

S2 Table. List of differentially expressed genes between YTN3 and YTN16 cells

Gene	YTN3/16.fc	p-value	Gene	YTN3/16.fc	p-value
1110002E22Rik	-3.45936	0.001255	Lrp5	-2.54384	1.21E-09
1190005I06Rik	-14.0219	6.06E-11	Lrrc24	-2.3147	0.02513
1190007I07Rik	2.03519	5.77E-06	Lrrc39	3.030451	8.31E-08
1700001F09Rik	2.182538	0.002321	Lrrc61	-22.2908	2.22E-17
1700029J07Rik	2.362249	0.000155	Lrrc66	-4.03389	6.59E-17
1700066B19Rik	-13.4324	2.96E-14	Lrrc71	-3.97148	2.05E-05
1700088E04Rik	-4.3157	0.000135	Lrrc8b	-3.78177	6.81E-19
1700102P08Rik	2.285562	0.002317	Lrrc8c	-6.08492	7.62E-31
2310030G06Rik	-2.16016	1.31E-06	Lrrd1	-3.26388	0.031053
2410124H12Rik	2.317692	0.000611	Lrtm2	-2.73401	1.78E-05
2610528A11Rik	-10.2219	3.45E-48	Ltbpl	2.340311	3.82E-09
3300002I08Rik	-2.22149	3.3E-07	Lvrn	-16.6625	9.16E-24
3425401B19Rik	-2.82249	1.79E-06	Ly6a	-19.9135	3.59E-75
4930402H24Rik	-2.89459	3.98E-13	Ly6c1	-8.7138	1.69E-41
4930432K21Rik	2.808253	5.14E-08	Ly6c2	-4.2201	3.99E-11
4930522L14Rik	-4.80026	1.77E-14	Ly6e	-24.7712	1.11E-81
4930563E22Rik	2.244627	0.003983	Ly6g2	-5.27427	4.53E-07
4931428F04Rik	-2.23122	1.6E-07	Ly6g5b	2.518376	1.17E-06
5031439G07Rik	-2.13641	1.33E-07	Ly6g6d	2.396732	0.003663
6430531B16Rik	2.47696	0.000216	Ly9	2.825222	2.56E-12
6430548M08Rik	-2.44746	6.1E-09	Lynx1	-6.48259	9.36E-31
6720489N17Rik	-4.32525	2.47E-05	Lypd1	-7.47782	0.001188
9130019O22Rik	-6.15776	3.88E-21	Lyst	-2.0357	1.03E-06
9530053A07Rik	-2.0634	0.00017	Maats1	-7.35791	2.05E-06
9930111J21Rik1	-2.20945	2.51E-07	Mab2114	-74.5324	3.54E-38
9930111J21Rik2	-2.68923	1.29E-09	Macc1	-12.9922	3.69E-23
A4galt	-187.659	1.4E-102	Macrod1	2.211063	0.000273
A630001G21Rik	-2.44423	0.005264	Mafa	2.002655	0.001923
A630023A22Rik	7.541246	2.68E-09	Mafb	-3.22989	2.01E-14
A930007A09Rik	-2.05835	0.000579	Maff	-2.5669	1.58E-10
Aass	-2.08152	0.002706	Maged2	-3.05815	1.88E-13

Abca13	-29.0485	4.68E-33	Magee1	-8.62118	3.99E-26
Abca4	-2.88819	8.89E-09	Magi2	-5.00194	6.33E-12
Abca7	-2.05448	8.72E-07	Mal	-120.312	9.2E-122
Abcc12	-3.43648	1.73E-10	Mal2	-4.02232	5.02E-21
Abcc2	4.691781	0.000488	Mall	-6.30026	5.24E-23
Abcd1	-2.75793	1.77E-10	Mamstr	-6.78869	3.93E-13
Abcg2	-3.84563	1.2E-19	Mansc1	-24.9449	2.53E-33
Abhd15`	2.190543	1.15E-06	Map1a	-12.1904	1.03E-22
Abhd17b	2.097934	3.02E-07	Map1b	-2.78846	2.53E-12
Abhd3	2.094436	0.01172	Map2	-2.93056	1.81E-13
Ablim1	-2.83197	2.17E-12	Map3k13	2.062858	2.66E-05
Abr	-2.25645	2.03E-08	Map9	-5.35268	2.97E-20
Acacb	2.57136	0.000199	Mapk3	-2.16339	1.04E-07
Acap1	-5.82832	0.009611	Mapre3	-2.25697	1.29E-05
Accs	-2.62599	2.07E-07	Marcks11	-6.95583	6.45E-24
Ackr3	-2.07045	7.83E-07	Marveld2	-8.22689	1.05E-24
Acnat1	-3.31072	0.000117	Mast1	-4.06363	0.000878
Acot1	-11.5357	6.82E-32	Matn2	-20.8423	3.88E-60
Acot11	-3.59997	1.11E-15	Matn3	-2.27109	5.96E-06
Acot12	-6.50021	5.22E-11	Mboat2	-2.28269	1.78E-08
Acox3	-2.58428	1.36E-09	Mc1r	-2.71454	0.034845
Acp5	-10.1596	3.71E-34	Mcoln2	-10.5194	4.87E-37
Acss2	2.219831	2.09E-07	Mcpt1	-90.1189	1.4E-105
Acta2	-63.8485	6.31E-95	Mcpt2	-58.8687	6.17E-67
Acvr1b	-2.1464	1.44E-06	Mcpt8	-5.56801	5.8E-19
Ada	-2.3179	6.09E-08	Mctp1	-51.8478	2.98E-29
Adam1a	-2.33785	0.000211	Me3	-2.72767	5.47E-08
Adam4	-4.83085	1.47E-07	Mef2d	-2.04624	1.14E-06
Adam8	-2.28322	3.37E-08	Megf10	-2.50413	1.46E-05
Adamts6	-2.16853	1.92E-06	Mei4	2.059303	1.74E-05
Adamts7	-5.51144	1.43E-19	Meis3	-2.08681	4.05E-06
Adamts14	-3.39769	6.54E-13	Melff	8.117962	0.002009
Adarb1	-4.97538	3.67E-21	Mep1a	-4.03564	1.73E-08

Adcy3	-31.3633	1.24E-48	Mettl7b	12.15035	3.42E-26
Adcy8	2.153358	0.007583	Mfhas1	-2.18406	7.92E-08
Add2	-26.6827	6.96E-31	Mfsd4b5	6.506883	0.009611
Add3	-2.83265	2.04E-11	Mfsd6	-4.4268	7.03E-22
Adgra3	3.061319	2.29E-14	Mgat4a	-6.58304	2.72E-06
Adgre5	-17.8838	1.2E-60	Mical1	-7.66348	1.78E-29
Adgrg1	-22.9365	6.76E-33	Mical2	-3.7333	4.27E-19
Adgrg2	-2.41883	2.36E-09	Micall1	-2.33807	6.87E-09
Adgrg6	-7.8026	1.06E-37	Miga1	-41.5831	1.11E-60
Adgrl1	-13.4688	3.02E-43	Minpp1	2.129672	1.52E-07
Adgrl3	-14.7532	8.51E-44	Misp3	3.34236	1.85E-11
Adhfe1	3.422521	8.66E-06	Mme	-13.3337	4.79E-60
Adnp	-6.72625	1.73E-35	Mmp19	3.197375	0.015348
Adssl1	-4.29705	3.92E-16	Mndal	-5.29543	9.38E-17
Afap1	-3.94102	1.3E-18	Mocs1	-3.3527	1.19E-14
Aff1	-2.42695	9.54E-10	Mocs3	-2.30383	2.92E-07
Agpat4	-2.94143	2.43E-12	Mok	-3.92079	4E-11
Ahi1	-2.10325	1.02E-06	Morn1	-2.0355	8E-05
Ahnak2	-4.03965	7.02E-21	Morn2	-2.15905	1.64E-05
AI661453	-2.25935	1.22E-06	Mov10	-2.51113	4.1E-10
Aif11	-4.16519	3.58E-16	Mpp2	-3.75189	8.86E-17
Akap13	-2.14605	1.34E-07	Mpzl3	-2.12305	2.99E-07
Akap5	-2.22913	0.00117	Mr1	-11.3135	2.16E-16
Akap9	-2.26083	1.43E-08	Mras	-5.3994	1.68E-26
Akip1	-3.92112	1.72E-17	Mrc1	3.556435	6.3E-18
Akna	-3.60145	1.87E-06	Mreg	3.651243	5.09E-12
Akt3	-141.556	6.24E-96	Mrgprb3	-32.6328	5.9E-15
Aldh1a1	2.695541	4.13E-07	Mrgpre	-2.88229	5.85E-10
Aldh3a1	-17.1682	2.48E-67	Mri1	2.067377	5.35E-07
Aldh5a1	-5.30777	1.23E-19	Mroh3	-2.09684	0.012051
Aldoc	-2.94986	7.32E-11	Mroh8	17.30149	0.000143
Alox5ap	-5.25894	1.4E-09	Mrpl11	2.152262	1.16E-07
Amer2	-152.948	1.35E-58	Mrpl16	2.178735	7.98E-08

Amotl1	-44.5759	8.78E-95	Mrtfa	-2.57357	9.07E-10
Ang	2.350427	1.41E-06	Mrvi1	3.084363	4.82E-07
Angel1	-3.20207	4.93E-05	Msh4	3.083874	0.000401
Angpt2	-3.82741	4.05E-05	Msn	-2.30616	6.77E-09
Angptl2	-5.66347	3.24E-08	Msr3	-2.0999	4.05E-07
Angptl4	-3.70023	1.96E-12	Mst1r	-2.09314	5.36E-07
Angptl6	2.581577	1.89E-08	Mt2	-5.19644	5.32E-19
Ank1	3.333135	0.000425	Mta3	-8.97596	2.87E-37
Ankdd1b	-3.67724	3.26E-11	Mthfs	-2.90194	1.81E-05
Ankrd1	-2.43353	7.12E-10	Mtmr7	-157.149	1.72E-59
Ankrd13d	-2.18996	5.25E-06	Mtss2	-11.0066	1.38E-11
Ankrd35	-9.127	2.25E-26	Mturn	-2.76154	2.49E-09
Ankrd42	-2.33347	2.12E-05	Muc1	-4.28712	7.54E-19
Ankrd44	-4.32617	1.12E-19	Muc3	-5.73369	1.51E-25
Anks1b	3.920946	2.51E-17	Myadm	-2.7269	9.12E-12
Ano6	-2.14688	1.07E-07	Mycbpap	-4.93198	8.47E-13
Antxr2	-2.62849	2.78E-11	Myh14	-9.38235	1.57E-44
Anxa11	-5.72919	1.78E-29	Myh15	-148.626	1.12E-86
Anxa6	-7.22218	2.22E-38	Myh9	-2.13517	1.21E-07
Aoc3	-6.29765	4.12E-06	Myl6b	-10.7696	6.37E-10
Ap1ar	2.235939	2.21E-08	Myl7	-209.382	4.7E-100
Ap1s3	-7.04745	2.65E-13	Myo16	2.04793	5.88E-05
Apc2	-6.34774	1.91E-25	Myo1a	-7.60492	5.59E-18
Ap1n	-15.5437	5.26E-50	Myo1b	3.010575	0.023157
Ap1nr	2.909769	0.021144	Myo1d	-2.97691	1.74E-13
Ap1p1	-4.55475	3.25E-20	Myo5c	-3.59758	3.42E-18
Apob	-4.20021	2.02E-22	Myo7b	-2.60377	6.26E-11
Apobec1	-4.24614	2.2E-19	Myom1	3.117878	2.23E-05
Apobec3	-2.43028	4.87E-09	Myom3	-4.33697	2.63E-15
Apobr	-2.61113	2.09E-08	Naa40	2.052401	8.17E-07
Apoc2	19.59022	1.52E-48	Naaa	-3.27625	8.33E-15
Apol9a	-84.1798	1.2E-32	Nacc2	-2.69189	6.16E-11
Apold1	-2.91003	4.28E-09	Naip1	-4.64822	4.66E-09

App	-2.20997	3.64E-08	Nap113	-8.01514	9.49E-25
Aqp5	-2.58501	5.21E-11	Naprt	-13.8447	1.16E-33
Arap2	-4.88898	7.54E-26	Nat14	-2.91168	2.29E-05
Arap3	-2.7469	0.00408	Nat2	-2.81557	1.71E-11
Arfgap3	-3.67938	2.47E-18	Nav1	-5.30669	1.67E-25
Arg1	-4.51076	5.57E-09	Nav2	-8.5505	3.47E-39
Arhgap17	-2.5469	1.14E-09	Nav3	-59.505	1.35E-73
Arhgap26	-2.97058	2.46E-09	Nbl1	-72.0659	8.89E-86
Arhgap29	-25.0946	1.01E-74	Ncald	-4.29317	2.28E-21
Arhgap31	-3.56457	9.03E-17	Ncam1	-2.17185	1.46E-07
Arhgap4	-2.38673	0.018754	Nckap11	-6.68144	4.07E-08
Arhgap8	-3.04851	7.96E-07	Nckap5	-2.34934	0.00014
Arhgap9	8.539857	2.62E-29	Nckap5l	-6.90027	2.34E-14
Arhgef16	-3.11506	2.48E-14	Ncmap	-87.5533	6.8E-76
Arhgef19	-3.14825	0.000211	Ndrg1	-2.1545	1.08E-07
Arhgef25	-4.60153	1.46E-13	Ndrg4	-6.1	3.55E-21
Arhgef26	-3.57994	4.95E-16	Nedd9	-2.86739	1.45E-12
Arhgef3	-2.73146	2.15E-11	Nes	-3.77891	3.91E-19
Arid1a	-2.33346	7.85E-09	Net1	-2.04184	6.86E-07
Arid3a	-3.85333	8.32E-15	Neu2	2.360348	0.018754
Arid5b	-2.1586	1.49E-07	Neurl2	2.078101	0.001261
Armc9	-2.48333	4.66E-09	Neurl3	-3.57241	1.61E-14
Arsa	-2.12148	4.51E-07	Nexn	-3.58802	3.03E-11
Arsb	-2.80373	2.48E-11	Nfat5	-3.006	1.14E-13
Asb5	-2.7469	0.00408	Nfatc1	-6.63807	7.94E-21
Asrgl1	3.052547	9.64E-13	Nfe2l3	-3.56297	0.001848
Atf7	-2.59488	8.37E-10	Nfic	-2.43203	1.77E-09
Atg13	-2.3096	3.44E-07	Nfix	-3.69145	9.72E-16
Atl1	-3.68334	7.98E-05	Nfkbie	-2.70735	1.58E-09
Atn1	-2.69438	2.27E-10	Ngef	-2.71899	2.75E-10
Atp11a	-2.55096	1.09E-10	Nhs	-3.1791	0.000821
Atp6v1c2	2.057626	0.010104	Nhs11	-29.4678	1.04E-46
Atp8a1	-3.39887	5.64E-14	Nim1k	-5.41154	2.45E-17

Atp8b2	-2.05813	6.18E-07	Nipal1	-3.21758	2.07E-15
Atrip	-2.08103	1.64E-06	Nipsnap3b	-2.59762	1.84E-10
Atxn1	-2.8622	1.36E-11	Nkx2-3	-7.64964	1.8E-18
AU021092	3.178985	0.002661	Nlgn2	-2.16233	9.96E-06
Axdnd1	2.701639	0.000946	Nlrc5	-6.19862	0.000556
B020031M17Rik	4.430322	0.026471	Nmi	-3.01293	1.56E-12
B3glct	-4.16067	2.74E-20	Nmnat2	-17.7739	1.73E-51
B3gnt9	-4.45917	2.99E-19	Nmrk1	2.729389	1.33E-10
B4galnt2	-7.63317	1.2E-20	Nnmt	-3.59032	4.43E-12
B4galnt3	-2.77231	0.009166	Nod1	-13.1253	6.27E-19
B4galnt4	-8.72637	1.91E-17	Nol3	-2.91622	2.86E-07
B4galt4	-2.34148	1.58E-08	Nos1ap	-3.9911	1E-07
Baalc	-3.57153	8.66E-06	Notch1	-2.10464	7.18E-07
Baiap211	-2.50511	2.8E-10	Npm2	3.744308	0.000419
Baiap3	-12.6119	0.000795	Npr1	-2.95005	6.36E-05
Barx2	-3.13636	0.000577	Npw	-2.60143	0.011418
Baz2a	-2.12527	2.58E-07	Npy4r	9.54822	3.84E-15
Bbs1	-2.82232	5.7E-08	Npy5r	2.231926	0.006804
Bbx	-2.49698	3.25E-10	Nr1d1	-5.72883	1.21E-17
BC016579	-3.94622	0.006445	Nrarp	-2.62284	6.77E-10
BC024063	-10.1615	1.28E-23	Nrbp2	-3.39222	2.82E-11
Bcam	-2.38868	2.2E-09	Nrep	-7.38462	6.46E-10
Bcar3	-2.00444	1.63E-06	Nrg2	9.301067	1.43E-42
Bche	-6.46785	6.99E-23	Nrip1	-2.42875	1.25E-09
Bcl2l15	-18.3218	1.84E-47	Nrip3	-11.1184	1.95E-15
Bcl6	-2.5785	1.09E-07	Nsd1	-2.63541	2.4E-11
Bcl9	-3.70865	2.97E-14	Nsmce3	-4.06645	1.97E-20
Bcl9l	-2.09281	1.22E-06	Nsun3	-4.63421	1.32E-20
Bcr	-2.03583	1.04E-06	Nt5dc3	-2.04004	9.81E-07
Bhlha15	-7.32665	5.97E-09	Ntn1	-7.52812	1.55E-12
Bhlhe40	-2.91036	3.55E-13	Ntn3	-4.64537	3.85E-07
Bin1	2.40711	1.31E-09	Ntn4	-4.17261	3.78E-19
Birc3	-2.40688	5.72E-09	Nuak1	-4.62138	3.61E-19

Bmf	9.950869	1.23E-34	Nudt16	-2.33636	8.25E-07
Bmp2	2.179274	1.07E-07	Nudt18	-2.08186	3.15E-05
Brsk1	-2.76006	1.21E-06	Nudt8	2.0797	7.45E-07
Bsn	4.354203	4.53E-09	Nutm1	-6.89651	2.77E-08
Btg2	-2.61758	2.61E-09	Nxpe4	2.77039	3.7E-05
C1qtnf1	-4.04453	9.96E-15	Nyap1	-2.26087	9.01E-05
C1qtnf12	2.803052	6.7E-07	Oas1a	-15.7702	1.3E-28
C1rb	2.016858	9.9E-05	Oas1g	-18.8984	7.25E-15
C2cd4a	6.506883	0.009611	Oas3	-5.38731	1.13E-08
C2cd4c	2.749638	4.75E-05	Oas1l	-2.11514	4.03E-07
C4bp	-15.0625	1.67E-28	Ociad2	-23.1702	3.59E-66
Cabp4	3.083874	0.000401	Ocln	-2.05958	0.000204
Cacfd1	-2.32564	1.64E-07	Odaph	-31.6743	8.06E-40
Cacnb1	-3.96526	6.32E-06	Ogfrl1	2.943541	5.75E-09
Cacnb3	-2.31665	8.61E-09	Olfr1033	-3.2688	4.84E-14
Cadm4	2.290822	3.08E-07	Olfr1342	69.69841	1.56E-51
Cadps	-3.26475	6.23E-07	Omp	2.927883	0.000114
Calcoco1	-2.06859	7.87E-05	Onecut3	-2.92205	2.77E-07
Calhm5	-5.14031	0.000538	Oplah	-3.04409	1.77E-08
Calml4	-3.41501	1.12E-13	Orai2	-2.48604	3.68E-10
Calr3	2.15015	1.02E-06	Osbpl6	-2.0273	5.54E-05
Camk1d	-90.3453	2.44E-60	Osgin1	-2.10912	1.54E-06
Camk2b	-8.82794	4.69E-29	Osmr	-9.15663	1.54E-13
Camk2n1	-4.65264	3.08E-15	Otop1	-88.3036	7.06E-34
Camsap3	-3.01626	1.09E-10	Otop3	-2.09147	8.59E-05
Camta2	-2.08034	9.3E-06	P2rx3	3.970438	0.000197
Cand2	-2.14014	4.91E-05	P3h3	2.169039	1.61E-06
Caprin2	2.502637	3.64E-09	Pacrg	6.907113	4.24E-21
Car12	2.71704	2.65E-06	Pacsin3	-2.24261	1.44E-07
Car2	-4.48797	2.14E-20	Pak1	-4.67098	2.22E-23
Car5b	-2.43494	4.95E-08	Pak3	-2.79118	1.17E-11
Car8	-78.0454	8.69E-81	Palld	-3.23949	1.27E-15
Card10	-2.03044	2.99E-06	Palmd	-5.0883	5.66E-25

Card14	-11.9912	4.49E-43	Pank1	-3.46741	1.34E-15
Carhsp1	-2.16933	8.35E-08	Papln	-9.95208	5E-05
Carnmt1	2.44057	7.18E-10	Papss2	-6.17044	3.27E-30
Casp7	-24.6146	4.98E-49	Pard3b	-2.17141	2.08E-06
Castor1	-2.13615	0.000291	Parp10	-2.30104	1.71E-07
Casz1	-22.8282	8.96E-26	Parp14	-16.6139	2.72E-38
Cavin2	3.190897	2.07E-15	Parp4	-2.68072	1.11E-10
Cbarp	-2.80255	9.88E-10	Parp8	-9.76144	1.42E-36
Cbl	-2.13078	1.72E-07	Pate2	3.552226	0.004296
Cblb	-2.80401	1.55E-11	Pawr	-5.39628	1.39E-25
Cbr1	-350.575	4.11E-75	Pax8	-2.96432	0.000366
Cbr3	-15.2821	5.82E-22	Pbld2	-3.55566	1.92E-08
Cbx7	-3.71415	4.77E-15	Pbx1	-2.09542	2.86E-07
Ccdc103	-4.14965	3.47E-07	Pbxip1	-2.13667	2.61E-07
Ccdc112	-2.93673	0.001492	Pcdh17	-2.66524	3.94E-11
Ccdc114	-2.22864	0.003666	Pcdhb22	-4.23823	0.016576
Ccdc116	-3.71691	6.21E-10	Pcdhga4	-14.957	0.000143
Ccdc125	-2.57117	1.37E-09	Pcdhga6	-13.3936	0.000448
Ccdc148	-2.48752	0.000385	Pcdhgc5	-6.65307	0.003394
Ccdc149	-20.7362	3.85E-53	Pcgf6	2.182583	7.52E-08
Ccdc162	-3.20241	0.000157	Pcolce2	-2.06971	4.26E-07
Ccdc169	4.50498	0.000759	Pcsk6	-724.263	6E-117
Ccdc17	-2.3487	0.004407	Pde2a	-14.1459	6.67E-15
Ccdc171	2.212442	3.39E-06	Pde9a	-15.205	2.05E-34
Ccdc28a	-2.70526	1.28E-06	Pdgfa	-3.76493	1.59E-17
Ccdc30	-3.8076	0.000149	Pdgfb	-2.45791	2.24E-09
Ccdc62	2.151423	0.001526	Pdgfd	-38.5568	4.18E-71
Ccdc711	-2.72765	1.97E-11	Pdlim4	-110.702	5.13E-82
Ccdc80	-6.33878	9.68E-34	Pdzn3	-7.57317	6.23E-37
Ccdc85a	-3.1791	0.000821	Per1	-2.01364	7.19E-06
Ccdc85b	2.037632	1.38E-06	Pfkfb1	2.135069	2.56E-06
Ccdc89	-6.88444	1.41E-07	Pfkfb3	-3.73896	1.17E-16
Ccdc96	-4.17029	2.69E-14	Pfn2	-4.59763	2.41E-23

Ccdc9b	-2.02249	1.95E-06	Pgf	-14.6782	4.27E-21
Ccl2	-4.8438	7.44E-15	Pgm211	2.47691	2.24E-09
Ccl28	-3.47063	6.11E-05	Pgm3	-2.00899	2.21E-06
Ccn2	-5.05797	2.83E-27	Phactr4	-2.09743	9.52E-07
Ccn4	-3.95042	4.33E-19	Phc3	-2.1827	7.78E-08
Ccng2	-2.27622	1.73E-08	Pheta2	-4.70395	1.54E-05
Ccpg1os	-3.28815	9.62E-08	Phf11c	3.096539	8.68E-05
Cd109	-5.81929	1.97E-15	Phf11d	-8.91151	7.29E-16
Cd14	2.058368	6.04E-07	Phf21b	3.918974	4.33E-10
Cd209d	-2.98578	0.000506	Phlda1	-2.98042	3.27E-13
Cd274	2.087583	0.0002	Phldb3	-2.05943	9.38E-06
Cd276	-2.86606	4.02E-11	Pias3	-2.37781	1.83E-08
Cd302	-83.235	5.25E-74	Piezo1	-2.11784	1.88E-07
Cd36	-4.28033	1.13E-06	Pik3cd	-3.27869	1.13E-06
Cd55	-9.88984	4.12E-37	Pik3r5	-14.3181	4.1E-49
Cd68	-3.27139	1.37E-06	Pilrb2	-2.80521	7.39E-09
Cd82	-9.21043	1.59E-33	Pim1	-2.2016	6.21E-08
Cda	-2.00613	0.000259	Pipox	7.35547	0.000556
Cdh10	-37.9089	7.64E-52	Pitpnc1	-8.00537	9.99E-13
Cdh16	2.469299	0.000108	Piwil2	2.12867	0.038794
Cdh24	-3.41858	6.74E-11	Pkd113	7.837629	9.44E-07
Cdh9	-4.79135	1.85E-24	Pkhd111	-16.7984	1.66E-41
Cdhr1	-130.635	1.77E-61	Pkp1	-3.9202	1.63E-14
Cdhr5	-10.0618	3.68E-44	Pla1a	-17.1767	1.84E-28
Cdk14	-6.18087	7.16E-22	Pla2g6	-2.03389	2.6E-06
Cdk18	-3.37262	2.14E-16	Pla2g7	-8.5734	4.25E-17
Cdk5r1	2.256349	7.52E-05	Plag1	13.96224	8.46E-17
Cdk6	-2.12274	1.53E-07	Plat	-2.45399	6.19E-10
Cdkn1a	-3.91345	5.64E-08	Plau	-2.23256	1.09E-07
Cdsn	-4.48739	1.56E-09	Plcl1	-11.8745	1.64E-30
Cdx2	-2.77731	3.11E-12	Plec	-2.43629	6.2E-10
Cebpa	-27.1674	7.65E-21	Plek2	-2.01121	1.42E-06
Cela1	-7.81133	6.85E-23	Plekhg3	-2.08922	3.2E-07

Celf2	-34.6156	2.12E-61	Plekhg4	-2.07192	4.01E-05
Cemip	-2.00397	0.000357	Plekhnl	-3.65083	0.000613
Cep112	-18.2753	6.56E-17	Plpp1	-2.05586	1.49E-06
Cep78	2.124309	2.72E-07	Plpp6	-2.27584	1.02E-07
Cerk	-4.10653	2.32E-20	Plscr2	-4.84757	8.53E-20
Cers3	-2.43825	0.000519	Plscr3	-2.1065	1.54E-06
Ces2g	-4.92055	1.05E-22	Pltp	-8.26425	2.93E-15
Cfap300	-5.31461	9.81E-24	Plxna4	-9.68276	5.88E-41
Chd5	2.552018	0.039703	Plxnb3	-11.2794	4.82E-42
Chd9	-2.08657	4.09E-07	Plxnd1	-3.26482	3.32E-09
Chn1	-2.46937	2.28E-07	Pmepa1	-2.28114	1.15E-08
Chrd	-3.12327	3.36E-07	Pnlc1	5.032369	1.15E-05
Chrn2	2.379401	0.000398	Pnma1	-2.87296	0.039703
Chst1	-19.7465	1.51E-15	Podnl1	2.500049	0.000319
Cideb	-5.82832	0.009611	Pold4	-2.08389	6.01E-07
Cish	-2.82283	1.82E-07	Poln	4.340266	5.5E-07
Ckap4	-3.91338	5.66E-20	Pou6f1	-14.8594	1.06E-15
Clca3a2	-20.0133	6.02E-41	Ppargc1a	-7.68996	3.91E-11
Clca3b	-16.4894	5.29E-68	Ppef1	-5.98281	2.38E-17
Cldn15	-7.94502	2.46E-27	Ppfibp2	-2.10001	1.25E-06
Cldn2	2.393551	1.49E-09	Ppm1e	28.1262	1.04E-28
Cldn23	-10.9269	2.74E-15	Ppm1h	-18.0797	5.07E-32
Cldnd1	-2.33319	9.26E-09	Ppm1j	-9.33827	1.06E-18
Clec2f	-2.27109	3.23E-08	Ppp1r13l	-4.75471	9.21E-18
Clic3	-4.09153	5.31E-14	Ppp1r1b	-8.76163	2.67E-21
Clic6	-13.0607	1.62E-38	Ppp1r32	-4.22526	6.82E-05
Clip2	-5.1337	7.21E-23	Ppp1r3b	-2.23636	1.24E-06
Clmn	-2.0068	2.18E-06	Ppp2r3d	-3.7069	3.46E-09
Clrn3	-30.8975	7.21E-53	Ppp3cc	-2.54592	4.6E-08
Clstn1	-2.60993	4.23E-11	Prap1	-5.59841	1.25E-08
Clvs2	-4.82413	7.6E-09	Prcd	3.882546	0.000104
Cmc4	2.053052	2.22E-05	Preid2	-2.26224	1.6E-07
Cmip	-2.95852	6.07E-13	Preid3a	2.815192	1.94E-10

Cmtm3	-2.89301	1.84E-10	Prex2	7.28195	1.13E-10
Cnksr1	-2.04416	1E-05	Prickle3	-2.72248	9.53E-06
Cnn1	-5.99324	6.4E-05	Prkar2b	2.198954	4.85E-08
Cnn2	-2.30505	7.08E-09	Prkcg	-3.52345	3.41E-09
Cnnm4	-2.78165	2.52E-12	Prkcz	-2.15829	2.15E-07
Cnp	-3.33526	2.48E-14	Prkd2	-4.3167	1.99E-15
Cntd1	4.778482	1.17E-07	Prkg2	-2.3655	2.4E-09
Cntf	-2.5833	6.45E-06	Prl3d1	3.552226	0.004296
Cntnap2	-11.4347	4.28E-12	Prnp	-2.34373	5.15E-09
Cntnap5a	-6.52125	9.88E-16	Prokr1	-17.1425	5.03E-18
Cobl	-3.12536	1.56E-14	Pros1	-7.19858	2.02E-36
Col15a1	2.795082	0.000506	Proser2	-2.78424	1.33E-08
Col16a1	-7.44889	3.76E-31	Prr12	-2.52445	1.95E-08
Col18a1	-2.00712	1.62E-06	Prr13	-2.15383	1.35E-07
Col27a1	2.671266	3.04E-11	Prrc2c	-2.22828	2.54E-08
Col4a5	2.338349	1.54E-08	Prss23	-3.089	1.13E-14
Col6a1	3.227461	1.57E-15	Prss35	2.425345	3.46E-09
Commd7	-2.68626	7.73E-11	Prune2	-7.20203	3.26E-29
Copz2	-24.2999	1.82E-26	Prxl2a	-6.97254	5.81E-33
Coq8a	-3.93805	0.000206	Prxl2b	-2.47382	1.81E-07
Coro7	-2.23177	2.02E-07	Psat1	2.145278	1.03E-07
Cotl1	-3.36656	1.83E-16	Psd	2.824306	1.99E-06
Cox20	3.907233	3.27E-16	Psen2	-4.46773	5.31E-14
Cox8a	2.260526	1.49E-08	Pstpip1	4.396429	3.47E-09
Cp	-5.89165	7.06E-29	Ptchd1	2.523718	6.12E-09
Cplane2	6.214559	7.85E-07	Pter	2.49256	5.38E-10
Cpm	-79.8595	5.68E-80	Ptger4	-2.554	1.97E-08
Cpox	-2.03839	8.79E-07	Ptges3l	-2.1969	6.09E-06
Cpq	-6.45362	2.16E-27	Ptgr1	-6.70611	3.68E-30
Cpt1b	-12.6119	0.000795	Ptpn14	-5.09918	4.09E-26
Crabp2	-5.82832	0.009611	Ptpn23	-2.53772	3.51E-10
Cracr2a	-7.31885	7.68E-05	Ptpn3	-60.0858	1.46E-64
Cracr2b	-6.17238	4E-19	Ptpn5	-8.23353	2.68E-09

Creb3l2	-3.67461	6.37E-18	Ptprd	-3.4575	1.02E-15
Creb3l3	-2.26437	0.00187	Ptprg	-13.2903	6.35E-54
Creb5	-10.5002	6.06E-25	Ptprt	-5.02525	6.19E-22
Cryab	-9.19342	7.78E-44	Pwwp3b	-3.56409	2.92E-16
Crybb3	-11.0484	0.002504	Pyroxd2	-2.45789	3.13E-05
Crybg2	-2.63681	1.08E-09	Qsox1	-2.59821	4.94E-11
Crybg3	-2.16509	9.84E-08	R3hdml	2.029114	5.26E-05
Csrp1	-3.10331	8.63E-15	Rab11fip5	-20.3662	1.41E-60
Cstdc2	2.021549	2.82E-05	Rab27a	-2.14087	1.09E-06
Cstf2t	-24.4698	1.35E-74	Rab32	-6.15521	2.72E-27
Ctnnal1	-3.05348	1.59E-11	Rab39b	2.352899	1.78E-08
Ctps2	-2.20207	9.98E-08	Rab42	2.138739	0.004834
Ctse	-19.4647	4.58E-60	Rac3	-3.46422	9.08E-09
Ctso	-2.83174	2.53E-06	Rai1	-2.82476	1.23E-12
Ctxn1	-8.79242	8.26E-15	Rapgef4	7.783245	2.71E-19
Cubn	-2.69155	1.08E-09	Rapgef5	-2.09684	5.88E-05
Cul7	-3.44249	1.41E-16	Raph1	-2.04741	7.83E-07
Cutal	-4.08614	1.02E-06	Rasa4	-3.82478	1.36E-15
Cxadr	-3.12513	5.96E-15	Rasgef1b	-2.75797	5.3E-12
Cxcl1	4.593082	6.68E-20	Rasgrf2	-3.40083	2.49E-16
Cxcl5	-20.1851	1.75E-62	Rasgrp3	-2.40822	1.73E-09
Cyb561	-70.6889	1.53E-94	Rasip1	-4.30112	4.46E-08
Cyb5r3	-2.45046	5.71E-10	Rasl1a	-2.2158	5.63E-08
Cyba	-6.34169	1.4E-33	Rasl1b	-3.26475	6.23E-07
Cybb	-2.22913	0.00117	Rbm43	-12.686	9.29E-43
Cyp2c68	17.65796	1.65E-15	Rbp1	-13.3746	1.85E-48
Cyp2d26	-19.0244	7.06E-09	Rbp2	-3.93666	5.4E-17
Cyp2j6	-40.1024	7.18E-65	Rcor2	3.12836	6.59E-14
Cyp3a13	-3.1685	6.06E-14	Rdh10	-2.0881	2.8E-07
Cyp4b1	-2.66982	1.45E-08	Rdh5	-2.10988	0.00656
Cys1	-3.45125	4.2E-07	Rell1	-2.14295	1.64E-07
D16Ert472e	-3.09393	2.13E-13	Rell2	-2.91333	0.000487
Dact3	8.67024	5.48E-11	Repin1	-16.8243	1.54E-52

Dapp1	-3.24601	2.89E-14	Reps2	-7.25238	4.26E-08
Dbp	-2.46713	6.41E-08	Rere	-2.04758	1.12E-06
Ddah2	-3.24721	5.54E-08	Rffl	-2.66403	3.16E-09
Ddn	-12.1137	1.89E-09	Rfk	2.020693	1.03E-06
Ddr2	-4.21257	3.62E-06	Rflna	-2.60143	0.011418
Ddx58	-5.01131	2.02E-22	Rflnb	-2.928	2.14E-13
Decr2	-3.2165	7.1E-13	Rftn1	7.2678	1.16E-17
Dennd3	-15.366	6.12E-28	Rgl1	2.871811	5.1E-13
Dffb	2.541325	1.65E-09	Rgl3	-3.53961	8.44E-11
Dgat2	2.09691	4.11E-07	Rgs12	-2.81647	4.28E-11
Dgka	-2.71757	1.08E-10	Rgs14	4.936168	0.000672
Dhcr24	-2.60931	3.39E-11	Rgs16	-8.72411	5.59E-10
Dhrs3	-4.5397	2.68E-17	Rgs20	-3.01221	1.39E-05
Dhx40	-2.45402	9.82E-10	Rhbdd2	-2.41891	3.41E-09
Dip2c	-2.8997	4.61E-12	Rhbdf2	-3.04542	6.41E-13
Disp1	-2.60365	5.08E-10	Rhbdl2	-4.866	2.31E-15
Dixdc1	-5.70564	1.05E-07	Rhoc	-2.13113	1.58E-07
Dkk2	-6.91989	1.69E-16	Rhox5	3.819233	4.85E-11
Dlg3	-26.9584	1.69E-40	Rin3	-2.10796	1.07E-06
Dlg4	-4.30791	2.77E-11	Ripk3	-5.18437	1.51E-26
Dlg5	-2.80216	3.23E-12	Ripor1	-3.02252	2.28E-13
Dll1	-10.456	7.08E-18	Ripply3	-4.13578	6.87E-18
Dmkn	-37.541	7.96E-45	Rnasel	-2.20989	1.35E-06
Dmrta2	-21.839	6.08E-30	Rnf113a2	-2.15121	2.83E-06
Dnaaf3	-4.83588	4.66E-07	Rnf152	-15.5224	7.62E-21
Dnaaf5	-2.10664	2.83E-07	Rnf213	-2.76525	2.37E-12
Dnah10	-4.96973	0.00082	Rnf223	-2.08165	0.01089
Dnah17	-2.95983	0.017312	Rnf32	-2.9303	6.23E-10
Dnah2	-3.13283	0.007786	Rnf39	-3.52027	1.38E-14
Dnajc15	-2.70511	2.94E-11	Rnf43	-24.7014	1.19E-50
Dnal1	-2.44561	9.75E-07	Rnf5	-2.07844	5.14E-05
Dnal4	-2.25724	8.2E-08	Robo2	-4.71098	7.35E-13
Dock4	-2.37013	2.01E-07	Ropn11	-3.77977	1.21E-05

Dock6	-2.70195	1.32E-10	Rorb	-4.03605	9.75E-11
Dok3	-3.02556	3.79E-05	Ros1	9.494953	2.77E-10
Dok7	-8.44446	2.53E-25	Rph3al	-2.91723	1.06E-09
Dop1b	-2.01276	3.86E-06	Rprd1a	2.46728	7.62E-10
Dpf3	-3.67812	0.041975	Rps6ka3	-2.05768	5.24E-07
Dpy1913	-4.43115	1.09E-18	Rrad	-4.27127	1.91E-14
Dpysl3	-6.08908	7.01E-33	Rras	-2.28843	2.11E-06
Dqx1	-2.16823	2.24E-05	Rsc1a1	15.86957	9.33E-50
Drc1	-3.08369	7.4E-08	Rsph3b	-2.16598	1.93E-07
Drc3	-2.75258	4.44E-05	Rsph9	-7.43418	4.08E-09
Drp2	3.340013	0.000219	Rspo3	-7.43921	2.27E-07
Dsg2	-15.9044	5.75E-59	Rsu1	-2.21604	6.06E-08
Dsp	-39.5004	1.51E-97	Rtl8a	-4.81267	5.3E-19
Dst	-2.1758	6.07E-08	Rtl8b	-3.71173	1.28E-14
Dtwd2	3.047807	1.46E-12	Rtn2	2.264978	2.92E-07
Dtx4	2.129745	5.31E-07	Rtn4rl1	3.726892	1.33E-14
Dusp1	-2.66823	1.49E-10	Rusc2	-2.53013	7.74E-10
Dusp10	-2.78791	1.52E-11	S100a11	-2.19427	1.22E-07
Dusp14	-2.2257	4E-08	S100g	-3.80573	8.91E-19
Dusp23	-3.32776	0.008413	Sag	3.401599	0.001889
Dusp8	-2.23296	1.64E-06	Sall2	-4.01484	2.33E-13
Dusp9	-3.28669	2.29E-11	Samd11	-7.06544	0.002009
Dync2li1	-2.95684	2.01E-11	Samd12	-7.21987	3.59E-15
E030030I06Rik	2.289155	4.35E-05	Samd14	-2.54807	3.54E-09
E330009J07Rik	-9.83172	2.61E-22	Samd9l	-3.53733	1.5E-17
Echdc3	-5.60606	2.93E-15	Sardh	5.749171	1.2E-12
Eci2	-208.475	1.8E-111	Sarm1	-3.08248	0.012098
Ecm1	-9.19585	3.23E-27	Satb1	-7.68532	8.78E-17
Ecscr	-9.12293	1.58E-34	Satb2	-2.82258	2.05E-08
Eda2r	-7.8673	6.58E-08	Sbsn	-3.70264	5.15E-17
Edn1	-3.51462	1.52E-10	Scamp5	-32.2207	2.35E-47
Edn2	-13.5974	9.37E-31	Scarb1	-7.2376	1.59E-34
Efcab12	3.079618	0.000117	Sccpdh	-12.974	1.05E-47

Efhc1	-2.89461	0.000735	Scd4	-3.25983	2.16E-05
Efna2	-10.6811	2.74E-25	Scly	-3.22508	4.95E-13
Efna3	-4.21257	3.62E-06	Scx	-11.8132	1.1E-38
Efna4	-5.53728	3.74E-15	Sdc2	-24.868	2.47E-49
Efna5	-2.5076	1.39E-09	Sdcbp2	-9.74754	3.79E-43
Efr3b	-4.87069	0.000255	Sdr42e1	-14.979	1.31E-17
Egf	-2.19389	0.004597	Sdsl	2.371699	0.023845
Egfl8	-2.92558	8.35E-05	Sec1	2.592426	2.37E-08
Egfr	-4.70056	4.92E-25	Sec16b	2.408378	1.97E-05
Egln3	-2.75127	6.62E-12	Sec24d	-2.44723	7.55E-10
Ehd3	-60.7912	5.84E-77	Sel1l3	-15.9913	6.38E-53
Ehf	-10.1122	8.49E-31	Selp	-4.13435	4.04E-12
Eif4a3l1	-5.0784	0.003945	Sema3a	2.272931	2.36E-07
Elmod1	-2.09853	2.77E-07	Sema3d	-33.0421	2.61E-50
Elovl3	3.070384	0.014306	Sema3f	-2.5875	7.18E-08
Eml1	-2.00169	1.69E-06	Sema4a	-3.70033	3E-17
Emp3	-2.70397	2.09E-11	Sema4f	-22.7117	5.91E-76
Enah	-163.976	1.17E-81	Sema4g	-7.92405	1.29E-29
Endod1	-16.5	3.44E-64	Sema6a	-22.9882	1.22E-64
Eng	-2.52186	7.23E-05	Sept1	3.132989	0.00041
Eno3	-2.47919	3.24E-10	Sept4	2.976258	0.002293
Eno4	2.914798	3.77E-05	Sept5	-19.0267	5.53E-35
Enpp2	-67.7159	7.93E-55	Sept9	-17.3998	5.24E-64
Enpp3	-12.9831	1.56E-45	Serinc5	-2.47236	1.03E-08
Enpp5	-2.92263	6.17E-12	Serpinb1a	-52.5546	2.81E-94
Entpd5	-2.19177	1.12E-07	Serpinb6b	-2.49137	2.93E-10
Eomes	-8.93538	9.3E-22	Serpinb8	-25.3578	4.07E-40
Ep300	-2.36028	4.11E-09	Serpinb9	-2.30122	1E-08
Epha4	-3.42211	5.29E-17	Serpinb9b	-5.80459	2.04E-29
Ephb3	-5.88835	4.06E-28	Serpine1	-2.23594	2.18E-08
Ephx2	-3.06761	2.01E-13	Serpini1	2.751829	6.6E-10
Eppk1	-2.68286	1.5E-11	Sestd1	-3.45112	6.81E-17
Eps8l1	-6.99976	6.69E-10	Setbp1	-2.36242	1.19E-08

Ereg	5.969857	0.016084	Setd1b	-5.01391	1.37E-19
Erfe	-2.17861	2.09E-07	Sez6l2	3.744308	0.000419
Ern1	-2.35704	4.55E-09	Sfn	-3.14626	1.46E-10
Ero1lb	-2.16622	6.15E-07	Sgcb	-2.07673	3.32E-06
Errfi1	-2.76706	2.33E-12	Sgk1	-3.34682	2E-16
Espnl	5.475002	8.5E-16	Sgms2	-2.42118	9.19E-10
Esr1	-6.51368	9.81E-31	Sgsh	-3.63094	8.74E-17
Esrra	2.266776	1.56E-08	Sh2b2	-3.97448	1.99E-14
Etfbkmt	-3.07522	8.12E-10	Sh2d1b1	-3.74396	1.06E-05
Eva1b	-3.32331	8.52E-10	Sh2d3c	-2.19614	0.008349
Eva1c	-2.73489	2.19E-11	Sh2d5	2.085918	0.013018
Evi5l	-4.13452	1.78E-18	Sh3bp1	-2.58137	1.47E-09
Evpl	-3.18086	5.77E-14	Sh3bp4	-2.03306	1.08E-06
Exd1	-3.68638	3.34E-11	Sh3d21	-9.37614	3.73E-18
Exph5	-3.2881	3.73E-13	Sh3tc1	-2.25856	2.11E-08
Eya2	-17.4453	3.32E-32	Shank2	-2.66687	0.002593
F2rl1	-3.10191	1.15E-14	Shisa4	-29.7596	9.64E-42
F3	-5.0305	2.61E-27	Shmt1	2.135041	1.36E-07
Fa2h	-3.30806	0.000603	Shpk	-2.07213	4.29E-06
Faah	-2.58922	6.26E-08	Shtn1	-2.01197	1.86E-06
Fam110c	-2.21803	1.54E-07	Siglecg	-2.71526	1.94E-06
Fam160a1	-3.64206	1.16E-16	Sim2	-12.5213	4.07E-41
Fam161a	-4.39209	1.69E-07	Sipa1l2	-8.46478	3.51E-35
Fam169a	-5.00356	0.02678	Six4	-4.55209	4.23E-09
Fam171a1	-6.3968	2.32E-30	Slc12a7	-2.46548	8.79E-10
Fam20c	-4.82705	2.09E-25	Slc16a2	-7.39462	2.07E-28
Fam214a	-7.47589	5.53E-18	Slc17a6	4.48979	0.001695
Fam214b	-3.71403	5.42E-14	Slc18a1	2.611153	0.000363
Fam229b	-2.1254	0.000249	Slc22a21	-4.55772	4.18E-18
Fam241b	-2.17838	0.001112	Slc25a43	3.108109	1.49E-08
Fam43a	-4.46012	2.52E-23	Slc25a45	-3.91453	4.69E-08
Fam71f2	-2.17515	0.01172	Slc26a10	2.209715	0.003379
Fam83b	-2.29782	4.39E-08	Slc26a11	-2.00116	0.000195

Fam98c	-2.65158	1.06E-08	Slc27a1	-6.01247	1.82E-10
Fat1	-2.79	1.36E-12	Slc29a3	-2.05461	4.37E-05
Fat2	-11.0156	6.92E-25	Slc2a9	-3.6464	1.92E-09
Faxc	-7.30157	2.12E-27	Slc35c1	-2.3461	2.44E-08
Fblim1	-3.3497	8.44E-14	Slc35g1	2.281146	1.5E-08
Fbln1	-29.8031	3.61E-65	Slc37a1	-2.86127	5.5E-12
Fbln2	-2.58429	4.69E-11	Slc37a3	-2.82645	1.13E-12
Fbn1	-4.09015	2.04E-09	Slc38a1	-2.18892	1.15E-07
Fbp2	-4.83165	1.07E-24	Slc39a13	-2.13055	2.52E-07
Fbxw9	-2.64381	1.6E-10	Slc39a8	-2.12143	1.5E-06
Fcho1	-2.99098	9.07E-12	Slc3a1	-3.26388	0.031053
Fcho2	-2.05408	8.46E-07	Slc40a1	-3.03537	2.98E-14
Fcna	-5.85603	1.33E-10	Slc41a3	-2.8407	6.18E-07
Fermt2	-4.11183	2.01E-20	Slc43a1	-5.19605	8.3E-08
Fgd3	-2.88081	8.72E-13	Slc44a3	-2.76615	2.9E-11
Fgf18	-3.41903	6.44E-05	Slc45a3	-10.4956	2.48E-27
Fgf9	-30.1585	7.81E-14	Slc45a4	-2.95974	2.17E-12
Fgfbp3	2.350975	1.81E-05	Slc52a3	-5.81087	4.94E-21
Fgfr2	-6.81307	8.22E-05	Slc7a1	-2.25724	1.57E-08
Fgfr4	-5.48159	6.56E-21	Slc7a7	-2.37014	8.03E-09
Fgfrl1	-2.38086	3.67E-08	Slc9a1	-2.13722	7.48E-07
Fggy	5.79223	2.45E-13	Slc9a9	-3.04778	2.04E-06
Fhl1	-16.4485	8.91E-58	Slco1a6	-3.24104	0.000117
Fhl4	-2.88823	3.4E-06	Slco2a1	-2.13187	1.18E-06
Fjx1	-3.96102	7.35E-13	Slfn2	-3.95045	5.49E-17
Fkbp14	-2.62912	1.72E-08	Slfn8	-2.37724	0.00108
Fkbp5	3.692439	9.48E-19	Slit1	-3.00803	3.87E-06
Flnb	-2.61768	2.56E-11	Slurp1	-7.1877	3.15E-21
Flt3l	-2.30043	2.82E-06	Smad9	-2.50865	1.17E-09
Fmnl2	-4.69283	0.001695	Smarca2	-3.22403	3.24E-14
Fn1	-17.9065	3.96E-67	Smim1	-7.94036	8.66E-12
Fnbp1	-2.35853	1.28E-07	Smim5	-3.45936	0.001255
Fndc3b	-2.00922	1.3E-06	Smo	2.163818	1.06E-07

Fosl2	-2.267	1.73E-08	Smoc1	-2.54234	2.54E-10
Foxj1	-8.67277	1.68E-23	Smox	-23.7087	2.68E-35
Foxn3	-3.49619	4.13E-16	Smpd5	-5.70564	1.05E-07
Foxo1	-4.79368	1.3E-23	Smpdl3a	-3.94525	6.57E-09
Foxred2	-10.5824	4.42E-39	Smtn	-2.06631	7.89E-07
Frat1	2.2666	1.2E-06	Smtnl2	2.642167	5.26E-11
Frmd6	-3.05237	5.98E-14	Snai2	-19.0478	2.73E-23
Frmd7	-4.8511	3.39E-16	Snn	-2.3465	5.53E-08
Fry	-25.2342	5.77E-40	Snx22	-5.00356	0.02678
Fsbp	2.231738	5.71E-06	Soat2	-2.06531	5.45E-05
Fstl1	-14.1335	4.8E-62	Socs2	2.422904	1.05E-09
Fstl5	-4.01479	2.22E-08	Soga1	-180.153	6E-101
Fut10	-2.22508	5.64E-08	Sorl1	-37.5813	6.03E-17
Fut2	-2.28738	0.038302	Sort1	-5.27371	4.94E-23
Fxyd5	-2.5631	3.03E-07	Sox6	-4.45988	1.01E-06
Fyn	-4.62816	9.04E-17	Sox9	-3.74151	3.26E-11
Fzd1	-84.8221	1E-103	Sp2	-2.14433	1.43E-05
Gadd45g	-2.41275	1.48E-09	Spa17	-2.60799	0.00183
Gal3st1	-4.4498	1.08E-11	Spaca9	-4.12757	1.38E-07
Galc	-2.0948	1.15E-06	Spag1	2.117988	5.27E-06
Galnt18	-8.32184	2.6E-40	Spata13	-38.4779	1.34E-71
Galr2	-5.82832	0.009611	Spata22	6.152605	3.7E-12
Gas6	-57.6142	5.5E-107	Spata7	-2.06571	7.15E-06
Gata5	-3.52631	3.22E-16	Spef1	-2.58305	1.52E-07
Gatad2b	-2.56773	1.86E-10	Sphk1	-3.11343	3.05E-10
Gch1	-3.08177	4.19E-14	Spice1	-2.25054	7.12E-08
Gchfr	-2.36494	8.72E-09	Spin2c	-10.4601	5.13E-21
Gcnt2	-2.31996	1.03E-08	Spink10	5.575988	0.001695
Gcnt3	-12.3075	2.73E-49	Spink4	-12.0408	4.78E-24
Gdf1	-13.3936	0.000448	Spns2	-17.3913	2.53E-53
Gemin6	2.05014	6.65E-07	Spock2	8.654988	0.001188
Gfra1	-6.27656	6.84E-10	Spred2	-2.27171	4.9E-08
Ggn	-2.34093	0.043957	Sprr2a1	-45.6485	8.1E-75

Ggt7	2.004636	1.27E-05	Sprr2a2	-45.5906	8.59E-75
Ghr	-2.41624	1.53E-09	Sprr2a3	-17.8426	1.78E-57
Gja6	2.588541	0.045281	Sprr2h	-4.57606	1.29E-15
Gjb1	5.834374	3.1E-24	Spsb4	3.00162	3.76E-08
Glde	2.417845	9.44E-10	Sptssb	-2.74808	6.85E-07
Glpr1	-4.79049	7.68E-25	Srgap1	-3.31325	4.27E-13
Glrp1	2.699247	3.44E-11	Srpk2	-2.53773	2.18E-10
Glt28d2	-2.34572	7.08E-06	Ssc5d	-5.41594	0.016084
Glul	-2.35781	4.34E-09	Sspn	-2.39269	8.11E-08
Glyat	3.7614	7.67E-05	Sstr2	-7.06544	0.002009
Gm10044	-2.10346	8.68E-06	St5	-3.31304	2.82E-10
Gm10277	-3.01565	0.027679	Stab1	-10.2137	4.45E-27
Gm14137	-2.22364	1.44E-07	Stac3	4.744434	0.006647
Gm14322	-12.931	3.49E-40	Stap2	-3.41853	1.63E-12
Gm14393	-2.1904	3.27E-07	Stbd1	-11.4673	4.3E-28
Gm15093	-2.77238	6.04E-05	Stc2	-3.76293	5.29E-18
Gm15816	2.833752	0.019169	Steap4	-2.22804	1.23E-07
Gm2004	-2.31741	4.11E-07	Stk36	-7.30398	1.27E-12
Gm2022	-5.66133	3.62E-07	Ston1	-2.02129	1.43E-06
Gm21162	7.043909	0.005721	Stx11	-2.54659	1.49E-08
Gm21814	-2.22761	0.011975	Stx1a	-2.96703	9.42E-10
Gm21818	2.749155	0.031053	Stxbp1	-2.78684	5.59E-12
Gm21992	8.584169	1.75E-34	Stxbp6	-6.26754	1.17E-23
Gm2260	-5.08653	2.79E-22	Sulf2	-23.9385	6.39E-60
Gm2274	-5.17171	1.61E-22	Sult1b1	9.733758	2.07E-07
Gm26637	3.150746	0.000295	Sult1c2	6.95419	7.94E-33
Gm2808	-2.78303	2.6E-10	Susd1	-4.98469	5.49E-13
Gm28802	-2.97601	0.000765	Svip	-15.6382	4.82E-50
Gm29975	-2.20269	2.33E-06	Syne1	-2.21494	5.24E-08
Gm3055	-2.83675	3.73E-05	Syngap1	-9.34208	2.85E-22
Gm3147	2.523492	0.034845	Syngr3	-2.43686	3.79E-05
Gm3173	-7.87896	2.85E-05	Synj1	-2.29106	1.93E-08
Gm32234	-3.17305	3.75E-05	Synpo	-19.5079	4.46E-45

Gm32584	-4.14461	1.74E-16	Syt14	2.692885	0.027679
Gm3336	-2.17224	0.025943	Syt8	2.50616	3.84E-09
Gm35486	2.261613	0.000518	Tacc1	-2.7203	6.01E-12
Gm36028	-2.85858	0.006607	Tap2	-14.1589	1.2E-51
Gm36712	-2.42625	9.35E-06	Tapbp	-2.93312	4.74E-13
Gm36718	6.130357	0.000672	Tapbpl	-2.52491	5.53E-09
Gm38529	-3.3952	0.000305	Tas1r3	-3.10707	0.000821
Gm4027	-2.59771	0.026994	Tbc1d14	-2.33036	1.95E-08
Gm40365	-4.59119	0.044306	Tbc1d24	-3.08107	6.82E-14
Gm40556	-4.79982	1.12E-06	Tbc1d30	-4.76183	2.02E-12
Gm40595	-2.95315	2.29E-05	Tbc1d8	-8.38016	2.39E-12
Gm4070	-5.04013	4.63E-24	Tbxas1	-4.728	0.000383
Gm40814	-3.94622	0.006445	Tcam1	2.113909	2.51E-06
Gm41607	-4.0148	2.33E-09	Tcea2	2.034432	4.68E-05
Gm41844	-3.45936	0.001255	Tcf7	-12.3257	1.23E-09
Gm42102	-2.04647	0.023393	Tcn2	-2.7643	6.92E-10
Gm42267	-2.13176	0.014866	Tcp1111	-2.5767	1.19E-10
Gm42355	-3.37623	0.000864	Tctn1	-2.58386	2.1E-08
Gm42368	-3.86235	1.07E-12	Tctn2	-3.12799	6.07E-10
Gm4340	3.132989	0.00041	Tdrp	-13.9713	1E-37
Gm43707	-2.45246	4.5E-07	Tead2	-2.24069	5.5E-08
Gm44504	2.99085	4.49E-09	Teddm3	-47.6578	5.08E-97
Gm45871	2.056464	1.43E-06	Tenm3	-11.664	1.3E-45
Gm45915	-10.7768	1.74E-05	Tent5c	-3.14825	0.000211
Gm45978	-5.00356	0.02678	Tent5d	3.368597	1.6E-07
Gm46058	-6.24069	0.005721	Tet2	-2.33069	1.56E-08
Gm46345	-6.52298	1.81E-08	Tfcp2l1	-2.41034	2.02E-08
Gm46390	2.938267	0.003395	Tff1	2.919988	3.31E-13
Gm46841	-2.56628	6.05E-05	Tff2	4.460032	8.66E-15
Gm46911	-2.04997	1.05E-05	Tff3	31.83321	1.74E-42
Gm46935	-3.63271	0.016186	Tfpi	3.536902	2.69E-14
Gm4787	-3.45936	0.001255	Tfr2	-2.38954	3.42E-08
Gm4841	-2.84887	0.000468	Tgfb1	-2.08636	1.95E-06

Gm4858	8.07065	3.93E-06	Tgfb1i1	-7.00167	2.83E-09
Gm5148	-2.38613	0.000807	Tgfb2	-3.67221	1.18E-13
Gm527	2.345842	1.43E-05	Tgfb3	-2.63397	2.35E-10
Gm5799	6.170432	4.81E-10	Tgm1	-8.45725	3.6E-22
Gm6551	-54.5678	4.98E-69	Tgm2	2.184455	1.11E-07
Gm6557	-50.2234	6.11E-54	Tha1	-19.4256	3.04E-20
Gm6803	5.527252	0.006393	Thbs1	-40.6469	3.1E-97
Gm7102	-3.42068	0.025043	Themis	-2.85235	0.001415
Gm7429	2.117151	0.044449	Thra	-3.21507	4.16E-13
Gm7978	10.22584	0.00788	Thsd1	-9.00048	3.44E-19
Gm8126	12.58643	1.15E-28	Thumpd2	2.204459	3.8E-07
Gm8300	-8.72259	1.01E-07	Tigit	-2.50901	1.44E-08
Gnat2	2.175578	6.89E-07	Timp3	-49.2485	3.9E-110
Gnb4	-19.53	1.47E-38	Tlcd2	-3.60399	1.25E-08
Gng10	-5.25143	2.24E-26	Tle2	-2.73654	2.26E-06
Gnpda1	2.060625	9.39E-07	Tle3	-2.49427	9.51E-10
Gnpda2	-2.96607	6.66E-13	Tll1	-2.18414	8.05E-08
Gnrh1	-4.85771	6.74E-08	Tln2	-2.21622	6.15E-08
Golgb1	-2.46626	4.75E-10	Tlr1	3.637625	5.86E-12
Gp1bb	-11.0484	0.002504	Tmco6	2.052962	1.49E-06
Gpat3	-2.07317	3.13E-06	Tmed8	-77.446	1.09E-73
Gpc4	6.389378	4.38E-19	Tmeff2	-4.26517	3.3E-16
Gpd1	-7.90404	9.8E-27	Tmem102	-26.7051	5.8E-37
Gpr137b	-2.20373	8.35E-08	Tmem104	-3.65293	5.09E-14
Gpr141	7.577666	2.95E-23	Tmem106a	-2.12112	9.44E-05
Gpr146	-3.39914	4.46E-06	Tmem116	-3.72913	0.004181
Gpr155	2.154414	8.72E-07	Tmem136	-2.11421	3.42E-06
Gpr161	-5.11853	4.59E-20	Tmem144	-2.92582	1.43E-12
Gpr17	-9.45997	5.48E-11	Tmem14a	2.364055	2.98E-06
Gpr21	-2.7214	0.001802	Tmem156	17.24741	1.62E-07
Gprc5a	-2.57111	1.4E-10	Tmem159	-5.6692	1.13E-13
Gprc5b	-2.34076	0.000714	Tmem169	5.767875	1.6E-08
Gpx8	-2.45371	1.18E-09	Tmem171	-2.18675	6.2E-07

Gramd1c	-6.78869	3.93E-13	Tmem173	-2.69636	7.46E-09
Grasp	-2.3429	1.94E-08	Tmem176a	-9.79052	1.98E-38
Grb10	-5.66948	3.25E-14	Tmem176b	-7.13681	3.11E-35
Greb1	-42.4331	5.07E-30	Tmem181a	-11.3607	2.57E-48
Greb11	-2.16646	3.45E-05	Tmem184b	-2.23252	9.75E-08
Grhl2	3.584469	4.55E-06	Tmem198	2.851989	0.000378
Gsdmc4	3.944578	0.002813	Tmem202	-4.26878	0.00423
Gse1	-3.36673	3.58E-15	Tmem212	2.749155	0.031053
Gstm2	-3.94905	1.77E-16	Tmem218	-4.15085	1.41E-15
Gstm4	-7.75147	8.41E-15	Tmem220	-7.12973	6.35E-08
Gstp3	-2.94523	0.000354	Tmem223	-2.18126	1.74E-07
Gstt1	-21.2091	7.02E-42	Tmem231	-3.39381	6.8E-14
Gstt3	-3.67258	1.36E-15	Tmem243	2.054983	1.84E-06
Gtsf1	-2.27888	0.000407	Tmem25	-2.24356	0.002699
Guca1a	-3.07732	8.91E-06	Tmem254a	-3.4266	3.04E-13
Guca1b	6.764511	5.63E-07	Tmem254b	-3.42135	3.02E-13
Guca2b	3.613817	0.000427	Tmem254c	-3.42743	2.77E-13
Gulp1	-23.3931	1.61E-66	Tmem260	-2.04417	3.34E-06
Gvin1	-5.17711	7.41E-25	Tmem262	5.298803	0.002682
Gxylt2	-3.96771	9.43E-21	Tmem266	-2.92477	1.37E-06
Gzme	-8.02038	1.89E-32	Tmem35b	-2.39209	0.00343
H1f10	-5.53057	5.38E-11	Tmem44	-2.00354	0.00699
H2ac1	9.215035	0.024635	Tmem45b	-5.04478	3.79E-05
H2-DMa	-2.48979	2.29E-06	Tmem56	-18.2618	8.66E-34
H2-DMb1	-3.57302	1.18E-08	Tmem67	-2.05249	6.51E-06
H2-M3	-3.33973	3.58E-11	Tmem79	-2.34895	2.38E-08
H2-Q4	-16.0836	4.79E-28	Tmem86a	-6.62792	1.88E-31
H2-T24	3.642849	5.92E-05	Tmie	-2.05733	0.00044
Habp2	11.18477	1.18E-26	Tmigd1	-3.44056	2.49E-16
Hao1	-2.60947	0.000897	Tmod4	-3.1174	0.002422
Hapln3	-2.26192	0.007224	Tmppe	-2.24205	2E-07
Hapln4	-2.24495	1.64E-06	Tmprss11f	-2.33469	4.87E-05
Havcr2	-24.7822	7E-70	Tmsb4x	-2.39487	1.28E-09

Hcfc1r1	2.261414	1.06E-07	Tnfaip3	-3.24386	2.76E-15
Hdac7	-2.47456	6.77E-10	Tnfrsf10b	-2.0527	1.16E-06
Hdac9	-3.38931	6.05E-08	Tnfrsf11a	-7.00369	3.93E-33
Heca	-2.7921	1.61E-10	Tnfrsf9	2.278316	1.32E-05
Heg1	-45.1894	1.33E-31	Tnni1	-10.161	4.21E-14
Henmt1	3.254503	9.85E-07	Tnni2	2.578873	1.23E-06
Heph11	-3.17214	0.003609	Tnr	-4.51076	5.57E-09
Herc3	-2.10362	1.89E-06	Tnrc18	-2.03042	1.1E-06
Hey1	4.04284	1.34E-17	Tns2	-2.17146	9.51E-07
Hgfac	-3.28979	1.37E-11	Tns4	-3.6705	0.001279
Hhex	17.25282	4.48E-33	Tor3a	-2.04964	3.58E-06
Hipk2	-3.59345	4.5E-18	Tpbg	-3.13312	1.28E-13
Hmgn5	-2.22902	2.23E-06	Tpcn1	-2.02083	2.39E-06
Hnf4g	-9.6344	6.25E-22	Tppp3	-3.84795	7.96E-11
Hoxa4	2.234358	0.000804	Traf1	-4.64074	7.25E-20
Hoxb3	-4.89529	9.91E-16	Traf3ip2	-2.95077	1.53E-12
Hoxb4	-29.7461	1.21E-13	Traf5	-5.96497	0.000488
Hoxb6	-8.41396	2.32E-27	Trak1	-2.00085	2.45E-06
Hpdl	2.00014	4E-06	Tram2	2.18573	0.002157
Hpse	-2.55219	2E-10	Trappc9	-2.10223	3.81E-07
Hrh1	-5.49862	2.41E-20	Trerf1	-2.00059	0.000642
Hsd17b11	-4.69576	1.19E-23	Trex1	-3.40357	2.96E-09
Hsd17b14	3.091413	3.75E-05	Trf	-3.46029	8.78E-12
Hspa13	-2.04547	6.67E-07	Trim15	-27.0819	2.07E-46
Hspa1a	-9.17863	2.66E-22	Trim16	-2.35565	4.08E-09
Hspa1b	-8.28256	1.52E-32	Trim17	-4.92414	2.91E-21
Hspg2	-2.26047	1.64E-08	Trim21	-4.59034	8.22E-11
Htral	-7.50168	5.43E-32	Trim26	-2.29597	1.18E-08
Icam4	2.086793	6.74E-06	Trim40	-10.519	8.22E-19
Ick	-2.11985	6.55E-07	Trim56	-2.45036	1.03E-09
Id2	2.377283	1.86E-09	Trim65	2.275903	3.94E-08
Ifi203	-14.1459	6.67E-15	Trim68	2.451785	1.14E-06
Ifi205	-2.04741	2.05E-05	Triobp	-2.62308	4.81E-11

Ifi27	-4.04755	1.16E-18	Triqk	-2.28738	0.038302
Ifi27l2b	-3.14324	1.34E-12	Trmt112	2.222695	4E-08
Ifih1	-10.1566	1.46E-40	Trnp1	-4.71876	5.85E-08
Ifitm2	-2.11415	3.29E-07	Trp53inp1	-2.74448	2.79E-05
Ifitm3	-19.6964	2.34E-34	Trp53inp2	-3.74589	4.02E-11
Ifngr2	-2.50545	4E-10	Trp63	-9.99342	1.55E-07
Ift88	-2.28094	7.41E-08	Trpm4	-2.48306	2.08E-08
Igf2r	-7.52419	2.16E-38	Trpv2	-4.90485	0.002813
Igfbp4	-110.355	9.3E-123	Trpv3	2.976258	0.002293
Igsf23	3.820222	0.006647	Trrap	-2.12187	1.61E-07
Igsf3	-8.53588	1.76E-39	Tsacc	3.877204	2.63E-10
Igsf9	-2.53236	1.74E-09	Tshz2	-27.9431	8.54E-55
Igtp	-2.97601	0.000765	Tspan12	-14.5413	1.38E-32
Iigp1	-2.79984	1.3E-07	Tspan13	-8.82228	4.83E-40
Ikzf2	-2.17111	2.37E-06	Tspan2	-6.66141	8.9E-22
Il10rb	-2.22902	5.67E-08	Tspan33	-3.01009	0.000401
Il11	-2.51348	0.023845	Tspan7	-5.78225	1.91E-28
Il11ra1	-8.63064	6.72E-27	Tspyl4	-3.17937	2.63E-07
Il12rb2	2.474237	0.001596	Tssk4	9.54933	2.85E-05
Il13ra1	-6.90169	1.06E-33	Tssk6	-2.10745	0.004823
Il15ra	-39.5984	9.91E-33	Ttc38	-2.82232	4.11E-10
Il18	-4.28797	1.2E-09	Ttc39c	-28.7584	6.96E-44
Il1a	-5.41594	0.016084	Ttc6	2.667211	5.65E-05
Il1r1	-4.55608	2.15E-23	Ttl	-2.46175	1.37E-09
Il1rap	-102.374	1.55E-59	Ttll1	-2.94208	8.44E-12
Il1rn	-2.28604	1.1E-08	Ttyh3	-2.35428	6.39E-07
Il27ra	-6.33477	8.92E-18	Tube1	-2.48661	3.06E-08
Il34	-6.24342	5.33E-11	Txk	11.55545	7.2E-15
Il5ra	-5.21034	1.91E-28	Txndc16	3.425656	1.7E-06
Il6ra	-6.66446	7.21E-21	Txnip	-2.69997	8.21E-12
Il7	-42.1919	9.89E-66	Tymp	-5.31447	2.75E-09
Impg2	9.733758	2.07E-07	Ubald1	-2.09208	1.18E-05
Inafm1	-17.8331	9.98E-27	Ube2l6	-2.1383	0.002775

Inhba	-2.98893	1.4E-13	Ubqln2	-2.48872	8.01E-10
Insyn1	-20.4586	2.29E-28	Ucn2	3.276155	0.002758
Ints6l	-10.7582	5.92E-32	Ugcg	-2.40737	1.45E-09
Intu	-2.56761	6.26E-09	Ugt1a1	-7.31885	7.68E-05
Iqck	-6.0642	1.27E-09	Ugt1a6b	-2.10576	6.54E-05
Iqsec2	-9.59323	2.92E-19	Ugt2b36	8.625019	1.47E-06
Irf2	-2.03519	7.37E-06	Ulbp1	5.116579	1.17E-07
Irf5	-44.6624	8.32E-12	Ul3	-2.61703	2.71E-08
Irgq	-2.07378	1.35E-06	Unc13b	-2.22151	4.35E-08
Isg15	-4.4978	1.2E-05	Unc13d	-3.2772	2.97E-14
Isl2	-3.33924	4.03E-08	Unc5c	-95.6565	5.34E-85
Itga2	-2.32207	5.5E-09	Unc93b1	-3.99511	8.97E-12
Itga5	-2.80077	8.08E-11	Upk1a	-2.95983	0.017312
Itga7	-2.60769	1.55E-07	Upk1b	-3.5412	1.95E-17
Itgae	2.534707	0.005264	Upk3b	-8.22147	3.84E-13
Itgb3	-46.8856	1.97E-32	Upp2	-2.44408	0.000677
Itgb4	-7.41655	5.78E-36	Usf3	-2.4115	2.14E-09
Itgb6	-3.19707	6.6E-15	Uso1	-2.41722	1.22E-09
Itrp2	-11.2817	4.32E-41	Usp43	-3.71654	1.18E-15
Ivl	8.136669	5.57E-24	Usp54	-2.20959	4.46E-07
Jam2	-3.05942	2.28E-14	Utrn	-2.09929	2.73E-07
Jaml	-5.7329	7.72E-12	Vamp1	2.288514	0.000145
Kalrn	-2.4673	2.33E-06	Vasn	-6.42072	3.99E-30
Kank1	-16.2919	3.2E-55	Vav3	-4.55223	8.43E-22
Katnal1	-2.55823	2.3E-10	Vcam1	-22.0221	4.24E-69
Kazald1	2.284122	1.09E-06	Vcpkmt	2.447491	3.6E-09
Kbtbd6	-7.53605	6.18E-19	Vegfb	2.436991	1.01E-08
Kcnab1	2.868662	7.46E-08	Vgf	4.439058	4.67E-12
Kcnb1	-2.66687	0.002593	Vgll3	-3.83268	9.25E-19
Kcnc3	-39.5253	1.44E-23	Vip	-15.6705	3.7E-33
Kcnd1	-2.30379	0.001151	Vmac	-2.25299	2.21E-05
Kcnh2	-2.81023	0.015604	Vmn1r40	5.651091	4.12E-06
Kcnh6	24.37714	2.75E-06	Vmn2r1	2.120679	0.016189

Kcnk5	-2.361	9.49E-09	Vmn2r2	-3.20866	0.038474
Kcnu1	-2.23656	4.69E-08	Vmn2r79	-10.2054	9.94E-08
Kctd1	-2.10616	0.000277	Vnn1	4.535377	2.87E-24
Kdelr3	-3.67109	7.82E-17	Vsig10l	3.397219	0.004181
Kdm5b	-2.35709	3.95E-09	Vti1a	2.072524	5.69E-07
Kdm6b	-5.65276	2.86E-23	Vwa1	-3.22686	5.47E-07
Kdm7a	-2.72346	8.05E-09	Vwa5a	-4.7533	2.54E-24
Kif12	4.515912	0.000231	Wdpcp	-2.00161	0.000222
Kif21b	-15.609	3.4E-40	Wdr1	-2.24904	1.65E-08
Kif5c	-12.5793	2.57E-39	Wdr19	-2.8645	2.07E-12
Kif9	-4.02202	2.56E-08	Wdr31	-4.49072	5.16E-13
Kifc3	-2.81521	1.12E-12	Wfdc2	-1202.95	8.6E-188
Klc3	-5.96956	9.3E-20	Wfs1	-6.2208	1.5E-30
Klf2	-18.5695	1.63E-19	Whrn	-3.21144	2.2E-06
Klf3	-2.08295	3.88E-07	Wnk1	-2.00786	1.15E-06
Klf4	-2.78288	3.89E-11	Wnk4	-2.13938	8.19E-07
Klhdc8b	-3.20241	0.000157	Wnt7a	-34.6938	4E-76
Klhl30	-8.46616	1.94E-36	Wnt7b	-42.643	1.41E-61
Klhl36	-4.43937	3.49E-12	Wwox	2.628604	5.6E-11
Klhl5	-3.03596	3.14E-14	Xaf1	-2.11952	0.001256
Kmt2a	-2.08307	4.04E-07	Xirp2	-12.9728	2.18E-37
Kmt2d	-3.90624	5.55E-20	Xkr4	-2.06747	0.001885
Kmt2e	-2.35447	4.81E-09	Xkr5	-3.33318	3.21E-13
Krt13	-2.45684	8.34E-10	Xlr	11.79856	5.63E-28
Krt14	-16.8938	3E-60	Ydjc	-2.01535	4.88E-06
Krt15	-9.10382	2.95E-24	Yjefn3	2.665161	0.000295
Krt36	4.841851	3.11E-22	Ypel2	2.360348	0.018754
Krt6a	-64.0626	1.1E-77	Zbed6	-2.2383	2.95E-08
Krt7	-104.973	1.4E-126	Zbtb20	-3.60976	1.9E-17
Krt78	-2.06651	4.52E-05	Zbtb32	3.342823	1.92E-09
Krt79	-3.50176	6.43E-10	Zbtb38	-2.00042	1.39E-06
Krt8	-2.0754	3.39E-07	Zbtb4	-2.82197	1.41E-11
Krt80	-3.07583	2.06E-14	Zbtb46	2.012211	4.16E-05

Krtap1-5	-11.628	5.28E-15	Zc2hc1c	-2.46469	6E-07
Krtcap3	-9.45997	5.48E-11	Zdhhc14	-13.1065	8.24E-30
Lactb2	2.063177	6.24E-07	Zdhhc15	-2.14054	2.01E-05
Lama5	-2.08092	3.31E-07	Zdhhc8	-2.19109	1.06E-07
Lamb1	-231.212	1.9E-140	Zdhhc9	-2.5926	3.12E-09
Lamb3	-3.21288	1.87E-15	Zfand5	2.013653	1.17E-06
Lancl3	-2.00361	4.42E-06	Zfhx2	-3.08214	4.44E-07
Lcat	-2.29901	0.000574	Zfhx3	-5.33064	1.87E-27
Lck	-4.78203	3.66E-10	Zfhx4	-2.07479	8.74E-07
Lcp1	3.178985	0.002661	Zfp11	-5.15734	2.6E-19
Lct	-3.44374	0.009038	Zfp169	-2.82867	3.69E-08
Ldhal6b	-6.24069	0.005721	Zfp174	-4.51484	3.64E-11
Ldhd	-2.61768	1.84E-09	Zfp300	-4.43332	7.14E-11
Ldlrad4	-53.6028	1.35E-60	Zfp345	-2.72869	0.002593
Letm2	-2.22257	0.014497	Zfp352	3.777931	0.000596
Lfng	-3.97054	7.52E-17	Zfp369	-2.0878	8.35E-07
Lgals9	-2.4767	7.5E-10	Zfp3611	-2.66953	2.17E-09
Lgalsl	2.171688	8.04E-08	Zfp37	-22.6428	1.27E-51
Lgr6	-13.7654	1.05E-43	Zfp385a	-3.16149	0.0003
Lhfp	-2.06908	8.42E-07	Zfp458	-2.79255	5.1E-08
Lhfpl2	-3.29467	7.88E-15	Zfp459	-131.433	2.23E-29
Lhpp	-9.37742	3.64E-20	Zfp462	-3.45796	3.12E-16
Lifr	-3.07097	3.93E-14	Zfp580	2.453639	0.002779
Limd2	-2.48812	3.64E-09	Zfp61	-3.15338	2.2E-08
Liph	-2.10932	2.4E-06	Zfp629	-4.20264	1.7E-19
Lman11	2.279282	0.02513	Zfp703	-3.73379	1.2E-14
Lman21	-3.07754	2.26E-12	Zfp704	-6.55821	7.58E-32
LOC102631805	2.612519	3.86E-06	Zfp760	-5.65108	1.15E-19
LOC105244034	-4.1168	0.004296	Zfp763	-2.0422	1.06E-05
LOC105244150	3.633096	2.8E-09	Zfp775	-2.5908	1.4E-09
LOC105245453	-6.15495	6.24E-06	Zfp781	-3.36537	3.57E-06
LOC105245737	7.043909	0.005721	Zfp799	-4.75575	1.01E-17
LOC108167694	2.355797	0.016699	Zfp808	-3.63655	1.88E-14

LOC108168936	-6.48566	1.17E-21	Zfp810	-7.01235	7.22E-25
LOC114841036	2.940318	4.12E-08	Zfp820	-2.79999	1.07E-10
LOC115485636	50.65813	1.19E-12	Zfp827	-2.2588	1.08E-07
LOC115486418	-4.60802	8.78E-18	Zfp839	-4.42936	1.65E-15
LOC115487084	3.552226	0.004296	Zfp873	-2.30605	1.37E-06
LOC115487110	-2.91146	9.28E-06	Zfp9	-2.17412	6.89E-07
LOC115487746	-6.81307	8.22E-05	Zfp937	-33.3003	3.09E-43
LOC115488029	-3.03113	0.003395	Zfp941	-2.37824	2.59E-08
LOC115488343	-3.24104	0.000117	Zfp945	-2.63349	8.56E-08
LOC115488470	-2.50382	0.000248	Zfp947	-48.8209	3.66E-41
LOC115488503	-8.77834	1.92E-24	Zfp951	-2.61764	2.17E-09
LOC115488529	3.09927	0.002546	Zfp970	-7.63802	2.2E-30
LOC115488671	-2.06475	6.52E-05	Zfp978	-7.13983	0.024635
LOC115488789	-2.91418	0.001041	Zfp982	2.033804	0.003154
LOC115489125	-3.67812	0.041975	Zfp983	-2.02837	0.000234
LOC115489151	-3.60505	0.014306	Zfp985	9.914973	1.73E-05
LOC115489972	-2.87296	0.039703	Zfp991	-3.8323	7.44E-12
LOC115490127	2.658633	0.005121	Zfp995	-2.79913	3.25E-11
LOC115490152	-6.24069	0.005721	Zfpm2	-2.22753	2.24E-07
LOC115490363	4.138793	4.42E-07	Zglp1	3.262755	4.82E-06
Lonrf1	-2.05308	3.4E-06	Zkscan5	-2.16975	1.52E-07
Loxl4	-2.32447	5.67E-09	Zkscan7	-2.8955	3.35E-06
Lpin1	-2.94377	7.77E-08	Zmat1	-3.03659	1.17E-06
Lpin3	-7.86083	4.45E-13	Zmiz1	-2.47718	2.16E-09
Lpp	-3.6778	7.81E-19	Zscan4d	-5.54092	0.000759
Lpxn	-2.31723	0.010118			