773	8.27E-08
TRIM31	-2.5203	0.852763	0.148642	1.35E-05
TRIP10	-1.09876	8.838146	4.126682	8.19E-06
TRIP13	1.757368	0.29893	1.010623	4.80E-14
TRMT9B	-1.8885	0.206955	0.055896	5.49E-15
TRNP1	-2.61296	9.236962	1.509903	1.94E-12
TROAP	1.857427	0.637038	2.308376	4.39E-15
TRPA1	1.273105	0.087711	0.211981	6.13E-07
TRPV3	2.731491	0.080495	0.5346	4.40E-14
TRPV6	-1.226	0.342254	0.146314	6.64E-11
TSNAXIP1	-1.79423	0.177035	0.051044	1.18E-05
TSPAN1	-2.19551	12.23676	2.671479	1.85E-07
TSPAN12	-1.15328	0.168394	0.07571	1.04E-10
TSPAN19	-3.9535	0.215584	0.013915	3.49E-09
TSPAN6	-1.40114	9.088016	3.440985	3.83E-15
TSPOAP1	-1.00133	1.000199	0.499638	1.89E-10
TTC16	-2.54851	0.184851	0.031597	9.11E-06
TTC21A	-1.69046	0.528056	0.163606	2.55E-15
TTC22	-1.23706	4.029091	1.709286	0.000153
TTC9	-1.51016	3.138883	1.101974	1.58E-09
TTK	1.692035	0.266103	0.85981	1.04E-13
TTLL10	-1.98188	0.335627	0.084967	1.09E-06
TTYH1	-1.37076	0.605873	0.234284	3.86E-08
TTYH3	1.208869	1.582728	3.658578	6.22E-14
TUBA1C	1.166494	3.151866	7.074855	2.65E-11
TUBB3	2.541384	0.052328	0.304628	1.02E-15
TUSC8	-2.79154	0.301061	0.043483	2.89E-09
TXLNB	-1.05674	0.216684	0.104164	4.56E-07

TYMP	1.343096	25.98407	65.92033	2.89E-08
TYMS	1.108052	1.218496	2.626522	4.72E-10
UBE2C	2.089834	1.731153	7.369504	3.03E-16
UBE2S	1.421119	3.037271	8.133603	4.59E-13
UBE2T	1.796327	0.327294	1.136807	1.40E-14
UBQLN3	-1.87908	0.20576	0.055937	1.60E-10
UBQLNL	-1.27695	0.409718	0.169077	5.93E-11
UBXN10	-3.1022	1.974325	0.229912	5.65E-10
UCHL1	3.111565	0.416146	3.596831	2.33E-09
UCN2	2.427881	0.70543	3.795936	1.91E-14
UGT1A7	-1.10144	0.338422	0.157721	8.95E-07
ULBP1	3.071571	0.05568	0.468093	4.05E-11
ULBP2	1.903891	0.411614	1.540348	1.46E-12
ULBP3	1.263344	0.230756	0.553934	5.88E-09
UPK1A	-1.97127	0.308322	0.078631	0.001354
UPK3A	-3.31635	0.248379	0.024934	5.21E-08
UPK3BL1	-1.70453	1.211501	0.371714	0.047944
UPP1	1.003947	1.499313	3.006841	2.42E-05
USB1	1.118297	0.785746	1.705781	6.58E-15
USP18	1.281782	0.291191	0.708	1.95E-08
VCAN	1.468472	1.339127	3.705747	6.80E-06
VCX	1.002107	0.264432	0.529637	0.007595
VGf	1.159592	0.173158	0.386824	2.93E-06
VILL	-1.44	1.497649	0.551983	5.46E-14
VMO1	-1.18555	2.967904	1.304856	0.018117
VNN3P	-1.09047	0.842004	0.395413	0.012249
VPREB3	-1.02206	0.626707	0.308599	0.005392
VRK1	1.063371	0.108044	0.225792	1.79E-12
VSIG10L	-1.60127	6.728404	2.217595	0.00018
VSIG2	-2.68837	4.127448	0.640325	1.58E-18
VSNL1	1.235128	0.189626	0.446383	2.02E-08
VSTM2L	-1.67745	0.222049	0.06942	2.35E-06
VTCN1	-1.34886	0.369721	0.145153	6.11E-06
VWA3A	-3.86196	0.250361	0.017219	8.81E-09
VWA7	-1.40303	0.529852	0.200356	0.001936
WDHD1	1.559624	0.156173	0.460363	2.55E-15
WDR31	-1.04677	0.345699	0.167336	2.19E-12
WDR38	-2.76008	1.65288	0.243991	1.21E-05
WDR53	1.301964	0.41561	1.024746	2.78E-17
WDR62	1.455953	0.116732	0.32024	1.75E-14
WDR72	1.092991	0.124331	0.265217	7.77E-08
WDR76	1.096575	0.270249	0.577918	6.39E-11
WDR86-AS1	-2.72774	0.798928	0.120608	4.13E-11
WFDC12	3.47606	0.88714	9.871667	4.07E-08

WFDC2	-2.65582	19.93486	3.16324	5.49E-11
WFDC5	2.627185	0.380946	2.35356	2.17E-09
WFDC6	-4.34999	0.332628	0.016311	1.46E-08
WNK4	-1.09339	0.315307	0.147771	6.63E-08
WNT10A	1.231364	0.426268	1.000831	0.008839
WNT7B	1.204971	0.393997	0.908292	1.13E-07
XBP1	-1.01126	99.21073	49.21981	0.000168
XCL1	2.158324	0.150422	0.671477	1.71E-17
XCL2	1.313691	0.1887	0.469063	5.65E-10
XIRP1	1.17635	0.548991	1.240743	0.001973
XRCC2	1.834056	0.123201	0.439258	5.71E-14
YEATS2	1.301882	0.51383	1.26685	3.49E-16
ZBED9	1.242392	0.107514	0.254367	0.000327
ZBTB16	-2.43939	0.220568	0.040664	5.68E-09
ZFP92	1.334144	0.117334	0.295831	3.50E-08
ZG16B	-3.40833	80.34524	7.567485	8.98E-11
ZIC2	3.338203	0.168456	1.70367	1.60E-13
ZIC5	3.498283	0.057684	0.651838	4.32E-15
ZMAT1	-1.69205	0.373736	0.115667	7.19E-15
ZMYND10	-3.07821	2.870912	0.339927	2.71E-08
ZNF135	-1.51706	0.484634	0.16933	8.21E-13
ZNF185	-1.16386	4.673798	2.085999	0.01757
ZNF367	1.316382	0.211799	0.527466	1.37E-11
ZNF396	-1.12421	0.413575	0.189729	4.18E-09
ZNF415	-1.11746	0.283337	0.130591	8.02E-11
ZNF418	-1.17686	0.490649	0.217021	3.16E-12
ZNF429	-1.03156	0.257521	0.125975	2.65E-11
ZNF469	1.802857	0.958439	3.344095	5.49E-09
ZNF471	-1.56137	0.572478	0.193972	5.96E-14
ZNF474	-1.70866	0.21441	0.065597	0.037022
ZNF483	-1.10211	0.308765	0.143833	1.00E-11
ZNF582	-1.17648	0.184861	0.081788	1.47E-13
ZNF582-DT	-1.27516	0.18424	0.076124	2.11E-12
ZNF608	-1.13486	0.369148	0.168103	7.90E-12
ZNF626	-1.49626	0.310992	0.110238	5.49E-15
ZNF648	-2.17751	0.190443	0.042099	1.88E-09
ZNF667-AS1	-1.46813	0.202104	0.07305	6.48E-12
ZNF677	-1.52332	0.314771	0.109504	3.38E-14
ZNF717	-1.10786	0.358619	0.166393	3.28E-13
ZNF835	-1.92464	0.159443	0.041998	1.47E-14
ZNF844	-1.28845	1.907544	0.780932	2.28E-14
ZNF880	-1.10857	0.754795	0.350038	1.96E-10
ZSCAN18	-1.46196	0.713351	0.258946	4.03E-14
ZWILCH	1.192249	0.331469	0.757436	9.41E-15

ZWINT	1.29708	2.801922	6.885193	3.71E-12
ZYG11A	1.626898	0.054612	0.168669	5.93E-11
