

Supporting Information

Knockout and restoration reveal differential functional roles of PPAR γ 1 and PPAR γ 2 in chicken adipogenesis

Yang Jing,^{†,‡,§,⊥} Fang Mu,^{†,‡,§,⊥} Xiaoxu Xing,^{†,‡,§} Jiaxin Huang,^{†,‡,§} Ming Lou,^{†,‡,§}
Haidong Xu,^{†,‡,§} Bolin Ning,^{†,‡,§} Yuqi Lou,^{†,‡,§} Zhihui Gao,^{†,‡,§} Haoyu Luo,^{†,‡,§} Xiaohong
Yan,^{†,‡,§} Hui Li,^{†,‡,§} and Ning Wang^{*,†,‡,§}

[†]College of Animal Science and Technology, Northeast Agricultural University, Harbin
150030, China.

[‡]Key Laboratory of Chicken Genetics and Breeding, Ministry of Agriculture and Rural
Affairs, Harbin 150030, China

[§]Key Laboratory of Animal Genetics, Breeding and Reproduction, Education
Department of Heilongjiang Province, Harbin 150030, China

[⊥]These authors have contributed equally to this work

*Corresponding author: Ning Wang (wangning@neau.edu.cn)

Table of Contents

Table S1.....	1
Table S2.....	23
Table S3.....	25
Table S4.....	44
Figure S1.....	45

Table S1. The list of differentially expressed genes (DEGs) between the PPAR γ ^{-/-} cells transduced with LV-control and LV-PPAR γ 1

Gene_Id	BaseMean	BaseMean Control	BaseMean PPARG1	Fold Change	log2Fold Change	pValue	qValue	Regulation
A2M	9.387	3.543	15.232	4.3	2.104	2.07E-03	1.41E-02	Up
AACS	2435.952	1569.366	3302.538	2.104	1.073	2.09E-40	7.38E-38	Up
AADAC	43.99	61.36	26.62	0.434	-1.205	1.68E-04	1.67E-03	Down
ABCA1	28.101	17.368	38.835	2.236	1.161	1.65E-03	1.17E-02	Up
ABCA13	13.686	8.126	19.245	2.368	1.244	2.26E-02	9.75E-02	Up
ABCC3	51.593	82.603	20.582	0.249	-2.005	7.08E-11	2.49E-09	Down
ABLM1	36.743	13.688	59.798	4.369	2.127	5.41E-10	1.69E-08	Up
ABTB2	72.07	44.863	99.276	2.213	1.146	8.97E-07	1.58E-05	Up
ACKR3	485.495	628.244	342.745	0.546	-0.874	1.82E-16	1.15E-14	Down
ACOT13	191.694	253.961	129.427	0.51	-0.972	1.99E-07	4.06E-06	Down
ACPP	5.024	1.01	9.037	8.945	3.161	3.37E-03	2.13E-02	Up
ACSBG2	545.444	255.117	835.77	3.276	1.712	7.26E-58	5.98E-55	Up
ACSF2	32.753	23.463	42.043	1.792	0.841	1.28E-02	6.22E-02	Up
ACSS2	1437.416	1859.076	1015.757	0.546	-0.872	6.26E-27	8.52E-25	Down
ACTN1	30384.839	22855.242	37914.437	1.659	0.73	1.43E-28	2.19E-26	Up
ADAM19	291.994	232.055	351.932	1.517	0.601	1.72E-06	2.80E-05	Up
ADAM8	3350.971	2642.935	4059.007	1.536	0.619	5.66E-15	3.11E-13	Up
ADAMTS14	20.262	27.72	12.804	0.462	-1.114	9.67E-03	4.97E-02	Down
ADAMTS15	2.528	0	5.056	Inf	Inf	5.98E-03	3.37E-02	Up
ADAMTS17	21.466	29.404	13.529	0.46	-1.12	7.24E-03	3.92E-02	Down
ADAMTS3	67.506	34.963	100.048	2.862	1.517	4.08E-10	1.30E-08	Up
ADAMTS5	1062.463	1356.077	768.848	0.567	-0.819	3.42E-11	1.25E-09	Down
ADAMTSL1	55.34	72.102	38.579	0.535	-0.902	1.66E-03	1.17E-02	Down
ADAMTSL2	14409.096	19256.872	9561.32	0.497	-1.01	8.84E-27	1.17E-24	Down
ADARB2	2.537	0.328	4.745	14.454	3.853	3.63E-02	1.40E-01	Up
ADCY2	322.333	214.223	430.443	2.009	1.007	2.98E-10	9.68E-09	Up
ADCY7	19.817	10.682	28.953	2.71	1.438	1.11E-03	8.38E-03	Up
ADD2	43.568	34.13	53.005	1.553	0.635	3.12E-02	1.25E-01	Up
ADGRD2	40.016	20.329	59.704	2.937	1.554	2.46E-06	3.91E-05	Up
ADGRG1	1625.867	1150.314	2101.421	1.827	0.869	2.78E-11	1.04E-09	Up
ADGRL3	484.361	364.059	604.663	1.661	0.732	4.58E-12	1.88E-10	Up
ADIPOQ	234.418	387.8	81.036	0.209	-2.259	1.23E-52	7.27E-50	Down
ADM	804.675	1186.963	422.386	0.356	-1.491	5.09E-56	3.59E-53	Down
ADORA2A	72.97	44.94	101	2.247	1.168	4.83E-07	9.04E-06	Up
ADRA2A	8.705	3.218	14.192	4.41	2.141	2.85E-03	1.85E-02	Up
AFF2	212.731	167.53	257.932	1.54	0.623	1.12E-04	1.16E-03	Up
AKAP12	245.686	154.69	336.683	2.177	1.122	2.97E-16	1.84E-14	Up
AKAP6	12.931	5.317	20.545	3.864	1.95	6.29E-04	5.17E-03	Up
AKR1B10L2	4836.054	5864.783	3807.326	0.649	-0.623	6.66E-19	5.01E-17	Down
ALCAM	40.655	29.28	52.031	1.777	0.829	6.85E-03	3.75E-02	Up
ALDH18A1	7080.371	8632.211	5528.531	0.64	-0.643	4.57E-21	3.99E-19	Down
ALKBH4	38.724	52.085	25.363	0.487	-1.038	1.02E-03	7.77E-03	Down
ALOX5	205.083	247.296	162.869	0.659	-0.603	2.93E-05	3.53E-04	Down
ALS2CL	566.916	797.262	336.569	0.422	-1.244	4.77E-24	5.16E-22	Down
AMER3	39.873	27.002	52.744	1.953	0.966	4.17E-03	2.51E-02	Up
AMHR2	60.332	80.823	39.841	0.493	-1.021	9.15E-03	4.74E-02	Down
AMOTL2	3270.558	2610.245	3930.872	1.506	0.591	2.64E-08	6.17E-07	Up
ANGPT1	78.072	46.737	109.407	2.341	1.227	1.37E-06	2.29E-05	Up
ANGPTL4	4810.022	6603.274	3016.77	0.457	-1.13	6.31E-55	4.25E-52	Down
ANK3	22.448	9.891	35.004	3.539	1.823	1.53E-04	1.53E-03	Up

ANKRD9	94.088	118.529	69.646	0.588	-0.767	1.46E-04	1.47E-03	Down
ANKS1B	17.163	11.5	22.826	1.985	0.989	3.26E-02	1.29E-01	Up
ANKS4B	14.96	21.324	8.596	0.403	-1.311	1.00E-02	5.12E-02	Down
ANO1	8.349	0.709	15.988	22.543	4.495	1.67E-06	2.75E-05	Up
AOC3	673.76	506.343	841.178	1.661	0.732	2.65E-14	1.38E-12	Up
AP3B2	32.337	18.565	46.11	2.484	1.312	1.63E-04	1.62E-03	Up
APOLD1	244.018	107.844	380.193	3.525	1.818	4.21E-37	1.27E-34	Up
AQP1	1225.373	584.876	1865.871	3.19	1.674	1.12E-50	5.94E-48	Up
AR	5594.232	6904.121	4284.343	0.621	-0.688	6.77E-16	4.00E-14	Down
ARAP3	14.221	5.694	22.747	3.995	1.998	2.39E-04	2.25E-03	Up
ARHGAP18	2.803	0	5.607	Inf	Inf	3.10E-03	1.98E-02	Up
ARHGAP40	11.22	18.664	3.776	0.202	-2.305	2.50E-04	2.35E-03	Down
ARHGEF16	17.238	10.354	24.122	2.33	1.22	8.50E-03	4.46E-02	Up
ARMC2	39.292	31.062	47.522	1.53	0.613	4.22E-02	1.58E-01	Up
ARRDC3	569.16	683.783	454.538	0.665	-0.589	8.70E-05	9.25E-04	Down
ARRDC4	133.143	92.189	174.098	1.888	0.917	2.40E-07	4.80E-06	Up
ARSE	3.954	6.628	1.279	0.193	-2.373	3.01E-02	1.21E-01	Down
ASB9	143.801	90.96	196.642	2.162	1.112	7.96E-11	2.79E-09	Up
ASL2	425.582	549.909	301.255	0.548	-0.868	7.61E-09	1.94E-07	Down
ASPHD2	252.333	343.732	160.934	0.468	-1.095	4.41E-10	1.40E-08	Down
ASPN	12.039	1.038	23.041	22.208	4.473	6.41E-09	1.66E-07	Up
ASTN2	8.742	1.364	16.12	11.818	3.563	3.20E-04	2.89E-03	Up
ATCAY	25.882	15.262	36.501	2.392	1.258	9.26E-04	7.17E-03	Up
ATF3	820.537	1007.51	633.564	0.629	-0.669	2.11E-08	5.01E-07	Down
ATOH8	1521.416	1130.719	1912.112	1.691	0.758	1.37E-16	8.88E-15	Up
ATP10D	104.185	82.079	126.291	1.539	0.622	1.49E-03	1.07E-02	Up
ATP8A2	10.311	5.416	15.205	2.807	1.489	1.53E-02	7.22E-02	Up
ATRNL1	1707.4	2150.034	1264.765	0.588	-0.765	2.76E-22	2.62E-20	Down
AVD	214.707	331.924	97.489	0.294	-1.768	1.62E-32	3.64E-30	Down
AvBD12	40.895	67.259	14.531	0.216	-2.211	7.97E-12	3.16E-10	Down
B4GALNT4	394.618	284.223	505.014	1.777	0.829	1.77E-12	7.65E-11	Up
B4GALT5	4037.575	4871.574	3203.575	0.658	-0.605	1.27E-17	8.80E-16	Down
BARD1	299.983	234.144	365.822	1.562	0.644	2.87E-07	5.63E-06	Up
BCAS1	7.99	4.174	11.805	2.829	1.5	4.43E-02	1.63E-01	Up
BCHE	65.02	20.479	109.561	5.35	2.42	1.95E-19	1.56E-17	Up
BCL2L10	204.845	141.524	268.167	1.895	0.922	1.86E-07	3.82E-06	Up
BCL2L14	8.641	1.743	15.539	8.915	3.156	6.44E-05	7.11E-04	Up
BDKRB1	346.114	250.695	441.532	1.761	0.817	1.10E-11	4.27E-10	Up
BDKRB2	251.567	150.323	352.811	2.347	1.231	2.50E-19	2.00E-17	Up
BEND4	48.872	30.642	67.103	2.19	1.131	6.44E-05	7.11E-04	Up
BHLHE22	51.429	29.766	73.092	2.456	1.296	1.32E-03	9.73E-03	Up
BICDL1	26.353	17.148	35.557	2.073	1.052	6.10E-03	3.43E-02	Up
BLM	296.73	220.052	373.407	1.697	0.763	4.91E-08	1.11E-06	Up
BMF	188.248	241.841	134.656	0.557	-0.845	1.53E-08	3.71E-07	Down
BMP2	322.15	202.823	441.477	2.177	1.122	1.56E-13	7.59E-12	Up
BORCS6	783.453	1002.342	564.565	0.563	-0.828	4.96E-19	3.83E-17	Down
BRCA1	470.678	364.251	577.106	1.584	0.664	3.72E-06	5.71E-05	Up
BRCA2	174.672	118.79	230.554	1.941	0.957	6.14E-10	1.90E-08	Up
BTBD6	641.272	489.309	793.235	1.621	0.697	6.21E-13	2.89E-11	Up
BTK	57.117	35.206	79.027	2.245	1.167	6.54E-06	9.39E-05	Up
BZFP1	74.578	89.768	59.388	0.662	-0.596	7.42E-03	4.00E-02	Down
C12H3orf18	232.669	299.475	165.862	0.554	-0.852	5.71E-10	1.78E-08	Down
C14H16orf45	7.19	12.431	1.95	0.157	-2.672	9.24E-04	7.16E-03	Down
C14orf132	6.546	2.153	10.939	5.08	2.345	5.54E-03	3.17E-02	Up

C15orf39	501.07	644.836	357.303	0.554	-0.852	1.35E-09	3.96E-08	Down
C1R	1854.031	2538.437	1169.625	0.461	-1.118	3.82E-46	1.71E-43	Down
C33H11orf95	135.73	169.358	102.103	0.603	-0.73	1.77E-05	2.26E-04	Down
C4H2orf81	28.871	40.608	17.134	0.422	-1.245	5.97E-04	4.96E-03	Down
C5H11ORF9	68.535	40.72	96.349	2.366	1.243	2.20E-07	4.44E-06	Up
C5H14orf79	111.193	79.033	143.353	1.814	0.859	5.99E-06	8.70E-05	Up
C5H15ORF62	90.731	72.497	108.964	1.503	0.588	3.85E-03	2.36E-02	Up
C5orf49	15.383	4.885	25.88	5.298	2.405	1.01E-05	1.38E-04	Up
C6orf58	133.526	29.028	238.024	8.2	3.036	9.97E-51	5.47E-48	Up
C7	256.553	412.709	100.397	0.243	-2.039	9.00E-48	4.17E-45	Down
CA3B	157.635	54.821	260.448	4.751	2.248	4.90E-37	1.43E-34	Up
CA6	57.934	40.959	74.908	1.829	0.871	7.33E-04	5.86E-03	Up
CABP1	1.882	0	3.763	Inf	Inf	4.78E-02	1.72E-01	Up
CACNA1D	24.024	12.679	35.368	2.789	1.48	2.76E-04	2.55E-03	Up
CACNA2D2	151.74	182.372	121.108	0.664	-0.591	2.55E-03	1.68E-02	Down
CACNG7	31.368	20.773	41.964	2.02	1.014	3.43E-03	2.15E-02	Up
CADM1	246.514	298.247	194.781	0.653	-0.615	6.00E-06	8.70E-05	Down
CADPS	73.701	48.509	98.893	2.039	1.028	9.48E-06	1.31E-04	Up
CALR3	63.236	77.47	49.002	0.633	-0.661	6.89E-03	3.77E-02	Down
CAMK1D	125.128	69.287	180.97	2.612	1.385	2.79E-14	1.45E-12	Up
CAPN14	99.287	32.417	166.156	5.126	2.358	9.03E-28	1.30E-25	Up
CAPN5	66.675	35.335	98.015	2.774	1.472	2.10E-09	5.98E-08	Up
CAPN6	1434.745	2029.863	839.628	0.414	-1.274	6.80E-54	4.39E-51	Down
CARD11	6.659	1.418	11.9	8.389	3.069	6.62E-04	5.40E-03	Up
CARD9	61.325	47.578	75.073	1.578	0.658	6.69E-03	3.68E-02	Up
CASP3	1144.318	1449.072	839.565	0.579	-0.787	9.20E-19	6.85E-17	Down
CAT	123.83	72.351	175.31	2.423	1.277	4.14E-08	9.43E-07	Up
CBFA2T3	563.544	703.552	423.536	0.602	-0.732	7.49E-10	2.29E-08	Down
CCDC13	99.299	120.48	78.118	0.648	-0.625	1.78E-03	1.25E-02	Down
CCDC170	8.201	1.667	14.735	8.84	3.144	2.26E-04	2.16E-03	Up
CCDC27	75.157	93.032	57.282	0.616	-0.7	1.80E-03	1.26E-02	Down
CCDC3	57.436	95.154	19.717	0.207	-2.271	1.52E-16	9.75E-15	Down
CCDC85A	24.974	42.095	7.853	0.187	-2.422	2.57E-08	6.02E-07	Down
CCNE1	105.011	79.362	130.66	1.646	0.719	2.18E-04	2.09E-03	Up
CCNE2	47.571	26.359	68.783	2.609	1.384	1.44E-05	1.88E-04	Up
CD200R1	46.08	15.614	76.547	4.902	2.293	1.39E-13	6.79E-12	Up
CD200R1L	12.425	5.643	19.206	3.404	1.767	2.96E-03	1.90E-02	Up
CD3D	18.985	12.242	25.727	2.102	1.071	1.94E-02	8.66E-02	Up
CD7	340.006	187.756	492.256	2.622	1.391	2.97E-29	5.00E-27	Up
CD74	24.407	14.39	34.424	2.392	1.258	2.24E-03	1.51E-02	Up
CDC25A	276.193	207.139	345.246	1.667	0.737	1.12E-08	2.78E-07	Up
CDC6	296.856	174.306	419.405	2.406	1.267	6.73E-13	3.12E-11	Up
CDC7	99.155	72.923	125.388	1.719	0.782	8.31E-05	8.90E-04	Up
CDCA7	728.638	452.845	1004.43	2.218	1.149	3.70E-33	8.86E-31	Up
CDH11	777.387	500.779	1053.995	2.105	1.074	1.08E-20	9.15E-19	Up
CDH12	6.088	2.832	9.345	3.3	1.723	4.22E-02	1.58E-01	Up
CDH2	2733.301	1895.16	3571.441	1.885	0.914	8.00E-35	2.12E-32	Up
CDH5	9094.509	5623.238	12565.78	2.235	1.16	2.70E-64	2.86E-61	Up
CDHR4	18.525	12.204	24.847	2.036	1.026	2.03E-02	8.97E-02	Up
CDKN1AL	1998.478	2408.866	1588.09	0.659	-0.601	3.66E-15	2.03E-13	Down
CDKN1B	2073.885	2548.272	1599.498	0.628	-0.672	1.04E-18	7.67E-17	Down
CDT1	528.693	398.18	659.206	1.656	0.727	6.11E-09	1.58E-07	Up
CEBPA	42.518	51.997	33.039	0.635	-0.654	2.78E-02	1.14E-01	Down
CEBPD	2964.588	3700.951	2228.225	0.602	-0.732	8.68E-13	3.97E-11	Down

CELF2	127.238	72.515	181.96	2.509	1.327	2.03E-13	9.77E-12	Up
CELSR1	1172.385	868.72	1476.05	1.699	0.765	9.31E-20	7.54E-18	Up
CENPJ	54.95	39.699	70.201	1.768	0.822	6.03E-03	3.39E-02	Up
CENPO	208.759	153.738	263.78	1.716	0.779	3.18E-06	4.95E-05	Up
CENPP	103.832	81.092	126.572	1.561	0.642	1.07E-03	8.07E-03	Up
CEP135	150.933	115.21	186.655	1.62	0.696	2.23E-05	2.79E-04	Up
CEP152	516.978	339.892	694.065	2.042	1.03	1.81E-12	7.76E-11	Up
CEP350L	27.476	16.412	38.541	2.348	1.232	1.08E-03	8.13E-03	Up
CEP57	106.903	82.587	131.219	1.589	0.668	4.30E-04	3.73E-03	Up
CFAP69	8.493	12.327	4.659	0.378	-1.404	4.20E-02	1.57E-01	Down
CGN	65.164	80.665	49.664	0.616	-0.7	4.49E-03	2.66E-02	Down
CHAC1	2722.935	4133.715	1312.155	0.317	-1.656	1.39E-50	7.12E-48	Down
CHAF1A	521.554	417.128	625.98	1.501	0.586	2.55E-07	5.08E-06	Up
CHEK1	337.454	256.757	418.152	1.629	0.704	7.31E-04	5.86E-03	Up
CHIA	4.184	7.441	0.927	0.125	-3.005	8.68E-03	4.54E-02	Down
CHRNA6	84.341	57.143	111.54	1.952	0.965	9.53E-06	1.31E-04	Up
CHST11	643.673	467.196	820.15	1.755	0.812	6.59E-15	3.59E-13	Up
CHTF8	207.211	144.1	270.322	1.876	0.908	6.92E-09	1.78E-07	Up
CKB	82.053	60.818	103.287	1.698	0.764	3.79E-04	3.34E-03	Up
CKS2	55.65	66.866	44.434	0.665	-0.59	2.26E-02	9.77E-02	Down
CLCNKB	302.945	223.065	382.825	1.716	0.779	4.68E-10	1.48E-08	Up
CLDN11	17.108	10.328	23.887	2.313	1.21	1.10E-02	5.53E-02	Up
CLEC19A	4.247	6.889	1.604	0.233	-2.102	4.76E-02	1.72E-01	Down
CLEC3B	10.751	15.536	5.966	0.384	-1.381	2.20E-02	9.58E-02	Down
CLGN	8.457	2.099	14.815	7.059	2.819	2.93E-04	2.69E-03	Up
CLSPN	267.469	191.474	343.463	1.794	0.843	1.64E-08	3.97E-07	Up
CMBL	33.007	50.672	15.342	0.303	-1.724	6.76E-07	1.22E-05	Down
CMSS1	80.564	57.629	103.499	1.796	0.845	1.47E-02	6.99E-02	Up
CMTM7	22.24	14.382	30.099	2.093	1.065	2.90E-02	1.18E-01	Up
COBL1	85.825	59.746	111.904	1.873	0.905	8.79E-03	4.58E-02	Up
COL10A1	6.524	0.381	12.667	33.251	5.055	2.37E-04	2.23E-03	Up
COL11A1	10.408	3.597	17.219	4.787	2.259	5.39E-04	4.55E-03	Up
COL15A1	546.703	436.386	657.02	1.506	0.59	1.09E-08	2.72E-07	Up
COL17A1	8.627	4.398	12.855	2.923	1.547	3.26E-02	1.29E-01	Up
COL21A1	110.801	84.283	137.319	1.629	0.704	2.14E-04	2.06E-03	Up
COL2A1	38.381	47.418	29.343	0.619	-0.692	2.96E-02	1.20E-01	Down
COL3A1	47048.664	66686.491	27410.837	0.411	-1.283	7.29E-84	1.80E-80	Down
COL4A3BP	763.103	926.336	599.87	0.648	-0.627	1.17E-11	4.51E-10	Down
COL4A6	20.995	13.633	28.357	2.08	1.057	1.42E-02	6.82E-02	Up
COL6A1	20326.98	24747.155	15906.805	0.643	-0.638	5.21E-22	4.86E-20	Down
COL8A1	217.635	350.972	84.299	0.24	-2.058	1.61E-42	6.27E-40	Down
COLEC10	1900.845	1492.667	2309.023	1.547	0.629	2.84E-16	1.76E-14	Up
COMP	105.078	130.479	79.677	0.611	-0.712	5.38E-03	3.10E-02	Down
CORO2B	1160.961	1440.356	881.567	0.612	-0.708	5.23E-17	3.51E-15	Down
CORO6	7.693	3.622	11.764	3.247	1.699	1.94E-02	8.66E-02	Up
CPT1A	1979.295	2548.806	1409.783	0.553	-0.854	1.25E-28	1.93E-26	Down
CREB3L1	2758.338	3375.935	2140.741	0.634	-0.657	2.98E-19	2.35E-17	Down
CRIP1	169.186	105.402	232.969	2.21	1.144	1.94E-08	4.62E-07	Up
CRISPLD1	84.1	25.174	143.027	5.682	2.506	2.65E-26	3.33E-24	Up
CRLF1	254.859	132.152	377.565	2.857	1.515	7.43E-28	1.09E-25	Up
CRMP1	15.964	8.834	23.095	2.614	1.386	5.25E-03	3.04E-02	Up
CSGALNACT1	1362.941	985.325	1740.558	1.766	0.821	2.64E-23	2.68E-21	Up
CSRP2	2381.61	1225.324	3537.897	2.887	1.53	2.25E-88	6.68E-85	Up
CTH	311.36	386.236	236.484	0.612	-0.708	9.71E-09	2.45E-07	Down

CTHRC1	108.854	81.414	136.295	1.674	0.743	3.51E-04	3.13E-03	Up
CTSK	3615.332	4486.724	2743.94	0.612	-0.709	8.69E-23	8.36E-21	Down
CTXN1	4.911	0.709	9.113	12.849	3.684	1.30E-03	9.54E-03	Up
CUBN	774.149	588.862	959.436	1.629	0.704	4.55E-14	2.33E-12	Up
CUX2	115.223	78.615	151.832	1.931	0.95	1.25E-03	9.25E-03	Up
CXCL12	536.546	303.838	769.254	2.532	1.34	2.12E-36	6.05E-34	Up
CXXC5	303.522	365.884	241.16	0.659	-0.601	9.70E-07	1.69E-05	Down
CYP1B1	82.513	63.833	101.193	1.585	0.665	2.51E-03	1.66E-02	Up
CYP2C23a	5.772	9.344	2.2	0.235	-2.087	1.93E-02	8.62E-02	Down
CYP4V2	105.828	72.611	139.045	1.915	0.937	1.17E-06	2.00E-05	Up
CYP51A1	8422.426	6006.266	10838.585	1.805	0.852	8.32E-36	2.33E-33	Up
CYP7B1	3.477	0	6.955	Inf	Inf	5.00E-03	2.91E-02	Up
CYTH4	168.296	111.93	224.661	2.007	1.005	2.81E-10	9.17E-09	Up
DBNDD1	212.791	256.125	169.457	0.662	-0.596	3.12E-05	3.74E-04	Down
DCBLD1	27.253	15.01	39.495	2.631	1.396	2.05E-04	1.99E-03	Up
DCLK1	6.513	2.429	10.597	4.363	2.125	1.20E-02	5.94E-02	Up
DCX	312.515	523.251	101.78	0.195	-2.362	7.46E-71	1.23E-67	Down
DDAH1	9044.706	6980.898	11108.513	1.591	0.67	6.51E-23	6.43E-21	Up
DDIT3	276.042	346.976	205.108	0.591	-0.758	5.22E-06	7.68E-05	Down
DDIT4	3657.795	5296.472	2019.118	0.381	-1.391	1.04E-61	9.60E-59	Down
DDO	22.471	32.868	12.075	0.367	-1.445	5.35E-04	4.52E-03	Down
DDX25	25.477	18.262	32.691	1.79	0.84	2.97E-02	1.20E-01	Up
DGKB	1490.382	973.383	2007.38	2.062	1.044	9.61E-38	2.97E-35	Up
DGKI	31.167	20.078	42.256	2.105	1.073	1.80E-03	1.26E-02	Up
DHDH	44.572	60.118	29.026	0.483	-1.05	3.05E-04	2.78E-03	Down
DHFR	160.117	120.774	199.459	1.652	0.724	8.81E-04	6.88E-03	Up
DIO2	93.491	153.079	33.904	0.221	-2.175	1.37E-23	1.44E-21	Down
DISC1	72.68	54.423	90.938	1.671	0.741	1.25E-03	9.27E-03	Up
DISP1	1338.758	1728.797	948.719	0.549	-0.866	5.25E-26	6.48E-24	Down
DISP3	9.899	5.825	13.974	2.399	1.262	4.01E-02	1.51E-01	Up
DLGAP2	10.259	5.094	15.424	3.028	1.598	1.64E-02	7.65E-02	Up
DMB2	185.281	240.96	129.601	0.538	-0.895	7.47E-08	1.63E-06	Down
DNA2	181.387	119.002	243.772	2.048	1.035	2.45E-11	9.20E-10	Up
DNAH10	17.296	9.891	24.7	2.497	1.32	5.65E-03	3.22E-02	Up
DNAH5L	7.64	1.313	13.966	10.636	3.411	1.06E-04	1.11E-03	Up
DNER	255.755	166.76	344.75	2.067	1.048	5.63E-15	3.11E-13	Up
DOCK10	109.958	78.678	141.239	1.795	0.844	8.33E-06	1.17E-04	Up
DOK2	924.276	1157.255	691.298	0.597	-0.743	5.75E-12	2.34E-10	Down
DOK6	11.468	6.784	16.152	2.381	1.252	3.07E-02	1.23E-01	Up
DOT1L	3091.235	2329.924	3852.546	1.654	0.726	1.92E-23	1.98E-21	Up
DRC7	13.712	6.3	21.125	3.353	1.746	1.49E-03	1.07E-02	Up
DRD4	11.124	5.565	16.683	2.998	1.584	1.06E-02	5.35E-02	Up
DTL	144.825	86.92	202.73	2.332	1.222	5.31E-13	2.49E-11	Up
DTNA	121.456	95.07	147.841	1.555	0.637	4.72E-04	4.05E-03	Up
DUSP1	1772.581	2272.256	1272.907	0.56	-0.836	8.15E-04	6.44E-03	Down
DUSP4	319.421	170.604	468.237	2.745	1.457	5.11E-31	9.97E-29	Up
DUSP6	1410.203	1036.489	1783.918	1.721	0.783	5.56E-22	5.16E-20	Up
DYNC1I1	680.726	530.065	831.388	1.568	0.649	1.63E-11	6.16E-10	Up
DYNLL1	30.84	23.057	38.623	1.675	0.744	3.06E-02	1.23E-01	Up
E2F1	869.385	517.902	1220.867	2.357	1.237	1.35E-29	2.33E-27	Up
E2F7	152.819	98.155	207.484	2.114	1.08	1.14E-10	3.95E-09	Up
EA2F	982.934	778.846	1187.021	1.524	0.608	6.67E-12	2.68E-10	Up
EBF3	1067.774	1408.046	727.501	0.517	-0.953	1.85E-28	2.80E-26	Down
ECE2	534.377	403.556	665.197	1.648	0.721	1.40E-09	4.08E-08	Up

ECSCR	46.738	25.353	68.123	2.687	1.426	2.38E-05	2.94E-04	Up
EDNRA	173.171	125.639	220.702	1.757	0.813	2.63E-07	5.22E-06	Up
EDNRB2	939.907	1239.119	640.695	0.517	-0.952	1.73E-26	2.21E-24	Down
EGFL7	60.057	72.846	47.269	0.649	-0.624	1.05E-02	5.30E-02	Down
ELAVL4	20.129	12.657	27.601	2.181	1.125	9.74E-03	5.00E-02	Up
ELMO3	108.314	85.896	130.732	1.522	0.606	1.33E-03	9.75E-03	Up
ELN	166.458	243.175	89.74	0.369	-1.438	4.21E-19	3.29E-17	Down
EMG1	181.336	134.659	228.012	1.693	0.76	5.23E-07	9.69E-06	Up
EMP1	3180.676	2505.768	3855.584	1.539	0.622	1.04E-17	7.34E-16	Up
ENDOU	6.149	2.427	9.871	4.067	2.024	1.89E-02	8.49E-02	Up
ENDOUL	22.63	15.325	29.934	1.953	0.966	2.05E-02	9.05E-02	Up
ENHO	51.897	33.673	70.122	2.082	1.058	1.09E-04	1.13E-03	Up
ENO2	562.026	743.813	380.239	0.511	-0.968	6.69E-21	5.70E-19	Down
ENPP2	1033.658	1556.139	511.177	0.328	-1.606	5.76E-43	2.37E-40	Down
ENPP6	5.601	9.057	2.145	0.237	-2.078	2.01E-02	8.92E-02	Down
ENTPD1	458.715	615.394	302.036	0.491	-1.027	1.14E-13	5.60E-12	Down
EOGT	21.346	13.686	29.007	2.119	1.084	1.10E-02	5.50E-02	Up
EPB41L4A	3.491	0.682	6.301	9.239	3.208	1.70E-02	7.84E-02	Up
EPGN	12.004	7.034	16.974	2.413	1.271	2.92E-02	1.19E-01	Up
EPHA2	2176.129	1608.287	2743.971	1.706	0.771	3.57E-11	1.30E-09	Up
EPM2A	157.974	116.744	199.204	1.706	0.771	2.10E-06	3.36E-05	Up
EPS8	423.152	297.773	548.532	1.842	0.881	2.96E-15	1.66E-13	Up
ERBB4	8.007	12.888	3.126	0.243	-2.043	5.87E-03	3.32E-02	Down
ERICH3	58.176	74.125	42.227	0.57	-0.812	1.51E-03	1.08E-02	Down
ERNI	8.801	4.778	12.824	2.684	1.424	4.43E-02	1.63E-01	Up
ES1ML2	19.375	6.296	32.454	5.155	2.366	1.90E-05	2.41E-04	Up
ESCO2	162.474	124.202	200.746	1.616	0.693	1.29E-05	1.71E-04	Up
ESRRB	27.333	18.164	36.502	2.01	1.007	7.65E-03	4.10E-02	Up
ETV1	1178.895	842.798	1514.992	1.798	0.846	2.45E-23	2.51E-21	Up
ETV4	1192.285	607.816	1776.755	2.923	1.548	2.62E-57	2.05E-54	Up
EVA1CL	32.486	24.406	40.565	1.662	0.733	3.23E-02	1.28E-01	Up
EV12A	118.876	67.916	169.837	2.501	1.322	1.72E-12	7.49E-11	Up
EXFABP	64.377	121.481	7.272	0.06	-4.062	2.50E-39	8.62E-37	Down
EXO1	407.863	225.543	590.183	2.617	1.388	3.09E-33	7.50E-31	Up
EXOC3L	47.276	28.868	65.684	2.275	1.186	3.29E-05	3.93E-04	Up
EXOC3L1	272.336	209.707	334.966	1.597	0.676	1.85E-07	3.80E-06	Up
EXTL1	22.274	32.035	12.513	0.391	-1.356	9.90E-04	7.57E-03	Down
EYS	16.022	7.845	24.199	3.084	1.625	1.69E-03	1.20E-02	Up
F2RL3	389.244	502.783	275.705	0.548	-0.867	3.00E-14	1.54E-12	Down
FAAH	428.532	316.331	540.733	1.709	0.773	2.43E-12	1.03E-10	Up
FADS1L1	43.048	56.497	29.599	0.524	-0.933	1.19E-03	8.86E-03	Down
FADS2	4365.858	3393.835	5337.88	1.573	0.653	2.09E-20	1.74E-18	Up
FAM129A	1216.535	1602.242	830.828	0.519	-0.947	3.60E-29	5.94E-27	Down
FAM131A	26.247	16.695	35.8	2.144	1.101	4.43E-03	2.63E-02	Up
FAM132A	41.224	23.808	58.641	2.463	1.3	1.48E-05	1.94E-04	Up
FAM155B	130.331	87.246	173.416	1.988	0.991	2.40E-08	5.65E-07	Up
FAM172BP	13.284	18.05	8.518	0.472	-1.084	4.20E-02	1.57E-01	Down
FAM185A	946.175	1189.446	702.903	0.591	-0.759	5.78E-18	4.14E-16	Down
FAM189A2	46.513	36.018	57.007	1.583	0.662	2.34E-02	1.00E-01	Up
FAM198B	3.804	0	7.608	Inf	Inf	3.69E-04	3.26E-03	Up
FAM20C	518.219	655.739	380.699	0.581	-0.784	2.92E-14	1.51E-12	Down
FAM212B	34.595	20.544	48.646	2.368	1.244	3.05E-04	2.78E-03	Up
FAM221A	32.276	19.16	45.392	2.369	1.244	3.07E-04	2.79E-03	Up
FAM26E	23.195	11.944	34.446	2.884	1.528	2.13E-04	2.05E-03	Up

FAM53B	420.485	328.772	512.197	1.558	0.64	7.66E-09	1.95E-07	Up
FAM65C	742.724	908.473	576.975	0.635	-0.655	3.18E-12	1.32E-10	Down
FAM83B	50.705	72.509	28.9	0.399	-1.327	1.33E-06	2.23E-05	Down
FANCB	72.466	55.153	89.78	1.628	0.703	2.81E-02	1.15E-01	Up
FANCC	155.235	113.626	196.843	1.732	0.793	1.32E-06	2.23E-05	Up
FANCD2	207.801	155.585	260.018	1.671	0.741	1.91E-06	3.09E-05	Up
FANCF	103.08	81.142	125.018	1.541	0.624	6.63E-03	3.65E-02	Up
FANCI	395.678	293.714	497.642	1.694	0.761	1.44E-11	5.51E-10	Up
FBLN1	7352.618	9145.047	5560.19	0.608	-0.718	7.17E-26	8.64E-24	Down
FCHSD1	477.023	593.902	360.145	0.606	-0.722	1.00E-11	3.92E-10	Down
FCRL4	101.718	127.934	75.503	0.59	-0.761	8.65E-05	9.22E-04	Down
FDFT1	2270.672	1799.287	2742.057	1.524	0.608	2.70E-15	1.52E-13	Up
FDPS	1840.588	1139.988	2541.188	2.229	1.156	1.06E-08	2.65E-07	Up
FEN1	825.566	613.114	1038.018	1.693	0.76	2.66E-06	4.21E-05	Up
FGD5	290.265	184.377	396.153	2.149	1.103	1.42E-17	9.79E-16	Up
FGF10	16.841	8.556	25.125	2.936	1.554	1.41E-03	1.02E-02	Up
FGF12	6.485	3.292	9.677	2.939	1.555	4.97E-02	1.77E-01	Up
FGF14	56.933	28.513	85.353	2.993	1.582	1.43E-05	1.88E-04	Up
FGF22	7.753	11.781	3.724	0.316	-1.661	3.80E-02	1.45E-01	Down
FGFBP1	155.184	62.663	247.705	3.953	1.983	2.19E-30	3.96E-28	Up
FGFR2	570.661	703.806	437.517	0.622	-0.686	8.82E-12	3.47E-10	Down
FGFR3	53.423	35.982	70.863	1.969	0.978	2.58E-04	2.41E-03	Up
FGL1	789.27	1086.91	491.63	0.452	-1.145	9.03E-15	4.85E-13	Down
FIGLA	7.045	2.81	11.281	4.015	2.005	1.24E-02	6.09E-02	Up
FIGNL1	90.258	70.414	110.103	1.564	0.645	1.61E-03	1.15E-02	Up
FJX1	407.306	316.012	498.601	1.578	0.658	5.09E-06	7.52E-05	Up
FLNB	19707.486	15354.464	24060.507	1.567	0.648	8.18E-23	7.98E-21	Up
FLRT1	144.586	177.199	111.973	0.632	-0.662	7.43E-05	8.08E-04	Down
FLVCR2	2.166	4.332	0	0	-Inf	1.03E-02	5.25E-02	Down
FOS	1131.801	1364.144	899.458	0.659	-0.601	2.12E-12	9.03E-11	Down
FOXO3	950.89	1312.989	588.792	0.448	-1.157	1.97E-38	6.34E-36	Down
FOXP2	16.977	8.446	25.508	3.02	1.595	2.77E-03	1.80E-02	Up
FRMD3	3.124	0.354	5.894	16.662	4.059	9.12E-03	4.73E-02	Up
FRMD4A	353.51	179.217	527.803	2.945	1.558	4.91E-37	1.43E-34	Up
FSBP	139.766	169.455	110.076	0.65	-0.622	2.07E-04	2.00E-03	Down
FZD1	7278.849	8973.325	5584.374	0.622	-0.684	3.11E-12	1.29E-10	Down
G0S2	766.155	1035.598	496.711	0.48	-1.06	3.29E-29	5.47E-27	Down
GAB3	71.002	23.305	118.7	5.093	2.349	2.40E-20	1.99E-18	Up
GADD45B	1496.968	1904.419	1089.518	0.572	-0.806	3.53E-23	3.51E-21	Down
GALNT15	98.201	123.539	72.863	0.59	-0.762	7.23E-04	5.81E-03	Down
GALNT6	2.693	0.354	5.032	14.226	3.83	2.21E-02	9.61E-02	Up
GAP43	92.643	142.706	42.58	0.298	-1.745	2.83E-14	1.47E-12	Down
GAS1	447.31	552.6	342.02	0.619	-0.692	1.66E-10	5.62E-09	Down
GATSL2	939.842	1215.715	663.969	0.546	-0.873	8.57E-23	8.31E-21	Down
GATSL3	579.513	365.798	793.227	2.168	1.117	3.43E-12	1.42E-10	Up
GBE	27.657	19.245	36.068	1.874	0.906	1.63E-02	7.61E-02	Up
GBP7	291.465	354.84	228.091	0.643	-0.638	5.57E-07	1.02E-05	Down
GBX2	92.215	71.103	113.326	1.594	0.672	9.38E-04	7.23E-03	Up
GCH1	226.828	175.424	278.233	1.586	0.665	1.00E-05	1.38E-04	Up
GCNA	166.601	119.473	213.73	1.789	0.839	1.19E-07	2.53E-06	Up
GDF7	136.908	106.379	167.437	1.574	0.654	9.90E-05	1.04E-03	Up
GDPD2	51.032	66.592	35.472	0.533	-0.909	6.84E-04	5.56E-03	Down
GDPD4	18.021	27.514	8.528	0.31	-1.69	3.28E-04	2.95E-03	Down
GFRA1	3289.858	2613.226	3966.49	1.518	0.602	3.79E-08	8.66E-07	Up

GGT5	84.345	38.418	130.273	3.391	1.762	7.76E-15	4.20E-13	Up
GINM1	1134.642	1387.11	882.173	0.636	-0.653	1.18E-11	4.56E-10	Down
GINS2	444.471	294.949	593.993	2.014	1.01	7.19E-15	3.91E-13	Up
GJC1	65.662	42.352	88.972	2.101	1.071	1.32E-05	1.74E-04	Up
GJC2	145.493	108.173	182.813	1.69	0.757	4.98E-06	7.38E-05	Up
GKAP1	249.121	306.347	191.896	0.626	-0.675	4.35E-03	2.60E-02	Down
GLB1L2	61.755	49.316	74.194	1.504	0.589	1.75E-02	8.02E-02	Up
GLI1	36.146	48.341	23.951	0.495	-1.013	1.90E-03	1.32E-02	Down
GLRB	97.213	28.579	165.846	5.803	2.537	1.58E-29	2.69E-27	Up
GLTSCR1L	294.612	356.067	233.158	0.655	-0.611	2.45E-03	1.63E-02	Down
GLYATL3W	137.362	167.488	107.236	0.64	-0.643	2.08E-04	2.01E-03	Down
GMNN	70.306	49.777	90.834	1.825	0.868	1.89E-04	1.85E-03	Up
GNB1L	279.42	204.627	354.214	1.731	0.792	4.33E-09	1.16E-07	Up
GNG4	10.861	5.012	16.71	3.334	1.737	4.35E-03	2.60E-02	Up
GOLM1	1096.717	780.022	1413.412	1.812	0.858	6.42E-21	5.50E-19	Up
GP1BA	28.133	19.979	36.286	1.816	0.861	1.71E-02	7.88E-02	Up
GPAT2	5.589	2.48	8.699	3.508	1.811	4.24E-02	1.58E-01	Up
GPC3	8.466	12.929	4.002	0.31	-1.692	1.53E-02	7.21E-02	Down
GPR1	583.13	389.074	777.186	1.998	0.998	1.09E-15	6.29E-14	Up
GPR146	493.124	676.896	309.352	0.457	-1.13	1.86E-26	2.36E-24	Down
GPR158	16.915	3.49	30.341	8.694	3.12	1.91E-08	4.59E-07	Up
GPR19	21.522	27.703	15.341	0.554	-0.853	3.72E-02	1.42E-01	Down
GPR63	39.735	29.494	49.976	1.694	0.761	1.44E-02	6.87E-02	Up
GPR68	576.82	380.196	773.444	2.034	1.025	1.05E-23	1.11E-21	Up
GPR85	15.231	9.295	21.168	2.277	1.187	1.69E-02	7.82E-02	Up
GPRC5B	95.986	117.618	74.353	0.632	-0.662	8.73E-04	6.82E-03	Down
GRHL2	715.131	562.478	867.784	1.543	0.626	5.27E-11	1.90E-09	Up
GRIA1	29.943	37.704	22.182	0.588	-0.765	2.86E-02	1.17E-01	Down
GRIA2	55.396	37.907	72.885	1.923	0.943	4.47E-03	2.65E-02	Up
GRIA3	22.069	9.186	34.952	3.805	1.928	9.04E-06	1.26E-04	Up
GRID2IP	4.516	7.493	1.539	0.205	-2.284	2.85E-02	1.16E-01	Down
GRM4	51.852	29.434	74.27	2.523	1.335	3.70E-04	3.27E-03	Up
GSG1	34.272	16.211	52.333	3.228	1.691	8.37E-07	1.48E-05	Up
GSTAL3	44.429	32.708	56.149	1.717	0.78	7.69E-03	4.12E-02	Up
GTF2I	1087.398	1347.934	826.863	0.613	-0.705	1.75E-16	1.11E-14	Down
GTPBP2	1191.709	1481.996	901.422	0.608	-0.717	8.54E-18	6.03E-16	Down
GVINP1	647.927	892.691	403.163	0.452	-1.147	3.69E-31	7.50E-29	Down
H2AFJ	93.47	112.606	74.335	0.66	-0.599	4.96E-02	1.77E-01	Down
HAO2	6.198	10.512	1.885	0.179	-2.479	6.37E-03	3.55E-02	Down
HAS2	107.427	60.677	154.176	2.541	1.345	8.06E-12	3.19E-10	Up
HCLS1	19.224	8.806	29.641	3.366	1.751	1.47E-04	1.48E-03	Up
HDX	142.366	106.486	178.246	1.674	0.743	9.41E-06	1.30E-04	Up
HEATR7B2L2	92.776	36.682	148.87	4.058	2.021	2.45E-14	1.28E-12	Up
HEPH	3509.866	4440.792	2578.94	0.581	-0.784	1.18E-27	1.68E-25	Down
HIST1H101	1170.219	1552.579	787.858	0.507	-0.979	5.87E-11	2.10E-09	Down
HIST1H111L	16.095	23.693	8.497	0.359	-1.479	3.33E-03	2.11E-02	Down
HIST1H2A4	61.657	83.399	39.915	0.479	-1.063	1.74E-05	2.23E-04	Down
HIST1H2A4L4	38.488	48.006	28.969	0.603	-0.729	1.73E-02	7.93E-02	Down
HIST1H2B7	19.617	27.854	11.38	0.409	-1.291	2.29E-02	9.87E-02	Down
HIST1H2B7L2	63.485	82.337	44.632	0.542	-0.883	3.31E-04	2.97E-03	Down
HIST1H3A	53.604	69.105	38.103	0.551	-0.859	7.16E-03	3.89E-02	Down
HIST1H3H	7.176	10.655	3.698	0.347	-1.527	4.82E-02	1.73E-01	Down
HISTH1	61.051	73.624	48.477	0.658	-0.603	1.72E-02	7.89E-02	Down
HLA-F10AL3	57.512	74.844	40.181	0.537	-0.897	5.18E-04	4.40E-03	Down

HMGA2	332.865	236.606	429.125	1.814	0.859	1.27E-12	5.64E-11	Up
HMGCR	3938.74	3140.177	4737.304	1.509	0.593	7.32E-17	4.82E-15	Up
HMGCS1	5250.924	3439.286	7062.562	2.053	1.038	2.04E-49	9.74E-47	Up
HORMAD2	19.234	3.894	34.573	8.877	3.15	1.22E-09	3.60E-08	Up
HOXA3	609.248	775.266	443.231	0.572	-0.807	3.17E-16	1.94E-14	Down
HOXA6	169.758	221.506	118.01	0.533	-0.908	1.02E-08	2.58E-07	Down
HOXB5	15.546	24.47	6.623	0.271	-1.885	2.20E-04	2.11E-03	Down
HOXC12	4.727	7.57	1.885	0.249	-2.006	4.45E-02	1.64E-01	Down
HPDL	4.265	1.418	7.112	5.014	2.326	3.06E-02	1.23E-01	Up
HPS5	897.201	1535.381	259.02	0.169	-2.567	1.70E-08	4.10E-07	Down
HS3ST3B1L	86.175	64.43	107.921	1.675	0.744	4.71E-04	4.05E-03	Up
HSD3B1	2.986	5.971	0	0	-Inf	1.37E-03	1.00E-02	Down
HSP90AA1	7487.081	5442.862	9531.3	1.751	0.808	1.68E-32	3.72E-30	Up
HSPA8	16192.203	12797.192	19587.215	1.531	0.614	1.64E-20	1.37E-18	Up
HSPB7	228.769	166.168	291.369	1.753	0.81	5.67E-09	1.49E-07	Up
HTR1B	77.724	48.506	106.943	2.205	1.141	3.27E-07	6.33E-06	Up
HTR2A	176.815	233.042	120.587	0.517	-0.951	7.94E-10	2.42E-08	Down
HTR3A	107.716	134.26	81.172	0.605	-0.726	1.53E-04	1.53E-03	Down
HTR4	44.932	24.159	65.704	2.72	1.443	1.43E-06	2.38E-05	Up
ID1	154.842	86.191	223.493	2.593	1.375	1.64E-16	1.05E-14	Up
ID4	2994.463	3652.54	2336.385	0.64	-0.645	1.66E-18	1.22E-16	Down
IDI1	2501.466	1646.628	3356.304	2.038	1.027	1.41E-23	1.48E-21	Up
IGDCC3	183.162	129.837	236.487	1.821	0.865	1.54E-08	3.74E-07	Up
IGFBP2	46.774	28.061	65.488	2.334	1.223	2.65E-05	3.24E-04	Up
IGFBP5	252.1	183.948	320.252	1.741	0.8	2.44E-09	6.84E-08	Up
IL16	269.46	185.566	353.354	1.904	0.929	1.57E-12	6.85E-11	Up
IL17RE	17.923	23.22	12.626	0.544	-0.879	4.96E-02	1.77E-01	Down
IL1R2	18.977	7.517	30.437	4.049	2.018	1.79E-05	2.29E-04	Up
IL20RA	9.145	14.261	4.03	0.283	-1.823	6.28E-03	3.51E-02	Down
IL4R	1849.356	2246.26	1452.452	0.647	-0.629	5.19E-16	3.10E-14	Down
IL6ST	3430.463	4277.736	2583.191	0.604	-0.728	6.12E-24	6.57E-22	Down
IL8L1	88.628	48.655	128.602	2.643	1.402	4.63E-07	8.70E-06	Up
ILVBL	1324.345	1605.76	1042.93	0.649	-0.623	9.68E-07	1.69E-05	Down
IMPA2	265.984	327.138	204.829	0.626	-0.675	2.04E-07	4.15E-06	Down
ING1	331.022	399.587	262.457	0.657	-0.606	6.85E-04	5.56E-03	Down
INSIG1	2639.604	1589.678	3689.53	2.321	1.215	9.50E-59	8.29E-56	Up
IP6K3	14.235	19.65	8.819	0.449	-1.156	2.70E-02	1.12E-01	Down
IRF5	102.426	126.562	78.289	0.619	-0.693	3.86E-04	3.39E-03	Down
IRS2	62.598	77.599	47.597	0.613	-0.705	3.66E-03	2.27E-02	Down
IRS4	2234.002	2728.627	1739.376	0.637	-0.65	6.55E-18	4.67E-16	Down
ISM1	955.589	1622.93	288.248	0.178	-2.493	1.46E-151	7.19E-148	Down
ITGA1	24.809	15.211	34.406	2.262	1.178	3.55E-03	2.22E-02	Up
ITGA2	9.04	3.974	14.106	3.549	1.828	7.19E-03	3.91E-02	Up
ITGA4	3637.586	2412.561	4862.611	2.016	1.011	8.95E-33	2.07E-30	Up
ITGB4	421.871	325.105	518.637	1.595	0.674	1.35E-09	3.95E-08	Up
ITGB6	8.88	3.742	14.018	3.746	1.905	7.55E-03	4.05E-02	Up
ITIH6	30.752	20.421	41.084	2.012	1.009	4.03E-03	2.45E-02	Up
ITPR3	2167.022	1327.456	3006.588	2.265	1.179	1.18E-52	7.27E-50	Up
JAG1	122.629	89.64	155.618	1.736	0.796	1.54E-05	2.00E-04	Up
JAML	114.976	84.247	145.706	1.73	0.79	1.99E-05	2.51E-04	Up
JARID2	263.28	336.84	189.719	0.563	-0.828	3.46E-10	1.12E-08	Down
JDP2	682.686	842.424	522.947	0.621	-0.688	6.49E-13	3.02E-11	Down
JPH2	58.75	72.743	44.758	0.615	-0.701	1.70E-02	7.83E-02	Down
KCNA6	2.383	0.354	4.412	12.474	3.641	4.00E-02	1.51E-01	Up

KCNE2	94.99	120.955	69.024	0.571	-0.809	3.58E-04	3.18E-03	Down
KCNF1	1.924	0	3.848	Inf	Inf	4.55E-02	1.66E-01	Up
KCNH2	56.276	32.565	79.988	2.456	1.296	7.86E-07	1.40E-05	Up
KCNH7	10.675	6.026	15.325	2.543	1.347	2.82E-02	1.15E-01	Up
KCNK10	21.409	15.551	27.266	1.753	0.81	4.81E-02	1.73E-01	Up
KCNK15	35.875	27.314	44.436	1.627	0.702	2.91E-02	1.18E-01	Up
KCNMB1	174.466	106.996	241.936	2.261	1.177	1.34E-13	6.56E-12	Up
KCNMB2	60.313	37.521	83.106	2.215	1.147	4.68E-06	7.00E-05	Up
KDF1	54.69	67.328	42.053	0.625	-0.679	9.29E-03	4.80E-02	Down
KDR	37.462	19.137	55.786	2.915	1.544	1.94E-06	3.13E-05	Up
KHK	9.73	13.788	5.672	0.411	-1.282	4.30E-02	1.59E-01	Down
KIAA0895L	264.285	209.89	318.681	1.518	0.602	4.02E-06	6.12E-05	Up
KIAA1161	170.825	243.588	98.062	0.403	-1.313	1.96E-16	1.22E-14	Down
KIAA1217	47.166	21.771	72.562	3.333	1.737	3.06E-09	8.36E-08	Up
KIAA1324L	61.773	44.3	79.247	1.789	0.839	2.20E-02	9.58E-02	Up
KIAA1958	17.217	27.688	6.746	0.244	-2.037	2.63E-05	3.22E-04	Down
KIF26A	4270.009	5166.155	3373.864	0.653	-0.615	3.77E-18	2.72E-16	Down
KIRREL3	41.919	26.428	57.411	2.172	1.119	1.64E-03	1.16E-02	Up
KLF8	19.769	6.731	32.808	4.874	2.285	1.09E-06	1.88E-05	Up
KLF9	1092.831	1441.45	744.211	0.516	-0.954	3.26E-25	3.78E-23	Down
KLHL17	253.363	181.949	324.777	1.785	0.836	7.84E-10	2.40E-08	Up
KLHL6	57.267	38.603	75.931	1.967	0.976	1.85E-04	1.82E-03	Up
KRT14	43.344	24	62.688	2.612	1.385	2.30E-04	2.18E-03	Up
KRT19	2.944	0.354	5.535	15.647	3.968	1.26E-02	6.14E-02	Up
KRT23	19.182	9.621	28.743	2.988	1.579	5.00E-04	4.26E-03	Up
KRT7	23246.966	28186.819	18307.114	0.649	-0.623	4.61E-21	4.00E-19	Down
KRT80	107.135	173.87	40.4	0.232	-2.106	6.55E-25	7.53E-23	Down
LACTBL1	19.912	4.174	35.651	8.542	3.095	1.30E-09	3.84E-08	Up
LAD1	21.019	29.55	12.489	0.423	-1.243	3.28E-03	2.08E-02	Down
LAMA2	76.194	40.272	112.116	2.784	1.477	1.64E-10	5.59E-09	Up
LAMC2	11622.493	7946.138	15298.848	1.925	0.945	6.69E-18	4.74E-16	Up
LAPTM5	90.372	60.176	120.569	2.004	1.003	9.45E-05	1.00E-03	Up
LCAT	26.374	19.095	33.654	1.763	0.818	4.13E-02	1.55E-01	Up
LCT	52.705	31.058	74.352	2.394	1.259	1.02E-05	1.40E-04	Up
LEXM	20.886	13.056	28.716	2.199	1.137	8.02E-03	4.25E-02	Up
LGALS2	25.374	17.459	33.29	1.907	0.931	1.71E-02	7.86E-02	Up
LGI3	623.509	757.434	489.583	0.646	-0.63	1.85E-10	6.16E-09	Down
LHFPL4	67.776	53.824	81.727	1.518	0.603	1.02E-02	5.21E-02	Up
LHX8	57.812	74.383	41.242	0.554	-0.851	8.83E-04	6.88E-03	Down
LIF	818.323	412.586	1224.059	2.967	1.569	5.74E-19	4.41E-17	Up
LIMCH1	113.802	61.361	166.243	2.709	1.438	4.44E-12	1.83E-10	Up
LIMK1	310.011	375.399	244.622	0.652	-0.618	5.25E-07	9.72E-06	Down
LINGO2	45.407	73.332	17.482	0.238	-2.069	8.50E-12	3.35E-10	Down
LIPG	2648.936	1006.766	4291.107	4.262	2.092	4.25E-159	3.15E-155	Up
LIPML5	51.132	20.075	82.19	4.094	2.034	1.24E-12	5.55E-11	Up
LMNB1	366.332	281.285	451.379	1.605	0.682	3.31E-09	9.01E-08	Up
LMO2	17.624	9.49	25.757	2.714	1.44	2.30E-03	1.54E-02	Up
LNK1	53.08	64.726	41.435	0.64	-0.644	1.57E-02	7.37E-02	Down
LOC100857622	2073.473	1410.812	2736.134	1.939	0.956	1.36E-06	2.28E-05	Up
LOC100857745	270.873	170.973	370.772	2.169	1.117	2.00E-17	1.37E-15	Up
LOC100858647	1.759	3.517	0	0	-Inf	2.48E-02	1.05E-01	Down
LOC100858796	3079.686	3942.868	2216.505	0.562	-0.831	4.53E-27	6.28E-25	Down
LOC100858869	22.372	10.582	34.161	3.228	1.691	6.48E-05	7.15E-04	Up
LOC100858919	30.688	18.627	42.749	2.295	1.198	1.38E-02	6.67E-02	Up

LOC100859249	321.868	406.787	236.949	0.582	-0.78	2.09E-06	3.36E-05	Down
LOC100859273	1291.554	871.777	1711.332	1.963	0.973	1.81E-31	3.73E-29	Up
LOC101747958	2.16	0	4.321	Inf	Inf	1.25E-02	6.14E-02	Up
LOC101748033	161.468	197.37	125.566	0.636	-0.652	9.17E-04	7.11E-03	Down
LOC101748706	131.506	82.622	180.39	2.183	1.127	1.34E-10	4.61E-09	Up
LOC101749795	33.72	50.905	16.535	0.325	-1.622	2.02E-06	3.25E-05	Down
LOC101750112	823.415	501.034	1145.796	2.287	1.193	6.34E-38	2.00E-35	Up
LOC101750889	14.066	7.247	20.886	2.882	1.527	3.49E-03	2.19E-02	Up
LOC101751749	273.081	216.471	329.691	1.523	0.607	1.99E-03	1.38E-02	Up
LOC101752020	147.344	180.02	114.669	0.637	-0.651	8.82E-05	9.38E-04	Down
LOC101752158	1297.826	875.274	1720.378	1.966	0.975	1.70E-31	3.56E-29	Up
LOC107049018	22.155	13.987	30.324	2.168	1.116	8.06E-03	4.27E-02	Up
LOC107049379	71.486	85.967	57.005	0.663	-0.593	1.06E-02	5.35E-02	Down
LOC107049461	155.555	190.617	120.493	0.632	-0.662	6.10E-05	6.79E-04	Down
LOC107049468	385.097	467.085	303.11	0.649	-0.624	5.88E-08	1.30E-06	Down
LOC107049603	26.302	15.995	36.609	2.289	1.195	4.19E-02	1.57E-01	Up
LOC107049632	283.168	213.148	353.187	1.657	0.729	5.77E-08	1.28E-06	Up
LOC107049860	5.123	1.366	8.88	6.502	2.701	3.65E-02	1.40E-01	Up
LOC107049937	24.311	30.858	17.763	0.576	-0.797	3.94E-02	1.49E-01	Down
LOC107050073	1.703	0	3.407	Inf	Inf	3.50E-02	1.36E-01	Up
LOC107050349	31.317	38.554	24.08	0.625	-0.679	4.37E-02	1.62E-01	Down
LOC107050544	186.569	145.029	228.11	1.573	0.653	1.93E-05	2.45E-04	Up
LOC107050574	33.604	18.492	48.716	2.634	1.397	4.51E-05	5.19E-04	Up
LOC107050614	437.796	527.573	348.02	0.66	-0.6	2.23E-03	1.51E-02	Down
LOC107050879	759.062	989.214	528.909	0.535	-0.903	8.08E-22	7.44E-20	Down
LOC107051217	194.682	143.404	245.959	1.715	0.778	1.06E-04	1.11E-03	Up
LOC107051323	1552.757	1885.187	1220.327	0.647	-0.627	1.61E-10	5.49E-09	Down
LOC107051465	10.04	1.72	18.361	10.678	3.417	5.59E-06	8.18E-05	Up
LOC107051857	132.6	102.569	162.631	1.586	0.665	1.28E-04	1.31E-03	Up
LOC107051858	22.639	33.059	12.219	0.37	-1.436	5.24E-04	4.45E-03	Down
LOC107051973	45.503	32.171	58.834	1.829	0.871	7.61E-03	4.08E-02	Up
LOC107052602	22.42	28.817	16.023	0.556	-0.847	3.43E-02	1.34E-01	Down
LOC107052690	54.001	68.065	39.937	0.587	-0.769	3.73E-03	2.30E-02	Down
LOC107052922	14.539	19.659	9.42	0.479	-1.061	3.52E-02	1.37E-01	Down
LOC107053100	91.071	67.356	114.787	1.704	0.769	2.02E-04	1.97E-03	Up
LOC107053127	18.113	24.625	11.6	0.471	-1.086	3.40E-02	1.33E-01	Down
LOC107054425	2.822	0	5.644	Inf	Inf	3.05E-03	1.95E-02	Up
LOC107055072	72.455	90.176	54.735	0.607	-0.72	1.33E-03	9.76E-03	Down
LOC107055200	3.458	0.328	6.588	20.069	4.327	4.86E-03	2.84E-02	Up
LOC107056538	25.36	33.033	17.687	0.535	-0.901	2.10E-02	9.26E-02	Down
LOC107057394	25.213	34.411	16.016	0.465	-1.103	3.67E-03	2.27E-02	Down
LOC107057415	185.205	146.962	223.447	1.52	0.604	4.89E-05	5.58E-04	Up
LOC112530282	6.718	10.706	2.73	0.255	-1.972	1.70E-02	7.83E-02	Down
LOC112530288	51.02	34.295	67.744	1.975	0.982	3.87E-04	3.39E-03	Up
LOC112530294	15.749	22.806	8.691	0.381	-1.392	5.72E-03	3.25E-02	Down
LOC112530328	19.858	13.165	26.55	2.017	1.012	1.98E-02	8.82E-02	Up
LOC112530490	19.42	11.626	27.214	2.341	1.227	4.71E-03	2.77E-02	Up
LOC112530576	24.208	34.098	14.319	0.42	-1.252	1.74E-03	1.22E-02	Down
LOC112530649	3.604	0.354	6.855	19.379	4.276	3.59E-03	2.24E-02	Up
LOC112530773	10.035	4.99	15.079	3.022	1.595	4.54E-02	1.66E-01	Up
LOC112530942	52493.522	66312.896	38674.148	0.583	-0.778	3.08E-02	1.24E-01	Down
LOC112530970	611.649	760.205	463.094	0.609	-0.715	1.38E-02	6.64E-02	Down
LOC112530996	61.526	73.85	49.203	0.666	-0.586	3.18E-02	1.27E-01	Down
LOC112531022	88.174	108.277	68.071	0.629	-0.67	1.04E-03	7.91E-03	Down

LOC112531359	525.53	634.654	416.406	0.656	-0.608	1.67E-02	7.72E-02	Down
LOC112531454	51.078	63.625	38.531	0.606	-0.724	3.70E-02	1.42E-01	Down
LOC112531805	32.171	43.19	21.152	0.49	-1.03	3.09E-03	1.98E-02	Down
LOC112531810	6.498	10.133	2.863	0.283	-1.824	3.68E-02	1.41E-01	Down
LOC112532065	5.322	1.72	8.925	5.19	2.376	1.34E-02	6.48E-02	Up
LOC112532128	24.784	31.596	17.972	0.569	-0.814	3.57E-02	1.38E-01	Down
LOC112532150	54.41	43.204	65.617	1.519	0.603	2.13E-02	9.34E-02	Up
LOC112532368	83.061	61.751	104.37	1.69	0.757	3.03E-03	1.94E-02	Up
LOC112532382	35.028	48.394	21.663	0.448	-1.16	2.26E-02	9.76E-02	Down
LOC112532387	5.525	8.584	2.466	0.287	-1.799	4.77E-02	1.72E-01	Down
LOC112532559	147.739	178.389	117.09	0.656	-0.607	1.93E-04	1.88E-03	Down
LOC112532873	48.607	65.424	31.789	0.486	-1.041	1.94E-04	1.89E-03	Down
LOC112532874	10.63	2.94	18.319	6.23	2.639	2.00E-02	8.87E-02	Up
LOC112532875	330.667	255.912	405.421	1.584	0.664	5.29E-08	1.19E-06	Up
LOC112532977	3.98	7.31	0.65	0.089	-3.491	3.92E-03	2.40E-02	Down
LOC112533211	8.332	13.258	3.407	0.257	-1.96	5.75E-03	3.26E-02	Down
LOC112533339	7.424	2.454	12.393	5.05	2.336	2.03E-02	8.99E-02	Up
LOC112533459	14.603	8.014	21.193	2.645	1.403	1.56E-02	7.33E-02	Up
LOC112533535	13.171	17.791	8.552	0.481	-1.057	4.90E-02	1.75E-01	Down
LOC112533550	1.591	0	3.181	Inf	Inf	4.76E-02	1.72E-01	Up
LOC112533563	20.397	29.186	11.609	0.398	-1.33	2.23E-03	1.51E-02	Down
LOC112533596	23.939	32.917	14.962	0.455	-1.138	3.73E-03	2.30E-02	Down
LOC415312	98.309	136.339	60.279	0.442	-1.177	5.97E-09	1.55E-07	Down
LOC415787	24.616	17.564	31.669	1.803	0.85	2.97E-02	1.20E-01	Up
LOC417013	30.883	48.282	13.483	0.279	-1.84	2.95E-07	5.76E-06	Down
LOC419409	428.23	530.23	326.23	0.615	-0.701	2.34E-10	7.70E-09	Down
LOC420486	28.095	15.997	40.193	2.513	1.329	3.47E-04	3.10E-03	Up
LOC421502	95.29	9.283	181.298	19.53	4.288	5.72E-46	2.49E-43	Up
LOC422147	61.493	32.127	90.859	2.828	1.5	5.70E-09	1.49E-07	Up
LOC422171	2509.328	1802.303	3216.353	1.785	0.836	8.11E-29	1.28E-26	Up
LOC422894	26.974	34.224	19.724	0.576	-0.795	2.76E-02	1.14E-01	Down
LOC422928	21.524	8.333	34.715	4.166	2.059	2.69E-06	4.26E-05	Up
LOC423462	27.9	20.266	35.534	1.753	0.81	4.90E-02	1.75E-01	Up
LOC424430	92.209	71.333	113.085	1.585	0.665	1.77E-03	1.24E-02	Up
LOC424473	18.651	25.008	12.294	0.492	-1.024	2.17E-02	9.49E-02	Down
LOC424919	37.936	25.037	50.835	2.03	1.022	1.41E-02	6.78E-02	Up
LOC425795	126.188	95.144	157.232	1.653	0.725	4.00E-03	2.43E-02	Up
LOC426385	145.274	95.863	194.685	2.031	1.022	1.58E-09	4.59E-08	Up
LOC428299	34.934	26.142	43.727	1.673	0.742	2.35E-02	1.00E-01	Up
LOC428714	7.179	2.128	12.23	5.748	2.523	6.48E-03	3.58E-02	Up
LOC430433	33.337	24.442	42.231	1.728	0.789	1.69E-02	7.81E-02	Up
LOC769486	4.08	6.888	1.273	0.185	-2.436	3.19E-02	1.27E-01	Down
LOC769726	947.632	1267.347	627.917	0.495	-1.013	1.88E-30	3.44E-28	Down
LOC770165	72.255	86.996	57.513	0.661	-0.597	7.56E-03	4.06E-02	Down
LOC771388	9.603	16.051	3.154	0.196	-2.348	5.75E-04	4.81E-03	Down
LOC771545	206.266	161.422	251.111	1.556	0.637	1.17E-05	1.57E-04	Up
LOC776507	594.765	329.869	859.66	2.606	1.382	3.93E-22	3.71E-20	Up
LOX	1644.203	2121.33	1167.075	0.55	-0.862	6.62E-19	5.01E-17	Down
LOXL1	17337.522	21502.05	13172.993	0.613	-0.707	2.92E-26	3.64E-24	Down
LOXL3	4548.978	5583.87	3514.087	0.629	-0.668	3.50E-21	3.09E-19	Down
LPCAT3	1455.5	1942.921	968.078	0.498	-1.005	5.03E-35	1.36E-32	Down
LRFN3	319.446	389.267	249.624	0.641	-0.641	1.67E-07	3.46E-06	Down
LRP4	73.326	54.551	92.102	1.688	0.756	6.44E-03	3.57E-02	Up
LRP8	191.153	143.862	238.444	1.657	0.729	1.10E-06	1.89E-05	Up

LRRC17	425.993	754.844	97.142	0.129	-2.958	3.71E-124	1.37E-120	Down
LRRC56	34.419	17.388	51.451	2.959	1.565	3.73E-06	5.72E-05	Up
LRRC70	77.646	48.68	106.612	2.19	1.131	2.78E-04	2.57E-03	Up
LRRC71	80.246	103.209	57.282	0.555	-0.849	1.10E-04	1.14E-03	Down
LRRN1	16.276	8.17	24.383	2.984	1.577	1.44E-03	1.05E-02	Up
LSS	3394.2	2379.593	4408.807	1.853	0.89	5.84E-17	3.90E-15	Up
LUM	1880.009	1107.001	2653.017	2.397	1.261	7.32E-42	2.65E-39	Up
LY96	4.303	1.09	7.515	6.893	2.785	1.23E-02	6.06E-02	Up
LYPD6	49.627	75.36	23.894	0.317	-1.657	4.26E-09	1.14E-07	Down
MAFB	746.511	1000.003	493.02	0.493	-1.02	1.98E-27	2.77E-25	Down
MALL	62.611	45.275	79.946	1.766	0.82	7.89E-04	6.26E-03	Up
MAP3K7CL	22.838	6.051	39.624	6.548	2.711	2.41E-09	6.78E-08	Up
MAP3K8	28.039	43.158	12.92	0.299	-1.74	2.80E-06	4.41E-05	Down
MAPK8IP1	109.757	85.424	134.09	1.57	0.65	6.27E-04	5.16E-03	Up
MAPKAPK3	1334.556	1675.344	993.769	0.593	-0.753	4.62E-20	3.77E-18	Down
MARC1	71.553	49.957	93.148	1.865	0.899	1.02E-04	1.07E-03	Up
MARCH8	395.002	484.821	305.183	0.629	-0.668	2.69E-09	7.41E-08	Down
MAT1A	475.156	626.964	323.348	0.516	-0.955	4.80E-19	3.73E-17	Down
MBLAC1	222.823	269.557	176.09	0.653	-0.614	5.67E-05	6.37E-04	Down
MBOAT2	398.644	311.995	485.293	1.555	0.637	2.95E-08	6.83E-07	Up
MCAM	1651.961	1140.468	2163.455	1.897	0.924	4.44E-31	8.78E-29	Up
MCM10	191.414	141.044	241.785	1.714	0.778	2.43E-07	4.85E-06	Up
MCM2	521.272	349.895	692.649	1.98	0.985	2.65E-21	2.35E-19	Up
MCM3	955.569	582.753	1328.384	2.279	1.189	1.68E-24	1.87E-22	Up
MCM4	954.691	666.475	1242.907	1.865	0.899	4.26E-24	4.65E-22	Up
MCM5	1153.904	709.026	1598.782	2.255	1.173	3.04E-12	1.27E-10	Up
MCM6	1785.322	1295.863	2274.782	1.755	0.812	1.49E-23	1.54E-21	Up
MCM9	230.771	154.563	306.978	1.986	0.99	3.59E-09	9.67E-08	Up
MCOLN3	79.616	56.075	103.156	1.84	0.879	6.64E-05	7.30E-04	Up
MDGA1	69.376	39.596	99.156	2.504	1.324	2.97E-08	6.86E-07	Up
MDM2	3164.714	2524.368	3805.06	1.507	0.592	3.30E-16	2.01E-14	Up
MEGF11	12.25	7.636	16.864	2.208	1.143	4.86E-02	1.74E-01	Up
MEX3B	2795.725	3449.003	2142.447	0.621	-0.687	6.80E-13	3.14E-11	Down
MFSD2A	757.768	562.321	953.215	1.695	0.761	3.47E-16	2.11E-14	Up
MGAM	2.352	0	4.703	Inf	Inf	8.60E-03	4.50E-02	Up
MGLL	54.557	86.67	22.444	0.259	-1.949	1.39E-12	6.10E-11	Down
MGP	80.357	103.508	57.206	0.553	-0.856	5.96E-03	3.36E-02	Down
MILR1	14.288	8.592	19.984	2.326	1.218	2.41E-02	1.03E-01	Up
MIOX	31.541	39.329	23.752	0.604	-0.728	3.93E-02	1.49E-01	Down
MKNK1	38.791	50.364	27.218	0.54	-0.888	3.41E-03	2.15E-02	Down
MMP16	636.011	458.472	813.549	1.774	0.827	6.41E-17	4.26E-15	Up
MMP23B	179.425	215.391	143.459	0.666	-0.586	5.81E-04	4.85E-03	Down
MMP7	5.806	0	11.613	Inf	Inf	4.29E-06	6.47E-05	Up
MMS22L	251.122	189.247	312.998	1.654	0.726	5.68E-08	1.27E-06	Up
MND1	41.082	30.016	52.147	1.737	0.797	8.42E-03	4.42E-02	Up
MNX1	214.044	169.542	258.545	1.525	0.609	9.38E-05	9.94E-04	Up
MOB3B	152.709	114.669	190.75	1.663	0.734	9.29E-06	1.29E-04	Up
MOG	8.586	2.402	14.77	6.15	2.621	5.93E-04	4.94E-03	Up
MPP7	4.913	1.743	8.083	4.637	2.213	2.60E-02	1.09E-01	Up
MPZL2	223.735	175.621	271.85	1.548	0.63	5.97E-06	8.68E-05	Up
MRVLDC3	375.891	457.172	294.61	0.644	-0.634	2.71E-08	6.32E-07	Down
MSMO1	5730.036	4066.841	7393.231	1.818	0.862	3.87E-35	1.06E-32	Up
MST1	334.31	404.155	264.465	0.654	-0.612	2.85E-06	4.47E-05	Down
MTBP	145.8	107.454	184.147	1.714	0.777	2.83E-06	4.46E-05	Up

MUC4L	88.334	50.621	126.047	2.49	1.316	5.29E-10	1.66E-08	Up
MUTYH	121.356	88.805	153.907	1.733	0.793	1.24E-03	9.20E-03	Up
MXD4	2206.433	2662.514	1750.352	0.657	-0.605	9.46E-16	5.48E-14	Down
MYB	187.716	119.137	256.294	2.151	1.105	2.32E-13	1.11E-11	Up
MYH11	898.222	1187.911	608.532	0.512	-0.965	1.96E-07	3.98E-06	Down
MYH1E	25.734	7.415	44.054	5.941	2.571	1.33E-09	3.92E-08	Up
MYO3AL	964.072	1404.074	524.069	0.373	-1.422	5.67E-52	3.23E-49	Down
MYO9A	1918.475	1433.494	2403.456	1.677	0.746	4.67E-22	4.38E-20	Up
MYOCD	6.638	2.206	11.069	5.018	2.327	9.41E-03	4.85E-02	Up
MYOM1	1785.295	1305.855	2264.734	1.734	0.794	3.22E-24	3.57E-22	Up
NAALADL2	4.5	1.09	7.909	7.255	2.859	1.71E-02	7.88E-02	Up
NALCN	84.885	42.583	127.188	2.987	1.579	9.03E-13	4.12E-11	Up
NAT	44.129	60.623	27.636	0.456	-1.133	1.04E-04	1.09E-03	Down
NAT10	611.33	488.229	734.431	1.504	0.589	2.57E-09	7.12E-08	Up
NBEA	15.688	5.748	25.627	4.458	2.156	3.59E-05	4.24E-04	Up
NCAPG2	549.95	421.22	678.681	1.611	0.688	1.51E-11	5.76E-10	Up
NCAPH2	1158.25	880.439	1436.061	1.631	0.706	5.39E-06	7.92E-05	Up
NCF4	38.561	28.139	48.983	1.741	0.8	1.18E-02	5.82E-02	Up
NES	6033.255	4232.008	7834.502	1.851	0.888	3.09E-12	1.29E-10	Up
NETO2	59.888	37.423	82.354	2.201	1.138	8.50E-06	1.19E-04	Up
NEURL1B	1199.518	908.414	1490.621	1.641	0.714	2.67E-17	1.81E-15	Up
NFIB	31.658	44.136	19.18	0.435	-1.202	5.58E-04	4.69E-03	Down
NID2	1276.967	1765.956	787.979	0.446	-1.164	1.67E-26	2.16E-24	Down
NIM1KZ	45.517	33.135	57.899	1.747	0.805	1.05E-02	5.34E-02	Up
NKAIN1	204.416	149.13	259.701	1.741	0.8	3.68E-08	8.42E-07	Up
NKD1	71.982	46.788	97.176	2.077	1.054	4.36E-06	6.57E-05	Up
NLGN3	12.601	5.5	19.702	3.582	1.841	1.45E-02	6.91E-02	Up
NLGN4L	7.528	3.871	11.186	2.89	1.531	4.06E-02	1.53E-01	Up
NMNAT2	93.204	37.775	148.634	3.935	1.976	1.80E-16	1.14E-14	Up
NMRK2	52.521	35.887	69.155	1.927	0.946	3.69E-04	3.26E-03	Up
NOG2	96.696	66.017	127.376	1.929	0.948	1.57E-03	1.13E-02	Up
NOL6	221.885	171.355	272.416	1.59	0.669	1.63E-06	2.68E-05	Up
NOP2	519.578	414.33	624.827	1.508	0.593	1.20E-04	1.23E-03	Up
NOX4	26.399	15.667	37.131	2.37	1.245	1.00E-03	7.64E-03	Up
NOXO1	60.931	47.555	74.306	1.563	0.644	8.98E-03	4.66E-02	Up
NPAS3	55.324	67.167	43.48	0.647	-0.627	1.55E-02	7.28E-02	Down
NPM3	803.016	504.643	1101.39	2.183	1.126	1.32E-12	5.82E-11	Up
NPR1	16.771	9.514	24.028	2.526	1.337	5.79E-03	3.28E-02	Up
NPR3	134.521	249.498	19.545	0.078	-3.674	4.48E-67	5.53E-64	Down
NPTX1	20.963	11.886	30.039	2.527	1.338	1.93E-03	1.34E-02	Up
NPTX2	53.611	32.777	74.445	2.271	1.183	1.35E-05	1.78E-04	Up
NPY7R	1.975	3.951	0	0	-Inf	1.58E-02	7.42E-02	Down
NR4A1	48.516	37.392	59.64	1.595	0.674	1.57E-02	7.38E-02	Up
NRARP	734.435	957.791	511.079	0.534	-0.906	4.58E-21	3.99E-19	Down
NRG1	76.563	93.921	59.205	0.63	-0.666	3.12E-03	1.99E-02	Down
NRP1	4377.049	5268.332	3485.766	0.662	-0.596	2.47E-17	1.68E-15	Down
NSDHL	958.536	720.47	1196.603	1.661	0.732	1.34E-16	8.70E-15	Up
NSG1	12.876	4.225	21.527	5.096	2.349	3.74E-03	2.30E-02	Up
NT5M	37.279	28.304	46.253	1.634	0.709	2.90E-02	1.18E-01	Up
NTN4	3255.85	2306.149	4205.552	1.824	0.867	6.88E-33	1.62E-30	Up
NUDT3	387.211	465.591	308.831	0.663	-0.592	1.91E-07	3.92E-06	Down
NUP160	1124.154	883.283	1365.024	1.545	0.628	4.28E-09	1.15E-07	Up
NXPH4	288.091	387.816	188.365	0.486	-1.042	1.30E-12	5.76E-11	Down
OGFRL1	699.286	471.688	926.884	1.965	0.975	1.79E-22	1.71E-20	Up

OLFM1	70.96	52.97	88.95	1.679	0.748	1.26E-03	9.33E-03	Up
OLFML2B	3643.704	4577.492	2709.917	0.592	-0.756	5.56E-26	6.81E-24	Down
ONECUT3	52.515	63.849	41.181	0.645	-0.633	1.58E-02	7.41E-02	Down
OPN3	172.767	113.267	232.267	2.051	1.036	6.56E-11	2.32E-09	Up
ORC1	127.229	79.363	175.095	2.206	1.142	1.81E-10	6.07E-09	Up
ORC5	324.794	256.637	392.952	1.531	0.615	3.70E-07	7.05E-06	Up
OSBPL11	1670.907	2135.24	1206.574	0.565	-0.823	1.28E-20	1.08E-18	Down
OSGIN1	169.782	252.924	86.64	0.343	-1.546	1.17E-21	1.07E-19	Down
OSTN	4.811	1.313	8.309	6.327	2.662	1.20E-02	5.94E-02	Up
OTP	13.6	19.124	8.076	0.422	-1.244	4.99E-02	1.77E-01	Down
OTUD7A	42.046	25.337	58.756	2.319	1.213	4.62E-05	5.31E-04	Up
P3H2	33.862	24.863	42.861	1.724	0.786	1.89E-02	8.49E-02	Up
P4HA3	2395.576	2897.057	1894.094	0.654	-0.613	2.79E-16	1.74E-14	Down
PAC SIN3	85.849	104.657	67.041	0.641	-0.643	2.44E-03	1.62E-02	Down
PAK5	46.976	36.103	57.85	1.602	0.68	1.29E-02	6.27E-02	Up
PALM	718.28	869.605	566.956	0.652	-0.617	5.52E-11	1.98E-09	Down
PALMD	45.71	63.818	27.601	0.432	-1.209	2.39E-05	2.96E-04	Down
PAPLN	11.181	15.483	6.879	0.444	-1.17	4.60E-02	1.67E-01	Down
PAQR8	77.576	57.521	97.631	1.697	0.763	6.05E-04	5.01E-03	Up
PCBP2	19.637	10.883	28.392	2.609	1.383	2.05E-03	1.41E-02	Up
PCMTD1	607.664	729.456	485.873	0.666	-0.586	2.89E-06	4.52E-05	Down
PCNA	1303.63	951.575	1655.685	1.74	0.799	1.45E-13	7.07E-12	Up
PCTP	23.746	17.207	30.285	1.76	0.816	4.28E-02	1.59E-01	Up
PCTPL	37.091	25.47	48.711	1.912	0.935	3.97E-03	2.42E-02	Up
PDE4D	34.188	10.436	57.94	5.552	2.473	9.15E-12	3.59E-10	Up
PDE6B	4.611	7.31	1.912	0.262	-1.935	4.57E-02	1.67E-01	Down
PDE7B	1090.665	832.623	1348.707	1.62	0.696	8.73E-16	5.08E-14	Up
PDGFA	185.381	129.27	241.493	1.868	0.902	2.45E-09	6.85E-08	Up
PDGFB	249.115	178.753	319.477	1.787	0.838	5.23E-10	1.64E-08	Up
PDK4	5.243	10.172	0.315	0.031	-5.015	6.33E-05	7.00E-04	Down
PDKI2	212.288	264.802	159.774	0.603	-0.729	8.82E-04	6.88E-03	Down
PELI2	64.067	95.128	33.005	0.347	-1.527	9.70E-10	2.93E-08	Down
PENK	84.747	47.956	121.537	2.534	1.342	5.27E-04	4.47E-03	Up
PFKFB4L	423.034	516.51	329.558	0.638	-0.648	4.99E-09	1.31E-07	Down
PGBD5	426.284	328.533	524.035	1.595	0.674	1.71E-09	4.93E-08	Up
PGM2	1236.207	985.049	1487.366	1.51	0.594	1.18E-12	5.28E-11	Up
PGR	4.522	0.657	8.387	12.774	3.675	2.44E-03	1.62E-02	Up
PGRMC1	6647.12	8001.524	5292.717	0.661	-0.596	2.32E-18	1.69E-16	Down
PHACTR3	83.999	23.699	144.298	6.089	2.606	8.13E-28	1.18E-25	Up
PHGDH	106.941	165.457	48.425	0.293	-1.773	6.44E-19	4.89E-17	Down
PI3	6.03	11.448	0.612	0.053	-4.225	8.32E-05	8.90E-04	Down
PIFO	223.693	99.064	348.321	3.516	1.814	4.55E-29	7.42E-27	Up
PIGL	132.694	160.973	104.415	0.649	-0.624	2.99E-04	2.74E-03	Down
PIGZ	31.875	42.114	21.636	0.514	-0.961	1.08E-02	5.45E-02	Down
PITX3	3.678	1.01	6.345	6.281	2.651	3.43E-02	1.34E-01	Up
PKIG	7.444	13.951	0.937	0.067	-3.896	1.94E-05	2.46E-04	Down
PLA2G4B	16.127	27.1	5.155	0.19	-2.394	5.32E-06	7.82E-05	Down
PLA2G4EL2	13.315	8.504	18.126	2.132	1.092	4.34E-02	1.61E-01	Up
PLCL2	41.78	33.053	50.508	1.528	0.612	3.75E-02	1.43E-01	Up
PLEK	529.919	267.483	792.356	2.962	1.567	6.32E-26	7.69E-24	Up
PLEKHA6	49.028	28.013	70.044	2.5	1.322	4.73E-06	7.06E-05	Up
PLEKHG1	74.061	43.249	104.872	2.425	1.278	3.08E-08	7.11E-07	Up
PLPP5	449.394	349.15	549.638	1.574	0.655	1.09E-05	1.48E-04	Up
PNAT10	113.692	173.24	54.144	0.313	-1.678	5.88E-16	3.50E-14	Down

PNAT3	225.387	302.963	147.811	0.488	-1.035	1.69E-13	8.17E-12	Down
PODXL	77.25	8.447	146.054	17.29	4.112	5.04E-45	2.14E-42	Up
POLD4	202.753	245.241	160.264	0.653	-0.614	2.54E-03	1.67E-02	Down
POLE	868.279	634.808	1101.75	1.736	0.795	1.09E-13	5.41E-12	Up
POSTN	113.997	173.637	54.357	0.313	-1.676	2.75E-18	1.99E-16	Down
POU4F3	51.677	38.279	65.075	1.7	0.766	3.53E-02	1.37E-01	Up
PPARG	3812.651	0.762	7624.54	10007.168	13.289	0.00E+00	0.00E+00	Up
PPEF1	371.833	234.262	509.403	2.174	1.121	1.98E-21	1.78E-19	Up
PPIF	167.304	212.015	122.594	0.578	-0.79	3.54E-07	6.80E-06	Down
PPM1K	1190.569	1511.684	869.454	0.575	-0.798	2.04E-21	1.82E-19	Down
PPP1R17	8.244	3.896	12.591	3.232	1.692	3.09E-02	1.24E-01	Up
PPP1R3E	55.829	71.513	40.145	0.561	-0.833	1.26E-03	9.31E-03	Down
PPRC1	915.869	657.814	1173.924	1.785	0.836	8.26E-14	4.15E-12	Up
PRCP	267.983	210.763	325.204	1.543	0.626	1.89E-06	3.07E-05	Up
PREX1	382.18	280.14	484.221	1.728	0.79	4.96E-12	2.03E-10	Up
PRIM2	300.99	223.766	378.213	1.69	0.757	1.10E-09	3.30E-08	Up
PRKACA	11.96	17.91	6.01	0.336	-1.575	5.52E-03	3.16E-02	Down
PRKCA	68.671	45.363	91.98	2.028	1.02	1.26E-05	1.68E-04	Up
PRKCZ	13.453	4.49	22.416	4.993	2.32	3.57E-05	4.22E-04	Up
PROCR	7.225	3.191	11.26	3.529	1.819	1.91E-02	8.57E-02	Up
PRODH2	19.226	25.406	13.046	0.514	-0.962	3.05E-02	1.23E-01	Down
PROM1	16.743	7.738	25.748	3.327	1.734	6.79E-04	5.52E-03	Up
PRPH	241.23	317.192	165.267	0.521	-0.941	6.81E-12	2.72E-10	Down
PRR16	50.894	74.012	27.777	0.375	-1.414	3.88E-07	7.38E-06	Down
PRR33	38.59	50.358	26.821	0.533	-0.909	1.31E-02	6.37E-02	Down
PRTFDC1	687.34	504.23	870.449	1.726	0.788	3.84E-16	2.31E-14	Up
PRUNE2	393.974	488.45	299.497	0.613	-0.706	2.74E-04	2.54E-03	Down
PSAT1	1266.781	1659.489	874.072	0.527	-0.925	1.17E-28	1.83E-26	Down
PSD	108.011	85.598	130.423	1.524	0.608	1.37E-03	1.00E-02	Up
PSPH	287.202	360.285	214.119	0.594	-0.751	2.66E-09	7.35E-08	Down
PTGDR	121.956	179.528	64.384	0.359	-1.479	1.73E-15	9.85E-14	Down
PTGFRN	89.417	70.086	108.748	1.552	0.634	2.24E-03	1.51E-02	Up
PTGS2	14560.493	18493.417	10627.57	0.575	-0.799	1.09E-09	3.26E-08	Down
PTP4A3	352.874	278.161	427.587	1.537	0.62	1.19E-07	2.52E-06	Up
PTPRE	115.877	63.071	168.683	2.674	1.419	8.85E-14	4.42E-12	Up
PTPRK	227.042	156.23	297.854	1.907	0.931	3.85E-10	1.23E-08	Up
PTPRO	423.882	318.036	529.727	1.666	0.736	3.21E-11	1.18E-09	Up
PTPRQ	27.167	8.046	46.288	5.753	2.524	9.65E-10	2.92E-08	Up
PTX3	11616.772	14913.314	8320.23	0.558	-0.842	1.36E-31	2.88E-29	Down
PYCRL	201.28	155.481	247.079	1.589	0.668	4.38E-06	6.58E-05	Up
PYGO1	2.855	0.328	5.381	16.39	4.035	1.63E-02	7.59E-02	Up
RAB11FIP4	204.11	133.392	274.827	2.06	1.043	9.70E-08	2.08E-06	Up
RAB3C	8.196	2.862	13.529	4.726	2.241	2.65E-03	1.74E-02	Up
RAB40B	61.368	49.066	73.67	1.501	0.586	2.04E-02	9.00E-02	Up
RAB44	30.92	23.877	37.962	1.59	0.669	4.86E-02	1.74E-01	Up
RAD51	570.747	443.642	697.853	1.573	0.654	6.63E-09	1.71E-07	Up
RAD52	187.538	148.945	226.13	1.518	0.602	6.10E-05	6.79E-04	Up
RAD54L	221.138	153.261	289.014	1.886	0.915	1.48E-10	5.05E-09	Up
RAD9B	330.71	405.613	255.807	0.631	-0.665	7.64E-06	1.08E-04	Down
RALGAPA2	624.61	388.172	861.048	2.218	1.149	1.54E-30	2.90E-28	Up
RAMP1	35.328	45.525	25.131	0.552	-0.857	7.48E-03	4.02E-02	Down
RANBP17	17.712	25.132	10.293	0.41	-1.288	5.76E-03	3.27E-02	Down
RAPGEF4	113.525	40.695	186.355	4.579	2.195	1.79E-27	2.53E-25	Up
RAPGEF5	76.066	31.414	120.718	3.843	1.942	8.12E-16	4.76E-14	Up

RASA4	373.672	515.903	231.442	0.449	-1.156	4.86E-21	4.19E-19	Down
RASAL2	2063.786	1604.286	2523.286	1.573	0.653	1.51E-17	1.03E-15	Up
RASD1	76.275	106.581	45.969	0.431	-1.213	6.78E-05	7.44E-04	Down
RASD2	16.024	9.207	22.84	2.481	1.311	8.04E-03	4.26E-02	Up
RASGEF1A	309.4	397.332	221.468	0.557	-0.843	6.28E-12	2.54E-10	Down
RASGRP3	185.505	246.547	124.464	0.505	-0.986	5.28E-11	1.90E-09	Down
RASSF3	2809.052	1903.412	3714.693	1.952	0.965	1.11E-38	3.66E-36	Up
RASSF8	3882.811	4947.086	2818.537	0.57	-0.812	6.91E-30	1.22E-27	Down
RBL1	682.793	518.957	846.629	1.631	0.706	1.93E-13	9.34E-12	Up
RBM38	109.822	85.814	133.831	1.56	0.641	5.86E-04	4.88E-03	Up
RDH12	1048.111	677.663	1418.559	2.093	1.066	1.04E-13	5.18E-12	Up
REEP1	138.847	93.996	183.697	1.954	0.967	2.46E-08	5.77E-07	Up
RELN	18.524	8.886	28.162	3.169	1.664	3.08E-04	2.79E-03	Up
RENBP	62.28	80.106	44.454	0.555	-0.85	6.52E-04	5.34E-03	Down
RERG	2051.724	2666.449	1436.999	0.539	-0.892	3.81E-24	4.19E-22	Down
RETSATL	14.258	20.657	7.86	0.38	-1.394	7.82E-03	4.17E-02	Down
RFKL	689.098	546.505	831.691	1.522	0.606	3.10E-10	1.00E-08	Up
RFLNB	173.95	234.384	113.516	0.484	-1.046	1.74E-11	6.59E-10	Down
RGS11	53.77	66.496	41.044	0.617	-0.696	7.24E-03	3.92E-02	Down
RGS13	13.349	5.735	20.963	3.655	1.87	2.30E-03	1.54E-02	Up
RGS2	893.381	657.246	1129.516	1.719	0.781	2.73E-18	1.99E-16	Up
RGS4	23.582	16.323	30.841	1.889	0.918	2.06E-02	9.06E-02	Up
RGS9BP	95.107	72.563	117.652	1.621	0.697	4.12E-04	3.60E-03	Up
RHBDL1	7.709	11.983	3.434	0.287	-1.803	3.47E-02	1.35E-01	Down
RHCG	69.526	9.487	129.565	13.658	3.772	3.19E-19	2.50E-17	Up
RHOB	974.72	752.023	1197.417	1.592	0.671	1.89E-14	9.98E-13	Up
RHOG	34.607	26.801	42.413	1.583	0.662	3.85E-02	1.46E-01	Up
RHOU	37.123	47.297	26.948	0.57	-0.812	1.11E-02	5.57E-02	Down
RIF1	614.401	462.177	766.625	1.659	0.73	8.58E-14	4.30E-12	Up
RIMS4	74.043	48.112	99.973	2.078	1.055	5.14E-06	7.59E-05	Up
RMI1	140.661	99.682	181.639	1.822	0.866	5.61E-07	1.03E-05	Up
RNF145	1407.868	1822.414	993.322	0.545	-0.876	8.29E-27	1.11E-24	Down
RNF150	124.755	70.441	179.068	2.542	1.346	2.53E-13	1.21E-11	Up
RNF182	2.008	0	4.015	Inf	Inf	1.77E-02	8.08E-02	Up
ROBO1	98.399	120.78	76.018	0.629	-0.668	9.33E-04	7.20E-03	Down
ROBO3	424.012	598.193	249.832	0.418	-1.26	4.92E-29	7.93E-27	Down
RPH3AL	141.88	182.551	101.209	0.554	-0.851	5.50E-07	1.01E-05	Down
RPP40	111.903	82.152	141.655	1.724	0.786	3.14E-05	3.76E-04	Up
RRAD	139.728	97.614	181.843	1.863	0.898	1.39E-07	2.92E-06	Up
RRM2	1369.934	956.089	1783.778	1.866	0.9	2.05E-25	2.43E-23	Up
RRP8	270.147	186.996	353.299	1.889	0.918	5.51E-07	1.02E-05	Up
RSPH14	14.465	7.522	21.407	2.846	1.509	4.02E-03	2.44E-02	Up
RSPO3	1185.951	1469.407	902.495	0.614	-0.703	4.94E-09	1.30E-07	Down
RUNDC3A	58.527	70.534	46.521	0.66	-0.6	1.85E-02	8.37E-02	Down
RUNX1T1	680.719	824.02	537.419	0.652	-0.617	7.32E-07	1.31E-05	Down
RXRG	517.448	403.099	631.796	1.567	0.648	5.82E-10	1.81E-08	Up
SALL4	4.8	1.469	8.131	5.534	2.468	1.44E-02	6.89E-02	Up
SAMD11	356.304	279.722	432.886	1.548	0.63	1.32E-07	2.78E-06	Up
SCD	592.877	450.536	735.218	1.632	0.707	1.25E-12	5.58E-11	Up
SCN2B	54.58	43.02	66.141	1.537	0.621	1.97E-02	8.76E-02	Up
SCN5A	164.998	118.829	211.167	1.777	0.829	8.90E-05	9.45E-04	Up
SCP2	3131.897	3801.141	2462.652	0.648	-0.626	1.17E-17	8.17E-16	Down
SCT	2.895	0.735	5.056	6.882	2.783	4.96E-02	1.77E-01	Up
SCUBE3	112.547	136.814	88.279	0.645	-0.632	7.99E-04	6.33E-03	Down

SELE	541.477	299.32	783.633	2.618	1.388	1.55E-24	1.74E-22	Up
SELENBP1	1547.141	2008.043	1086.238	0.541	-0.886	3.30E-28	4.95E-26	Down
SEMA3D	868.443	602.9	1133.985	1.881	0.911	6.87E-23	6.75E-21	Up
SEMA5B	11.131	6.889	15.372	2.231	1.158	4.72E-02	1.71E-01	Up
SERPINB10B	23.363	13.58	33.145	2.441	1.287	1.86E-03	1.30E-02	Up
SERPINB2	341.825	179.751	503.898	2.803	1.487	1.29E-33	3.20E-31	Up
SERPINI1	129.361	98.408	160.313	1.629	0.704	5.89E-05	6.58E-04	Up
SESN3	1805.699	2416.732	1194.666	0.494	-1.016	6.32E-16	3.75E-14	Down
SETD6	324.646	259.269	390.022	1.504	0.589	9.90E-07	1.72E-05	Up
SFR1	84.364	57.621	111.108	1.928	0.947	1.04E-05	1.41E-04	Up
SFRP1	12.423	18.282	6.565	0.359	-1.478	2.57E-02	1.08E-01	Down
SFRP2	28.93	43.753	14.107	0.322	-1.633	8.40E-06	1.18E-04	Down
SFT2D2	26.108	33.19	19.025	0.573	-0.803	2.99E-02	1.21E-01	Down
SFTPC	50.793	62.924	38.663	0.614	-0.703	9.94E-03	5.07E-02	Down
SFXN1	751.771	943.759	559.782	0.593	-0.754	1.13E-12	5.09E-11	Down
SGCG	11.979	6.982	16.976	2.432	1.282	2.93E-02	1.19E-01	Up
SGIP1	2.027	0	4.053	Inf	Inf	1.74E-02	7.96E-02	Up
SGPL1	2296.278	2766.717	1825.84	0.66	-0.6	1.44E-15	8.24E-14	Down
SH2D3C	137.044	191.963	82.124	0.428	-1.225	1.75E-12	7.55E-11	Down
SH3BGRL2	152.416	116.174	188.658	1.624	0.699	2.69E-05	3.27E-04	Up
SH3BP2	28.61	16.189	41.03	2.534	1.342	2.98E-04	2.73E-03	Up
SH3GLB2	2581.094	3325.488	1836.7	0.552	-0.856	1.55E-30	2.90E-28	Down
SHC2	683.417	827.897	538.938	0.651	-0.619	1.22E-10	4.19E-09	Down
SHC4	1908.06	1053.146	2762.974	2.624	1.392	2.11E-69	2.85E-66	Up
SHF	148.752	107.019	190.485	1.78	0.832	8.56E-07	1.51E-05	Up
SHH	19.118	26.312	11.924	0.453	-1.142	9.14E-03	4.73E-02	Down
SHISA2	1190.203	929.723	1450.683	1.56	0.642	2.27E-14	1.20E-12	Up
SHMT1	120.678	60.296	181.061	3.003	1.586	3.17E-11	1.17E-09	Up
SHROOM2	273.266	167.598	378.934	2.261	1.177	3.55E-13	1.68E-11	Up
SIDT1	17.404	8.346	26.462	3.171	1.665	6.23E-04	5.13E-03	Up
SIRPA	119.366	92.235	146.497	1.588	0.667	2.70E-04	2.50E-03	Up
SKA3	176.161	137.432	214.889	1.564	0.645	2.81E-05	3.41E-04	Up
SLBP	129.277	82.88	175.673	2.12	1.084	1.51E-09	4.37E-08	Up
SLC16A10	238.751	352.454	125.048	0.355	-1.495	8.10E-27	1.09E-24	Down
SLC16A6	19.938	13.383	26.492	1.98	0.985	2.45E-02	1.04E-01	Up
SLC19A2	9.31	5.012	13.607	2.715	1.441	3.08E-02	1.24E-01	Up
SLC1A4	4018.392	5139.704	2897.08	0.564	-0.827	4.02E-31	8.05E-29	Down
SLC1A6	132.797	244.368	21.225	0.087	-3.525	3.51E-63	3.47E-60	Down
SLC20A1	941.432	531.48	1351.384	2.543	1.346	1.72E-30	3.19E-28	Up
SLC22A5	870.943	1170.465	571.421	0.488	-1.034	3.77E-30	6.74E-28	Down
SLC25A29	131.759	198.756	64.763	0.326	-1.618	7.37E-14	3.72E-12	Down
SLC26A1	26.577	17.996	35.157	1.954	0.966	1.01E-02	5.15E-02	Up
SLC26A3	161.397	222.977	99.817	0.448	-1.16	4.92E-13	2.32E-11	Down
SLC27A1	220.373	281.072	159.675	0.568	-0.816	6.62E-09	1.71E-07	Down
SLC2A11L1	21.219	9.742	32.695	3.356	1.747	7.62E-05	8.25E-04	Up
SLC2A12	9.031	4.527	13.535	2.99	1.58	1.96E-02	8.73E-02	Up
SLC2A6	95.449	123.737	67.161	0.543	-0.882	1.67E-05	2.16E-04	Down
SLC34A2	5.084	1.469	8.699	5.92	2.566	8.89E-03	4.63E-02	Up
SLC35A1	506.951	379.879	634.022	1.669	0.739	2.19E-12	9.32E-11	Up
SLC35E3	3266.768	2423.704	4109.832	1.696	0.762	1.21E-25	1.45E-23	Up
SLC35F1	2.57	0.354	4.786	13.529	3.758	3.23E-02	1.28E-01	Up
SLC35F6	89.103	107.394	70.813	0.659	-0.601	3.54E-03	2.21E-02	Down
SLC39A10	811.733	537.758	1085.707	2.019	1.014	3.40E-23	3.41E-21	Up
SLC39A8	19.179	13.111	25.247	1.926	0.945	3.27E-02	1.29E-01	Up

SLC4A11	636.456	316.063	956.85	3.027	1.598	2.36E-56	1.75E-53	Up
SLC5A1	91.252	63.73	118.774	1.864	0.898	5.17E-04	4.39E-03	Up
SLC5A3	1226.687	1529.463	923.91	0.604	-0.727	1.17E-16	7.67E-15	Down
SLC5A6	485.952	367.219	604.684	1.647	0.72	1.48E-04	1.48E-03	Up
SLC6A4	564.848	308.629	821.068	2.66	1.412	5.03E-42	1.91E-39	Up
SLC7A11	197.054	254.716	139.393	0.547	-0.87	2.53E-09	7.03E-08	Down
SLC7A5	306.826	396.617	217.036	0.547	-0.87	1.97E-12	8.41E-11	Down
SLC9A3	14.681	6.573	22.789	3.467	1.794	8.61E-04	6.73E-03	Up
SMOC2	3624.721	4698.017	2551.425	0.543	-0.881	1.14E-34	2.96E-32	Down
SMOX	271.246	336.366	206.126	0.613	-0.707	1.17E-05	1.56E-04	Down
SMPD3	17.484	9.973	24.995	2.506	1.326	4.75E-03	2.79E-02	Up
SMTN	2861.035	2225.891	3496.179	1.571	0.651	6.05E-19	4.63E-17	Up
SNN	160.534	194.129	126.938	0.654	-0.613	1.26E-04	1.29E-03	Down
SNX19	358.153	435.198	281.107	0.646	-0.631	2.97E-05	3.58E-04	Down
SNX30	851.699	1119.876	583.522	0.521	-0.94	6.85E-25	7.81E-23	Down
SOCS4	220.041	270.449	169.632	0.627	-0.673	2.38E-06	3.78E-05	Down
SORBS2	9.176	0.328	18.024	54.904	5.779	5.30E-08	1.19E-06	Up
SORCS3	6.782	3.242	10.323	3.185	1.671	3.42E-02	1.34E-01	Up
SOX13	91.012	115.048	66.976	0.582	-0.781	1.23E-04	1.27E-03	Down
SOX7	190.883	143.229	238.538	1.665	0.736	1.19E-03	8.90E-03	Up
SPATA13	30.168	20.733	39.604	1.91	0.934	7.08E-03	3.86E-02	Up
SPIRE1	412.716	496.419	329.012	0.663	-0.593	2.27E-05	2.82E-04	Down
SPIRE2	89.449	110.673	68.225	0.616	-0.698	7.47E-04	5.96E-03	Down
SPNS3	32.041	40.606	23.477	0.578	-0.79	1.95E-02	8.70E-02	Down
SPP1	17.024	11.616	22.433	1.931	0.949	4.58E-02	1.67E-01	Up
SPRED1	1211.986	961.302	1462.67	1.522	0.606	5.63E-13	2.63E-11	Up
SPRY2	338.432	269.015	407.849	1.516	0.6	4.62E-07	8.69E-06	Up
SPRY4	120.272	60.505	180.04	2.976	1.573	2.65E-15	1.50E-13	Up
SQLE	2277.756	1592.002	2963.509	1.861	0.896	3.91E-32	8.54E-30	Up
SRM	541.347	384.763	697.931	1.814	0.859	3.26E-13	1.55E-11	Up
SRR	105.678	132.811	78.544	0.591	-0.758	7.06E-05	7.72E-04	Down
SS18L1	10.878	15.784	5.972	0.378	-1.402	1.83E-02	8.29E-02	Down
SSBP2	505.901	625.216	386.586	0.618	-0.694	2.32E-06	3.69E-05	Down
ST6GAL1	1271.123	1878.857	663.388	0.353	-1.502	2.70E-70	4.00E-67	Down
ST6GAL2	329.523	143.111	515.936	3.605	1.85	7.57E-39	2.55E-36	Up
ST6GALNAC2L	3.145	0.707	5.583	7.892	2.98	3.00E-02	1.21E-01	Up
ST6GALNAC6	258.302	325.73	190.874	0.586	-0.771	3.19E-07	6.20E-06	Down
STAC	70.935	54.613	87.256	1.598	0.676	3.38E-03	2.13E-02	Up
STAMBPL1	47.409	35.041	59.778	1.706	0.771	6.71E-03	3.68E-02	Up
STARD4	694.462	443.687	945.237	2.13	1.091	1.20E-29	2.10E-27	Up
STARD5	442.498	547.355	337.642	0.617	-0.697	1.71E-10	5.77E-09	Down
STEAP1	396.543	479.063	314.023	0.655	-0.609	7.53E-08	1.64E-06	Down
STK17A	38.15	22.104	54.196	2.452	1.294	3.96E-05	4.63E-04	Up
STK35	211.471	164.333	258.609	1.574	0.654	5.46E-06	8.02E-05	Up
STKLD1	144.798	173.957	115.639	0.665	-0.589	8.13E-03	4.30E-02	Down
STXBP6	437.352	336.085	538.62	1.603	0.68	1.42E-05	1.87E-04	Up
SUCLG2	57.789	28.763	86.815	3.018	1.594	2.21E-09	6.26E-08	Up
SULF1	65.111	13.597	116.626	8.577	3.1	4.89E-28	7.25E-26	Up
SULF2	2752.151	3330.344	2173.957	0.653	-0.615	4.75E-17	3.20E-15	Down
SULT1B	69.732	88.883	50.58	0.569	-0.813	5.28E-04	4.47E-03	Down
SVEP1	118.641	177.596	59.686	0.336	-1.573	7.02E-17	4.65E-15	Down
SYBU	57.435	88.339	26.531	0.3	-1.735	6.14E-11	2.18E-09	Down
SYNRG	2401.332	2924.317	1878.347	0.642	-0.639	1.18E-17	8.19E-16	Down
SYT13	504.836	340.001	669.671	1.97	0.978	3.48E-20	2.86E-18	Up

SYTL2	302.664	216.817	388.512	1.792	0.841	2.13E-11	8.01E-10	Up
SYTL2L	14.068	8.99	19.146	2.13	1.091	3.54E-02	1.37E-01	Up
SYTL4	43.718	34.003	53.434	1.571	0.652	2.88E-02	1.17E-01	Up
TACR2	22.904	14.818	30.99	2.091	1.064	1.92E-02	8.59E-02	Up
TAF2	2297.731	2858.356	1737.107	0.608	-0.718	1.36E-21	1.23E-19	Down
TAGAP	22.011	36.87	7.152	0.194	-2.366	1.09E-07	2.32E-06	Down
TAGLN	2689.179	1890.719	3487.638	1.845	0.883	1.44E-32	3.29E-30	Up
TAP1	715.697	867.241	564.153	0.651	-0.62	7.26E-11	2.55E-09	Down
TAT	27.36	44.555	10.166	0.228	-2.132	5.07E-08	1.14E-06	Down
TBC1D9	291.759	208.175	375.342	1.803	0.85	2.59E-11	9.71E-10	Up
TCEANC	155.984	192.48	119.488	0.621	-0.688	2.25E-05	2.81E-04	Down
TCP11L2	1830.741	2217.421	1444.062	0.651	-0.619	1.77E-10	5.97E-09	Down
TDH	140.477	199.353	81.601	0.409	-1.289	1.10E-12	4.97E-11	Down
TDRP	117.978	82.235	153.722	1.869	0.903	1.18E-06	2.01E-05	Up
TENM3	220.001	153.942	286.06	1.858	0.894	1.80E-10	6.05E-09	Up
TENM4	26.804	9.488	44.12	4.65	2.217	3.62E-08	8.29E-07	Up
TEX14	41.477	53.495	29.459	0.551	-0.861	3.60E-03	2.24E-02	Down
TF	354.563	594.866	114.259	0.192	-2.38	2.11E-25	2.48E-23	Down
TFDP2	524.924	419.662	630.186	1.502	0.587	1.42E-08	3.46E-07	Up
TFRC	912.599	523.33	1301.868	2.488	1.315	4.35E-20	3.56E-18	Up
TGFBI	19.078	13.196	24.96	1.891	0.919	3.67E-02	1.41E-01	Up
TGFBR3	255.503	309.456	201.549	0.651	-0.619	2.69E-06	4.26E-05	Down
TGM6	17.416	11.257	23.576	2.094	1.066	2.54E-02	1.07E-01	Up
TIAM1	77.914	54.876	100.952	1.84	0.879	9.05E-05	9.60E-04	Up
TICRR	435.904	330.439	541.369	1.638	0.712	5.79E-11	2.07E-09	Up
TIMELESS	204.528	152.721	256.335	1.678	0.747	7.21E-03	3.91E-02	Up
TK1	542.202	398.681	685.722	1.72	0.782	1.79E-14	9.46E-13	Up
TLL2	7.317	3.412	11.222	3.289	1.718	2.89E-02	1.18E-01	Up
TLR5	21.546	30.619	12.472	0.407	-1.296	1.98E-03	1.37E-02	Down
TLR7	12.536	5.999	19.074	3.18	1.669	3.61E-03	2.24E-02	Up
TMC7	23.378	14.563	32.192	2.21	1.144	5.13E-03	2.98E-02	Up
TMCC3	565.159	364.853	765.466	2.098	1.069	2.24E-25	2.61E-23	Up
TMEM119	1215.097	1628.37	801.823	0.492	-1.022	1.04E-33	2.67E-31	Down
TMEM132E	31.274	22.868	39.679	1.735	0.795	2.28E-02	9.82E-02	Up
TMEM140	191.962	254.601	129.324	0.508	-0.977	9.70E-08	2.08E-06	Down
TMEM200A	206.883	116.832	296.934	2.542	1.346	1.50E-19	1.21E-17	Up
TMEM200C	8.873	15.208	2.538	0.167	-2.583	3.26E-04	2.93E-03	Down
TMEM204	23.683	13.107	34.258	2.614	1.386	6.76E-04	5.51E-03	Up
TMEM26	8584.166	10783.625	6384.706	0.592	-0.756	6.92E-29	1.10E-26	Down
TMEM35B	530.574	715.119	346.03	0.484	-1.047	9.04E-24	9.65E-22	Down
TMEM45A	983.547	1292.022	675.071	0.522	-0.937	1.45E-26	1.89E-24	Down
TMEM55A	82.327	53.528	111.126	2.076	1.054	1.89E-06	3.07E-05	Up
TMEM71	134.572	99.054	170.089	1.717	0.78	1.31E-05	1.74E-04	Up
TMEM74	5.346	1.063	9.63	9.059	3.179	1.95E-03	1.35E-02	Up
TMEM98	16.19	10.789	21.591	2.001	1.001	4.54E-02	1.66E-01	Up
TMPRSS11D	67.803	83.806	51.8	0.618	-0.694	2.72E-03	1.78E-02	Down
TMTC2	473.139	332.729	613.549	1.844	0.883	3.55E-16	2.15E-14	Up
TMX1	10.875	16.193	5.558	0.343	-1.543	1.13E-02	5.64E-02	Down
TNC	14549.258	8817.073	20281.443	2.3	1.202	2.25E-71	4.16E-68	Up
TNFRSF11B	155.35	113.632	197.069	1.734	0.794	1.14E-06	1.95E-05	Up
TNFRSF1A	2439.827	2988.872	1890.781	0.633	-0.661	1.03E-18	7.61E-17	Down
TNFRSF1B	606.24	417.504	794.977	1.904	0.929	1.04E-10	3.62E-09	Up
TNFSF10	9328.45	11538.223	7118.676	0.617	-0.697	7.90E-25	8.95E-23	Down
TNFSF15	409.656	288.252	531.061	1.842	0.882	5.07E-15	2.80E-13	Up

TNFSF4	655.253	450.054	860.451	1.912	0.935	1.40E-21	1.27E-19	Up
TNIP3	28.255	16.855	39.655	2.353	1.234	8.86E-04	6.89E-03	Up
TP53INP2	357.498	464.083	250.913	0.541	-0.887	1.13E-11	4.37E-10	Down
TP73	35.645	26.031	45.259	1.739	0.798	1.45E-02	6.93E-02	Up
TPBG	27.151	15.761	38.541	2.445	1.29	6.54E-04	5.36E-03	Up
TPPP	8.235	3.267	13.204	4.042	2.015	5.43E-03	3.12E-02	Up
TPSNRL	200.585	256.098	145.072	0.566	-0.82	2.46E-08	5.77E-07	Down
TRANK1	193.536	251.035	136.036	0.542	-0.884	2.85E-07	5.61E-06	Down
TRIM2	68.467	47.584	89.349	1.878	0.909	1.12E-04	1.16E-03	Up
TRIM23	153.925	187.38	120.469	0.643	-0.637	8.66E-05	9.23E-04	Down
TRIM45	779.662	978.1	581.223	0.594	-0.751	7.27E-16	4.28E-14	Down
TRIM63	25.109	32.469	17.749	0.547	-0.871	2.40E-02	1.02E-01	Down
TRIM66	88.109	63.205	113.012	1.788	0.838	6.73E-05	7.39E-04	Up
TRIM69	1161.102	1517.569	804.636	0.53	-0.915	5.52E-27	7.58E-25	Down
TRIP13	210.477	162.524	258.43	1.59	0.669	2.80E-06	4.41E-05	Up
TROJANZ	217.408	141.874	292.943	2.065	1.046	3.92E-05	4.58E-04	Up
TRPC2L	106.724	84.508	128.94	1.526	0.61	7.70E-03	4.12E-02	Up
TRPM8	1.544	0	3.089	Inf	Inf	4.96E-02	1.76E-01	Up
TRPV1	79.314	99.129	59.5	0.6	-0.736	8.46E-04	6.63E-03	Down
TSC22D3	540.313	756.422	324.203	0.429	-1.222	9.21E-32	1.98E-29	Down
TSKU	25.891	36.009	15.773	0.438	-1.191	1.73E-02	7.94E-02	Down
TSPAN7	83.761	54.279	113.242	2.086	1.061	9.41E-07	1.65E-05	Up
TTC7B	91.736	72.392	111.079	1.534	0.618	3.12E-03	1.99E-02	Up
TTLL10	2.319	0.328	4.31	13.13	3.715	4.18E-02	1.56E-01	Up
TTYH3	3398.358	4284.259	2512.456	0.586	-0.77	1.39E-26	1.83E-24	Down
TWNK	652.462	510.393	794.532	1.557	0.638	1.11E-05	1.51E-04	Up
TXN	13575.717	17723.758	9427.676	0.532	-0.911	6.75E-42	2.50E-39	Down
TXNIP	3283.451	4464.982	2101.92	0.471	-1.087	8.14E-50	4.02E-47	Down
TXNRD1	1827.12	1391.157	2263.084	1.627	0.702	2.78E-19	2.20E-17	Up
TYMS	101.183	71.517	130.85	1.83	0.872	2.05E-04	1.99E-03	Up
UGCG	10.348	3.189	17.506	5.49	2.457	2.45E-04	2.30E-03	Up
UMODL1	74.628	96.607	52.648	0.545	-0.876	1.59E-03	1.13E-02	Down
UNC13C	8.142	1.878	14.406	7.673	2.94	7.79E-03	4.15E-02	Up
UNC5A	65.555	51.838	79.272	1.529	0.613	1.03E-02	5.24E-02	Up
UNC5C	21.289	9.563	33.015	3.452	1.788	2.34E-03	1.57E-02	Up
UNC79	43.606	63.411	23.802	0.375	-1.414	2.68E-05	3.27E-04	Down
UNG	219.806	156.82	282.792	1.803	0.851	1.92E-08	4.60E-07	Up
USH2A	30.118	19.278	40.958	2.125	1.087	2.24E-03	1.51E-02	Up
USP13	11.924	7.679	16.169	2.106	1.074	4.99E-02	1.77E-01	Up
USP49	270.707	324.934	216.481	0.666	-0.586	5.54E-06	8.12E-05	Down
UST	1482.321	1968.437	996.205	0.506	-0.983	1.27E-33	3.19E-31	Down
VAV3	138.021	99.886	176.157	1.764	0.819	7.08E-04	5.70E-03	Up
VCAM1	16.81	8.857	24.764	2.796	1.483	1.54E-02	7.27E-02	Up
VDHAP	4.204	1.116	7.293	6.537	2.709	1.55E-02	7.32E-02	Up
VEGFA	1325.097	1010.739	1639.454	1.622	0.698	1.89E-07	3.87E-06	Up
VEPH1	109.584	133.032	86.136	0.647	-0.627	1.03E-03	7.80E-03	Down
VIP	1834.699	1175.479	2493.919	2.122	1.085	6.77E-43	2.71E-40	Up
VPS37D	94.882	125.215	64.55	0.516	-0.956	1.38E-05	1.82E-04	Down
VSIG4	7.228	3.321	11.134	3.352	1.745	1.91E-02	8.57E-02	Up
VTN	3.936	7.259	0.612	0.084	-3.568	4.02E-03	2.44E-02	Down
VWDE	5.215	0.381	10.05	26.381	4.721	1.49E-04	1.50E-03	Up
VWF	27.01	18.319	35.702	1.949	0.963	1.07E-02	5.40E-02	Up
WBP1L	1958.736	2544.606	1372.865	0.54	-0.89	7.82E-31	1.51E-28	Down
WBSCR17	99.705	136.818	62.593	0.457	-1.128	1.46E-08	3.55E-07	Down

WDHD1	247.142	176.618	317.666	1.799	0.847	4.52E-10	1.43E-08	Up
WDR66	106.528	146.653	66.402	0.453	-1.143	4.39E-09	1.17E-07	Down
WDR76	316.442	246.096	386.788	1.572	0.652	9.20E-08	1.98E-06	Up
WISP2	879.776	420.276	1339.275	3.187	1.672	8.42E-72	1.78E-68	Up
WNK2	446.098	607.679	284.518	0.468	-1.095	3.16E-23	3.19E-21	Down
WNT5B	255.604	178.089	333.12	1.871	0.903	1.42E-11	5.43E-10	Up
WNT9A	495.325	702.155	288.496	0.411	-1.283	5.89E-09	1.54E-07	Down
WSB1	6374.185	7660.99	5087.379	0.664	-0.591	8.66E-13	3.97E-11	Down
WT1	314.034	377.06	251.009	0.666	-0.587	1.30E-06	2.20E-05	Down
XKR5	73.915	57.857	89.972	1.555	0.637	4.33E-03	2.59E-02	Up
XPNPEP2	11.392	6.759	16.025	2.371	1.246	3.53E-02	1.37E-01	Up
YPEL4	67.327	82.996	51.658	0.622	-0.684	4.34E-03	2.59E-02	Down
ZBTB32	358.541	463.285	253.796	0.548	-0.868	2.54E-12	1.07E-10	Down
ZDHHC17	418.634	318.624	518.644	1.628	0.703	1.03E-07	2.20E-06	Up
ZFP92	20.075	7.767	32.383	4.169	2.06	8.57E-06	1.20E-04	Up
ZMYND19	157.309	116.106	198.511	1.71	0.774	1.59E-06	2.63E-05	Up
ZNF367	363.237	285.989	440.486	1.54	0.623	8.79E-08	1.90E-06	Up
ZNF423	1959.888	2818.293	1101.483	0.391	-1.355	9.52E-67	1.09E-63	Down
ZNF800	17.214	8.324	26.103	3.136	1.649	8.58E-04	6.72E-03	Up
ZNF804B	2.517	0	5.035	Inf	Inf	6.04E-03	3.39E-02	Up

Table S2. The list of DEGs between the PPAR γ -/- cells transduced with LV-control and LV-PPAR γ 2

Gene_Id	BaseMean	BaseMean Control	BaseMean PPARG2	Fold Change	log2Fold Change	pValue	qValue	Regulation
A2ML2	14.816	8.695	20.938	2.408	1.268	1.04E-02	4.76E-01	Up
AMHR2	62.175	78.650	45.700	0.581	-0.783	2.81E-02	6.73E-01	Down
ANGPT1	59.193	45.457	72.930	1.604	0.682	5.75E-03	3.70E-01	Up
ANKS4B	15.762	20.741	10.782	0.520	-0.944	4.09E-02	7.56E-01	Down
AVD	623.944	322.902	924.987	2.865	1.518	1.15E-64	8.40E-61	Up
BICDL1	22.856	16.682	29.031	1.740	0.799	4.25E-02	7.65E-01	Up
C3orf33	50.028	61.735	38.322	0.621	-0.688	8.89E-03	4.49E-01	Down
C4H2orf81	31.880	39.509	24.252	0.614	-0.704	3.23E-02	6.93E-01	Down
C6orf132	1.577	3.154	0.000	0.000	-Inf	3.84E-02	7.43E-01	Down
C6orf58	36.475	28.239	44.710	1.583	0.663	3.41E-02	7.00E-01	Up
CD55	12.616	17.182	8.050	0.469	-1.094	4.33E-02	7.66E-01	Down
CMSS1	74.338	56.067	92.609	1.652	0.724	3.15E-03	2.63E-01	Up
CYP2J23	35.141	42.899	27.384	0.638	-0.648	4.34E-02	7.66E-01	Down
ECSCR	18.087	24.662	11.512	0.467	-1.099	1.13E-02	4.84E-01	Down
EXFABP	198.975	118.179	279.771	2.367	1.243	8.28E-19	2.02E-15	Up
EXTL1	24.854	31.160	18.547	0.595	-0.749	4.84E-02	7.85E-01	Down
FAM221A	25.147	18.640	31.654	1.698	0.764	4.14E-02	7.58E-01	Up
GCNT4	78.216	62.213	94.219	1.514	0.599	5.89E-03	3.70E-01	Up
GGT5	48.506	37.371	59.642	1.596	0.674	1.56E-02	5.52E-01	Up
GINS1	74.334	90.687	57.981	0.639	-0.645	1.69E-02	5.64E-01	Down
HGF	23.731	15.933	31.530	1.979	0.985	1.15E-02	4.84E-01	Up
HIST1H3H	6.794	10.367	3.221	0.311	-1.686	3.01E-02	6.81E-01	Down
HORMAD2	7.335	3.791	10.880	2.870	1.521	3.81E-02	7.41E-01	Up
HPS5	2686.929	1493.731	3880.127	2.598	1.377	4.15E-18	8.69E-15	Up
IL1RL1	3.339	0.715	5.962	8.336	3.059	2.23E-02	6.14E-01	Up
IL8L1	88.956	47.329	130.583	2.759	1.464	1.51E-10	1.70E-07	Up
KIAA1755	90.476	62.414	118.538	1.899	0.925	3.32E-06	1.78E-03	Up
KIAA1958	20.351	26.938	13.764	0.511	-0.969	1.89E-02	5.80E-01	Down
KLF8	11.838	6.549	17.126	2.615	1.387	1.45E-02	5.37E-01	Up
KRT14	30.645	23.353	37.936	1.624	0.700	3.63E-02	7.25E-01	Up
LBP	14.290	8.403	20.178	2.401	1.264	3.16E-02	6.91E-01	Up
LCA5L	11.005	16.941	5.069	0.299	-1.741	4.09E-03	3.08E-01	Down
LCT	39.286	30.221	48.352	1.600	0.678	1.87E-02	5.80E-01	Up
LOC107049124	34.782	20.044	49.520	2.471	1.305	4.76E-05	1.45E-02	Up
LOC107050733	35.072	43.698	26.445	0.605	-0.725	2.50E-02	6.47E-01	Down
LOC107051858	24.134	32.161	16.108	0.501	-0.998	1.01E-02	4.74E-01	Down
LOC107054425	2.126	0.000	4.252	Inf	Inf	1.21E-02	4.91E-01	Up
LOC107054480	17.779	23.129	12.430	0.537	-0.896	4.57E-02	7.76E-01	Down
LOC107054849	12.713	6.998	18.428	2.633	1.397	9.58E-03	4.70E-01	Up
LOC112530036	38.519	47.101	29.937	0.636	-0.654	3.11E-02	6.89E-01	Down
LOC112531453	9.359	13.969	4.749	0.340	-1.557	1.93E-02	5.80E-01	Down
LOC112531805	34.004	42.020	25.988	0.618	-0.693	3.64E-02	7.25E-01	Down
LOC112531963	1160.337	1397.046	923.628	0.661	-0.597	1.99E-02	5.87E-01	Down
LOC112532064	13.073	17.768	8.379	0.472	-1.084	3.92E-02	7.49E-01	Down
LOC112532090	6.556	3.129	9.982	3.191	1.674	3.34E-02	6.97E-01	Up
LOC112532661	29.014	20.026	38.003	1.898	0.924	1.05E-02	4.76E-01	Up
MAMDC2	22.698	29.462	15.935	0.541	-0.887	2.65E-02	6.63E-01	Down
MGP	82.466	100.712	64.220	0.638	-0.649	1.17E-02	4.88E-01	Down
MX1	7.732	3.473	11.991	3.452	1.788	1.39E-02	5.30E-01	Up
NAALADL2	5.672	1.060	10.284	9.700	3.278	7.55E-04	1.16E-01	Up
NRSN2	1.602	0.000	3.203	Inf	Inf	3.82E-02	7.42E-01	Up
OC3	4.377	7.479	1.275	0.170	-2.552	1.46E-02	5.39E-01	Down
PDIA2	4.450	7.980	0.920	0.115	-3.117	5.27E-03	3.53E-01	Down
PPARG	7882.740	0.741	15764.739	21263.296	14.376	0.00E+00	0.00E+00	Up

PPARGC1B	8.401	13.839	2.963	0.214	-2.223	1.66E-03	1.86E-01	Down
PPP1R17	8.275	3.791	12.758	3.365	1.751	1.14E-02	4.84E-01	Up
RAB2B	2.899	0.663	5.135	7.741	2.953	3.78E-02	7.38E-01	Up
SCUBE3	189.111	133.103	245.120	1.842	0.881	1.49E-07	1.15E-04	Up
SERPINB2	242.570	174.865	310.275	1.774	0.827	4.14E-11	5.92E-08	Up
SERPINC1	11.503	7.075	15.931	2.252	1.171	3.67E-02	7.27E-01	Up
SFRP2	53.851	42.561	65.142	1.531	0.614	1.65E-02	5.63E-01	Up
SLC1A6	360.427	237.734	483.119	2.032	1.023	2.18E-21	6.38E-18	Up
SLC2A6	156.725	120.381	193.069	1.604	0.682	6.65E-06	3.25E-03	Up
SLC7AL	61.674	46.448	76.900	1.656	0.727	1.89E-03	2.01E-01	Up
SOST	5.384	2.438	8.330	3.416	1.772	4.39E-02	7.66E-01	Up
SPON2	29.818	14.953	44.684	2.988	1.579	7.65E-06	3.50E-03	Up
STEAP3	34.694	16.942	52.446	3.096	1.630	5.95E-06	3.01E-03	Up
STEAP4	40.909	28.000	53.818	1.922	0.943	1.37E-03	1.72E-01	Up
TAAR1	245.787	166.545	325.028	1.952	0.965	2.23E-08	2.18E-05	Up
TF	1087.546	578.694	1596.398	2.759	1.464	2.20E-45	1.07E-41	Up
TMEM213	1.896	3.792	0.000	0.000	-Inf	1.73E-02	5.69E-01	Down
TMEM37	60.737	47.790	73.684	1.542	0.625	1.02E-02	4.76E-01	Up
TRIM2	66.858	46.293	87.422	1.888	0.917	6.92E-05	1.95E-02	Up
TRIM63	23.282	31.583	14.981	0.474	-1.076	5.30E-03	3.53E-01	Down
UCHL1	9.126	4.377	13.874	3.170	1.664	1.32E-02	5.20E-01	Up
VNN1	871.713	548.936	1194.490	2.176	1.122	2.92E-28	1.07E-24	Up

Table S3. The list of DEGs between the PPAR γ -/- cells transduced with LV-PPAR γ 1 and LV-PPAR γ 2

Gene_Id	BaseMean	BaseMean PPARG2	BaseMean PPARG1	Fold Change	log2Fold Change	pValue	qValue	Regulation
A2M	10.928	6.158	15.697	2.549	1.350	2.52E-02	1.04E-01	Up
A2ML1	171.972	211.695	132.250	0.625	-0.679	6.67E-06	9.38E-05	Down
A2ML2	16.656	22.285	11.028	0.495	-1.015	3.16E-02	1.23E-01	Down
AACS	2661.686	1919.839	3403.532	1.773	0.826	2.00E-30	3.30E-28	Up
AADAC	36.342	45.239	27.445	0.607	-0.721	2.25E-02	9.54E-02	Down
ABCA1	32.426	24.816	40.036	1.613	0.690	4.06E-02	1.50E-01	Up
ABCA12	11.743	5.533	17.953	3.245	1.698	1.22E-02	5.97E-02	Up
ABCA13	14.315	8.780	19.849	2.261	1.177	4.62E-02	1.66E-01	Up
ABCC1	9916.801	11945.860	7887.741	0.660	-0.599	1.17E-23	1.29E-21	Down
ABCC3	60.794	100.376	21.213	0.211	-2.242	4.36E-17	2.75E-15	Down
ABLM1	42.518	23.413	61.624	2.632	1.396	3.00E-06	4.57E-05	Up
ABTB2	79.318	56.302	102.333	1.818	0.862	7.94E-04	6.22E-03	Up
ACKR3	512.691	672.119	353.263	0.526	-0.928	1.71E-20	1.54E-18	Down
ACPP	5.507	1.701	9.313	5.474	2.453	9.35E-03	4.81E-02	Up
ACSBG2	576.353	291.352	861.354	2.956	1.564	2.53E-56	1.51E-53	Up
ACSL1	1235.538	1594.014	877.062	0.550	-0.862	1.25E-18	9.17E-17	Down
ACSS2	1505.815	1964.573	1047.057	0.533	-0.908	1.06E-34	2.35E-32	Down
ACTBL2L	7.456	11.066	3.846	0.348	-1.525	4.36E-02	1.59E-01	Down
ACTG2	98.068	75.281	120.855	1.605	0.683	5.46E-04	4.45E-03	Up
ACTN1	32303.190	25527.833	39078.546	1.531	0.614	6.63E-27	9.05E-25	Up
ADAM11	1.755	0.000	3.510	Inf	Inf	2.97E-02	1.18E-01	Up
ADAM19	300.947	239.141	362.754	1.517	0.601	5.74E-07	1.02E-05	Up
ADAM9L	23.055	30.079	16.031	0.533	-0.908	2.69E-02	1.10E-01	Down
ADAMTS13	41.838	56.324	27.352	0.486	-1.042	4.37E-04	3.70E-03	Down
ADAMTS17	23.961	33.970	13.951	0.411	-1.284	1.34E-03	9.68E-03	Down
ADAMTS3	71.029	38.942	103.117	2.648	1.405	1.85E-09	5.05E-08	Up
ADAMTS4	15.612	10.117	21.106	2.086	1.061	3.46E-02	1.33E-01	Up
ADAMTS5	1107.839	1423.051	792.628	0.557	-0.844	4.02E-19	3.12E-17	Down
ADAMTS6	353.262	440.964	265.561	0.602	-0.732	6.12E-06	8.67E-05	Down
ADAMTS8	49.201	37.386	61.015	1.632	0.707	9.62E-03	4.93E-02	Up
ADAMTSL2	15863.685	21871.837	9855.534	0.451	-1.150	1.50E-75	1.39E-72	Down
ADCY2	364.205	284.703	443.707	1.558	0.640	1.17E-05	1.54E-04	Up
ADCY7	22.878	15.916	29.839	1.875	0.907	2.36E-02	9.90E-02	Up
ADGRD2	43.155	24.750	61.561	2.487	1.315	1.40E-04	1.40E-03	Up
ADGRG1	1724.585	1283.647	2165.522	1.687	0.754	3.21E-11	1.13E-09	Up
ADGRL3	495.506	367.774	623.239	1.695	0.761	5.37E-14	2.56E-12	Up
ADIPOQ	192.288	301.062	83.515	0.277	-1.850	1.36E-17	8.94E-16	Down
ADM	857.058	1278.874	435.242	0.340	-1.555	1.92E-42	6.37E-40	Down
ADORA2A	85.716	67.320	104.112	1.547	0.629	2.39E-03	1.56E-02	Up
ADRA2A	8.821	3.006	14.636	4.869	2.284	1.80E-03	1.24E-02	Up
AGTR2	2.393	4.450	0.336	0.075	-3.728	3.06E-02	1.21E-01	Down
AHNAK2	940.621	691.145	1190.098	1.722	0.784	2.78E-03	1.76E-02	Up
AKAP12	248.197	149.347	347.047	2.324	1.216	5.86E-20	4.98E-18	Up
AKAP6	13.245	5.316	21.174	3.983	1.994	5.18E-04	4.27E-03	Up
AKNAD1	9.674	5.481	13.868	2.530	1.339	3.89E-02	1.45E-01	Up
ALCAM	43.452	33.263	53.641	1.613	0.689	1.92E-02	8.46E-02	Up
ALDH18A1	7508.151	9317.713	5698.590	0.612	-0.709	4.74E-32	8.93E-30	Down
ALK	46.743	33.067	60.419	1.827	0.870	1.69E-03	1.18E-02	Up
ALKBH4	35.313	44.499	26.128	0.587	-0.768	1.72E-02	7.78E-02	Down
ALOX5	216.667	265.474	167.860	0.632	-0.661	1.59E-06	2.58E-05	Down
ALS2CL	542.456	737.998	346.914	0.470	-1.089	1.44E-28	2.12E-26	Down
AMER3	37.679	20.971	54.386	2.593	1.375	1.02E-04	1.06E-03	Up
AMIGO3	29.823	21.771	37.874	1.740	0.799	2.49E-02	1.03E-01	Up

AMY1A	35.777	28.042	43.511	1.552	0.634	4.50E-02	1.63E-01	Up
ANGPTL4	4828.949	6548.856	3109.042	0.475	-1.075	1.99E-51	9.86E-49	Down
ANK3	23.226	10.385	36.067	3.473	1.796	3.15E-04	2.81E-03	Up
ANKRD9	90.132	108.481	71.784	0.662	-0.596	3.58E-03	2.17E-02	Down
ANO1	9.620	2.758	16.483	5.978	2.580	2.37E-04	2.19E-03	Up
AOC3	706.746	546.527	866.965	1.586	0.666	8.81E-14	4.06E-12	Up
AP3B2	33.548	19.576	47.520	2.427	1.279	1.40E-04	1.40E-03	Up
APAF1	313.913	377.849	249.976	0.662	-0.596	6.49E-05	7.17E-04	Down
APBA1	565.314	446.442	684.187	1.533	0.616	1.84E-10	5.84E-09	Up
APCDD1	14.920	8.334	21.507	2.581	1.368	6.80E-03	3.71E-02	Up
APOLD1	252.715	113.566	391.865	3.451	1.787	3.26E-39	8.99E-37	Up
AQP1	1315.417	707.965	1922.868	2.716	1.442	6.76E-44	2.40E-41	Up
AR	5528.929	6641.990	4415.867	0.665	-0.589	8.11E-22	8.04E-20	Down
ARAP3	16.963	10.483	23.444	2.236	1.161	1.25E-02	6.06E-02	Up
ARHGAP18	3.237	0.696	5.778	8.306	3.054	2.37E-02	9.93E-02	Up
ARHGAP25	25.423	15.685	35.162	2.242	1.165	1.13E-02	5.62E-02	Up
ARHGAP40	8.033	12.172	3.894	0.320	-1.644	1.96E-02	8.63E-02	Down
ARHGEF16	16.029	7.209	24.849	3.447	1.785	3.56E-04	3.13E-03	Up
ARRDC3	609.488	750.451	468.525	0.624	-0.680	4.88E-13	2.09E-11	Down
ARRDC4	142.135	104.808	179.463	1.712	0.776	3.02E-06	4.59E-05	Up
ASB9	153.428	104.174	202.683	1.946	0.960	2.98E-09	7.80E-08	Up
ASL2	393.004	475.487	310.521	0.653	-0.615	1.62E-08	3.80E-07	Down
ASPHD2	218.298	270.724	165.873	0.613	-0.707	2.86E-07	5.41E-06	Down
ASPN	14.119	4.493	23.745	5.285	2.402	1.86E-05	2.36E-04	Up
ASTN2	8.488	0.370	16.607	44.938	5.490	1.31E-05	1.71E-04	Up
ATAD3A	346.494	273.600	419.387	1.533	0.616	2.54E-06	3.95E-05	Up
ATCAY	28.649	19.696	37.602	1.909	0.933	1.22E-02	5.95E-02	Up
ATF3	882.058	1111.043	653.073	0.588	-0.767	6.91E-20	5.81E-18	Down
ATOH8	1544.368	1118.128	1970.608	1.762	0.818	6.94E-21	6.58E-19	Up
ATP2B2	140.145	175.725	104.564	0.595	-0.749	5.08E-06	7.37E-05	Down
ATP6V1G3	5.915	2.431	9.398	3.865	1.951	2.52E-02	1.04E-01	Up
ATRNL1	1739.036	2174.308	1303.763	0.600	-0.738	1.34E-16	8.18E-15	Down
AVD	542.491	984.505	100.476	0.102	-3.293	9.38E-184	4.65E-180	Down
AvBD12	37.545	60.120	14.970	0.249	-2.006	2.12E-09	5.70E-08	Down
B4GALNT4	421.947	323.467	520.426	1.609	0.686	6.71E-08	1.43E-06	Up
B4GALT5	4242.640	5183.115	3302.165	0.637	-0.650	5.15E-25	6.13E-23	Down
BCAN	2933.569	2267.582	3599.556	1.587	0.667	2.47E-07	4.73E-06	Up
BCAS1	7.815	3.462	12.167	3.514	1.813	1.75E-02	7.91E-02	Up
BCHE	68.759	24.585	112.932	4.593	2.200	1.67E-18	1.21E-16	Up
BCL2L10	221.533	166.705	276.362	1.658	0.729	1.12E-07	2.27E-06	Up
BCL2L14	9.879	3.747	16.011	4.273	2.095	1.62E-03	1.14E-02	Up
BCO1	13.753	20.023	7.483	0.374	-1.420	6.55E-03	3.61E-02	Down
BCO2	3.906	1.348	6.463	4.795	2.261	4.86E-02	1.72E-01	Up
BDKRB2	282.814	201.982	363.645	1.800	0.848	1.15E-11	4.36E-10	Up
BEND4	54.254	39.326	69.181	1.759	0.815	1.89E-03	1.29E-02	Up
BGLAP	13.709	8.409	19.009	2.261	1.177	3.11E-02	1.22E-01	Up
BHLHE22	54.190	33.064	75.316	2.278	1.188	8.63E-04	6.68E-03	Up
BLM	311.965	239.097	384.833	1.610	0.687	9.28E-09	2.28E-07	Up
BMF	178.842	218.850	138.833	0.634	-0.657	4.45E-05	5.16E-04	Down
BMP2	343.881	232.830	454.931	1.954	0.966	1.48E-10	4.78E-09	Up
BMPER	865.777	1083.741	647.812	0.598	-0.742	1.49E-18	1.09E-16	Down
BORCS6	763.125	944.407	581.844	0.616	-0.699	1.21E-15	6.96E-14	Down
BRCA2	183.092	128.554	237.630	1.848	0.886	2.87E-09	7.54E-08	Up
BTBD6	668.345	519.111	817.578	1.575	0.655	5.80E-13	2.47E-11	Up
BTG1L	72.983	88.225	57.740	0.654	-0.612	7.39E-03	3.97E-02	Down
BTK	60.117	38.777	81.458	2.101	1.071	2.44E-05	3.03E-04	Up
C12H3orf18	253.323	335.658	170.987	0.509	-0.973	5.59E-14	2.65E-12	Down
C14H16orf45	6.780	11.545	2.015	0.175	-2.518	2.02E-03	1.36E-02	Down

C14orf132	6.312	1.348	11.276	8.365	3.064	9.65E-04	7.36E-03	Up
C15orf39	495.390	622.442	368.338	0.592	-0.757	3.14E-14	1.55E-12	Down
C1H11ORF87	83.028	99.771	66.285	0.664	-0.590	6.16E-03	3.44E-02	Down
C1QL4	3.603	6.564	0.642	0.098	-3.354	1.00E-02	5.09E-02	Down
C1R	1914.636	2623.734	1205.538	0.459	-1.122	6.00E-56	3.44E-53	Down
C1S	3575.050	4405.893	2744.206	0.623	-0.683	2.08E-26	2.70E-24	Down
C2orf72	50.876	61.131	40.621	0.664	-0.590	2.84E-02	1.14E-01	Down
C33H11orf95	133.936	162.629	105.243	0.647	-0.628	2.09E-04	1.98E-03	Down
C5H11ORF9	76.169	53.016	99.322	1.873	0.906	4.62E-05	5.34E-04	Up
C5H14orf79	115.378	83.025	147.730	1.779	0.831	4.73E-06	6.92E-05	Up
C5orf49	18.710	10.747	26.673	2.482	1.311	3.50E-03	2.13E-02	Up
C6orf58	146.459	47.590	245.329	5.155	2.366	8.55E-40	2.50E-37	Up
C7	248.157	392.827	103.487	0.263	-1.924	1.66E-44	6.02E-42	Down
C8H1orf168	21.389	14.706	28.072	1.909	0.933	2.47E-02	1.03E-01	Up
C9ORF58	11.649	5.421	17.877	3.298	1.721	3.83E-03	2.30E-02	Up
CA3B	168.220	67.945	268.495	3.952	1.982	1.25E-29	1.96E-27	Up
CA6	61.764	46.336	77.192	1.666	0.736	2.42E-03	1.58E-02	Up
CA9	6.312	9.725	2.898	0.298	-1.747	3.68E-02	1.39E-01	Down
CACNA2D2	161.242	197.644	124.839	0.632	-0.663	1.86E-05	2.36E-04	Down
CADM1	256.167	311.558	200.775	0.644	-0.634	7.61E-07	1.31E-05	Down
CADPS	79.885	57.819	101.951	1.763	0.818	1.63E-04	1.61E-03	Up
CALR3	69.335	88.161	50.510	0.573	-0.804	5.91E-04	4.79E-03	Down
CAMK1D	126.621	66.694	186.548	2.797	1.484	1.91E-16	1.15E-14	Up
CAPN14	109.893	48.520	171.265	3.530	1.820	2.68E-20	2.35E-18	Up
CAPN5	74.639	48.251	101.026	2.094	1.066	2.10E-06	3.33E-05	Up
CAPN6	1819.654	2773.835	865.473	0.312	-1.680	3.14E-116	5.85E-113	Down
CARD11	7.641	3.015	12.267	4.069	2.025	8.80E-03	4.58E-02	Up
CASP3	1183.273	1501.119	865.427	0.577	-0.795	2.28E-24	2.63E-22	Down
CASZ1	8.956	4.794	13.118	2.736	1.452	3.10E-02	1.22E-01	Up
CAT	129.589	78.436	180.741	2.304	1.204	9.70E-08	2.00E-06	Up
CBFA2T3	546.952	657.401	436.503	0.664	-0.591	1.01E-06	1.69E-05	Down
CCDC13	101.274	122.022	80.525	0.660	-0.600	1.99E-03	1.35E-02	Down
CCDC170	9.626	4.062	15.190	3.739	1.903	4.88E-03	2.82E-02	Up
CCDC3	61.823	103.317	20.328	0.197	-2.346	1.21E-18	8.88E-17	Down
CCDC85A	26.826	45.557	8.096	0.178	-2.492	1.19E-09	3.34E-08	Down
CCK	5679.368	4008.513	7350.222	1.834	0.875	5.37E-46	2.10E-43	Up
CCNE2	47.826	24.755	70.897	2.864	1.518	9.18E-06	1.24E-04	Up
CD200R1	46.969	15.035	78.902	5.248	2.392	4.55E-15	2.52E-13	Up
CD200R1L	12.119	4.434	19.804	4.467	2.159	1.18E-03	8.73E-03	Up
CD3D	19.025	11.523	26.527	2.302	1.203	6.64E-03	3.65E-02	Up
CD3E	20.174	12.353	27.995	2.266	1.180	6.64E-03	3.65E-02	Up
CD7	357.954	208.518	507.390	2.433	1.283	9.95E-29	1.48E-26	Up
CD74	28.181	20.896	35.466	1.697	0.763	4.14E-02	1.52E-01	Up
CD82	394.829	484.664	304.994	0.629	-0.668	1.08E-09	3.05E-08	Down
CDC25A	287.738	219.634	355.842	1.620	0.696	1.89E-08	4.38E-07	Up
CDC6	302.303	172.434	432.173	2.506	1.326	2.72E-13	1.20E-11	Up
CDC7	101.210	73.164	129.256	1.767	0.821	2.44E-05	3.03E-04	Up
CDCA7	765.441	495.595	1035.286	2.089	1.063	3.88E-33	8.02E-31	Up
CDH11	862.413	638.308	1086.518	1.702	0.767	1.73E-13	7.81E-12	Up
CDH12	5.971	2.310	9.631	4.169	2.060	2.09E-02	9.02E-02	Up
CDH2	2969.076	2256.972	3681.179	1.631	0.706	8.85E-27	1.19E-24	Up
CDH5	9665.477	6378.523	12952.430	2.031	1.022	9.40E-66	6.66E-63	Up
CDHR4	18.298	10.996	25.601	2.328	1.219	7.26E-03	3.91E-02	Up
CDT1	530.933	382.518	679.348	1.776	0.829	7.16E-15	3.84E-13	Up
CEBPD	2917.731	3539.313	2296.149	0.649	-0.624	5.79E-12	2.25E-10	Down
CELF2	147.143	106.737	187.549	1.757	0.813	7.77E-07	1.34E-05	Up
CELSR1	1227.645	934.018	1521.271	1.629	0.704	1.44E-19	1.19E-17	Up
CENPO	226.519	181.202	271.836	1.500	0.585	1.62E-03	1.14E-02	Up

CENPP	107.012	83.577	130.446	1.561	0.642	7.37E-04	5.82E-03	Up
CEP112	41.606	32.818	50.394	1.536	0.619	3.15E-02	1.23E-01	Up
CEP135	159.424	126.473	192.375	1.521	0.605	1.55E-04	1.54E-03	Up
CEP152	536.422	357.390	715.454	2.002	1.001	1.81E-18	1.30E-16	Up
CEP350L	25.971	12.225	39.717	3.249	1.700	1.04E-05	1.39E-04	Up
CERS6	15.268	8.459	22.077	2.610	1.384	7.61E-03	4.06E-02	Up
CFAP99	26.410	19.407	33.413	1.722	0.784	3.30E-02	1.28E-01	Up
CHAC1	2777.656	4202.984	1352.327	0.322	-1.636	1.83E-127	4.54E-124	Down
CHAF1A	536.408	427.701	645.115	1.508	0.593	2.09E-09	5.64E-08	Up
CHEK1	343.349	255.845	430.852	1.684	0.752	7.57E-04	5.97E-03	Up
CHRNA6	82.708	50.445	114.972	2.279	1.189	3.25E-08	7.30E-07	Up
CHST11	688.862	532.450	845.275	1.588	0.667	2.00E-12	8.05E-11	Up
CHTF8	211.586	144.607	278.564	1.926	0.946	3.90E-10	1.19E-08	Up
CLC2LL	14.159	8.523	19.796	2.323	1.216	2.00E-02	8.74E-02	Up
CLCNKB	294.107	193.659	394.555	2.037	1.027	1.23E-16	7.51E-15	Up
CLDN11	16.779	8.927	24.631	2.759	1.464	2.67E-03	1.70E-02	Up
CLDN20	6.792	10.403	3.181	0.306	-1.709	3.42E-02	1.31E-01	Down
CLEC3B	13.479	20.807	6.151	0.296	-1.758	1.21E-03	8.91E-03	Down
CLGN	8.481	1.683	15.278	9.077	3.182	7.49E-05	8.14E-04	Up
CLPP	15.758	21.160	10.356	0.489	-1.031	3.33E-02	1.28E-01	Down
CLSPN	273.793	193.641	353.945	1.828	0.870	1.08E-07	2.21E-06	Up
CMBL	26.664	37.512	15.817	0.422	-1.246	8.28E-04	6.46E-03	Down
CMFK2	94.117	118.053	70.181	0.594	-0.750	1.68E-04	1.65E-03	Down
CMTM7	23.725	16.435	31.015	1.887	0.916	2.01E-02	8.80E-02	Up
COBL	828.466	1032.436	624.495	0.605	-0.725	2.14E-17	1.38E-15	Down
COBLL1	87.412	59.444	115.379	1.941	0.957	9.08E-03	4.70E-02	Up
COL10A1	7.071	1.074	13.068	12.164	3.605	1.20E-03	8.85E-03	Up
COL11A1	10.597	3.444	17.751	5.154	2.366	2.98E-04	2.67E-03	Up
COL15A1	542.390	407.507	677.273	1.662	0.733	6.50E-14	3.04E-12	Up
COL2A1	40.187	50.128	30.247	0.603	-0.729	1.48E-02	6.94E-02	Down
COL3A1	48479.924	68704.285	28255.564	0.411	-1.282	5.25E-104	7.11E-101	Down
COL8A1	271.280	455.669	86.892	0.191	-2.391	1.36E-38	3.69E-36	Down
COMP	109.692	137.236	82.148	0.599	-0.740	5.81E-05	6.51E-04	Down
CPT1A	2092.775	2732.279	1453.272	0.532	-0.911	2.16E-39	6.19E-37	Down
CREB3L1	2793.073	3379.531	2206.615	0.653	-0.615	1.17E-20	1.05E-18	Down
CRIP1	172.564	105.073	240.055	2.285	1.192	1.16E-08	2.79E-07	Up
CRISPLD1	85.674	23.925	147.424	6.162	2.623	8.24E-29	1.25E-26	Up
CRLF1	269.457	149.793	389.122	2.598	1.377	3.13E-26	4.02E-24	Up
CRMP1	16.510	9.219	23.802	2.582	1.368	5.05E-03	2.91E-02	Up
CRY4	171.337	210.324	132.350	0.629	-0.668	1.09E-05	1.45E-04	Down
CSF2RA	113.229	82.498	143.960	1.745	0.803	1.28E-05	1.68E-04	Up
CSGALNACT1	1429.577	1065.178	1793.976	1.684	0.752	6.84E-24	7.59E-22	Up
CSRP2	2535.907	1425.588	3646.225	2.558	1.355	3.61E-87	4.14E-84	Up
CTH	325.389	407.055	243.723	0.599	-0.740	1.66E-08	3.89E-07	Down
CTTNBP2	89.923	112.022	67.823	0.605	-0.724	3.27E-04	2.91E-03	Down
CTXN1	5.209	1.022	9.397	9.196	3.201	2.26E-03	1.49E-02	Up
CUBN	817.285	645.566	989.005	1.532	0.615	8.10E-13	3.39E-11	Up
CUX2	124.658	92.891	156.425	1.684	0.752	4.82E-03	2.79E-02	Up
CXCL12	564.146	335.443	792.848	2.364	1.241	6.95E-37	1.67E-34	Up
CXCL14	7743.774	9326.615	6160.932	0.661	-0.598	1.92E-23	2.10E-21	Down
CYP1B1	80.503	56.708	104.298	1.839	0.879	2.52E-03	1.63E-02	Up
CYP2J23	39.515	29.148	49.881	1.711	0.775	1.24E-02	6.05E-02	Up
CYP4V2	113.207	83.107	143.307	1.724	0.786	1.85E-05	2.34E-04	Up
CYP51A1	8957.764	6744.847	11170.680	1.656	0.728	2.36E-34	5.09E-32	Up
CYTH4	178.336	125.101	231.570	1.851	0.888	4.44E-09	1.14E-07	Up
CYTL1	197.421	246.825	148.017	0.600	-0.738	2.72E-07	5.18E-06	Down
DAB2	73.587	94.606	52.568	0.556	-0.848	1.31E-04	1.33E-03	Down
DCBLD1	28.100	15.482	40.719	2.630	1.395	1.72E-04	1.68E-03	Up

DCX	374.704	644.441	104.968	0.163	-2.618	2.18E-101	2.70E-98	Down
DDIT3	285.398	359.446	211.350	0.588	-0.766	1.39E-06	2.29E-05	Down
DDIT4	3565.456	5050.035	2080.877	0.412	-1.279	1.06E-85	1.13E-82	Down
DDO	18.171	23.901	12.440	0.520	-0.942	3.96E-02	1.47E-01	Down
DENND2A	504.443	396.577	612.308	1.544	0.627	2.29E-10	7.19E-09	Up
DENND2D	100.407	123.428	77.386	0.627	-0.674	1.53E-02	7.12E-02	Down
DENND5A	2038.336	2493.937	1582.736	0.635	-0.656	3.38E-18	2.38E-16	Down
DGKB	1517.361	965.590	2069.131	2.143	1.100	2.82E-49	1.31E-46	Up
DGKG	5.760	2.440	9.081	3.721	1.896	3.13E-02	1.23E-01	Up
DGKI	34.521	25.480	43.562	1.710	0.774	2.09E-02	9.02E-02	Up
DHDH	41.219	52.522	29.916	0.570	-0.812	6.77E-03	3.70E-02	Down
DHFR	168.293	131.029	205.557	1.569	0.650	1.71E-04	1.68E-03	Up
DHRS4	264.806	188.129	341.482	1.815	0.860	2.60E-11	9.38E-10	Up
DIO2	108.845	182.729	34.961	0.191	-2.386	1.74E-22	1.87E-20	Down
DISC1	67.681	41.622	93.740	2.252	1.171	8.19E-07	1.40E-05	Up
DISP1	1308.470	1638.980	977.961	0.597	-0.745	1.88E-18	1.34E-16	Down
DISP3	10.279	6.158	14.400	2.338	1.225	4.82E-02	1.71E-01	Up
DLGAP2	10.698	5.508	15.888	2.885	1.528	1.47E-02	6.90E-02	Up
DLX3	6.729	10.231	3.228	0.315	-1.664	3.47E-02	1.33E-01	Down
DMB2	167.094	200.621	133.568	0.666	-0.587	1.51E-04	1.50E-03	Down
DNA2	194.263	137.264	251.262	1.830	0.872	2.60E-09	6.83E-08	Up
DNAH5L	7.526	0.661	14.390	21.758	4.443	6.04E-06	8.61E-05	Up
DNAI1	37.772	27.471	48.074	1.750	0.807	1.08E-02	5.43E-02	Up
DNER	270.554	185.779	355.329	1.913	0.936	1.77E-13	7.97E-12	Up
DOCK10	109.297	73.040	145.554	1.993	0.995	1.16E-07	2.36E-06	Up
DOCK4	121.214	81.571	160.858	1.972	0.980	6.25E-08	1.33E-06	Up
DOK2	908.950	1105.504	712.397	0.644	-0.634	1.33E-09	3.71E-08	Down
DOK6	11.702	6.760	16.645	2.462	1.300	2.67E-02	1.09E-01	Up
DRC7	15.462	9.157	21.766	2.377	1.249	1.31E-02	6.29E-02	Up
DRD4	12.635	8.067	17.203	2.132	1.093	4.59E-02	1.65E-01	Up
DTL	148.788	88.628	208.948	2.358	1.237	5.70E-14	2.69E-12	Up
DUSP1	1815.669	2319.554	1311.784	0.566	-0.822	5.05E-07	9.05E-06	Down
DUSP18	26.237	18.238	34.236	1.877	0.909	1.76E-02	7.91E-02	Up
DUSP4	336.390	190.162	482.618	2.538	1.344	8.35E-30	1.32E-27	Up
DUSP6	1499.637	1160.679	1838.596	1.584	0.664	1.51E-19	1.24E-17	Up
DYNC1I1	671.997	487.135	856.859	1.759	0.815	5.07E-19	3.87E-17	Up
E2F1	912.381	566.593	1258.168	2.221	1.151	7.25E-27	9.82E-25	Up
E2F7	160.116	106.338	213.893	2.011	1.008	3.13E-10	9.70E-09	Up
EAF2	1018.718	813.832	1223.603	1.504	0.588	1.52E-10	4.89E-09	Up
EBF3	1033.491	1317.018	749.964	0.569	-0.812	4.44E-24	4.97E-22	Down
ECE2	533.592	381.653	685.531	1.796	0.845	2.16E-17	1.39E-15	Up
ECSCR	41.237	12.260	70.214	5.727	2.518	9.12E-09	2.25E-07	Up
EDNRA	177.561	127.640	227.483	1.782	0.834	3.82E-08	8.47E-07	Up
EDNRB2	1012.013	1363.519	660.507	0.484	-1.046	4.24E-34	9.02E-32	Down
EFCAB11	9.413	4.863	13.963	2.871	1.522	2.10E-02	9.05E-02	Up
ELF3	3.409	6.512	0.306	0.047	-4.412	3.79E-03	2.28E-02	Down
ELMO3	110.353	85.982	134.723	1.567	0.648	4.19E-04	3.59E-03	Up
ELN	170.451	248.387	92.514	0.372	-1.425	7.34E-19	5.45E-17	Down
ENDOU	6.616	3.066	10.167	3.316	1.730	4.50E-02	1.63E-01	Up
ENHO	53.289	34.311	72.268	2.106	1.075	6.30E-05	7.00E-04	Up
ENO2	542.053	692.133	391.972	0.566	-0.820	2.32E-14	1.16E-12	Down
ENPP2	911.506	1296.002	527.010	0.407	-1.298	1.97E-48	8.88E-46	Down
ENS-1	4.084	1.006	7.163	7.123	2.833	2.16E-02	9.22E-02	Up
ENTPD1	442.617	573.834	311.400	0.543	-0.882	3.24E-13	1.43E-11	Down
EPB41	38.059	52.432	23.685	0.452	-1.146	2.06E-02	8.93E-02	Down
EPHA2	2349.312	1870.616	2828.008	1.512	0.596	1.54E-18	1.12E-16	Up
EPM2A	169.679	134.066	205.292	1.531	0.615	4.85E-05	5.57E-04	Up
EPS8	421.834	278.261	565.408	2.032	1.023	1.62E-21	1.60E-19	Up

ERICH3	56.950	70.390	43.511	0.618	-0.694	7.22E-03	3.90E-02	Down
ERNI	9.046	4.872	13.219	2.713	1.440	3.04E-02	1.20E-01	Up
ES1ML2	18.932	4.434	33.431	7.541	2.915	8.12E-07	1.39E-05	Up
ESCO2	162.897	118.897	206.896	1.740	0.799	3.27E-07	6.11E-06	Up
ETV1	1265.140	968.670	1561.611	1.612	0.689	4.34E-19	3.33E-17	Up
ETV4	1291.683	752.286	1831.081	2.434	1.283	4.70E-40	1.40E-37	Up
EVI2A	127.147	79.223	175.071	2.210	1.144	1.47E-10	4.77E-09	Up
EXFABP	152.651	297.801	7.501	0.025	-5.311	6.56E-110	1.08E-106	Down
EXO1	431.923	255.479	608.368	2.381	1.252	3.45E-31	6.26E-29	Up
EXOC3L1	282.954	220.684	345.225	1.564	0.646	1.70E-07	3.35E-06	Up
F2RL3	365.984	447.808	284.161	0.635	-0.656	4.30E-09	1.11E-07	Down
FAAH	421.243	285.197	557.289	1.954	0.966	1.31E-19	1.09E-17	Up
FABP7	485.857	387.307	584.408	1.509	0.593	3.69E-09	9.57E-08	Up
FADS1L1	48.198	65.872	30.524	0.463	-1.110	4.27E-04	3.63E-03	Down
FAM129A	1182.744	1509.153	856.335	0.567	-0.817	7.39E-26	9.32E-24	Down
FAM131A	26.333	15.773	36.893	2.339	1.226	1.21E-03	8.91E-03	Up
FAM132A	41.231	22.020	60.442	2.745	1.457	1.39E-06	2.29E-05	Up
FAM155B	138.368	98.025	178.712	1.823	0.866	2.20E-07	4.26E-06	Up
FAM172BP	14.071	19.357	8.785	0.454	-1.140	2.91E-02	1.16E-01	Down
FAM184A	35.814	26.135	45.493	1.741	0.800	1.29E-02	6.24E-02	Up
FAM185A	930.269	1135.951	724.588	0.638	-0.649	8.45E-13	3.52E-11	Down
FAM198B	4.440	1.031	7.848	7.613	2.928	9.04E-03	4.68E-02	Up
FAM20C	527.151	661.871	392.431	0.593	-0.754	1.46E-14	7.56E-13	Down
FAM212B	34.718	19.303	50.134	2.597	1.377	4.22E-05	4.92E-04	Up
FAM26E	22.777	10.061	35.493	3.528	1.819	1.29E-05	1.69E-04	Up
FAM65C	754.090	913.410	594.771	0.651	-0.619	1.28E-12	5.27E-11	Down
FAM83B	48.772	67.749	29.796	0.440	-1.185	1.68E-05	2.15E-04	Down
FANCB	77.113	61.672	92.554	1.501	0.586	8.28E-03	4.37E-02	Up
FANCC	163.240	123.580	202.900	1.642	0.715	4.67E-06	6.83E-05	Up
FANCD2	214.752	161.510	267.994	1.659	0.731	4.13E-07	7.53E-06	Up
FANCF	101.731	74.653	128.809	1.725	0.787	5.75E-03	3.24E-02	Up
FAS	680.264	816.556	543.972	0.666	-0.586	6.80E-11	2.33E-09	Down
FAT4	780.746	954.012	607.480	0.637	-0.651	5.75E-14	2.71E-12	Down
FBLN1	7867.522	10003.542	5731.502	0.573	-0.804	4.84E-41	1.53E-38	Down
FDFT1	2323.203	1820.492	2825.915	1.552	0.634	9.91E-21	9.11E-19	Up
FDPS	1887.364	1156.300	2618.429	2.264	1.179	1.76E-09	4.82E-08	Up
FEN1	843.977	618.330	1069.625	1.730	0.791	8.60E-08	1.79E-06	Up
FGD5	301.216	194.152	408.280	2.103	1.072	2.57E-18	1.82E-16	Up
FGF1	3.207	0.335	6.079	18.136	4.181	7.03E-03	3.82E-02	Up
FGF10	15.381	4.854	25.908	5.338	2.416	7.65E-06	1.06E-04	Up
FGF12	6.594	3.214	9.974	3.103	1.634	3.71E-02	1.40E-01	Up
FGF14	62.979	37.961	87.998	2.318	1.213	5.17E-05	5.86E-04	Up
FGF22	9.524	15.212	3.836	0.252	-1.988	2.70E-03	1.72E-02	Down
FGFBP1	156.363	57.455	255.271	4.443	2.152	6.95E-36	1.62E-33	Up
FGFR2	585.056	719.139	450.973	0.627	-0.673	1.38E-12	5.66E-11	Down
FGFR3	59.779	46.516	73.043	1.570	0.651	9.34E-03	4.81E-02	Up
FGL1	796.703	1086.479	506.928	0.467	-1.100	3.06E-14	1.52E-12	Down
FGR	5.209	2.114	8.304	3.928	1.974	3.18E-02	1.24E-01	Up
FIGLA	7.533	3.437	11.630	3.384	1.759	2.00E-02	8.75E-02	Up
FIGNL1	93.702	73.943	113.461	1.534	0.618	2.45E-03	1.59E-02	Up
FJX1	425.828	337.863	513.792	1.521	0.605	6.04E-06	8.61E-05	Up
FLRT1	145.359	175.288	115.429	0.659	-0.603	1.29E-03	9.36E-03	Down
FLVCR2	1.920	3.841	0.000	0.000	#NAME?	1.93E-02	8.52E-02	Down
FOXI3	10.780	4.828	16.731	3.465	1.793	3.81E-03	2.30E-02	Up
FOXO3	910.353	1213.840	606.867	0.500	-1.000	6.70E-33	1.35E-30	Down
FOXP2	18.375	10.444	26.306	2.519	1.333	7.79E-03	4.14E-02	Up
FRMD4A	367.072	190.119	544.025	2.861	1.517	2.30E-39	6.46E-37	Up
FRRS1	1817.753	2207.981	1427.525	0.647	-0.629	1.40E-10	4.54E-09	Down

FZD1	7310.132	8864.913	5755.351	0.649	-0.623	3.55E-25	4.26E-23	Down
G0S2	768.913	1025.978	511.848	0.499	-1.003	7.49E-30	1.20E-27	Down
GAB3	73.663	24.974	122.352	4.899	2.293	1.14E-20	1.03E-18	Up
GADD45B	1485.549	1848.223	1122.876	0.608	-0.719	2.26E-22	2.37E-20	Down
GADL1	15.712	10.343	21.081	2.038	1.027	3.43E-02	1.31E-01	Up
GALNT15	105.520	135.895	75.145	0.553	-0.855	1.30E-03	9.47E-03	Down
GALNTL6	4.045	0.978	7.112	7.268	2.862	1.62E-02	7.44E-02	Up
GAP43	99.280	154.665	43.895	0.284	-1.817	7.36E-19	5.45E-17	Down
GAS1	449.977	547.392	352.562	0.644	-0.635	6.03E-10	1.80E-08	Down
GAS6	58.593	42.885	74.301	1.733	0.793	1.63E-03	1.14E-02	Up
GATSL2	903.621	1122.802	684.440	0.610	-0.714	1.15E-17	7.66E-16	Down
GATSL3	588.428	359.415	817.441	2.274	1.185	7.39E-13	3.11E-11	Up
GBE	29.525	21.861	37.189	1.701	0.766	3.36E-02	1.30E-01	Up
GBX2	90.339	63.893	116.785	1.828	0.870	1.96E-05	2.47E-04	Up
GCNA	174.035	127.783	220.287	1.724	0.786	2.83E-07	5.36E-06	Up
GDA	23.338	33.290	13.386	0.402	-1.314	1.28E-03	9.34E-03	Down
GDPD2	60.621	84.669	36.574	0.432	-1.211	1.09E-05	1.45E-04	Down
GDPD4	18.817	28.838	8.796	0.305	-1.713	1.75E-04	1.70E-03	Down
GGT5	98.896	63.490	134.302	2.115	1.081	4.57E-08	1.00E-06	Up
GINM1	1181.237	1453.118	909.356	0.626	-0.676	1.81E-12	7.30E-11	Down
GINS1	94.988	61.697	128.279	2.079	1.056	4.16E-04	3.57E-03	Up
GINS2	469.845	327.571	612.119	1.869	0.902	1.48E-14	7.65E-13	Up
GJA5	2.232	4.158	0.306	0.074	-3.764	4.28E-02	1.56E-01	Down
GJC1	72.253	52.796	91.709	1.737	0.797	4.74E-04	3.95E-03	Up
GJC2	151.821	115.233	188.409	1.635	0.709	8.71E-06	1.19E-04	Up
GLB1L2	63.379	50.288	76.470	1.521	0.605	1.26E-02	6.12E-02	Up
GLI1	39.877	55.073	24.681	0.448	-1.158	1.62E-04	1.60E-03	Down
GLIS3	705.612	858.780	552.445	0.643	-0.636	7.60E-13	3.19E-11	Down
GLRB	96.633	22.301	170.964	7.666	2.938	1.24E-37	3.18E-35	Up
GLTSCR1L	318.861	397.311	240.411	0.605	-0.725	7.65E-05	8.26E-04	Down
GLUL	922.210	1118.122	726.297	0.650	-0.622	4.26E-14	2.06E-12	Down
GMNN	71.841	50.077	93.605	1.869	0.902	6.19E-05	6.88E-04	Up
GMPR	51.316	38.324	64.308	1.678	0.747	5.27E-03	3.01E-02	Up
GNB1L	288.562	212.005	365.120	1.722	0.784	2.02E-10	6.36E-09	Up
GNG4	11.005	4.794	17.215	3.591	1.844	2.62E-03	1.68E-02	Up
GOLM1	1177.954	899.132	1456.776	1.620	0.696	3.39E-19	2.64E-17	Up
GP1BA	29.752	22.098	37.407	1.693	0.759	3.02E-02	1.20E-01	Up
GPC4	12633.935	15241.654	10026.216	0.658	-0.604	6.04E-25	7.13E-23	Down
GPR1	652.499	503.861	801.137	1.590	0.669	3.35E-08	7.50E-07	Up
GPR146	485.592	652.271	318.913	0.489	-1.032	2.97E-24	3.40E-22	Down
GPR158	20.570	9.864	31.276	3.171	1.665	1.78E-04	1.72E-03	Up
GPR19	22.963	30.112	15.813	0.525	-0.929	2.02E-02	8.80E-02	Down
GPR68	637.972	478.665	797.279	1.666	0.736	4.75E-10	1.44E-08	Up
GPT2	200.050	246.178	153.921	0.625	-0.678	3.34E-04	2.96E-03	Down
GRIA3	23.047	10.068	36.027	3.578	1.839	1.03E-05	1.38E-04	Up
GRM4	53.684	30.779	76.589	2.488	1.315	5.16E-04	4.25E-03	Up
GSG1	38.720	23.503	53.937	2.295	1.198	1.38E-04	1.38E-03	Up
GSTA4L	3.758	1.006	6.510	6.474	2.695	2.71E-02	1.10E-01	Up
GSTAL3	46.070	34.268	57.871	1.689	0.756	7.63E-03	4.07E-02	Up
GTF2I	1102.499	1352.660	852.338	0.630	-0.666	3.18E-17	2.01E-15	Down
GTPBP2	1217.352	1505.590	929.114	0.617	-0.696	2.08E-19	1.66E-17	Down
GVINP1	678.955	942.347	415.563	0.441	-1.181	7.94E-38	2.10E-35	Down
HACL1	574.931	690.200	459.662	0.666	-0.586	6.95E-10	2.04E-08	Down
HAO2	6.435	10.925	1.944	0.178	-2.491	3.50E-03	2.13E-02	Down
HAS2	116.393	73.860	158.925	2.152	1.105	1.59E-09	4.39E-08	Up
HCLS1	20.215	9.878	30.553	3.093	1.629	2.57E-04	2.36E-03	Up
HEATR7B2L2	90.086	26.764	153.409	5.732	2.519	1.23E-25	1.54E-23	Up
HELZ2	559.393	672.675	446.111	0.663	-0.593	5.95E-10	1.78E-08	Down

HEMK1	454.548	559.451	349.646	0.625	-0.678	6.32E-11	2.17E-09	Down
HEPH	3579.099	4499.859	2658.338	0.591	-0.759	2.34E-32	4.52E-30	Down
HIST1H101	1164.024	1516.042	812.007	0.536	-0.901	1.82E-30	3.04E-28	Down
HIST1H111L	13.515	18.269	8.761	0.480	-1.060	4.04E-02	1.50E-01	Down
HIST1H2A4	60.314	79.489	41.140	0.518	-0.950	1.35E-04	1.36E-03	Down
HIST1H2A4L2	11.310	16.800	5.820	0.346	-1.529	2.21E-02	9.40E-02	Down
HIST1H2B7L2	67.632	89.261	46.002	0.515	-0.956	3.57E-04	3.13E-03	Down
HIST1H3A	56.485	73.674	39.295	0.533	-0.907	5.31E-03	3.03E-02	Down
HIST1H46	4.047	6.803	1.290	0.190	-2.399	2.95E-02	1.18E-01	Down
HLA-F10AL3	52.707	64.007	41.407	0.647	-0.628	1.76E-02	7.91E-02	Down
HMGA2	338.885	235.493	442.277	1.878	0.909	5.78E-15	3.14E-13	Up
HMGCS1	5744.964	4210.524	7279.405	1.729	0.790	8.06E-38	2.10E-35	Up
HORMAD2	23.605	11.579	35.631	3.077	1.622	7.94E-05	8.54E-04	Up
HOXA3	602.510	748.157	456.864	0.611	-0.712	3.55E-14	1.74E-12	Down
HOXA6	163.582	205.550	121.614	0.592	-0.757	1.53E-06	2.49E-05	Down
HPS5	2198.583	4130.192	266.973	0.065	-3.951	3.85E-230	5.73E-226	Down
HSD11B2	11.436	6.204	16.668	2.687	1.426	1.51E-02	7.04E-02	Up
HSD3B1	2.900	5.800	0.000	0.000	#NAME?	1.87E-03	1.28E-02	Down
HSPB7	225.990	151.704	300.276	1.979	0.985	4.14E-13	1.80E-11	Up
HSPB8	5.527	2.431	8.623	3.547	1.826	3.96E-02	1.47E-01	Up
HSPB9	84.481	102.554	66.408	0.648	-0.627	2.86E-03	1.81E-02	Down
HTR1B	84.006	57.807	110.205	1.906	0.931	1.15E-05	1.52E-04	Up
HTR2A	196.743	269.162	124.324	0.462	-1.114	1.35E-14	7.05E-13	Down
HTR4	49.000	30.267	67.733	2.238	1.162	2.32E-05	2.88E-04	Up
ICA1	353.752	271.253	436.252	1.608	0.686	1.60E-09	4.40E-08	Up
ID1	163.548	96.792	230.304	2.379	1.251	3.29E-15	1.84E-13	Up
IDI1	2647.550	1836.306	3458.795	1.884	0.913	8.00E-21	7.49E-19	Up
IFIT5	43.537	57.304	29.769	0.519	-0.945	9.96E-04	7.55E-03	Down
IGDCC3	178.512	113.309	243.715	2.151	1.105	4.14E-13	1.80E-11	Up
IGFBP2	51.305	35.096	67.514	1.924	0.944	4.80E-04	3.99E-03	Up
IGFBP5	250.969	171.874	330.063	1.920	0.941	6.91E-13	2.93E-11	Up
IL13RA2	483.826	378.717	588.935	1.555	0.637	2.30E-10	7.21E-09	Up
IL15	7.387	13.502	1.272	0.094	-3.408	7.82E-05	8.43E-04	Down
IL1R2	23.947	16.513	31.382	1.901	0.926	1.97E-02	8.67E-02	Up
IL1RL1	3.826	6.350	1.302	0.205	-2.286	4.85E-02	1.71E-01	Down
IL20RA	11.230	18.308	4.152	0.227	-2.141	6.09E-04	4.90E-03	Down
IL31RA	1644.713	1985.200	1304.226	0.657	-0.606	1.02E-10	3.38E-09	Down
IL4R	1875.350	2253.586	1497.114	0.664	-0.590	6.80E-17	4.20E-15	Down
IL6ST	3478.258	4293.724	2662.792	0.620	-0.689	6.52E-27	8.98E-25	Down
IMPA2	282.979	354.835	211.123	0.595	-0.749	1.67E-09	4.58E-08	Down
INPP5J	81.038	62.395	99.681	1.598	0.676	1.67E-03	1.16E-02	Up
INSIG1	2806.942	1811.476	3802.408	2.099	1.070	7.61E-57	4.72E-54	Up
IP6K3	16.238	23.380	9.096	0.389	-1.362	4.50E-03	2.64E-02	Down
IRS2	65.267	81.469	49.065	0.602	-0.732	1.95E-03	1.33E-02	Down
IRS4	2265.310	2737.810	1792.810	0.655	-0.611	3.08E-19	2.43E-17	Down
ISM1	914.526	1531.841	297.211	0.194	-2.366	2.88E-137	8.58E-134	Down
ITGA1	26.515	17.560	35.471	2.020	1.014	8.42E-03	4.43E-02	Up
ITGA4	3912.031	2811.556	5012.505	1.783	0.834	1.06E-22	1.14E-20	Up
ITGB4	426.763	319.031	534.495	1.675	0.744	2.40E-12	9.56E-11	Up
ITIH6	29.930	17.524	42.337	2.416	1.273	3.37E-04	2.98E-03	Up
ITPR3	2241.335	1383.781	3098.888	2.239	1.163	4.30E-63	2.91E-60	Up
JAG1	127.009	93.609	160.409	1.714	0.777	1.08E-05	1.44E-04	Up
JAML	117.429	84.677	150.181	1.774	0.827	4.55E-06	6.67E-05	Up
JDP2	679.689	820.434	538.943	0.657	-0.606	2.23E-11	8.13E-10	Down
JPH2	58.741	71.364	46.118	0.646	-0.630	1.20E-02	5.88E-02	Down
KBTBD11	91.607	66.815	116.398	1.742	0.801	9.93E-05	1.04E-03	Up
KCNH2	58.569	34.707	82.431	2.375	1.248	1.21E-06	2.01E-05	Up
KCNH7	10.322	4.846	15.798	3.260	1.705	6.85E-03	3.74E-02	Up

KCNJ11	1.758	0.000	3.515	Inf	Inf	3.71E-02	1.40E-01	Up
KCNK15	34.146	22.486	45.805	2.037	1.026	2.20E-03	1.46E-02	Up
KCNK4	75.887	58.741	93.034	1.584	0.663	3.32E-03	2.04E-02	Up
KCNMB1	181.625	113.875	249.374	2.190	1.131	4.98E-14	2.38E-12	Up
KCNMB2	67.932	50.205	85.658	1.706	0.771	1.12E-03	8.36E-03	Up
KDF1	54.463	65.589	43.338	0.661	-0.598	2.28E-02	9.64E-02	Down
KDR	36.508	15.522	57.494	3.704	1.889	2.24E-08	5.14E-07	Up
KIAA0895L	273.427	218.434	328.421	1.504	0.588	2.44E-06	3.80E-05	Up
KIAA1161	165.532	230.005	101.058	0.439	-1.186	5.41E-14	2.57E-12	Down
KIAA1210	416.730	503.293	330.167	0.656	-0.608	1.12E-08	2.69E-07	Down
KIAA1217	50.689	26.580	74.798	2.814	1.493	7.16E-08	1.51E-06	Up
KIAA1324L	61.864	42.091	81.638	1.940	0.956	1.12E-02	5.56E-02	Up
KIAA1549L	25.333	18.058	32.608	1.806	0.853	2.43E-02	1.01E-01	Up
KIAA1755	97.603	126.187	69.019	0.547	-0.871	1.25E-05	1.64E-04	Down
KIAA2022	308.072	236.963	379.181	1.600	0.678	1.26E-08	3.02E-07	Up
KIF18B	258.242	203.420	313.063	1.539	0.622	8.58E-04	6.65E-03	Up
KIF26A	4522.289	5567.038	3477.540	0.625	-0.679	1.91E-27	2.70E-25	Down
KIRREL3	40.906	22.635	59.178	2.614	1.387	5.27E-05	5.97E-04	Up
KLF8	26.015	18.230	33.800	1.854	0.891	1.65E-02	7.56E-02	Up
KLF9	1066.694	1366.192	767.196	0.562	-0.832	1.93E-25	2.37E-23	Down
KLHL17	265.657	196.616	334.697	1.702	0.767	1.49E-09	4.13E-08	Up
KLHL6	62.986	47.705	78.267	1.641	0.714	2.89E-03	1.83E-02	Up
KRT14	52.492	40.386	64.598	1.600	0.678	2.76E-02	1.12E-01	Up
KRT19	3.181	0.661	5.700	8.619	3.108	2.44E-02	1.02E-01	Up
KRT23	20.203	10.781	29.626	2.748	1.458	1.11E-03	8.25E-03	Up
KRT80	93.387	145.144	41.629	0.287	-1.802	1.52E-17	1.00E-15	Down
LACTBL1	21.481	6.211	36.752	5.917	2.565	2.56E-08	5.82E-07	Up
LAD1	18.509	24.146	12.872	0.533	-0.908	4.11E-02	1.52E-01	Down
LAMA2	85.472	55.377	115.568	2.087	1.061	7.74E-07	1.33E-05	Up
LAMC2	11858.492	7951.034	15765.950	1.983	0.988	9.26E-21	8.56E-19	Up
LAPTM5	93.383	62.518	124.248	1.987	0.991	5.57E-05	6.26E-04	Up
LCAT	23.994	13.306	34.681	2.606	1.382	5.91E-04	4.79E-03	Up
LDHD	10.301	3.788	16.813	4.438	2.150	1.01E-03	7.61E-03	Up
LEKR1	44.514	33.925	55.104	1.624	0.700	1.78E-02	8.01E-02	Up
LGALS2	27.063	19.818	34.309	1.731	0.792	3.27E-02	1.27E-01	Up
LHFPL4	67.666	51.101	84.230	1.648	0.721	2.18E-03	1.45E-02	Up
LHFPL5	33.047	41.492	24.603	0.593	-0.754	2.58E-02	1.06E-01	Down
LHX8	57.233	71.956	42.510	0.591	-0.759	3.01E-03	1.89E-02	Down
LIF	895.880	530.422	1261.339	2.378	1.250	7.87E-15	4.17E-13	Up
LIMCH1	121.763	72.217	171.309	2.372	1.246	2.88E-11	1.03E-09	Up
LINGO2	44.623	71.230	18.017	0.253	-1.983	5.13E-11	1.79E-09	Down
LIPG	2955.294	1487.994	4422.594	2.972	1.572	4.23E-120	9.00E-117	Up
LIPML5	57.525	30.349	84.701	2.791	1.481	1.13E-08	2.72E-07	Up
LMNB1	385.472	305.770	465.174	1.521	0.605	3.14E-08	7.10E-07	Up
LMO2	19.715	12.889	26.540	2.059	1.042	1.45E-02	6.82E-02	Up
LNX1	61.851	80.980	42.723	0.528	-0.923	1.97E-03	1.34E-02	Down
LOC100857622	2108.757	1398.204	2819.309	2.016	1.012	2.21E-07	4.26E-06	Up
LOC100857745	292.769	203.450	382.088	1.878	0.909	2.64E-13	1.18E-11	Up
LOC100857843	77.936	59.753	96.120	1.609	0.686	6.18E-03	3.44E-02	Up
LOC100858360	43.950	31.944	55.957	1.752	0.809	5.18E-03	2.97E-02	Up
LOC100858796	3083.337	3882.351	2284.324	0.588	-0.765	1.42E-31	2.62E-29	Down
LOC100858869	22.457	9.715	35.200	3.623	1.857	1.04E-05	1.40E-04	Up
LOC100858919	29.649	15.242	44.056	2.890	1.531	1.04E-03	7.82E-03	Up
LOC100859273	1298.149	832.555	1763.742	2.118	1.083	7.73E-45	2.88E-42	Up
LOC101747538	1.688	3.375	0.000	0.000	#NAME?	3.02E-02	1.20E-01	Down
LOC101748706	135.727	85.542	185.912	2.173	1.120	5.82E-11	2.02E-09	Up
LOC101749795	43.138	69.234	17.042	0.246	-2.022	6.32E-11	2.17E-09	Down
LOC101750112	975.702	770.451	1180.953	1.533	0.616	3.85E-14	1.87E-12	Up

LOC101750889	15.998	10.471	21.525	2.056	1.040	3.69E-02	1.39E-01	Up
LOC101751325	157.307	124.697	189.917	1.523	0.607	1.26E-04	1.28E-03	Up
LOC101751749	275.448	211.176	339.720	1.609	0.686	1.76E-04	1.71E-03	Up
LOC101752020	158.391	198.568	118.214	0.595	-0.748	1.76E-06	2.82E-05	Down
LOC101752158	1419.016	1064.940	1773.092	1.665	0.735	1.96E-20	1.75E-18	Up
LOC107049018	24.634	18.011	31.258	1.736	0.795	3.82E-02	1.43E-01	Up
LOC107049096	9.388	13.281	5.496	0.414	-1.273	4.79E-02	1.70E-01	Down
LOC107049124	33.194	52.705	13.683	0.260	-1.946	3.27E-08	7.34E-07	Down
LOC107049387	30.392	39.502	21.281	0.539	-0.892	1.24E-02	6.06E-02	Down
LOC107049485	363.000	285.488	440.511	1.543	0.626	2.03E-08	4.67E-07	Up
LOC107049500	66.685	39.584	93.785	2.369	1.244	4.16E-02	1.53E-01	Up
LOC107049730	12.138	6.881	17.395	2.528	1.338	1.90E-02	8.40E-02	Up
LOC107049890	6.014	9.141	2.887	0.316	-1.663	4.69E-02	1.68E-01	Down
LOC107049904	94.135	74.165	114.105	1.539	0.622	2.10E-03	1.40E-02	Up
LOC107050152	82.982	66.129	99.836	1.510	0.594	4.67E-03	2.72E-02	Up
LOC107050261	90.931	141.964	39.897	0.281	-1.831	4.71E-02	1.68E-01	Down
LOC107050349	35.808	46.795	24.821	0.530	-0.915	4.56E-03	2.66E-02	Down
LOC107050538	79.767	98.088	61.446	0.626	-0.675	1.89E-03	1.29E-02	Down
LOC107050574	39.680	29.164	50.196	1.721	0.783	9.36E-03	4.82E-02	Up
LOC107050879	713.576	882.009	545.142	0.618	-0.694	1.60E-08	3.76E-07	Down
LOC107051217	197.838	142.147	253.529	1.784	0.835	9.36E-09	2.29E-07	Up
LOC107051323	1634.052	2010.397	1257.707	0.626	-0.677	1.41E-08	3.33E-07	Down
LOC107051465	12.292	5.662	18.921	3.342	1.741	3.11E-03	1.94E-02	Up
LOC107051857	129.531	91.476	167.586	1.832	0.873	4.43E-07	8.00E-06	Up
LOC107051973	47.317	34.020	60.613	1.782	0.833	2.69E-03	1.71E-02	Up
LOC107052568	2.279	0.370	4.189	11.335	3.503	4.54E-02	1.64E-01	Up
LOC107052602	22.612	28.701	16.523	0.576	-0.797	4.56E-02	1.64E-01	Down
LOC107052855	24.760	17.982	31.539	1.754	0.811	3.11E-02	1.22E-01	Up
LOC107053714	3.206	0.335	6.078	18.131	4.180	7.04E-03	3.82E-02	Up
LOC107054697	15.294	21.243	9.345	0.440	-1.185	1.77E-02	7.95E-02	Down
LOC107054798	17.530	22.782	12.278	0.539	-0.892	4.96E-02	1.74E-01	Down
LOC107054849	12.543	19.614	5.472	0.279	-1.842	1.33E-03	9.62E-03	Down
LOC107055072	71.379	86.333	56.426	0.654	-0.614	9.04E-03	4.68E-02	Down
LOC107055200	3.564	0.335	6.793	20.264	4.341	3.60E-03	2.18E-02	Up
LOC107055477	49.171	39.236	59.105	1.506	0.591	2.68E-02	1.09E-01	Up
LOC107055482	41.145	29.372	52.919	1.802	0.849	2.15E-02	9.21E-02	Up
LOC107056538	28.689	39.156	18.221	0.465	-1.104	2.48E-03	1.61E-02	Down
LOC107057254	20.705	27.122	14.287	0.527	-0.925	3.34E-02	1.29E-01	Down
LOC107057394	24.469	32.424	16.513	0.509	-0.973	4.96E-02	1.74E-01	Down
LOC112530215	234.792	186.691	282.892	1.515	0.600	6.26E-06	8.84E-05	Up
LOC112530336	43.623	33.240	54.005	1.625	0.700	1.29E-02	6.21E-02	Up
LOC112530490	21.633	15.213	28.053	1.844	0.883	3.26E-02	1.26E-01	Up
LOC112530576	24.749	34.743	14.756	0.425	-1.235	1.70E-03	1.19E-02	Down
LOC112530649	3.884	0.705	7.064	10.023	3.325	7.40E-03	3.97E-02	Up
LOC112531351	78.810	59.528	98.092	1.648	0.721	9.24E-04	7.09E-03	Up
LOC112531455	72.745	89.109	56.381	0.633	-0.660	3.37E-03	2.06E-02	Down
LOC112532368	84.595	61.614	107.576	1.746	0.804	1.19E-03	8.79E-03	Up
LOC112532827	10.600	16.608	4.591	0.276	-1.855	2.93E-03	1.85E-02	Down
LOC112532873	43.431	54.097	32.766	0.606	-0.723	1.30E-02	6.24E-02	Down
LOC112532874	11.665	4.432	18.898	4.264	2.092	4.66E-02	1.67E-01	Up
LOC112532875	344.346	270.842	417.850	1.543	0.626	4.68E-08	1.02E-06	Up
LOC112532977	2.891	5.111	0.672	0.131	-2.928	3.60E-02	1.37E-01	Down
LOC112532987	73.547	57.357	89.737	1.565	0.646	3.82E-03	2.30E-02	Up
LOC112533339	8.292	3.797	12.787	3.367	1.752	4.97E-02	1.74E-01	Up
LOC112533459	14.811	7.782	21.839	2.806	1.489	5.46E-03	3.10E-02	Up
LOC112533497	1.930	0.000	3.859	Inf	Inf	2.04E-02	8.88E-02	Up
LOC112533535	13.554	18.287	8.821	0.482	-1.052	4.03E-02	1.49E-01	Down
LOC112533563	18.200	24.434	11.967	0.490	-1.030	2.37E-02	9.92E-02	Down

LOC395991	4.007	1.323	6.691	5.059	2.339	3.90E-02	1.46E-01	Up
LOC415312	100.806	139.477	62.135	0.445	-1.167	2.20E-09	5.89E-08	Down
LOC417013	24.708	35.516	13.899	0.391	-1.353	5.92E-04	4.79E-03	Down
LOC417386	289.357	347.240	231.475	0.667	-0.585	1.62E-06	2.61E-05	Down
LOC417937	36.228	47.858	24.598	0.514	-0.960	6.27E-03	3.48E-02	Down
LOC420486	32.818	24.191	41.444	1.713	0.777	2.41E-02	1.00E-01	Up
LOC421502	102.398	17.973	186.823	10.395	3.378	2.56E-42	8.27E-40	Up
LOC422147	65.248	36.863	93.633	2.540	1.345	3.71E-08	8.25E-07	Up
LOC422171	2690.637	2065.939	3315.335	1.605	0.682	1.51E-24	1.77E-22	Up
LOC422320	6.824	3.368	10.280	3.052	1.610	4.46E-02	1.61E-01	Up
LOC422928	21.832	7.881	35.784	4.541	2.183	4.91E-07	8.80E-06	Up
LOC423752	27.577	34.349	20.805	0.606	-0.723	4.91E-02	1.73E-01	Down
LOC424430	90.220	63.913	116.527	1.823	0.866	2.31E-05	2.88E-04	Up
LOC424919	41.902	31.431	52.372	1.666	0.737	3.56E-02	1.35E-01	Up
LOC425795	134.815	107.583	162.046	1.506	0.591	6.49E-03	3.58E-02	Up
LOC426385	144.199	87.755	200.643	2.286	1.193	1.28E-12	5.26E-11	Up
LOC428714	8.178	3.745	12.611	3.367	1.752	2.40E-02	1.00E-01	Up
LOC429098	14.422	7.843	21.000	2.677	1.421	1.54E-02	7.15E-02	Up
LOC430433	35.311	27.106	43.516	1.605	0.683	3.25E-02	1.26E-01	Up
LOC769486	4.407	7.501	1.314	0.175	-2.514	1.68E-02	7.68E-02	Down
LOC769726	1064.853	1482.426	647.280	0.437	-1.195	2.40E-33	5.02E-31	Down
LOC771388	9.317	15.381	3.252	0.211	-2.242	1.06E-02	5.31E-02	Down
LOC771545	202.923	147.059	258.788	1.760	0.815	8.45E-09	2.10E-07	Up
LOC776507	648.859	411.828	885.891	2.151	1.105	2.78E-17	1.78E-15	Up
LOX	1687.882	2172.699	1203.065	0.554	-0.853	1.51E-32	2.97E-30	Down
LPCAT3	1553.748	2109.708	997.789	0.473	-1.080	4.25E-48	1.81E-45	Down
LRFN3	327.901	398.533	257.270	0.646	-0.631	5.87E-08	1.26E-06	Down
LRRC17	381.668	663.164	100.173	0.151	-2.727	5.58E-109	8.31E-106	Down
LRRC56	34.109	15.187	53.031	3.492	1.804	2.13E-07	4.13E-06	Up
LRRC70	87.427	64.946	109.908	1.692	0.759	5.67E-03	3.20E-02	Up
LRRN1	18.346	11.557	25.135	2.175	1.121	1.20E-02	5.88E-02	Up
LSS	3507.662	2471.913	4543.411	1.838	0.878	9.80E-18	6.57E-16	Up
LUM	2074.369	1413.924	2734.814	1.934	0.952	2.08E-25	2.54E-23	Up
LY96	4.226	0.705	7.747	10.993	3.458	4.04E-03	2.40E-02	Up
LYPD6	44.873	65.123	24.623	0.378	-1.403	1.80E-06	2.88E-05	Down
MAB21L1	10.951	6.099	15.803	2.591	1.374	2.51E-02	1.04E-01	Up
MAFB	682.351	856.462	508.241	0.593	-0.753	1.69E-12	6.85E-11	Down
MALL	63.745	45.106	82.384	1.826	0.869	2.82E-04	2.55E-03	Up
MAOB	9.870	15.528	4.212	0.271	-1.882	1.93E-02	8.51E-02	Down
MAP3K7CL	22.297	3.754	40.840	10.879	3.443	3.23E-12	1.27E-10	Up
MAP3K8	35.860	58.394	13.326	0.228	-2.132	4.59E-06	6.72E-05	Down
MAPK8IP1	112.433	86.644	138.222	1.595	0.674	2.25E-04	2.11E-03	Up
MAPKAPK3	1329.419	1634.449	1024.390	0.627	-0.674	2.92E-19	2.31E-17	Down
MAPKBP1	983.470	1203.732	763.208	0.634	-0.657	9.09E-16	5.29E-14	Down
MARC1	74.903	53.786	96.019	1.785	0.836	1.74E-04	1.70E-03	Up
MARCH8	413.037	511.518	314.555	0.615	-0.701	7.68E-11	2.59E-09	Down
MAT1A	545.113	756.932	333.295	0.440	-1.183	4.11E-33	8.38E-31	Down
MCAM	1703.410	1176.964	2229.856	1.895	0.922	5.38E-37	1.34E-34	Up
MCM10	199.092	149.011	249.172	1.672	0.742	2.06E-07	4.00E-06	Up
MCM2	555.708	397.567	713.848	1.796	0.844	3.57E-18	2.50E-16	Up
MCM3	1009.360	649.769	1368.950	2.107	1.075	1.77E-22	1.88E-20	Up
MCM4	1010.400	739.817	1280.984	1.731	0.792	2.21E-22	2.33E-20	Up
MCM5	1205.278	763.061	1647.496	2.159	1.110	6.26E-12	2.43E-10	Up
MCM6	1925.619	1506.915	2344.323	1.556	0.638	5.63E-19	4.28E-17	Up
MCM9	255.986	195.622	316.350	1.617	0.693	1.56E-05	2.01E-04	Up
MCOLN3	86.737	67.156	106.317	1.583	0.663	1.43E-03	1.02E-02	Up
MCT2L	1.921	0.000	3.841	Inf	Inf	2.06E-02	8.93E-02	Up
MDGA1	71.371	40.549	102.193	2.520	1.334	1.37E-08	3.27E-07	Up

MDH1B	21.519	15.148	27.890	1.841	0.881	3.65E-02	1.38E-01	Up
MFSD2A	812.613	642.832	982.394	1.528	0.612	6.60E-13	2.81E-11	Up
MGLL	41.845	60.556	23.135	0.382	-1.388	4.30E-06	6.34E-05	Down
MIOX	32.335	40.204	24.465	0.609	-0.717	3.57E-02	1.36E-01	Down
MKNK1	41.652	55.246	28.058	0.508	-0.977	9.22E-04	7.08E-03	Down
MLPH	6.046	1.040	11.053	10.628	3.410	5.22E-04	4.29E-03	Up
MMP23B	203.240	258.591	147.889	0.572	-0.806	9.91E-05	1.03E-03	Down
MMP7	6.867	1.761	11.972	6.799	2.765	1.15E-03	8.55E-03	Up
MMS22L	262.076	201.533	322.618	1.601	0.679	1.09E-07	2.22E-06	Up
MND1	43.298	32.846	53.749	1.636	0.711	1.55E-02	7.20E-02	Up
MNX1	220.274	174.132	266.416	1.530	0.614	1.15E-04	1.18E-03	Up
MOB3B	157.704	118.800	196.608	1.655	0.727	4.97E-06	7.22E-05	Up
MOG	8.315	1.400	15.230	10.875	3.443	3.00E-05	3.62E-04	Up
MPP7	5.371	2.413	8.329	3.451	1.787	4.88E-02	1.72E-01	Up
MPZL2	215.210	150.223	280.196	1.865	0.899	1.10E-10	3.60E-09	Up
MSMO1	6123.147	4626.201	7620.093	1.647	0.720	3.66E-32	6.99E-30	Up
MTBP	151.898	114.011	189.786	1.665	0.735	5.09E-06	7.38E-05	Up
MUC2	4.388	1.040	7.735	7.438	2.895	9.28E-03	4.79E-02	Up
MUC4L	93.131	56.345	129.918	2.306	1.205	3.73E-09	9.64E-08	Up
MUTYH	130.362	102.116	158.607	1.553	0.635	2.93E-04	2.64E-03	Up
MYB	199.429	134.687	264.170	1.961	0.972	2.85E-11	1.02E-09	Up
MYH11	817.173	1006.954	627.392	0.623	-0.683	2.04E-07	3.97E-06	Down
MYH1E	28.992	12.576	45.408	3.611	1.852	9.04E-07	1.53E-05	Up
MYH7	5.915	2.750	9.079	3.301	1.723	4.70E-02	1.68E-01	Up
MYLIP	70.201	93.450	46.953	0.502	-0.993	1.95E-05	2.46E-04	Down
MYO1H	4.562	1.745	7.380	4.230	2.081	3.93E-02	1.46E-01	Up
MYO3AL	1012.192	1484.054	540.330	0.364	-1.458	6.72E-52	3.57E-49	Down
MYO9A	1976.241	1475.351	2477.130	1.679	0.748	9.80E-27	1.29E-24	Up
MYOCD	7.599	3.797	11.400	3.002	1.586	2.96E-02	1.18E-01	Up
MYOM1	1855.251	1376.405	2334.098	1.696	0.762	4.18E-27	5.81E-25	Up
MYOZ3	200.561	157.045	244.077	1.554	0.636	6.16E-06	8.72E-05	Up
NALCN	90.643	50.213	131.072	2.610	1.384	2.79E-11	1.00E-09	Up
NASP	1054.257	843.294	1265.221	1.500	0.585	2.54E-13	1.14E-11	Up
NAT	52.538	76.581	28.496	0.372	-1.426	1.28E-07	2.58E-06	Down
NBEA	16.587	6.758	26.415	3.909	1.967	1.04E-04	1.08E-03	Up
NCAPH2	1191.449	903.124	1479.774	1.639	0.712	1.29E-06	2.12E-05	Up
NCF4	37.008	23.513	50.503	2.148	1.103	5.32E-04	4.35E-03	Up
NDRG1	2009.984	2466.377	1553.591	0.630	-0.667	1.64E-21	1.61E-19	Down
NDRG4	13.797	8.979	18.615	2.073	1.052	4.43E-02	1.61E-01	Up
NES	5984.970	3896.251	8073.689	2.072	1.051	7.98E-21	7.49E-19	Up
NETO2	66.404	47.905	84.903	1.772	0.826	4.90E-04	4.06E-03	Up
NEU2	15.957	9.561	22.353	2.338	1.225	1.41E-02	6.68E-02	Up
NEURL1B	1264.607	992.799	1536.414	1.548	0.630	2.34E-13	1.05E-11	Up
NFIB	28.474	37.188	19.759	0.531	-0.912	1.34E-02	6.38E-02	Down
NID2	1168.396	1524.640	812.151	0.533	-0.909	4.60E-31	8.12E-29	Down
NIM1KZ	46.256	32.830	59.682	1.818	0.862	1.16E-02	5.76E-02	Up
NKAIN1	218.823	169.992	267.654	1.575	0.655	1.50E-06	2.44E-05	Up
NKD1	80.874	61.582	100.165	1.627	0.702	1.07E-03	8.03E-03	Up
NLGN3	11.520	2.750	20.290	7.377	2.883	1.17E-03	8.68E-03	Up
NMNAT2	94.092	35.023	153.161	4.373	2.129	4.17E-18	2.89E-16	Up
NMRK2	54.339	37.422	71.255	1.904	0.929	3.34E-04	2.96E-03	Up
NOG2	92.991	54.747	131.235	2.397	1.261	3.51E-06	5.26E-05	Up
NOS2	277.097	333.349	220.844	0.663	-0.594	1.60E-06	2.60E-05	Down
NOV	3.115	6.231	0.000	0.000	#NAME?	9.75E-03	4.98E-02	Down
NOX4	23.806	9.340	38.271	4.098	2.035	1.06E-06	1.78E-05	Up
NPM3	886.993	639.046	1134.940	1.776	0.829	3.51E-09	9.12E-08	Up
NPR3	125.225	230.311	20.138	0.087	-3.516	5.53E-22	5.56E-20	Down
NPTX1	20.255	9.563	30.947	3.236	1.694	1.30E-04	1.31E-03	Up

NPTX2	53.138	29.549	76.726	2.597	1.377	4.09E-07	7.49E-06	Up
NPY7R	2.229	4.459	0.000	0.000	#NAME?	9.00E-03	4.67E-02	Down
NR4A1	46.943	32.408	61.478	1.897	0.924	4.04E-03	2.40E-02	Up
NRARP	719.816	912.865	526.766	0.577	-0.793	5.90E-19	4.44E-17	Down
NRG1	79.222	97.426	61.019	0.626	-0.675	2.58E-03	1.66E-02	Down
NRN1	3.454	1.074	5.833	5.430	2.441	4.54E-02	1.64E-01	Up
NSDHL	1003.806	774.390	1233.221	1.593	0.671	1.10E-16	6.74E-15	Up
NTN4	3596.396	2858.190	4334.602	1.517	0.601	8.59E-21	7.99E-19	Up
NTNG2	342.914	426.423	259.405	0.608	-0.717	1.85E-07	3.65E-06	Down
NUDT12	5.607	8.610	2.604	0.302	-1.725	4.99E-02	1.75E-01	Down
NXPH4	275.896	357.620	194.173	0.543	-0.881	2.06E-11	7.54E-10	Down
OGFRL1	768.025	580.572	955.478	1.646	0.719	4.75E-13	2.05E-11	Up
OIT3	88.692	108.983	68.401	0.628	-0.672	4.74E-02	1.69E-01	Down
OLFM1	71.038	50.393	91.683	1.819	0.863	1.75E-04	1.70E-03	Up
OLFML2B	3567.633	4342.132	2793.134	0.643	-0.637	1.03E-20	9.38E-19	Down
ONECUT1	10.307	5.403	15.211	2.815	1.493	1.96E-02	8.63E-02	Up
OPN3	172.858	106.286	239.429	2.253	1.172	3.42E-14	1.68E-12	Up
ORC1	134.417	88.341	180.492	2.043	1.031	2.42E-09	6.43E-08	Up
ORC5	331.712	258.446	404.978	1.567	0.648	2.50E-08	5.70E-07	Up
OSBPL11	1655.171	2066.504	1243.838	0.602	-0.732	2.31E-18	1.64E-16	Down
OSGIN1	180.761	272.222	89.300	0.328	-1.608	2.68E-25	3.24E-23	Down
OSTN	5.511	2.466	8.557	3.470	1.795	3.98E-02	1.48E-01	Up
OTUD7A	44.192	27.838	60.547	2.175	1.121	1.09E-04	1.13E-03	Up
OXT	2.946	0.370	5.522	14.943	3.901	4.09E-02	1.51E-01	Up
P2RX4	67.652	53.282	82.022	1.539	0.622	1.07E-02	5.38E-02	Up
P2RX7	35.850	22.409	49.291	2.200	1.137	1.84E-02	8.21E-02	Up
PALMD	47.102	65.748	28.456	0.433	-1.208	1.73E-05	2.20E-04	Down
PAPLN	12.091	17.090	7.092	0.415	-1.269	2.88E-02	1.16E-01	Down
PAQR8	79.798	58.971	100.625	1.706	0.771	4.35E-04	3.68E-03	Up
PATL2	107.483	85.950	129.017	1.501	0.586	1.79E-03	1.24E-02	Up
PCBP2	20.118	10.972	29.264	2.667	1.415	1.28E-03	9.35E-03	Up
PCDH1	18.686	24.535	12.837	0.523	-0.935	4.07E-02	1.50E-01	Down
PCNA	1353.772	1001.292	1706.251	1.704	0.769	1.00E-14	5.27E-13	Up
PCSK1	2.079	0.000	4.159	Inf	Inf	1.44E-02	6.81E-02	Up
PCTPL	36.264	22.318	50.210	2.250	1.170	2.88E-04	2.59E-03	Up
PDE4D	36.120	12.507	59.733	4.776	2.256	1.07E-10	3.53E-09	Up
PDE7B	1120.615	851.045	1390.185	1.634	0.708	3.32E-19	2.60E-17	Up
PDGFA	195.101	141.314	248.888	1.761	0.817	1.58E-08	3.71E-07	Up
PDK4	4.006	7.688	0.324	0.042	-4.567	2.27E-03	1.50E-02	Down
PDZD2	1.911	0.000	3.823	Inf	Inf	2.08E-02	8.98E-02	Up
PELI2	76.369	118.726	34.013	0.286	-1.803	6.53E-15	3.52E-13	Down
PENK	91.618	58.021	125.214	2.158	1.110	2.03E-03	1.37E-02	Up
PER3	529.279	639.037	419.521	0.656	-0.607	5.09E-10	1.53E-08	Down
PFKFB4L	433.045	526.391	339.699	0.645	-0.632	1.90E-09	5.15E-08	Down
PGBD5	438.278	336.394	540.162	1.606	0.683	7.59E-11	2.57E-09	Up
PHACTR3	91.530	34.336	148.724	4.331	2.115	5.21E-22	5.28E-20	Up
PHGDH	94.751	139.588	49.914	0.358	-1.484	4.83E-13	2.08E-11	Down
PI3	7.737	14.844	0.630	0.042	-4.558	2.68E-06	4.14E-05	Down
PIFO	241.315	123.683	358.947	2.902	1.537	4.12E-28	5.96E-26	Up
PIGL	136.333	165.034	107.632	0.652	-0.617	2.50E-04	2.30E-03	Down
PIGZ	35.468	48.629	22.308	0.459	-1.124	4.89E-04	4.05E-03	Down
PIM3	328.539	394.741	262.338	0.665	-0.589	4.69E-07	8.45E-06	Down
PKIG	5.697	10.428	0.966	0.093	-3.432	2.11E-03	1.41E-02	Down
PLCL2	43.367	34.681	52.053	1.501	0.586	4.33E-02	1.58E-01	Up
PLEK	567.227	317.920	816.533	2.568	1.361	3.21E-27	4.51E-25	Up
PLEKHA6	51.565	30.930	72.201	2.334	1.223	8.87E-06	1.21E-04	Up
PLEKHG1	83.924	59.757	108.091	1.809	0.855	6.38E-05	7.07E-04	Up
PLPP5	451.655	336.938	566.373	1.681	0.749	3.37E-07	6.26E-06	Up

PMVK	264.610	210.206	319.013	1.518	0.602	1.59E-02	7.35E-02	Up
PNAT10	117.800	179.763	55.837	0.311	-1.687	2.96E-11	1.05E-09	Down
PNAT3	230.395	308.441	152.349	0.494	-1.018	7.47E-14	3.49E-12	Down
PODXL	80.168	9.817	150.520	15.333	3.939	1.64E-45	6.26E-43	Up
POLE	910.289	685.182	1135.396	1.657	0.729	6.77E-12	2.60E-10	Up
POSTN	143.012	229.995	56.029	0.244	-2.037	1.61E-15	9.17E-14	Down
PPARG	12319.568	16779.670	7859.467	0.468	-1.094	2.68E-74	2.34E-71	Down
PPARGC1B	6.795	3.154	10.436	3.309	1.726	4.80E-02	1.70E-01	Up
PPEF1	409.256	293.426	525.086	1.789	0.840	1.03E-14	5.39E-13	Up
PPM1K	1259.045	1621.850	896.239	0.553	-0.856	6.38E-29	9.78E-27	Down
PPM1L	456.145	555.428	356.862	0.642	-0.638	9.00E-10	2.58E-08	Down
PPP1R3E	55.430	69.470	41.391	0.596	-0.747	3.37E-03	2.06E-02	Down
PPRC1	979.593	749.415	1209.772	1.614	0.691	1.39E-13	6.29E-12	Up
PREX1	376.848	254.558	499.137	1.961	0.971	4.29E-18	2.95E-16	Up
PRIM2	314.468	239.099	389.837	1.630	0.705	3.36E-09	8.74E-08	Up
PRKCA	71.098	47.396	94.799	2.000	1.000	1.38E-05	1.79E-04	Up
PRKCZ	14.845	6.589	23.102	3.506	1.810	5.12E-04	4.23E-03	Up
PRMT8	44.942	32.580	57.304	1.759	0.815	2.17E-02	9.29E-02	Up
PROM1	20.449	14.348	26.550	1.850	0.888	4.20E-02	1.54E-01	Up
PRPH	235.775	301.233	170.316	0.565	-0.823	6.87E-10	2.02E-08	Down
PRR16	59.959	91.286	28.632	0.314	-1.673	1.04E-10	3.43E-09	Down
PRR22	5.078	1.727	8.429	4.882	2.287	3.83E-02	1.44E-01	Up
PRUNE2	408.097	507.389	308.806	0.609	-0.716	1.08E-05	1.44E-04	Down
PSAT1	1377.047	1853.124	900.969	0.486	-1.040	4.47E-20	3.87E-18	Down
PSD	108.155	81.881	134.429	1.642	0.715	1.45E-04	1.44E-03	Up
PSPH	309.740	398.781	220.699	0.553	-0.854	9.24E-13	3.84E-11	Down
PTGDR	119.937	173.504	66.370	0.383	-1.386	1.20E-11	4.49E-10	Down
PTGS2	17146.439	23337.345	10955.534	0.469	-1.091	6.47E-21	6.17E-19	Down
PTP4A3	366.012	291.342	440.682	1.513	0.597	1.03E-07	2.11E-06	Up
PTPRC	24.967	17.543	32.390	1.846	0.885	2.32E-02	9.76E-02	Up
PTPRE	115.960	58.026	173.894	2.997	1.583	5.90E-17	3.69E-15	Up
PTPRK	251.375	195.725	307.024	1.569	0.650	6.90E-07	1.19E-05	Up
PTPRO	441.091	336.142	546.041	1.624	0.700	2.84E-11	1.02E-09	Up
PTPRQ	31.023	14.330	47.716	3.330	1.735	1.57E-06	2.55E-05	Up
PTPRU	509.612	618.784	400.440	0.647	-0.628	2.89E-10	9.00E-09	Down
PTX3	11698.059	14820.998	8575.121	0.579	-0.789	6.80E-41	2.11E-38	Down
PUSL1	174.561	216.267	132.856	0.614	-0.703	3.40E-06	5.12E-05	Down
PXYLP1	730.060	885.865	574.255	0.648	-0.625	1.47E-12	5.97E-11	Down
PYCRL	202.729	150.821	254.637	1.688	0.756	8.01E-08	1.67E-06	Up
RAB11FIP4	225.623	167.906	283.340	1.687	0.755	6.03E-05	6.72E-04	Up
RAB3C	8.217	2.484	13.951	5.617	2.490	9.11E-04	7.02E-03	Up
RAB44	29.586	20.050	39.123	1.951	0.964	7.07E-03	3.83E-02	Up
RAD51	595.041	470.936	719.147	1.527	0.611	2.67E-06	4.14E-05	Up
RAD54L	230.208	162.530	297.887	1.833	0.874	9.50E-11	3.16E-09	Up
RALGAPA2	691.982	496.452	887.512	1.788	0.838	2.41E-20	2.13E-18	Up
RAPGEF4	124.559	57.041	192.077	3.367	1.752	3.30E-21	3.21E-19	Up
RAPGEF5	75.623	26.848	124.399	4.633	2.212	1.66E-16	1.00E-14	Up
RAPGEFL1	4.344	1.332	7.356	5.524	2.466	2.37E-02	9.92E-02	Up
RASA4	346.554	454.605	238.503	0.525	-0.931	1.07E-15	6.16E-14	Down
RASD1	77.842	108.318	47.365	0.437	-1.193	9.07E-08	1.88E-06	Down
RASD2	17.100	10.655	23.545	2.210	1.144	1.58E-02	7.31E-02	Up
RASGEF1A	324.487	420.652	228.323	0.543	-0.882	1.55E-11	5.78E-10	Down
RASGEF1B	174.698	216.339	133.057	0.615	-0.701	3.39E-06	5.12E-05	Down
RASGRP3	175.633	222.946	128.321	0.576	-0.797	4.80E-06	6.99E-05	Down
RASSF3	2851.184	1873.591	3828.778	2.044	1.031	7.69E-54	4.24E-51	Up
RASSF8	3861.787	4818.366	2905.208	0.603	-0.730	1.76E-30	2.97E-28	Down
RBL1	726.602	580.580	872.623	1.503	0.588	3.01E-11	1.07E-09	Up
RDH12	1118.029	774.222	1461.835	1.888	0.917	5.34E-11	1.86E-09	Up

RELN	20.713	12.412	29.013	2.337	1.225	3.74E-03	2.26E-02	Up
RENBP	61.466	77.122	45.809	0.594	-0.752	2.37E-03	1.56E-02	Down
RERG	2188.522	2895.571	1481.472	0.512	-0.967	3.08E-24	3.49E-22	Down
RFLNB	156.213	195.431	116.996	0.599	-0.740	3.41E-06	5.13E-05	Down
RGS13	13.388	5.164	21.612	4.185	2.065	2.55E-04	2.34E-03	Up
RGS17	31.176	22.894	39.459	1.724	0.785	2.51E-02	1.04E-01	Up
RGS2	946.710	729.281	1164.140	1.596	0.675	3.11E-16	1.84E-14	Up
RHCG	72.733	11.974	133.492	11.148	3.479	2.71E-18	1.91E-16	Up
RHOB	1019.489	804.924	1234.054	1.533	0.616	3.44E-10	1.06E-08	Up
RHOG	31.131	18.549	43.714	2.357	1.237	3.86E-04	3.34E-03	Up
RHOH	17.910	24.416	11.405	0.467	-1.098	1.58E-02	7.32E-02	Down
RHOU	45.243	62.722	27.764	0.443	-1.176	6.02E-05	6.70E-04	Down
RIF1	644.629	499.143	790.115	1.583	0.663	5.64E-13	2.41E-11	Up
RIMS4	85.768	68.489	103.046	1.505	0.589	5.08E-03	2.92E-02	Up
RMI1	151.878	116.529	187.227	1.607	0.684	2.22E-05	2.77E-04	Up
RNF145	1313.879	1603.909	1023.849	0.638	-0.648	1.26E-17	8.32E-16	Down
RNF150	129.840	75.122	184.559	2.457	1.297	1.59E-13	7.21E-12	Up
ROBO1	114.840	151.332	78.347	0.518	-0.950	1.93E-07	3.78E-06	Down
ROBO3	414.061	570.610	257.512	0.451	-1.148	1.99E-26	2.59E-24	Down
RPH3AL	137.700	171.097	104.304	0.610	-0.714	2.39E-05	2.97E-04	Down
RRAD	151.496	115.591	187.402	1.621	0.697	1.23E-05	1.62E-04	Up
RRM2	1427.227	1016.062	1838.392	1.809	0.855	2.60E-30	4.20E-28	Up
RRP8	296.552	229.046	364.059	1.589	0.669	3.61E-05	4.28E-04	Up
RSRP1	125.355	99.970	150.740	1.508	0.592	1.64E-02	7.52E-02	Up
RUBCNL	33.931	20.611	47.252	2.293	1.197	7.85E-04	6.17E-03	Up
RXFP1	20.971	29.671	12.270	0.414	-1.274	2.91E-03	1.83E-02	Down
SAMD11	366.529	286.871	446.187	1.555	0.637	1.67E-08	3.90E-07	Up
SCARF1	12.294	6.993	17.594	2.516	1.331	2.72E-02	1.11E-01	Up
SCD	623.901	490.076	757.727	1.546	0.629	1.59E-11	5.91E-10	Up
SCEL	9.436	3.694	15.178	4.108	2.039	9.45E-03	4.85E-02	Up
SCN2B	50.312	32.437	68.187	2.102	1.072	1.08E-04	1.12E-03	Up
SCN5A	167.663	117.636	217.691	1.851	0.888	2.72E-06	4.19E-05	Up
SCNN1A	8.716	4.468	12.963	2.901	1.537	2.65E-02	1.08E-01	Up
SCP2	3185.528	3832.826	2538.231	0.662	-0.595	5.13E-20	4.41E-18	Down
SCT	2.792	0.370	5.215	14.111	3.819	1.74E-02	7.88E-02	Up
SCUBE3	175.947	260.906	90.988	0.349	-1.520	5.66E-16	3.33E-14	Down
SELE	609.437	411.244	807.629	1.964	0.974	5.24E-18	3.59E-16	Up
SELENBP1	1679.710	2239.872	1119.547	0.500	-1.001	4.66E-43	1.58E-40	Down
SELENOU	35.756	26.543	44.970	1.694	0.761	1.77E-02	7.96E-02	Up
SEMA3D	909.181	649.419	1168.942	1.800	0.848	2.32E-19	1.85E-17	Up
SEMA5B	10.862	5.876	15.848	2.697	1.432	1.85E-02	8.24E-02	Up
SERINC4	66.127	49.192	83.063	1.689	0.756	1.39E-03	9.99E-03	Up
SERPINB10B	21.572	8.979	34.164	3.805	1.928	9.84E-06	1.32E-04	Up
SERPINB2	424.837	330.258	519.416	1.573	0.653	9.23E-10	2.64E-08	Up
SERPIND1	10.818	16.091	5.545	0.345	-1.537	1.06E-02	5.34E-02	Down
SERPINH1	16000.227	19462.179	12538.276	0.644	-0.634	8.07E-28	1.15E-25	Down
SERPINI1	137.601	109.968	165.234	1.503	0.587	4.32E-04	3.66E-03	Up
SESN3	1785.622	2339.505	1231.738	0.526	-0.926	4.67E-12	1.83E-10	Down
SFR1	82.830	51.142	114.518	2.239	1.163	5.69E-08	1.23E-06	Up
SFRP1	11.670	16.572	6.768	0.408	-1.292	2.70E-02	1.10E-01	Down
SFRP2	41.946	69.348	14.545	0.210	-2.253	1.18E-11	4.47E-10	Down
SFT2D2	26.207	32.808	19.606	0.598	-0.743	4.72E-02	1.68E-01	Down
SFTPC	50.588	61.347	39.828	0.649	-0.623	2.36E-02	9.92E-02	Down
SFXN1	786.150	995.271	577.029	0.580	-0.786	1.38E-19	1.14E-17	Down
SGCG	12.550	7.595	17.504	2.305	1.205	3.16E-02	1.23E-01	Up
SH2D3C	132.472	180.301	84.644	0.469	-1.091	3.47E-10	1.07E-08	Down
SH3BGRL2	152.333	110.213	194.453	1.764	0.819	3.83E-07	7.05E-06	Up
SH3BP2	29.358	16.417	42.299	2.577	1.365	1.79E-04	1.73E-03	Up

SH3GLB2	2805.387	3717.669	1893.104	0.509	-0.974	2.49E-48	1.09E-45	Down
SHC4	2030.017	1212.258	2847.777	2.349	1.232	4.82E-68	3.59E-65	Up
SHF	158.731	121.136	196.326	1.621	0.697	9.63E-06	1.30E-04	Up
SHH	18.268	24.245	12.291	0.507	-0.980	3.26E-02	1.27E-01	Down
SHMT1	136.192	85.814	186.571	2.174	1.120	4.80E-10	1.45E-08	Up
SHROOM2	298.317	205.979	390.655	1.897	0.923	1.46E-09	4.06E-08	Up
SIDT1	17.742	8.213	27.272	3.321	1.731	2.81E-04	2.55E-03	Up
SIRPA	119.776	88.563	150.989	1.705	0.770	4.43E-04	3.74E-03	Up
SLBP	129.470	77.899	181.041	2.324	1.217	5.43E-12	2.11E-10	Up
SLC16A10	253.125	377.350	128.900	0.342	-1.550	4.64E-31	8.12E-29	Down
SLC16A3	1814.064	2180.249	1447.878	0.664	-0.591	8.78E-14	4.06E-12	Down
SLC1A4	4292.427	5598.795	2986.059	0.533	-0.907	9.93E-47	4.00E-44	Down
SLC1A6	268.065	514.253	21.878	0.043	-4.555	8.57E-157	3.19E-153	Down
SLC20A1	1009.702	626.751	1392.652	2.222	1.152	9.66E-27	1.28E-24	Up
SLC22A5	878.709	1168.409	589.010	0.504	-0.988	1.14E-31	2.12E-29	Down
SLC25A21	4.926	2.130	7.722	3.625	1.858	4.89E-02	1.73E-01	Up
SLC25A29	133.118	199.491	66.744	0.335	-1.580	5.75E-19	4.35E-17	Down
SLC25A48	46.659	62.265	31.053	0.499	-1.004	3.71E-04	3.23E-03	Down
SLC26A1	29.346	22.460	36.231	1.613	0.690	4.72E-02	1.68E-01	Up
SLC26A3	185.993	269.083	102.903	0.382	-1.387	1.18E-07	2.39E-06	Down
SLC27A1	217.149	269.706	164.591	0.610	-0.713	2.38E-07	4.57E-06	Down
SLC2A11L1	24.440	15.183	33.697	2.219	1.150	3.16E-03	1.96E-02	Up
SLC2A6	137.336	205.479	69.192	0.337	-1.570	1.17E-17	7.81E-16	Down
SLC35A1	533.365	413.276	653.455	1.581	0.661	1.19E-11	4.47E-10	Up
SLC35E3	3481.649	2727.477	4235.821	1.553	0.635	5.74E-23	6.24E-21	Up
SLC35F1	2.637	0.335	4.938	14.733	3.881	2.88E-02	1.16E-01	Up
SLC39A10	850.185	581.199	1119.170	1.926	0.945	4.05E-19	3.12E-17	Up
SLC39A8	20.247	14.474	26.020	1.798	0.846	4.74E-02	1.68E-01	Up
SLC43A2	1280.245	1553.531	1006.960	0.648	-0.626	2.92E-16	1.74E-14	Down
SLC45A4	13.620	5.551	21.690	3.907	1.966	4.66E-04	3.89E-03	Up
SLC4A11	714.849	443.409	986.289	2.224	1.153	6.67E-37	1.63E-34	Up
SLC4A5	20.763	31.127	10.398	0.334	-1.582	1.47E-03	1.05E-02	Down
SLC5A1	98.378	74.297	122.458	1.648	0.721	5.35E-03	3.05E-02	Up
SLC5A6	492.751	362.407	623.096	1.719	0.782	1.53E-05	1.97E-04	Up
SLC6A13	38.777	30.266	47.289	1.562	0.644	3.29E-02	1.28E-01	Up
SLC6A4	580.939	315.681	846.197	2.681	1.423	4.38E-48	1.81E-45	Up
SLC7A11	217.410	291.138	143.682	0.494	-1.019	2.95E-13	1.30E-11	Down
SLC7A5	323.276	422.800	223.753	0.529	-0.918	4.76E-15	2.63E-13	Down
SLC9A3	14.813	6.135	23.491	3.829	1.937	2.79E-04	2.53E-03	Up
SMAGP	43.216	55.829	30.604	0.548	-0.867	3.39E-03	2.07E-02	Down
SMOC2	3551.931	4473.848	2630.014	0.588	-0.766	7.47E-33	1.48E-30	Down
SMOX	272.403	332.336	212.470	0.639	-0.645	2.87E-07	5.41E-06	Down
SMPD3	18.616	11.467	25.765	2.247	1.168	1.16E-02	5.74E-02	Up
SMTN	2956.579	2310.077	3603.082	1.560	0.641	1.76E-17	1.14E-15	Up
SNN	164.584	198.339	130.829	0.660	-0.600	1.33E-04	1.34E-03	Down
SNX30	805.012	1008.585	601.440	0.596	-0.746	6.96E-18	4.71E-16	Down
SOCS4	223.737	272.659	174.816	0.641	-0.641	2.68E-06	4.14E-05	Down
SORBS2	10.769	2.963	18.575	6.270	2.648	1.52E-04	1.51E-03	Up
SORCS3	6.596	2.552	10.640	4.169	2.060	1.01E-02	5.13E-02	Up
SOX13	92.171	115.298	69.043	0.599	-0.740	2.67E-04	2.43E-03	Down
SOX7	196.770	147.654	245.886	1.665	0.736	8.05E-04	6.30E-03	Up
SPATA17	7.065	3.592	10.537	2.933	1.552	3.61E-02	1.37E-01	Up
SPON2	32.377	47.568	17.185	0.361	-1.469	2.02E-05	2.54E-04	Down
SPRY4	125.518	65.455	185.580	2.835	1.503	1.79E-16	1.08E-14	Up
SQLE	2432.009	1809.807	3054.210	1.688	0.755	8.57E-29	1.29E-26	Up
SRM	568.951	418.664	719.237	1.718	0.781	6.97E-11	2.38E-09	Up
SRR	103.824	126.699	80.949	0.639	-0.646	1.49E-02	6.97E-02	Down
SSBP2	500.498	602.399	398.597	0.662	-0.596	2.26E-04	2.11E-03	Down

ST6GAL1	1130.199	1576.575	683.823	0.434	-1.205	1.54E-51	7.92E-49	Down
ST6GAL2	341.904	151.958	531.850	3.500	1.807	1.97E-35	4.51E-33	Up
ST6GALNAC2L	3.225	0.696	5.753	8.270	3.048	2.39E-02	9.97E-02	Up
ST6GALNAC6	250.304	303.874	196.735	0.647	-0.627	4.14E-06	6.14E-05	Down
STARD4	765.712	557.115	974.309	1.749	0.806	5.38E-20	4.60E-18	Up
STARD5	448.157	548.319	347.995	0.635	-0.656	2.95E-10	9.17E-09	Down
STEAP1	440.733	557.738	323.728	0.580	-0.785	4.79E-14	2.30E-12	Down
STEAP2	499.789	616.908	382.671	0.620	-0.689	7.22E-05	7.88E-04	Down
STEAP3	35.798	55.837	15.759	0.282	-1.825	1.21E-06	2.00E-05	Down
STEAP4	41.716	57.293	26.139	0.456	-1.132	1.73E-04	1.69E-03	Down
STK17A	33.975	12.095	55.854	4.618	2.207	4.22E-10	1.29E-08	Up
STK32C	4.736	1.683	7.789	4.627	2.210	3.10E-02	1.22E-01	Up
STK35	216.117	165.718	266.517	1.608	0.685	2.09E-05	2.63E-04	Up
SUCLG2	59.600	29.717	89.483	3.011	1.590	8.73E-10	2.52E-08	Up
SULF1	68.997	17.794	120.200	6.755	2.756	1.54E-25	1.91E-23	Up
SULF2	2819.756	3398.499	2241.012	0.659	-0.601	1.36E-19	1.13E-17	Down
SUSD4	36.633	28.085	45.181	1.609	0.686	2.98E-02	1.18E-01	Up
SUV39H1	153.451	119.838	187.064	1.561	0.642	2.12E-04	2.00E-03	Up
SVEP1	132.409	203.298	61.521	0.303	-1.724	4.17E-22	4.28E-20	Down
SYBU	55.824	84.299	27.348	0.324	-1.624	1.00E-09	2.85E-08	Down
SYNRG	2583.084	3229.963	1936.205	0.599	-0.738	2.10E-28	3.07E-26	Down
SYT12	40.527	27.971	53.084	1.898	0.924	2.24E-03	1.48E-02	Up
SYT13	531.659	373.055	690.263	1.850	0.888	2.06E-19	1.65E-17	Up
SYTL2	313.518	226.639	400.398	1.767	0.821	1.09E-11	4.16E-10	Up
SYTL3	73.920	89.095	58.744	0.659	-0.601	7.60E-03	4.06E-02	Down
TAAR1	269.256	345.990	192.523	0.556	-0.846	7.24E-11	2.47E-09	Down
TACR2	23.492	15.058	31.926	2.120	1.084	7.27E-03	3.92E-02	Up
TAF2	2434.512	3078.384	1790.639	0.582	-0.782	5.58E-31	9.54E-29	Down
TAGAP	22.989	38.608	7.370	0.191	-2.389	4.01E-08	8.86E-07	Down
TAGLN	2904.827	2214.978	3594.677	1.623	0.699	5.70E-26	7.25E-24	Up
TAT	30.403	50.335	10.471	0.208	-2.265	1.62E-06	2.61E-05	Down
TBC1D9	302.699	218.597	386.802	1.769	0.823	1.90E-11	6.97E-10	Up
TCEA3	32.742	41.432	24.053	0.581	-0.785	1.98E-02	8.68E-02	Down
TCEANC	158.227	193.318	123.135	0.637	-0.651	5.28E-05	5.98E-04	Down
TCP11L2	1861.588	2234.447	1488.728	0.666	-0.586	2.57E-09	6.78E-08	Down
TCTE3	14.358	19.553	9.162	0.469	-1.094	3.86E-02	1.45E-01	Down
TDH	161.026	237.896	84.155	0.354	-1.499	8.17E-14	3.80E-12	Down
TDRP	121.079	83.727	158.432	1.892	0.920	3.28E-07	6.11E-06	Up
TENM4	30.667	15.869	45.465	2.865	1.519	1.74E-05	2.21E-04	Up
TEX14	51.815	73.258	30.373	0.415	-1.270	2.73E-06	4.19E-05	Down
TF	908.533	1699.253	117.814	0.069	-3.850	1.09E-208	8.08E-205	Down
TFCP2L1	7.973	12.742	3.204	0.251	-1.992	7.14E-03	3.86E-02	Down
TFRC	979.426	617.248	1341.605	2.174	1.120	2.94E-17	1.87E-15	Up
TGFBI	18.876	12.027	25.725	2.139	1.097	1.43E-02	6.78E-02	Up
TIAM1	82.713	61.366	104.059	1.696	0.762	4.27E-04	3.63E-03	Up
TICRR	438.566	319.214	557.918	1.748	0.806	2.28E-14	1.15E-12	Up
TIMELESS	213.093	162.025	264.160	1.630	0.705	3.32E-03	2.04E-02	Up
TK1	571.718	436.724	706.712	1.618	0.694	3.84E-13	1.68E-11	Up
TLR5	22.549	32.241	12.857	0.399	-1.326	1.28E-03	9.34E-03	Down
TLX2	17.927	11.579	24.274	2.096	1.068	2.29E-02	9.67E-02	Up
TM7SF3	378.897	458.138	299.655	0.654	-0.612	2.72E-08	6.17E-07	Down
TMCC3	599.828	410.613	789.042	1.922	0.942	2.87E-22	2.96E-20	Up
TMEFF2	330.212	404.729	255.694	0.632	-0.663	1.11E-08	2.69E-07	Down
TMEM119	1214.368	1602.344	826.392	0.516	-0.955	2.17E-34	4.75E-32	Down
TMEM132E	31.630	22.359	40.900	1.829	0.871	3.95E-02	1.47E-01	Up
TMEM140	202.807	272.311	133.303	0.490	-1.031	1.39E-10	4.51E-09	Down
TMEM200A	198.129	90.156	306.103	3.395	1.764	1.47E-29	2.28E-27	Up
TMEM204	25.872	16.419	35.325	2.152	1.105	4.29E-03	2.53E-02	Up

TMEM26	8822.603	11064.372	6580.834	0.595	-0.750	3.26E-36	7.71E-34	Down
TMEM35B	517.085	677.572	356.599	0.526	-0.926	2.11E-20	1.87E-18	Down
TMEM45A	1027.837	1359.754	695.919	0.512	-0.966	3.84E-31	6.89E-29	Down
TMEM47	4.031	0.988	7.074	7.163	2.841	1.63E-02	7.48E-02	Up
TMEM51	9.172	4.477	13.866	3.097	1.631	1.52E-02	7.10E-02	Up
TMEM55A	83.187	51.834	114.540	2.210	1.144	1.34E-07	2.69E-06	Up
TMEM59L	58.604	45.021	72.187	1.603	0.681	3.20E-02	1.25E-01	Up
TMEM68L	1.893	0.000	3.786	Inf	Inf	2.11E-02	9.08E-02	Up
TMEM74	6.319	2.714	9.924	3.656	1.870	2.58E-02	1.06E-01	Up
TMEM98	13.516	4.794	22.239	4.639	2.214	2.15E-04	2.02E-03	Up
TMTC2	488.903	345.334	632.472	1.831	0.873	7.21E-16	4.22E-14	Up
TMX1	10.263	14.800	5.725	0.387	-1.370	3.03E-02	1.20E-01	Down
TNC	15463.446	10023.209	20903.684	2.086	1.060	6.37E-73	5.27E-70	Up
TNFRSF11B	164.799	126.488	203.110	1.606	0.683	1.33E-05	1.74E-04	Up
TNFRSF1A	2474.179	2999.559	1948.800	0.650	-0.622	2.81E-20	2.44E-18	Down
TNFRSF1B	652.045	484.556	819.534	1.691	0.758	1.27E-08	3.05E-07	Up
TNFRSF6B	13357.396	16079.717	10635.076	0.661	-0.596	2.14E-24	2.49E-22	Down
TNFSF10	10027.691	12718.194	7337.188	0.577	-0.794	7.63E-41	2.32E-38	Down
TNFSF4	704.154	521.496	886.813	1.701	0.766	1.71E-17	1.12E-15	Up
TNIP3	31.213	21.553	40.872	1.896	0.923	7.78E-03	4.14E-02	Up
TOR1BL	91.650	119.723	63.576	0.531	-0.913	7.97E-06	1.10E-04	Down
TOR4A	64.137	50.874	77.401	1.521	0.605	1.55E-02	7.18E-02	Up
TP53INP2	347.556	436.496	258.616	0.592	-0.755	4.88E-08	1.06E-06	Down
TPBG	30.823	21.930	39.717	1.811	0.857	1.30E-02	6.26E-02	Up
TPPP	9.556	5.497	13.615	2.477	1.309	4.56E-02	1.64E-01	Up
TPSNRL	214.614	279.723	149.506	0.534	-0.904	1.03E-10	3.41E-09	Down
TRAF3	3124.841	3823.407	2426.275	0.635	-0.656	6.39E-07	1.12E-05	Down
TRAIP	235.608	183.592	287.623	1.567	0.648	2.23E-03	1.47E-02	Up
TRANK1	222.424	304.598	140.250	0.460	-1.119	9.68E-16	5.58E-14	Down
TRIM45	775.265	951.528	599.001	0.630	-0.668	2.51E-14	1.25E-12	Down
TRIM66	90.797	65.108	116.487	1.789	0.839	4.90E-05	5.62E-04	Up
TRIM69	1040.981	1252.740	829.222	0.662	-0.595	5.36E-12	2.10E-10	Down
TRIP13	221.359	176.347	266.370	1.510	0.595	1.43E-05	1.86E-04	Up
TROJANZ	216.467	131.105	301.828	2.302	1.203	3.89E-06	5.79E-05	Up
TRPM8	1.590	0.000	3.181	Inf	Inf	4.27E-02	1.56E-01	Up
TSC22D3	506.847	679.555	334.139	0.492	-1.024	6.29E-18	4.30E-16	Down
TSHB	46.772	56.362	37.182	0.660	-0.600	2.90E-02	1.16E-01	Down
TSKU	29.966	43.684	16.249	0.372	-1.427	8.15E-05	8.72E-04	Down
TSPAN7	85.706	54.716	116.697	2.133	1.093	2.00E-07	3.91E-06	Up
TSPEAR	34.986	44.512	25.459	0.572	-0.806	1.26E-02	6.09E-02	Down
TSPOAP1	183.625	222.615	144.635	0.650	-0.622	2.52E-05	3.11E-04	Down
TTC12	40.420	49.767	31.073	0.624	-0.680	2.36E-02	9.92E-02	Down
TTC7B	94.731	74.954	114.508	1.528	0.611	2.45E-03	1.59E-02	Up
TTYH3	3455.531	4321.478	2589.583	0.599	-0.739	2.20E-30	3.60E-28	Down
TUBB3	96.684	76.046	117.322	1.543	0.626	1.31E-03	9.49E-03	Up
TUSC5	5.078	1.804	8.352	4.629	2.211	1.91E-02	8.44E-02	Up
TXN	12960.602	16205.577	9715.627	0.600	-0.738	6.86E-35	1.55E-32	Down
TXNIP	3200.860	4235.507	2166.213	0.511	-0.967	2.50E-49	1.20E-46	Down
TYMS	104.601	74.381	134.820	1.813	0.858	1.12E-03	8.33E-03	Up
UGCG	11.811	5.576	18.045	3.236	1.694	3.68E-03	2.22E-02	Up
ULK2	676.026	811.702	540.351	0.666	-0.587	1.99E-06	3.16E-05	Down
UMODL1	91.882	129.467	54.297	0.419	-1.254	9.16E-06	1.24E-04	Down
UNC13C	7.944	1.040	14.849	14.278	3.836	2.05E-03	1.38E-02	Up
UNC5C	21.702	9.365	34.039	3.635	1.862	1.34E-03	9.71E-03	Up
UNC79	44.337	64.135	24.540	0.383	-1.386	1.95E-06	3.11E-05	Down
UNG	234.935	178.439	291.431	1.633	0.708	9.32E-08	1.92E-06	Up
USH2A	34.437	26.672	42.202	1.582	0.662	4.76E-02	1.69E-01	Up
USP35	183.054	219.786	146.323	0.666	-0.587	7.01E-05	7.69E-04	Down

UST	1501.935	1977.066	1026.803	0.519	-0.945	2.24E-37	5.64E-35	Down
VAV3	137.231	92.831	181.630	1.957	0.968	8.35E-05	8.89E-04	Up
VDHAP	3.762	0.000	7.524	Inf	Inf	3.66E-04	3.20E-03	Up
VEPH1	111.569	134.356	88.783	0.661	-0.598	1.21E-03	8.91E-03	Down
VIP	1868.926	1167.497	2570.355	2.202	1.139	6.67E-57	4.32E-54	Up
VLDLR	48.773	32.533	65.013	1.998	0.999	3.93E-04	3.40E-03	Up
VSIG4	7.602	3.736	11.469	3.070	1.618	2.95E-02	1.18E-01	Up
VTN	3.021	5.412	0.630	0.116	-3.102	2.69E-02	1.10E-01	Down
VWDE	5.718	1.074	10.363	9.646	3.270	9.39E-04	7.19E-03	Up
WBP1L	1948.435	2481.772	1415.097	0.570	-0.810	5.34E-31	9.25E-29	Down
WBSR17	106.645	148.767	64.522	0.434	-1.205	2.58E-10	8.06E-09	Down
WDHD1	262.661	197.899	327.424	1.655	0.726	1.76E-08	4.09E-07	Up
WDR66	104.020	139.608	68.432	0.490	-1.029	3.54E-04	3.11E-03	Down
WDR76	325.480	252.363	398.596	1.579	0.659	1.45E-08	3.42E-07	Up
WISP2	919.067	457.890	1380.244	3.014	1.592	4.65E-77	4.62E-74	Up
WNK2	406.024	518.779	293.268	0.565	-0.823	2.22E-14	1.13E-12	Down
WNT5B	266.027	188.720	343.335	1.819	0.863	1.56E-11	5.82E-10	Up
WNT9A	534.465	771.514	297.416	0.385	-1.375	2.39E-43	8.26E-41	Down
WSB1	6665.900	8087.361	5244.440	0.648	-0.625	3.16E-12	1.25E-10	Down
XPNPEP1	9.248	5.006	13.490	2.695	1.430	3.53E-02	1.34E-01	Up
YPEL4	67.684	82.116	53.252	0.648	-0.625	7.49E-03	4.01E-02	Down
ZBTB32	337.107	412.630	261.584	0.634	-0.658	2.23E-05	2.79E-04	Down
ZC3H12A	905.062	1086.845	723.280	0.665	-0.588	2.24E-12	8.94E-11	Down
ZFP92	21.550	9.707	33.393	3.440	1.782	3.86E-05	4.53E-04	Up
ZHX1	785.172	953.451	616.893	0.647	-0.628	1.99E-08	4.59E-07	Down
ZNF367	367.608	281.253	453.963	1.614	0.691	5.64E-10	1.69E-08	Up
ZNF423	1922.875	2710.460	1135.290	0.419	-1.255	1.73E-69	1.36E-66	Down
ZNF438	1.938	0.000	3.876	Inf	Inf	2.03E-02	8.84E-02	Up
ZNF800	18.498	10.079	26.918	2.671	1.417	1.96E-03	1.33E-02	Up

Table S4. The list of pathway enrichment analysis of most significant module of PPAR γ 1 and PPAR γ 2 reexpression in PPAR γ -/- cells

Module	Category	Term ID	Term Description	Gene Count	FDR	Matching Proteins in the Network (labels)
PPAR γ 1	KEGG	gga04310	Wnt signaling pathway	4	1.90E-03	SFRP1,WNT9A,SFRP2,MMP7
PPAR γ 1	KEGG	gga04010	MAPK signaling pathway	4	8.70E-03	KDR,FGF10,ANGPT1,ERBB4
PPAR γ 1	GO Process	GO:0050896	Response to stimulus	16	7.20E-03	SFRP1,VTN,DNA2,PPARG,CDH5,WNT9A,SFRP2,EXO1,IL8L1,KDR,FGF10,ANGPT1,MMP7,ERBB4,GINS2,CXCL12
PPAR γ 1	GO Process	GO:0050927	Positive regulation of positive chemotaxis	3	7.20E-03	KDR,FGF10,CXCL12
PPAR γ 1	GO Process	GO:0007166	Cell surface receptor signaling pathway	9	1.54E-02	SFRP1,CDH5,WNT9A,SFRP2,KDR,FGF10,ANGPT1,ERBB4,CXCL12
PPAR γ 1	GO Process	GO:0051716	Cellular response to stimulus	14	1.60E-02	SFRP1,DNA2,PPARG,CDH5,WNT9A,SFRP2,EXO1,IL8L1,KDR,FGF10,ANGPT1,ERBB4,GINS2,CXCL12
PPAR γ 1	GO Process	GO:0030154	Cell differentiation	11	1.86E-02	SFRP1,PPARG,CDH5,WNT9A,SFRP2,KDR,FGF10,ANGPT1,ERBB4,PROM1,CXCL12
PPAR γ 1	GO Process	GO:0051094	Positive regulation of developmental process	7	1.92E-02	PPARG,CDH5,WNT9A,KDR,FGF10,ERBB4,PROM1
PPAR γ 1	GO Function	GO:0005102	Signaling receptor binding	8	2.82E-02	CDH5,WNT9A,IL8L1,KDR,FGF10,ANGPT1,ERBB4,CXCL12
PPAR γ 1	GO Component	GO:0005615	Extracellular space	9	6.20E-04	SFRP1,VTN,WNT9A,SFRP2,IL8L1,FGF10,ANGPT1,MMP7,CXCL12
PPAR γ 1	GO Component	GO:0005576	Extracellular region	10	2.10E-03	SFRP1,VTN,WNT9A,SFRP2,IL8L1,FGF10,ANGPT1,MMP7,PROM1,CXCL12
PPAR γ 2	KEGG	gga04216	Ferroptosis	2	9.30E-03	TF,STEAP3
PPAR γ 2	GO Component	GO:0005576	extracellular region	4	3.56E-02	TF,SERPINC1,IL8L1,LBP

