

Table S3: The panel of mAbs and fluorescent-tagged dyes used for the detection of immune cell populations

Antigen	Clone	Fluorophore	Catalog	Company
CD3	UCHT1	PerCP-Cy5.5	560835	BD
CD4	L120	BUV805	748596	BD
CD8	SK1	BV650	565289	BD
CD45RA	5H9	BUV395	740315	BD
CD45RO	UCHL1	BV711	563722	BD
CD56	B159	AF700	557919	BD
TCR $\gamma\delta$	B1	PE-CF594	562511	BD
V δ 1	TS8.2	FITC	ab171097	abcam
V δ 2	B6	BUV563	748582	BD
IFN- γ	B27	BV605	562974	BD
TNF	Mab11	APC-Cy7	502944	Biolegend
IL-13	JES10-5A2	BV421	563580	BD
IL-4	MP4-25D2	BV786	564113	BD
IL-17	N49-643	BV510	563295	BD
IL-22	2G12A41	PE-Cy7	366708	Biolegend
TGF- β	TW4-9E7	PE	562339	BD
IL-10	JES3-19F1	APC	554707	BD
Live/ Dead	-	Zombie- UV	423107	Biolegend

Table S4: Full list of DEGs (adjusted P<0.05) in lesional (n=13) vs. non-lesional PN (n=13)

GeneID	GeneName	logFC (PN_Lesional / PN_Nonlesional)	padj
ENSG00000175899	A2M	-1.271769795	3E-09
ENSG00000166535	A2ML1	2.549997048	9E-21
ENSG00000128274	A4GALT	-1.780791346	3E-15
ENSG00000197953	AADA2L2	2.292296206	2E-11
ENSG00000188984	AADA2L3	-2.005649192	0.039
ENSG00000087884	AAMDC	-1.213233074	6E-29
ENSG00000205002	AARD	-1.839783303	3E-08
ENSG00000183044	ABAT	-1.304338357	9E-06
ENSG00000154263	ABCA10	-1.597229866	3E-09
ENSG00000144452	ABCA12	2.291110785	7E-26
ENSG00000107331	ABCA2	-1.469736861	5E-07
ENSG00000167972	ABCA3	-1.81483011	1E-11
ENSG00000154262	ABCA6	-1.985860705	3E-12
ENSG00000141338	ABCA8	-2.716644796	7E-15
ENSG00000154258	ABCA9	-2.798650824	2E-14
ENSG00000073734	ABCB11	-1.718382192	0.0083
ENSG00000004846	ABCB5	-2.416408116	0.0007
ENSG00000091262	ABCC6	-3.763752744	3E-15
ENSG00000069431	ABCC9	-1.60213135	4E-07
ENSG00000173208	ABCD2	-3.754531039	8E-16
ENSG00000160179	ABCG1	1.03088825	0.0002
ENSG00000172350	ABCG4	5.465386999	8E-28
ENSG00000143994	ABHD1	-2.373464686	0.0007
ENSG00000136379	ABHD17C	1.093538288	2E-10
ENSG00000154175	ABI3BP	-2.200513132	2E-08
ENSG00000173210	ABLIM3	-1.666870688	3E-09
ENSG00000175164	ABO	-1.434951459	3E-08
ENSG00000258881	AC007040.2	-3.236258926	0.0004
ENSG00000277196	AC007325.2	-1.501126307	2E-05
ENSG00000277639	AC007906.2	-1.92375876	5E-10
ENSG00000268744	AC008758.4	-2.023640543	0.0097
ENSG00000260300	AC009119.2	-1.757494308	0.0214
ENSG00000260729	AC009690.1	-2.606395699	0.0015
ENSG00000258311	AC009779.3	-1.461848476	0.0493
ENSG00000269741	AC011473.4	5.290475884	8E-13
ENSG00000267385	AC011498.4	-1.898006109	0.006
ENSG00000258461	AC012651.1	-1.192939551	0.0056
ENSG00000279765	AC013394.1	-1.166810937	0.0034
ENSG00000262304	AC027796.3	-1.403758263	0.0474
ENSG00000241962	AC079447.1	-1.554973524	0.0295
ENSG00000267127	AC090360.1	-2.946632316	3E-06
ENSG00000272305	AC096887.1	-1.372523487	0.0335
ENSG00000260007	AC107871.1	-1.075204022	0.0337
ENSG00000273238	AC116565.1	-1.038871705	0.0161
ENSG00000271254	AC240274.1	-1.155089406	0.0003
ENSG00000076555	ACACB	-2.941483755	4E-22
ENSG00000115361	ACADL	-2.430000922	8E-11

ENSG00000122971	ACADS	-1.017344348	3E-11
ENSG00000196177	ACADSB	-1.240293644	1E-13
ENSG00000181513	ACBD4	-1.19075189	4E-12
ENSG00000110455	ACCS	-1.035785085	2E-05
ENSG00000159640	ACE	-1.372130226	0.0002
ENSG00000167769	ACER1	2.522035157	1E-10
ENSG00000087085	ACHE	-1.991494699	0.0008
ENSG00000213088	ACKR1	-1.67586396	9E-10
ENSG00000144476	ACKR3	-1.138039335	3E-06
ENSG00000122729	ACO1	-1.534490463	1E-09
ENSG00000184227	ACOT1	-1.564879729	8E-06
ENSG00000119673	ACOT2	-1.451869914	2E-07
ENSG00000097021	ACOT7	1.437497028	2E-06
ENSG00000168306	ACOX2	-1.831080366	8E-08
ENSG00000087008	ACOX3	1.107205836	1E-08
ENSG00000102575	ACP5	1.227111702	5E-07
ENSG00000183760	ACP7	3.27714314	6E-22
ENSG00000014257	ACPP	2.106117464	3E-13
ENSG00000100312	ACR	-1.720102449	0.0076
ENSG00000111644	ACRBP	-1.573180043	0.0081
ENSG00000134940	ACRV1	3.667153921	1E-06
ENSG00000130377	ACSBG2	-2.494012541	0.0381
ENSG00000167107	ACSF2	-1.075579606	2E-06
ENSG00000197142	ACSL5	-1.028450408	0.0002
ENSG00000166743	ACSM1	-1.680821775	4E-06
ENSG00000066813	ACSM2B	-3.175483649	0.0061
ENSG00000005187	ACSM3	-1.141545825	0.0229
ENSG00000183549	ACSM5	-3.471268172	4E-15
ENSG00000111058	ACSS3	-2.964670321	8E-22
ENSG00000107796	ACTA2	-2.11878485	2E-19
ENSG00000163017	ACTG2	-1.907179027	2E-07
ENSG00000182584	ACTL10	1.076086304	0.0046
ENSG00000115091	ACTR3	1.237645049	1E-07
ENSG00000133627	ACTR3B	-1.001303614	3E-08
ENSG00000106526	ACTR3C	1.17598181	3E-05
ENSG00000184378	ACTRT3	1.56523767	0.0001
ENSG00000123612	ACVR1C	-2.435958626	1E-08
ENSG00000114739	ACVR2B	-1.067536244	2E-05
ENSG00000139567	ACVRL1	-1.290767404	7E-07
ENSG00000132744	ACY3	3.244488829	0.0104
ENSG00000093072	ADA2	-1.337075291	4E-06
ENSG00000008277	ADAM22	-2.671783727	2E-11
ENSG00000114948	ADAM23	3.35138705	2E-19
ENSG00000042980	ADAM28	-1.066856565	0.0094
ENSG00000149451	ADAM33	-1.648356098	1E-07
ENSG00000142303	ADAMTS10	-1.476255474	2E-07
ENSG00000138316	ADAMTS14	1.210510713	0.0033
ENSG00000145536	ADAMTS16	-3.033560617	0.0001

ENSG00000140873	ADAMTS18	-1.699781252	0.0037
ENSG00000145808	ADAMTS19	-2.009521887	0.038
ENSG00000154736	ADAMTS5	-2.083149416	1E-09
ENSG00000178031	ADAMTSL1	-1.370958693	2E-05
ENSG00000156218	ADAMTSL3	-2.254833942	4E-14
ENSG00000184060	ADAP2	2.513229448	2E-29
ENSG00000185736	ADARB2	-2.608463089	7E-07
ENSG00000078295	ADCY2	-1.61061667	2E-06
ENSG00000129467	ADCY4	-1.001799092	3E-05
ENSG00000173175	ADCY5	-3.020227677	9E-28
ENSG00000174233	ADCY6	-1.529482997	8E-12
ENSG00000121281	ADCY7	1.024120795	4E-08
ENSG00000155897	ADCY8	-3.955621857	8E-10
ENSG00000078549	ADCYAP1R1	-1.380410066	0.0042
ENSG00000075340	ADD2	-1.570730645	0.0002
ENSG00000148700	ADD3	-1.486574624	2E-11
ENSG00000020181	ADGRA2	-1.624607122	5E-06
ENSG00000111452	ADGRD1	-3.328755019	9E-13
ENSG00000123146	ADGRE5	-1.044149209	0.0003
ENSG00000153292	ADGRF1	3.213204049	6E-07
ENSG00000164393	ADGRF2	1.164649911	0.0016
ENSG00000153294	ADGRF4	1.818879352	7E-10
ENSG00000173698	ADGRG2	-2.459939674	1E-06
ENSG00000164199	ADGRV1	-1.597037597	7E-08
ENSG00000187758	ADH1A	-3.358025568	0.002
ENSG00000196616	ADH1B	-4.94279557	5E-15
ENSG00000248144	ADH1C	-4.444824103	3E-09
ENSG00000196344	ADH7	2.935383328	6E-09
ENSG00000147576	ADHFE1	-1.281203148	1E-07
ENSG00000181092	ADIPOQ	-4.793226796	2E-11
ENSG00000148671	ADIRF	-1.648646776	3E-09
ENSG00000128165	ADM2	2.49342584	2E-13
ENSG00000163485	ADORA1	-3.077077502	2E-18
ENSG00000120907	ADRA1A	-2.854859523	1E-07
ENSG00000170214	ADRA1B	-2.623041459	3E-06
ENSG00000150594	ADRA2A	-2.41857952	9E-20
ENSG00000274286	ADRA2B	-1.630367082	0.0143
ENSG00000184160	ADRA2C	-1.256242955	9E-05
ENSG00000043591	ADRB1	-2.628854659	2E-14
ENSG00000106624	AEBP1	-1.038696335	0.0003
ENSG00000181026	AEN	1.349100288	4E-09
ENSG00000196526	AFAP1	-1.1235926	5E-11
ENSG00000169129	AFAP1L2	1.229373743	1E-14
ENSG00000155966	AFF2	-1.9499438	7E-09
ENSG00000144218	AFF3	-2.227499668	3E-11
ENSG00000187546	AGMO	-1.661899422	0.0036
ENSG00000155189	AGPAT5	1.222263411	1E-11
ENSG00000135744	AGT	-3.014008072	1E-07

ENSG00000144891	AGTR1	-3.809990402	6E-17
ENSG00000172482	AGXT	-2.490248386	0.0442
ENSG00000111732	AICDA	-2.906441772	0.0017
ENSG00000042286	AIFM2	-2.289661377	5E-16
ENSG00000183773	AIFM3	-2.277744033	0.0013
ENSG00000163568	AIM2	2.273691806	3E-07
ENSG00000196581	AJAP1	2.137791421	1E-08
ENSG00000131016	AKAP12	-2.341722368	2E-20
ENSG00000151320	AKAP6	-1.23526186	4E-07
ENSG00000198074	AKR1B10	5.561614033	4E-57
ENSG00000227471	AKR1B15	4.656076738	4E-24
ENSG00000196139	AKR1C3	-1.572337179	5E-07
ENSG00000117020	AKT3	-1.434188011	2E-07
ENSG00000282988	AL031777.3	1.652877817	0.0099
ENSG00000273259	AL049839.2	-2.948980548	0.035
ENSG00000274322	AL136531.2	1.711134416	0.0379
ENSG00000285130	AL358113.1	1.202171677	0.0114
ENSG00000236782	AL391650.1	2.163771198	0.0472
ENSG00000256029	AL590560.1	-1.346542196	0.0069
ENSG00000273748	AL592183.1	-1.095276204	0.0004
ENSG00000259916	AL845331.2	-6.244341532	6E-11
ENSG00000158578	ALAS2	-2.654881497	0.0075
ENSG00000170017	ALCAM	-1.500962118	1E-11
ENSG00000165092	ALDH1A1	-1.475022778	4E-12
ENSG00000128918	ALDH1A2	-2.025107666	3E-18
ENSG00000137124	ALDH1B1	-1.629425038	6E-10
ENSG00000144908	ALDH1L1	-3.576097836	9E-17
ENSG00000108602	ALDH3A1	1.46280496	7E-08
ENSG00000132746	ALDH3B2	1.575850236	3E-09
ENSG00000159423	ALDH4A1	1.255671215	1E-11
ENSG00000119711	ALDH6A1	-1.425770045	1E-08
ENSG00000118514	ALDH8A1	-1.335009073	0.0083
ENSG00000171094	ALK	-2.865350602	0.001
ENSG00000189292	ALKAL2	-3.056263555	1E-09
ENSG00000151360	ALLC	-3.060402336	0.0272
ENSG00000108839	ALOX12	2.429659292	2E-10
ENSG00000179477	ALOX12B	3.147776339	8E-19
ENSG00000179148	ALOXE3	2.428757464	5E-10
ENSG00000052850	ALX4	-2.2500514	6E-07
ENSG00000183684	ALYREF	1.154837439	3E-07
ENSG00000123505	AMD1	1.164353834	5E-11
ENSG00000139344	AMDHD1	1.061188242	0.0016
ENSG00000181754	AMIGO1	-1.441467778	1E-22
ENSG00000101935	AMMECR1	2.151901192	6E-31
ENSG00000126016	AMOT	-2.597401637	2E-18
ENSG00000114019	AMOTL2	-1.23401603	9E-10
ENSG00000133805	AMPD3	1.18577386	5E-07
ENSG00000078053	AMPH	-1.034694676	0.005

ENSG00000240038	AMY2B	-2.061806266	7E-09
ENSG00000214274	ANG	-1.145976248	1E-07
ENSG00000154188	ANGPT1	-2.232067012	2E-13
ENSG00000101280	ANGPT4	-3.586648664	3E-08
ENSG00000116194	ANGPTL1	-3.417995034	2E-08
ENSG00000136859	ANGPTL2	-1.240203934	4E-08
ENSG00000187151	ANGPTL5	-5.49919603	6E-10
ENSG00000171819	ANGPTL7	-2.492397541	0.0027
ENSG00000130173	ANGPTL8	-4.05353374	6E-12
ENSG00000145362	ANK2	-2.308108561	3E-13
ENSG00000166839	ANKDD1A	-1.653441374	1E-06
ENSG00000180071	ANKRD18A	-3.197322329	5E-13
ENSG00000260691	ANKRD20A1	-3.609599877	0.0011
ENSG00000172014	ANKRD20A4	-2.245441225	0.0009
ENSG00000152766	ANKRD22	1.485061788	2E-07
ENSG00000163126	ANKRD23	-1.02411248	0.0201
ENSG00000089847	ANKRD24	-1.873814926	4E-06
ENSG00000148513	ANKRD30A	-4.079361518	4E-05
ENSG00000145700	ANKRD31	4.188300651	6E-18
ENSG00000164236	ANKRD33B	-1.504806641	4E-05
ENSG00000135976	ANKRD36	-1.524253899	9E-05
ENSG00000196912	ANKRD36B	-1.456971939	5E-05
ENSG00000174501	ANKRD36C	-1.922753174	3E-07
ENSG00000144031	ANKRD53	-1.807346399	8E-05
ENSG00000135299	ANKRD6	-1.153582439	6E-06
ENSG00000185046	ANKS1B	-1.518984751	5E-05
ENSG00000011426	ANLN	1.476200596	1E-05
ENSG00000047617	ANO2	-1.459721459	9E-05
ENSG00000134343	ANO3	-3.207430082	3E-14
ENSG00000171714	ANO5	-2.897626628	1E-12
ENSG00000146205	ANO7	-1.201007487	0.0082
ENSG00000163297	ANTXR2	-1.319973222	3E-06
ENSG00000197043	ANXA6	-1.911585225	5E-20
ENSG00000265190	ANXA8	1.306767207	2E-06
ENSG00000143412	ANXA9	3.497368816	1E-09
ENSG00000002726	AOC1	-2.088209319	3E-16
ENSG00000131471	AOC3	-3.177863376	7E-28
ENSG00000138356	AOX1	-2.657768233	2E-14
ENSG00000254469	AP002495.2	-1.390552823	0.0001
ENSG00000106367	AP1S1	1.287922002	3E-11
ENSG00000152056	AP1S3	1.3613726	2E-07
ENSG00000042753	AP2S1	1.299392287	4E-08
ENSG00000107282	APBA1	-2.003120921	1E-10
ENSG00000166313	APBB1	-1.284258815	4E-10
ENSG00000077420	APBB1IP	-2.161844373	9E-17
ENSG00000128383	APOBEC3A	5.391413433	2E-08
ENSG00000179750	APOBEC3B	2.067452962	6E-05
ENSG00000130208	APOC1	-1.860559036	4E-05

ENSG00000189058	APOD	-3.696587147	7E-44
ENSG00000130203	APOE	-1.769905698	3E-11
ENSG00000128284	APOL3	-1.106359551	3E-06
ENSG00000198931	APRT	1.036465301	1E-06
ENSG00000240583	AQP1	-1.351366273	2E-06
ENSG00000165272	AQP3	2.331903068	1E-17
ENSG00000086159	AQP6	-2.054432552	0.0213
ENSG00000165269	AQP7	-4.231562777	4E-14
ENSG00000169083	AR	-2.254199092	1E-08
ENSG00000198576	ARC	1.868394943	0.0002
ENSG00000109321	AREG	1.788432017	2E-07
ENSG00000165527	ARF6	1.034767331	4E-12
ENSG00000112379	ARFGEF3	-2.429197369	4E-20
ENSG00000118520	ARG1	4.119174989	5E-25
ENSG00000081181	ARG2	1.698523067	6E-05
ENSG00000137727	ARHGAP20	-3.044449221	7E-30
ENSG00000006740	ARHGAP44	-1.737878402	6E-10
ENSG00000047648	ARHGAP6	-2.037694365	2E-11
ENSG00000242173	ARHGDIG	-2.897062419	0.0035
ENSG00000104728	ARHGEF10	-1.385081166	0.0001
ENSG00000198844	ARHGEF15	-1.025422574	4E-05
ENSG00000110237	ARHGEF17	-1.077611323	1E-07
ENSG00000116584	ARHGEF2	-1.026785131	5E-09
ENSG00000240771	ARHGEF25	-1.535526895	1E-13
ENSG00000114790	ARHGEF26	-1.206870739	0.0001
ENSG00000236699	ARHGEF38	-2.938177182	7E-09
ENSG00000136002	ARHGEF4	1.029246016	5E-12
ENSG00000165801	ARHGEF40	-1.891415749	3E-12
ENSG00000129675	ARHGEF6	-2.179990964	4E-17
ENSG00000032219	ARID4A	-1.110136656	0.0009
ENSG00000179674	ARL14	3.501320484	3E-08
ENSG00000228696	ARL17B	-1.643171977	2E-05
ENSG00000175906	ARL4D	1.618878822	3E-10
ENSG00000162980	ARL5A	1.01567871	9E-05
ENSG00000165997	ARL5B	1.361793447	3E-06
ENSG00000144746	ARL6IP5	-1.059674812	9E-08
ENSG00000134108	ARL8B	1.023427244	3E-06
ENSG00000157343	ARMC12	-1.578904615	0.0113
ENSG00000184867	ARMCX2	-1.468934581	7E-07
ENSG00000102401	ARMCX3	-1.422291514	7E-10
ENSG00000198520	ARMH1	-1.440303448	0.0002
ENSG00000139971	ARMH4	-1.110311172	4E-07
ENSG00000029153	ARNTL2	2.860872266	9E-36
ENSG00000241685	ARPC1A	1.103672382	2E-07
ENSG00000163466	ARPC2	1.131115139	9E-13
ENSG00000136950	ARPC5L	1.431662544	9E-11
ENSG00000062096	ARSF	2.099574576	2E-05
ENSG00000183876	ARSI	1.627572276	0.0003

ENSG00000156219	ART3	-1.180619669	0.0094
ENSG00000111339	ART4	-1.477338581	0.0122
ENSG00000167311	ART5	-1.442004039	0.0238
ENSG00000117407	ARTN	1.673770129	0.0123
ENSG00000099889	ARVCF	-1.078066614	0.0005
ENSG00000165192	ASB11	-3.030805536	7E-06
ENSG00000005981	ASB4	-1.635170489	0.0489
ENSG00000102048	ASB9	-1.169769851	0.0008
ENSG00000105011	ASF1B	1.563199809	9E-06
ENSG00000213199	ASIC3	-1.720848832	0.0001
ENSG00000101440	ASIP	-4.173564993	2E-11
ENSG00000196433	ASMT	-2.717442679	4E-05
ENSG00000108381	ASPA	-2.140226917	2E-13
ENSG00000166183	ASPG	1.714631313	4E-05
ENSG00000198363	ASPH	-1.405156179	2E-07
ENSG00000244617	ASPRV1	4.481767175	1E-15
ENSG00000162174	ASRGL1	-1.77030259	8E-13
ENSG00000152092	ASTN1	-2.452290848	0.0054
ENSG00000148219	ASTN2	-1.56333002	6E-08
ENSG00000141431	ASXL3	-2.563367717	6E-11
ENSG00000197785	ATAD3A	1.030150571	3E-05
ENSG00000162772	ATF3	-1.301508798	1E-05
ENSG00000168874	ATOH8	-3.159987618	2E-15
ENSG00000177556	ATOX1	1.041968077	7E-07
ENSG00000206190	ATP10A	-1.457696126	3E-07
ENSG00000118322	ATP10B	1.775915054	6E-08
ENSG00000145246	ATP10D	1.344000939	4E-19
ENSG00000058063	ATP11B	1.372797265	4E-08
ENSG00000075673	ATP12A	3.691582772	3E-12
ENSG00000187527	ATP13A5	-2.832447542	1E-16
ENSG00000018625	ATP1A2	-3.881041515	2E-34
ENSG00000143153	ATP1B1	-2.023000457	2E-23
ENSG00000129244	ATP1B2	-1.888084285	2E-07
ENSG00000074370	ATP2A3	-2.960571083	1E-22
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ENSG00000248919	ATP5MF-PTCD1	-1.29431624	0.0315
ENSG00000205464	ATP6AP1L	-1.245078696	0.0001
ENSG00000105929	ATP6V0A4	-2.911947345	9E-32
ENSG00000147614	ATP6V0D2	-1.691028245	0.0036
ENSG00000171130	ATP6V0E2	-1.924479694	3E-22
ENSG00000116039	ATP6V1B1	-3.291520935	9E-10
ENSG00000147416	ATP6V1B2	1.095680634	1E-06
ENSG00000213760	ATP6V1G2	-1.355278282	0.0337
ENSG00000124406	ATP8A1	-1.444880757	3E-08
ENSG00000130270	ATP8B3	1.509364815	0.0016
ENSG00000104043	ATP8B4	-1.58770863	1E-07
ENSG00000127423	AUNIP	2.40045851	1E-08
ENSG00000087586	AURKA	1.618176684	4E-09

ENSG00000178999	AURKB	1.152523305	0.0011
ENSG00000169857	AVEN	1.256264013	5E-11
ENSG00000126895	AVPR2	-1.34713224	0.0007
ENSG00000167601	AXL	-1.608429934	2E-13
ENSG00000183778	B3GALT5	-3.099045648	5E-17
ENSG00000179913	B3GNT3	1.542387322	9E-05
ENSG00000176383	B3GNT4	1.484759687	5E-06
ENSG00000176597	B3GNT5	1.919276278	2E-12
ENSG00000177191	B3GNT8	1.339798488	3E-06
ENSG00000139044	B4GALNT3	1.003588884	2E-06
ENSG00000112182	BACH2	-1.22877266	4E-06
ENSG00000112208	BAG2	-1.093294241	0.0006
ENSG00000128298	BAIAP2L2	1.676789505	2E-05
ENSG00000007516	BAIAP3	-1.374996064	2E-06
ENSG00000030110	BAK1	1.484101257	8E-09
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ENSG00000153064	BANK1	-1.730780991	4E-12
ENSG00000132692	BCAN	-1.065114716	0.0017
ENSG00000137936	BCAR3	-1.78628121	4E-10
ENSG00000064787	BCAS1	-2.727867694	4E-18
ENSG00000124243	BCAS4	-1.258421854	5E-08
ENSG00000103507	BCKDK	1.224423363	3E-07
ENSG00000171791	BCL2	-2.275720613	6E-25
ENSG00000140379	BCL2A1	1.270628848	0.0455
ENSG00000137875	BCL2L10	1.955032202	5E-11
ENSG00000100739	BDKRB1	1.423407102	0.0031
ENSG00000168398	BDKRB2	1.445608224	1E-15
ENSG00000176697	BDNF	1.689571595	7E-06
ENSG00000162373	BEND5	-1.577811187	2E-07
ENSG00000151917	BEND6	1.141832345	0.0003
ENSG00000165626	BEND7	-2.119152861	3E-12
ENSG00000167995	BEST1	-1.122167441	0.0002
ENSG00000039987	BEST2	-2.140206386	0.0365
ENSG00000133169	BEX1	-2.342344762	0.0023
ENSG00000102409	BEX4	-1.168952787	3E-14
ENSG00000184515	BEX5	-2.211977192	7E-13
ENSG00000125864	BFSP1	1.704285641	2E-10
ENSG00000180535	BHLHA15	-3.887836208	4E-06
ENSG00000180828	BHLHE22	-1.002300811	0.0417
ENSG00000123095	BHLHE41	-2.264590519	1E-25
ENSG00000132840	BHMT2	-3.06329066	2E-22
ENSG00000122870	BICC1	-1.379533792	1E-05
ENSG00000185963	BICD2	1.419963016	2E-17
ENSG00000089685	BIRC5	2.252385016	2E-13
ENSG00000197299	BLM	1.022475453	0.0008
ENSG00000108578	BLMH	2.136611824	1E-18
ENSG00000095585	BLNK	1.33701795	7E-11
ENSG00000196072	BLOC1S2	1.343373857	1E-08

ENSG00000138756	BMP2K	1.613104717	5E-15
ENSG00000152785	BMP3	-2.830342613	0.002
ENSG00000112175	BMP5	-3.67341354	8E-10
ENSG00000153162	BMP6	-1.723164855	4E-08
ENSG00000101144	BMP7	1.087215581	0.0007
ENSG00000164619	BMPER	-1.493972681	0.001
ENSG00000138696	BMPR1B	1.690946821	5E-08
ENSG00000102010	BMX	-1.841240243	1E-04
ENSG00000169594	BNC1	2.254651601	6E-12
ENSG00000173068	BNC2	-1.292477242	8E-06
ENSG00000176171	BNIP3	1.319243169	4E-05
ENSG00000144857	BOC	-1.500281386	1E-06
ENSG00000169627	BOLA2B	1.892999455	0.0269
ENSG00000261236	BOP1	1.133320445	2E-06
ENSG00000136122	BORA	1.023665003	1E-07
ENSG00000184459	BPIFC	2.622634778	1E-10
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ENSG00000160469	BRSK1	-1.41434785	0.005
ENSG00000162399	BSND	2.118756645	0.0415
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ENSG00000109743	BST1	-1.374903547	5E-09
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ENSG00000174808	BTC	-2.563331297	4E-12
ENSG00000154640	BTG3	1.20626964	4E-11
ENSG00000165810	BTNL9	-2.776216196	1E-14
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ENSG00000112276	BVES	-1.208262064	6E-05
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ENSG00000222047	C10orf55	1.690836255	1E-14
ENSG00000179133	C10orf67	-1.5893688	0.0209
ENSG00000154493	C10orf90	-1.886072967	5E-06
ENSG00000120055	C10orf95	1.133471068	0.0036
ENSG00000188373	C10orf99	7.238835105	1E-23
ENSG00000185742	C11orf87	3.964151556	2E-12
ENSG00000187479	C11orf96	-1.463177325	1E-09
ENSG00000133641	C12orf29	1.533407835	5E-12
ENSG00000185306	C12orf56	3.673465377	8E-31
ENSG00000283199	C13orf46	-2.76597729	6E-05
ENSG00000227051	C14orf132	-1.024060615	0.0016
ENSG00000184601	C14orf180	-4.847668567	4E-10
ENSG00000179008	C14orf39	-3.18992175	0.0271
ENSG00000166920	C15orf48	2.902540684	5E-05
ENSG00000175779	C15orf53	1.567263524	0.0011
ENSG00000205363	C15orf59	-1.155036882	0.0003
ENSG00000188277	C15orf62	1.054495324	0.0038

ENSG00000166780	C16orf45	-1.553434979	2E-09
ENSG00000154102	C16orf74	1.821060411	1E-06
ENSG00000159761	C16orf86	-1.277869225	0.0001
ENSG00000153446	C16orf89	-1.75442327	0.023
ENSG00000267221	C17orf113	-1.863771064	2E-06
ENSG00000187624	C17orf97	-1.087286175	0.0002
ENSG00000177025	C19orf18	-1.658707434	8E-05
ENSG00000183397	C19orf71	-2.040746743	4E-05
ENSG00000223658	C1GALT1C1L	-1.454576671	0.0043
ENSG00000180999	C1orf105	-2.062400676	0.0316
ENSG00000162817	C1orf115	-2.796158939	6E-35
ENSG00000143110	C1orf162	-1.017280947	0.0025
ENSG00000215910	C1orf167	1.316707961	0.0064
ENSG00000239887	C1orf226	-1.024208571	2E-05
ENSG00000203724	C1orf53	1.288282441	0.0177
ENSG00000198854	C1orf68	1.815914936	8E-05
ENSG00000162757	C1orf74	1.173812611	0.001
ENSG00000173372	C1QA	-1.799781889	4E-08
ENSG00000173369	C1QB	-1.553952809	2E-05
ENSG00000159189	C1QC	-1.482843383	1E-07
ENSG00000173918	C1QTNF1	-1.111654552	5E-07
ENSG00000082196	C1QTNF3	-1.178755733	0.0131
ENSG00000172247	C1QTNF4	-1.484409939	0.0316
ENSG00000163145	C1QTNF7	-3.788326965	2E-26
ENSG00000240654	C1QTNF9	-3.113029632	0.0005
ENSG00000205863	C1QTNF9B	-2.956559149	1E-05
ENSG00000182326	C1S	-1.168383807	2E-05
ENSG00000166278	C2	-1.206645423	0.0043
ENSG00000196476	C20orf96	-1.347532296	1E-08
ENSG00000154642	C21orf91	1.30832057	5E-14
ENSG00000198535	C2CD4A	3.219286617	8E-05
ENSG00000155754	C2CD6	-1.654903799	0.0125
ENSG00000119147	C2orf40	-2.503264332	7E-17
ENSG00000172478	C2orf54	1.236651488	1E-06
ENSG00000187944	C2orf66	2.035674847	0.0061
ENSG00000179270	C2orf71	-1.864898878	0.0381
ENSG00000204128	C2orf72	-3.321047301	1E-34
ENSG00000187699	C2orf88	-2.469812267	8E-29
ENSG00000228486	C2orf92	-1.221057291	0.0001
ENSG00000125730	C3	-3.532057267	5E-12
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ENSG00000088543	C3orf18	-1.415182659	1E-13
ENSG00000174928	C3orf33	-1.603079141	0.0149
ENSG00000163689	C3orf67	1.357639741	8E-05
ENSG00000187068	C3orf70	-1.545555089	4E-11
ENSG00000123843	C4BPB	-2.262754732	0.004
ENSG00000154274	C4orf19	-2.478311539	3E-20
ENSG00000039537	C6	-3.687842603	4E-12

ENSG00000203872	C6orf163	-1.130952982	1E-04
ENSG00000181577	C6orf223	2.511159939	0.0021
ENSG00000112936	C7	-3.239432254	2E-17
ENSG00000164746	C7orf57	4.455989981	5E-09
ENSG00000171060	C8orf74	2.184231013	0.0496
ENSG00000188959	C9orf152	-3.270660293	5E-12
ENSG00000164972	C9orf24	-1.939812821	0.0027
ENSG00000165181	C9orf84	2.042496927	5E-05
ENSG00000104267	CA2	2.642972454	4E-15
ENSG00000164879	CA3	-1.586289005	0.0001
ENSG00000167434	CA4	-2.540452974	2E-07
ENSG00000131686	CA6	-2.318364913	3E-14
ENSG00000178538	CA8	-1.604063079	0.0009
ENSG00000102547	CAB39L	-1.17803789	3E-10
ENSG00000183346	CABCOC01	-1.693178425	0.0016
ENSG00000157782	CABP1	-1.372308779	0.0058
ENSG00000151067	CACNA1C	-1.113686054	0.0081
ENSG00000157388	CACNA1D	-1.354367173	0.0006
ENSG00000102001	CACNA1F	-1.594962837	0.0034
ENSG00000196557	CACNA1H	-4.125440999	2E-24
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ENSG00000142408	CACNG8	-1.38829399	0.0001
ENSG00000175161	CADM2	-2.36794473	9E-08
ENSG00000162706	CADM3	-2.521065687	9E-20
ENSG00000163618	CADPS	-1.510223326	4E-05
ENSG00000081803	CADPS2	-1.479782807	1E-13
ENSG00000172137	CALB2	-1.695246951	0.0078
ENSG00000122786	CALD1	-1.033989611	2E-05
ENSG00000138172	CALHM2	-1.266448549	3E-08
ENSG00000178033	CALHM5	-1.274502163	2E-06
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ENSG00000178372	CALML5	3.307033505	4E-20
ENSG00000169885	CALML6	-1.18081474	0.0033
ENSG00000134072	CAMK1	-1.781491379	8E-27
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ENSG00000162545	CAMK2N1	-1.456716173	7E-08
ENSG00000163888	CAMK2N2	2.85054276	0.0002
ENSG00000144712	CAND2	-1.811334906	1E-07
ENSG00000112186	CAP2	-1.021884212	0.0058
ENSG00000042493	CAPG	1.253028825	9E-09
ENSG00000137225	CAPN11	-1.377172629	5E-06
ENSG00000149260	CAPN5	-1.266232251	7E-06
ENSG00000077274	CAPN6	-1.818188959	8E-05
ENSG00000135773	CAPN9	-2.757727248	0.0002

ENSG00000105519	CAPS	-1.001426202	0.0028
ENSG00000180881	CAPS2	-1.197378226	7E-05
ENSG00000116489	CAPZA1	1.189498626	6E-09
ENSG00000177938	CAPZA3	-2.660203847	0.0184
ENSG00000141527	CARD14	1.234349467	6E-06
ENSG00000255501	CARD18	1.65333108	8E-05
ENSG00000153048	CARHSP1	1.260731999	2E-05
ENSG00000186648	CARMIL3	1.138231252	0.0002
ENSG00000118307	CASC1	-2.256032517	1E-07
ENSG00000204403	CASP12	-1.285418262	0.0035
ENSG00000105141	CASP14	3.712785103	5E-10
ENSG00000118729	CASQ2	-2.48840658	1E-12
ENSG00000239282	CASTOR1	2.163344131	0.0036
ENSG00000099338	CATSPERG	-1.598892532	4E-08
ENSG00000168497	CAVIN2	-2.512642019	2E-19
ENSG00000099625	CBARP	1.623868554	1E-05
ENSG00000142273	CBLC	1.499618688	2E-07
ENSG00000102924	CBLN1	-2.383390667	2E-07
ENSG00000159228	CBR1	1.179959316	2E-09
ENSG00000159231	CBR3	1.036353536	4E-05
ENSG00000173894	CBX2	1.93406032	1E-08
ENSG00000183741	CBX6	-1.255736045	3E-06
ENSG00000100307	CBX7	-1.776975225	6E-13
ENSG00000183287	CCBE1	-2.322352168	2E-10
ENSG00000168491	CCDC110	-2.475800339	7E-07
ENSG00000105479	CCDC114	-1.503273043	0.0452
ENSG00000147144	CCDC120	1.544268678	2E-07
ENSG00000007080	CCDC124	1.039334153	5E-06
ENSG00000180347	CCDC129	-3.832946152	1E-17
ENSG00000128596	CCDC136	-1.5112803	5E-07
ENSG00000170160	CCDC144A	-1.923662459	0.0013
ENSG00000135205	CCDC146	-1.690596057	3E-05
ENSG00000153237	CCDC148	-1.362606172	0.0135
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ENSG00000163749	CCDC158	-1.82997533	0.0353
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ENSG00000120262	CCDC170	-1.847305866	5E-09
ENSG00000154479	CCDC173	-1.343304647	0.0007
ENSG00000166960	CCDC178	-2.429571268	2E-06
ENSG00000197816	CCDC180	-2.310764336	0.0006
ENSG00000213213	CCDC183	-1.435913575	0.0048
ENSG00000163617	CCDC191	-1.233718945	0.0005
ENSG00000230561	CCDC192	-2.110310327	1E-05
ENSG00000159214	CCDC24	-1.157897536	0.001
ENSG00000186409	CCDC30	-1.217393155	0.0004
ENSG00000173421	CCDC36	-1.678604666	0.0009
ENSG00000173093	CCDC63	4.197198751	7E-10

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ENSG00000198624	CCDC69	-1.49023852	3E-13
ENSG00000216937	CCDC7	-1.283563398	0.0009
ENSG00000186714	CCDC73	1.491166765	0.0212
ENSG00000163040	CCDC74A	-1.055377658	2E-05
ENSG00000091986	CCDC80	-1.885254203	0.001
ENSG00000055813	CCDC85A	-3.243229156	3E-09
ENSG00000205476	CCDC85C	1.28039029	5E-07
ENSG00000187094	CCK	2.512496758	0.0465
ENSG00000181374	CCL13	-1.764390207	0.0005
ENSG00000276409	CCL14	-2.095117628	1E-05
ENSG00000275152	CCL16	-1.85244666	0.0172
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ENSG00000274736	CCL23	-1.773615521	0.0467
ENSG00000106178	CCL24	1.956966153	0.02
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ENSG00000133101	CCNA1	3.254577274	0.0009
ENSG00000145386	CCNA2	1.547452691	4E-08
ENSG00000134057	CCNB1	2.098665231	4E-10
ENSG00000157456	CCNB2	1.8961208	6E-09
ENSG00000147082	CCNB3	-1.022032263	0.0226
ENSG00000110092	CCND1	-1.020466911	3E-06
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ENSG00000175305	CCNE2	1.559678895	1E-10
ENSG00000184305	CCSER1	-2.055236655	2E-09
ENSG00000163468	CCT3	1.229112119	5E-10
ENSG00000150753	CCT5	1.153306769	1E-06
ENSG00000170458	CD14	-1.148287758	2E-09
ENSG00000177575	CD163	-1.595585345	1E-06
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ENSG00000090659	CD209	-2.003019008	2E-05
ENSG00000272398	CD24	1.690456458	4E-06
ENSG00000122223	CD244	1.805497708	0.015
ENSG00000174807	CD248	-2.032157581	1E-14
ENSG00000178562	CD28	-1.308340975	0.0041
ENSG00000167850	CD300C	-1.227135497	0.0285
ENSG00000178789	CD300LB	-1.961206188	0.0002
ENSG00000161649	CD300LG	-2.980408612	8E-20
ENSG00000241399	CD302	-1.791936792	3E-12
ENSG00000105383	CD33	-1.088710147	0.013
ENSG00000174059	CD34	-1.91237365	9E-13

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ENSG00000172116	CD8B	-1.811201211	0.0267
ENSG00000102181	CD99L2	-1.511496817	3E-16
ENSG00000158825	CDA	2.676529874	2E-10
ENSG00000117399	CDC20	2.159658231	9E-08
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ENSG00000101224	CDC25B	1.587878299	6E-13
ENSG00000158402	CDC25C	1.23849217	0.0002
ENSG00000093009	CDC45	1.46852568	1E-05
ENSG00000094804	CDC6	1.776233161	1E-07
ENSG00000097046	CDC7	1.056125307	0.0002
ENSG00000184661	CDCA2	1.4723619	7E-08
ENSG00000170779	CDCA4	1.335089946	5E-08
ENSG00000146670	CDCA5	1.968264502	7E-07
ENSG00000144354	CDCA7	1.04464115	1E-06
ENSG00000134690	CDCA8	1.041895051	0.0001
ENSG00000163814	CDCP1	1.24619449	9E-09
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ENSG00000040731	CDH10	-3.732183985	0.0054
ENSG00000154162	CDH12	-3.363921147	4E-05
ENSG00000129910	CDH15	2.301787848	0.0402
ENSG00000071991	CDH19	-1.592653655	4E-11
ENSG00000101542	CDH20	-2.894212999	1E-11
ENSG00000149654	CDH22	-1.589922563	0.0032
ENSG00000107736	CDH23	-1.580667019	1E-12
ENSG00000124215	CDH26	2.010845525	1E-06
ENSG00000062038	CDH3	2.308254513	3E-11
ENSG00000179242	CDH4	-1.894443108	0.001
ENSG00000179776	CDH5	-1.048506221	5E-05
ENSG00000113361	CDH6	-1.350594645	0.0001
ENSG00000128536	CDHR3	-1.096702285	2E-05
ENSG00000170312	CDK1	1.308512273	1E-06
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ENSG00000138395	CDK15	-1.173141026	0.031
ENSG00000176749	CDK5R1	2.821198692	3E-20
ENSG00000134058	CDK7	1.11442049	2E-13
ENSG00000124762	CDKN1A	1.206434481	5E-05
ENSG00000100526	CDKN3	1.801713898	9E-08
ENSG00000185267	CDFN	-1.27626428	1E-05
ENSG00000129596	CDO1	-4.28333525	2E-19
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ENSG00000241322	CDRT1	1.653058276	0.0011
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ENSG00000079385	CEACAM1	-1.562975686	6E-07
ENSG00000186567	CEACAM19	2.047357508	3E-17
ENSG00000170956	CEACAM3	3.373079225	0.0107
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ENSG00000154240	CEP112	-1.02565294	1E-05
ENSG00000110318	CEP126	-2.216798312	3E-12
ENSG00000178404	CEP295NL	-2.144273989	7E-05
ENSG00000138180	CEP55	1.796528902	3E-10
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ENSG00000001626	CFTR	-3.284891622	5E-22
ENSG00000164430	CGAS	1.466796325	5E-07
ENSG00000128849	CGNL1	-2.478601113	1E-20
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ENSG00000143942	CHAC2	2.074135067	6E-10
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ENSG00000016391	CHDH	-2.271477297	3E-13
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ENSG00000111666	CHPT1	-1.917559591	4E-20
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ENSG00000101938	CHRD1	-3.858735904	8E-14
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ENSG00000168539	CHRM1	-3.506643427	9E-22
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ENSG00000169684	CHRNA5	1.722047879	0.0001
ENSG00000175344	CHRNA7	-1.555188481	0.0472
ENSG00000174343	CHRNA9	4.837982588	2E-10
ENSG00000117971	CHRN4	2.11778872	0.0245
ENSG00000175264	CHST1	1.7253003	1E-07
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ENSG00000159261	CLDN14	3.080740662	0.0356
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ENSG00000172243	CLEC7A	3.320812944	1E-29
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ENSG00000105270	CLIP3	-1.872669523	1E-10
ENSG00000165959	CLMN	-1.588736926	3E-16
ENSG00000166250	CLMP	-1.885752402	1E-08
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ENSG00000177182	CLVS1	1.457829615	0.0008
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ENSG00000092009	CMA1	-1.262222666	0.0096
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ENSG00000140931	CMTM3	-1.015600778	5E-07
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ENSG00000198515	CNGA1	-1.331644543	2E-15
ENSG00000070729	CNGB1	5.676470567	2E-19
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ENSG00000064666	CNN2	1.015881739	3E-05
ENSG00000119946	CNNM1	-1.162895639	2E-05
ENSG00000158158	CNNM4	1.112744593	4E-08
ENSG00000118432	CNR1	-2.073492137	6E-07
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ENSG00000176563	CNTD1	-3.252972111	0.0131
ENSG00000122756	CNTFR	-3.574573831	6E-24
ENSG00000184144	CNTN2	-3.020226866	5E-08
ENSG00000113805	CNTN3	-2.315935246	5E-06
ENSG00000144619	CNTN4	-2.649934198	3E-08
ENSG00000134115	CNTN6	-2.331884264	8E-05
ENSG00000174469	CNTNAP2	3.767052688	6E-11
ENSG00000106714	CNTNAP3	-1.143871855	0.0013
ENSG00000152910	CNTNAP4	-3.140529877	0.0286
ENSG00000100473	COCH	-3.360204468	5E-09

ENSG00000060718	COL11A1	-1.61571235	0.0005
ENSG00000204248	COL11A2	-1.19756327	0.0319
ENSG00000111799	COL12A1	-1.158947224	4E-05
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ENSG00000188517	COL25A1	-2.610644249	2E-14
ENSG00000160963	COL26A1	-1.507801125	0.0265
ENSG00000215018	COL28A1	-1.442671215	3E-06
ENSG00000169031	COL4A3	-1.509760846	0.0048
ENSG00000144810	COL8A1	-2.096818945	3E-11
ENSG00000112280	COL9A1	-2.590021478	0.0003
ENSG00000049089	COL9A2	-1.827298072	4E-08
ENSG00000214290	COLCA2	-2.73686296	0.0008
ENSG00000118004	COLEC11	-1.788020675	0.0002
ENSG00000158270	COLEC12	-1.597699827	4E-10
ENSG00000198756	COLGALT2	-1.574121688	0.0003
ENSG00000169019	COMMD8	1.17950365	2E-06
ENSG00000165644	COMTD1	1.071954975	1E-04
ENSG00000172428	COPS9	1.133929578	7E-08
ENSG00000173085	COQ2	1.164146352	5E-10
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ENSG00000103647	CORO2B	-2.150947656	2E-16
ENSG00000160471	COX6B2	-1.2006848	0.0195
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ENSG00000047457	CP	-2.997568565	9E-13
ENSG00000091704	CPA1	-2.050318974	0.0334
ENSG00000128510	CPA4	2.515113692	6E-20
ENSG00000165078	CPA6	4.309572474	4E-07
ENSG00000160111	CPAMD8	-2.035833118	1E-10
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ENSG00000109472	CPE	-1.761649791	5E-10
ENSG00000214575	CPEB1	-1.31764523	0.0008
ENSG00000137449	CPEB2	1.089017115	4E-10
ENSG00000106034	CPED1	-2.998459574	1E-18
ENSG00000100884	CPNE6	-2.23855607	0.0463
ENSG00000144410	CPO	-2.272076325	0.0064
ENSG00000104324	CPQ	-1.31590573	3E-09
ENSG00000187959	CPSF4L	-2.717280208	0.0357
ENSG00000143320	CRABP2	1.56805307	1E-07
ENSG00000130038	CRACR2A	-3.238898519	1E-18
ENSG00000177685	CRACR2B	-2.776698585	1E-15
ENSG00000169509	CRCT1	4.242312376	4E-14
ENSG00000143578	CREB3L4	-1.077262148	4E-14
ENSG00000146592	CREB5	-1.232917133	0.0008
ENSG00000175874	CREG2	3.348828334	3E-11
ENSG00000145708	CRHBP	-3.310891849	4E-10
ENSG00000150938	CRIM1	-1.433744634	4E-12

ENSG00000213145	CRIP1	-1.503620409	0.0035
ENSG00000146215	CRIP3	-3.112347788	0.0002
ENSG00000124490	CRISP2	-3.631932435	1E-08
ENSG00000096006	CRISP3	-2.182128619	6E-11
ENSG00000121005	CRISPLD1	-2.174241342	2E-22
ENSG00000006016	CRLF1	1.013935798	0.0006
ENSG00000072832	CRMP1	1.275746805	0.0047
ENSG00000143536	CRNN	2.021820908	0.006
ENSG00000170275	CRTAP	-1.058544921	9E-10
ENSG00000121671	CRY2	-1.318515009	9E-09
ENSG00000109846	CRYAB	-1.628070902	1E-08
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ENSG00000176092	CRYBG2	1.197005399	9E-07
ENSG00000172346	CSDC2	-1.390976574	0.0052
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ENSG00000183117	CSMD1	-2.079774806	0.0006
ENSG00000126545	CSN1S1	-4.116786309	0.0011
ENSG00000070770	CSNK2A2	1.457051514	5E-14
ENSG00000178662	CSRNP3	-1.165370464	0.0012
ENSG00000159176	CSRP1	-1.085023284	3E-10
ENSG00000175183	CSRP2	1.289057506	3E-06
ENSG00000175315	CST6	3.342857032	5E-07
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ENSG00000160213	CSTB	1.918636105	4E-07
ENSG00000101811	CSTF2	1.045083423	4E-09
ENSG00000150281	CTF1	-1.111342006	0.0023
ENSG00000118523	CTGF	-1.930443878	5E-12
ENSG00000116761	CTH	1.556858125	0.0022
ENSG00000183230	CTNNA3	-3.729369509	1E-06
ENSG00000178585	CTNNBIP1	1.594568018	3E-08
ENSG00000169862	CTNND2	-1.808539896	9E-05
ENSG00000171793	CTPS1	1.218000733	4E-10
ENSG00000109861	CTSC	1.494741923	6E-08
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ENSG00000136943	CTSV	1.485406635	7E-05
ENSG00000101160	CTSZ	-1.068258323	1E-09
ENSG00000077063	CTTNBP2	-1.230373812	0.0011
ENSG00000109182	CWH43	1.778568413	6E-19
ENSG00000006210	CX3CL1	-2.356267889	4E-19
ENSG00000154639	CXADR	1.094682936	7E-06
ENSG00000163739	CXCL1	2.615015592	4E-06
ENSG00000169245	CXCL10	1.483945304	0.0092
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ENSG00000189377	CXCL17	2.10452666	0.0002
ENSG00000163735	CXCL5	1.907574007	0.0367
ENSG00000169429	CXCL8	5.974994482	2E-09
ENSG00000163464	CXCR1	3.920830492	4E-15
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ENSG00000168772	CXXC4	-2.814943756	1E-12
ENSG00000165168	CYBB	-1.203875601	9E-07
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ENSG00000161544	CYGB	-1.677011257	1E-10
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ENSG00000140465	CYP1A1	-2.272582042	1E-06
ENSG00000140505	CYP1A2	-2.928977721	0.0099
ENSG00000138061	CYP1B1	-1.129798939	0.0004
ENSG00000019186	CYP24A1	3.981958456	2E-09
ENSG00000135929	CYP27A1	-1.694965284	4E-16
ENSG00000111012	CYP27B1	2.236033966	4E-06
ENSG00000186684	CYP27C1	1.205639772	8E-08
ENSG00000255974	CYP2A6	-3.61496365	0.0063
ENSG00000108242	CYP2C18	1.727704329	0.0004
ENSG00000100197	CYP2D6	-1.308593489	0.0224
ENSG00000155016	CYP2U1	-1.456377645	3E-10
ENSG00000073067	CYP2W1	-1.682958966	0.0006
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ENSG00000187048	CYP4A11	-3.663086265	0.0005
ENSG00000142973	CYP4B1	-1.16393659	5E-05
ENSG00000171903	CYP4F11	2.667575309	2E-05
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ENSG00000186526	CYP4F8	-1.760831897	0.0278
ENSG00000145476	CYP4V2	-1.572426243	2E-08
ENSG00000186377	CYP4X1	-1.898025623	1E-13
ENSG00000186160	CYP4Z1	-1.938179726	0.0213
ENSG00000172817	CYP7B1	1.172934594	4E-05
ENSG00000205795	CYS1	-1.270919641	0.0004
ENSG00000173198	CYSLTR1	-1.388180054	0.0004
ENSG00000197191	CYSRT1	4.195257008	2E-14
ENSG00000120306	CYSTM1	-1.500277997	1E-10
ENSG00000146122	DAAM2	-1.678404726	2E-08
ENSG00000153071	DAB2	-1.37892513	1E-07
ENSG00000276644	DACH1	-1.014113133	0.0014
ENSG00000165617	DACT1	-2.187321248	3E-15
ENSG00000164488	DACT2	-1.354703745	0.0005
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ENSG00000134780	DAGLA	-1.735854141	9E-09
ENSG00000196730	DAPK1	-1.654894272	1E-09
ENSG00000163331	DAPL1	1.048871244	0.0003
ENSG00000070190	DAPP1	1.081893072	4E-06
ENSG00000006634	DBF4	1.011826147	6E-09
ENSG00000113758	DBN1	-1.631583056	2E-16
ENSG00000185610	DBX2	-4.514227688	3E-08
ENSG00000198354	DCAF12L2	-4.45704329	4E-05
ENSG00000164934	DCAF13	1.019727508	2E-07

ENSG00000161634	DCD	-4.208536879	1E-13
ENSG00000170959	DCDC1	-3.642211848	3E-06
ENSG00000146038	DCDC2	-1.158076821	0.0237
ENSG00000166341	DCHS1	-1.101029986	0.0038
ENSG00000133083	DCLK1	-2.091936061	5E-08
ENSG00000170390	DCLK2	-1.197446639	8E-05
ENSG00000011465	DCN	-1.760217638	5E-07
ENSG00000163357	DCST1	-1.322739311	0.014
ENSG00000163354	DCST2	-2.058764335	7E-08
ENSG00000164935	DCSTAMP	-3.657454583	0.0002
ENSG00000080166	DCT	-1.191735073	0.0027
ENSG00000137692	DCUN1D5	1.310092518	1E-07
ENSG00000077279	DCX	-2.86026169	1E-06
ENSG00000153904	DDAH1	-1.49509403	4E-06
ENSG00000165490	DDIAS	1.562496851	4E-06
ENSG00000145358	DDIT4L	-2.348439678	2E-15
ENSG00000181418	DDN	2.097091162	0.0018
ENSG00000203797	DDO	-2.248271789	0.0003
ENSG00000162733	DDR2	-2.377710192	1E-22
ENSG00000109832	DDX25	-1.941238224	3E-05
ENSG00000107201	DDX58	1.278247319	4E-11
ENSG00000181381	DDX60L	1.087775839	3E-06
ENSG00000186458	DEFB132	-5.381611062	1E-14
ENSG00000171711	DEFB4A	8.865686515	3E-08
ENSG00000143753	DEGS1	1.159662838	3E-07
ENSG00000168350	DEGS2	1.747952364	6E-06
ENSG00000146966	DENND2A	-2.595292192	2E-13
ENSG00000175984	DENND2C	1.215326617	1E-14
ENSG00000162777	DENND2D	1.088772053	1E-10
ENSG00000105339	DENND3	-1.170593312	6E-06
ENSG00000170456	DENND5B	-1.208181117	8E-10
ENSG00000024526	DEPDC1	1.648401274	7E-08
ENSG00000035499	DEPDC1B	2.109081108	3E-09
ENSG00000165507	DEPP1	-2.011307586	1E-14
ENSG00000175084	DES	-2.076407243	3E-06
ENSG00000140543	DET1	-1.215857037	3E-13
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ENSG00000157680	DGKI	-1.707677718	1E-05
ENSG00000157379	DHRS1	1.28201073	5E-08
ENSG00000197406	DIO3	-2.703817061	8E-05
ENSG00000151240	DIP2C	-1.113348958	4E-10
ENSG00000165023	DIRAS2	-1.640540047	0.0016
ENSG00000154309	DISP1	-1.060588502	2E-06
ENSG00000150764	DIXDC1	-1.658388257	6E-18
ENSG00000107984	DKK1	-2.272894319	2E-06
ENSG00000155011	DKK2	-2.770200079	2E-07
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ENSG00000008226	DLEC1	-1.995105319	1E-08

ENSG00000186047	DLEU7	-3.088268307	0.0221
ENSG00000116544	DLGAP3	1.990649555	0.0005
ENSG00000126787	DLGAP5	2.23259043	1E-08
ENSG00000128917	DLL4	-1.063995047	0.0075
ENSG00000105880	DLX5	1.547859444	3E-06
ENSG00000006377	DLX6	2.02958981	0.0012
ENSG00000198947	DMD	-1.437515073	8E-18
ENSG00000132837	DMGDH	-1.462510753	0.0015
ENSG00000161249	DMKN	1.251384745	4E-07
ENSG00000173253	DMRT2	-2.229000058	0.0065
ENSG00000167646	DNAAF3	1.50074858	0.0054
ENSG00000114841	DNAH1	-1.115659343	6E-05
ENSG00000250091	DNAH10OS	-1.834161298	3E-09
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ENSG00000039139	DNAH5	-1.241008566	0.0083
ENSG00000115423	DNAH6	-1.546702829	0.0138
ENSG00000118997	DNAH7	-1.534827345	0.0011
ENSG00000105993	DNAJB6	1.275176604	6E-09
ENSG00000178401	DNAJC22	-1.203744726	0.0141
ENSG00000116675	DNAJC6	-1.31805234	6E-07
ENSG00000163879	DNALI1	-2.015968541	5E-09
ENSG00000167968	DNASE1L2	2.072029012	4E-06
ENSG00000163687	DNASE1L3	1.033242102	2E-05
ENSG00000137976	DNASE2B	-3.643248238	0.0068
ENSG00000187957	DNER	-2.28699142	6E-24
ENSG00000106976	DNM1	-1.370240287	7E-06
ENSG00000088305	DNMT3B	1.878100641	6E-16
ENSG00000147251	DOCK11	-1.167354308	4E-05
ENSG00000115325	DOK1	-1.604714392	2E-13
ENSG00000147443	DOK2	-1.40721491	0.0035
ENSG00000125170	DOK4	1.075648461	1E-05
ENSG00000101134	DOK5	-1.579336468	8E-07
ENSG00000206052	DOK6	-2.124193664	3E-07
ENSG00000166171	DPCD	1.104177554	7E-06
ENSG00000015413	DPEP1	-2.5498153	0.001
ENSG00000011332	DPF1	2.663480444	1E-10
ENSG00000175497	DPP10	-1.999211281	0.0139
ENSG00000130226	DPP6	-1.628756362	0.0043
ENSG00000143196	DPT	-3.174925952	1E-22
ENSG00000092964	DPYSL2	-1.191672041	2E-07
ENSG00000113657	DPYSL3	-1.599809899	3E-09
ENSG00000175550	DRAP1	1.331776413	3E-07
ENSG00000162490	DRAXIN	-1.891624572	0.0002
ENSG00000171962	DRC3	-1.268839188	0.0002
ENSG00000184845	DRD1	-2.293143167	6E-05
ENSG00000149295	DRD2	-2.100630512	0.0007
ENSG00000069696	DRD4	-3.79439706	2E-07
ENSG00000189269	DRICH1	-1.080402924	0.0483

ENSG00000134765	DSC1	2.919575573	8E-19
ENSG00000134755	DSC2	2.928507371	6E-09
ENSG00000134762	DSC3	1.202265611	1E-12
ENSG00000177103	DSCAML1	-1.861744072	0.0054
ENSG00000171451	DSEL	-1.554726483	8E-11
ENSG00000134760	DSG1	2.636359705	6E-23
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ENSG00000134757	DSG3	2.015057237	7E-12
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ENSG00000143476	DTL	1.126945469	6E-05
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ENSG00000110042	DTX4	-1.338682237	2E-06
ENSG00000137857	DUOX1	1.303248821	2E-09
ENSG00000140254	DUOXA1	1.506656587	4E-12
ENSG00000079393	DUSP13	2.515025452	0.0138
ENSG00000276023	DUSP14	2.155191302	5E-17
ENSG00000158050	DUSP2	1.207542903	0.0231
ENSG00000120875	DUSP4	-1.090271495	0.0002
ENSG00000138166	DUSP5	1.052912307	0.0003
ENSG00000164086	DUSP7	1.042714396	0.0003
ENSG00000130829	DUSP9	3.367375726	2E-06
ENSG00000178690	DYNAP	3.253624333	0.0045
ENSG00000158560	DYNC111	-1.994440305	1E-13
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ENSG00000165891	E2F7	1.619326013	1E-05
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ENSG00000221818	EBF2	-1.942628202	4E-13
ENSG00000108001	EBF3	-1.743458501	2E-08
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ENSG00000106823	ECM2	-2.475421542	2E-15
ENSG00000114346	ECT2	1.415192672	2E-10
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ENSG00000158813	EDA	-1.397242409	7E-13
ENSG00000131080	EDA2R	-1.002069319	0.0135
ENSG00000135960	EDAR	-2.638083613	3E-19
ENSG00000124205	EDN3	-3.533657636	8E-08
ENSG00000284753	EEF1AKMT4	1.973241309	0.0003
ENSG00000114942	EEF1B2	1.089526142	2E-07
ENSG00000172771	EFCAB12	-2.377166713	0.0023
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ENSG00000115380	EFEMP1	-1.52754328	2E-10

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ENSG00000115468	EFHD1	-2.717811499	2E-29
ENSG00000084710	EFR3B	1.244547695	0.001
ENSG00000138798	EGF	-1.942947909	2E-10
ENSG00000198759	EGFL6	-2.473417032	3E-08
ENSG00000172889	EGFL7	-1.153587128	2E-07
ENSG00000241404	EGFL8	-1.099299081	0.0059
ENSG00000179388	EGR3	1.038191339	0.0004
ENSG00000176401	EID2B	-1.525933542	4E-05
ENSG00000141543	EIF4A3	1.296079531	3E-10
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ENSG00000242372	EIF6	1.591821732	5E-10
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ENSG00000196361	ELAVL3	3.142696828	0.0007
ENSG00000163435	ELF3	-1.608768661	4E-07
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ENSG00000110675	ELMOD1	1.886268252	2E-11
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ENSG00000197977	ELOVL2	-2.915989517	0.0014
ENSG00000118402	ELOVL4	2.38227674	6E-18
ENSG00000012660	ELOVL5	-1.398811964	8E-06
ENSG00000164181	ELOVL7	2.218818898	4E-25
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ENSG00000111405	ENDOU	2.075893118	1E-15
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ENSG00000074800	ENO1	1.107606988	1E-05
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ENSG00000197594	ENPP1	-2.792763018	1E-12
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ENSG00000112796	ENPP5	-2.727187693	4E-15
ENSG00000198018	ENTPD7	1.284265939	3E-06

ENSG00000088367	EPB41L1	-1.476002073	2E-16
ENSG00000079819	EPB41L2	-1.827471908	1E-17
ENSG00000166947	EPB42	-5.006067721	9E-09
ENSG00000119888	EPCAM	-1.452564169	4E-09
ENSG00000086289	EPDR1	-2.679712686	3E-33
ENSG00000182585	EPGN	6.765688944	1E-15
ENSG00000146904	EPHA1	1.304730664	1E-09
ENSG00000044524	EPHA3	-1.879322813	1E-06
ENSG00000135333	EPHA7	-2.489501768	3E-09
ENSG00000070886	EPHA8	4.046898009	0.0219
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ENSG00000143819	EPHX1	-1.612839821	7E-17
ENSG00000105131	EPHX3	3.102708223	1E-14
ENSG00000172031	EPHX4	-1.776993571	0.0001
ENSG00000049283	EPN3	1.683891048	3E-10
ENSG00000130427	EPO	2.916555136	4E-05
ENSG00000273604	EPOP	1.566084331	4E-06
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ENSG00000133106	EPST11	1.373958778	7E-08
ENSG00000178568	ERBB4	-3.324108043	8E-17
ENSG00000187672	ERC2	2.460855651	0.0079
ENSG00000186871	ERCC6L	1.893412084	7E-07
ENSG00000124882	EREG	3.41955552	5E-29
ENSG00000178752	ERFE	2.915411627	0.0003
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ENSG00000178965	ERICH3	-2.167049048	0.0323
ENSG00000134398	ERN2	-2.659625701	4E-05
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ENSG00000086619	ERO1B	-1.262665769	6E-05
ENSG00000244476	ERVFRD-1	-2.413519137	0.0173
ENSG00000226887	ERVMER34-1	2.83880509	1E-13
ENSG00000242950	ERVW-1	3.320811009	0.0086
ENSG00000171320	ESCO2	1.102731724	0.0028
ENSG00000135476	ESPL1	1.10771026	8E-05
ENSG00000140009	ESR2	-2.02071479	0.0012
ENSG00000104413	ESRP1	1.543590333	4E-17
ENSG00000103067	ESRP2	1.381482143	2E-09
ENSG00000196482	ESRRG	-3.397472627	2E-14
ENSG00000158220	ESYT3	1.56187717	1E-10
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ENSG00000174371	EXO1	1.638579382	2E-06
ENSG00000107371	EXOSC3	1.029776125	5E-06
ENSG00000158008	EXTL1	-3.166414758	3E-10
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ENSG00000188107	EYS	-2.979817309	0.0004
ENSG00000126218	F10	-2.539822544	3E-10
ENSG00000131187	F12	2.661750546	6E-15
ENSG00000124491	F13A1	-1.57178877	9E-05
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ENSG00000057593	F7	-1.648734196	0.0228
ENSG00000185010	F8	-1.750073985	2E-15
ENSG00000103089	FA2H	-1.310686187	0.0068
ENSG00000165591	FAAH2	1.125279301	5E-07
ENSG00000121769	FABP3	-2.58025638	1E-09
ENSG00000170323	FABP4	-4.009317769	9E-16
ENSG00000164687	FABP5	3.962294238	1E-43
ENSG00000170231	FABP6	2.59552918	0.0061
ENSG00000164434	FABP7	-2.176290049	0.0055
ENSG00000149485	FADS1	-1.283562885	0.0035
ENSG00000134824	FADS2	-1.649842105	0.0113
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ENSG00000125898	FAM110A	1.369247527	2E-05
ENSG00000169122	FAM110B	-1.446889472	3E-05
ENSG00000184731	FAM110C	2.071056901	1E-16
ENSG00000197245	FAM110D	-1.216753498	4E-05
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ENSG00000185519	FAM131C	1.612397461	0.0038
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ENSG00000082269	FAM135A	1.033506869	2E-13
ENSG00000138640	FAM13A	-1.717896981	1E-16
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ENSG00000152380	FAM151B	1.441468016	2E-07
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ENSG00000204677	FAM153C	-1.864182088	0.0024
ENSG00000170264	FAM161A	-1.050226382	0.0043
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ENSG00000114023	FAM162A	1.691124561	4E-13
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ENSG00000219438	FAM19A5	-1.931616269	7E-08
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ENSG00000183114	FAM43B	1.75704904	0.0008
ENSG00000189157	FAM47E	-2.726102704	4E-07
ENSG00000167695	FAM57A	1.132636315	9E-06
ENSG00000165716	FAM69B	-1.538926402	5E-11
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ENSG00000188610	FAM72B	1.355558249	0.0032
ENSG00000215784	FAM72D	1.530169679	0.0234
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ENSG00000147689	FAM83A	3.226899018	2E-18
ENSG00000168143	FAM83B	1.680648328	2E-21
ENSG00000125998	FAM83C	2.237499385	1E-13
ENSG00000101447	FAM83D	2.647714422	1E-10
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ENSG00000180921	FAM83H	1.597102785	4E-08
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ENSG00000158483	FAM86C1	1.243235947	2E-05
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ENSG00000152767	FARP1	-1.514972808	5E-10
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ENSG00000166147	FBN1	-1.745100653	5E-06
ENSG00000138829	FBN2	1.190916043	0.0206
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ENSG00000197361	FBXL22	-1.058689919	2E-05

ENSG00000183580	FBXL7	-1.496313038	6E-07
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ENSG00000174013	FBXO45	2.422961044	5E-25
ENSG00000112029	FBXO5	1.319291681	5E-09
ENSG00000171931	FBXW10	2.083221151	0.0184
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ENSG00000162747	FCGR3B	2.682681241	7E-07
ENSG00000104870	FCGRT	-1.300330861	1E-25
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ENSG00000197948	FCHSD1	1.278215589	5E-12
ENSG00000160339	FCN2	-4.931840736	1E-06
ENSG00000132185	FCRLA	2.407562997	2E-06
ENSG00000162746	FCRLB	2.126451565	8E-05
ENSG00000101311	FERMT1	1.211855464	1E-14
ENSG00000073712	FERMT2	-2.036697076	5E-16
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ENSG00000126262	FFAR2	1.254167161	0.006
ENSG00000186188	FFAR4	-2.213287601	1E-19
ENSG00000146192	FGD2	1.42047214	1E-06
ENSG00000154783	FGD5	-1.505733445	3E-08
ENSG00000113578	FGF1	-2.304835788	2E-09
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ENSG00000129682	FGF13	-2.666205255	3E-23
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ENSG00000196468	FGF16	-3.245094605	0.0027
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ENSG00000077782	FGFR1	-1.763205225	2E-11
ENSG00000127418	FGFRL1	-1.828414878	2E-15
ENSG00000127951	FGL2	-1.322093126	2E-05
ENSG00000137460	FHDC1	1.642364565	1E-16
ENSG00000022267	FHL1	-3.33225818	4E-32
ENSG00000112214	FHL5	-2.067324324	2E-06
ENSG00000134775	FHOD3	-1.386268056	3E-05
ENSG00000176971	FIBIN	-1.92827098	7E-09
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ENSG00000131781	FMO5	-1.9565697	2E-13
ENSG00000122176	FMOD	-2.36243792	3E-17
ENSG00000115414	FN1	-1.091107474	0.0018
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ENSG00000168269	FOXI1	-3.245936943	2E-17
ENSG00000186766	FOXI2	-2.607260026	1E-05
ENSG00000214336	FOXI3	-1.82135522	0.0275
ENSG00000111206	FOXM1	1.661353275	5E-07
ENSG00000109101	FOXN1	1.422624822	6E-07
ENSG00000204060	FOXO6	-1.185679294	0.0058
ENSG00000049768	FOXP3	1.619343465	0.002
ENSG00000179772	FOXS1	-1.251158626	3E-06
ENSG00000259030	FPGT-TNNI3K	-2.35262941	2E-08
ENSG00000171051	FPR1	1.934356373	0.0304
ENSG00000171049	FPR2	4.133215132	0.0002
ENSG00000164946	FREM1	-2.341230206	7E-13
ENSG00000153303	FRMD1	-4.32490338	1E-11
ENSG00000165694	FRMD7	-3.734246865	2E-05
ENSG00000126391	FRMD8	1.2166006	7E-08
ENSG00000070601	FRMPD1	1.418206311	2E-07
ENSG00000260230	FRRS1L	-2.837136043	4E-06
ENSG00000162998	FRZB	-2.698365359	3E-24
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ENSG00000134363	FST	-1.487434738	5E-06
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ENSG00000174951	FUT1	1.532731872	2E-09
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ENSG00000171124	FUT3	2.810448164	2E-13
ENSG00000172461	FUT9	-4.005513038	8E-14

ENSG00000266964	FXD1	-2.987063849	2E-05
ENSG00000137726	FXD6	-1.748324644	7E-12
ENSG00000010810	FYN	-1.189573815	2E-09
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ENSG00000174804	FZD4	-2.990550788	6E-25
ENSG00000155760	FZD7	-1.745069008	1E-16
ENSG00000177283	FZD8	-1.453782509	9E-12
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ENSG00000119514	GALNT12	-1.57249422	4E-14
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ENSG00000158089	GALNT14	1.684602086	3E-05
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ENSG00000100626	GALNT16	-2.59714179	1E-13
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ENSG00000106105	GARS	1.646599025	2E-22
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ENSG00000176928	GCNT4	2.574582669	2E-19
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ENSG00000168621	GDNF	2.312051619	3E-09
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ENSG00000101003	GINS1	1.509767076	5E-10
ENSG00000131153	GINS2	1.524247936	2E-07
ENSG00000181938	GINS3	1.303996559	6E-15
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ENSG00000155269	GPR78	2.408765478	0.0147
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ENSG00000136732	GYPC	-2.018798285	1E-19
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ENSG00000113648	H2AFY	1.164127806	8E-17
ENSG00000164032	H2AFZ	1.218762674	4E-08
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ENSG00000137309	HMGA1	1.139122192	2E-06
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ENSG00000029993	HMGB3	1.260616083	2E-07
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ENSG00000134709	HOOK1	1.480222332	7E-26
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ENSG00000164120	HPGD	1.738686439	3E-11
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ENSG00000172987	HPSE2	-2.874617484	2E-15
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ENSG00000108622	ICAM2	-1.016446945	5E-07
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ENSG00000137965	IFI44	1.503791594	5E-14
ENSG00000126709	IFI6	1.90993524	6E-14

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ENSG00000138039	LHCGR	-3.674653364	5E-08
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ENSG00000106852	LHX6	-1.330433689	5E-06
ENSG00000128342	LIF	-1.78322984	0.0002
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ENSG00000244482	LILRA6	-1.370707789	0.0099
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ENSG00000111052	LIN7A	-1.536002915	0.0005
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ENSG00000213171	LINGO4	-3.148917211	3E-06
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ENSG00000173239	LIPM	2.265318961	4E-11
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ENSG00000071282	LMCD1	-1.747356102	4E-15
ENSG00000113368	LMNB1	1.485796973	2E-05
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ENSG00000048540	LMO3	-3.021189515	7E-18
ENSG00000163431	LMOD1	-2.689031375	6E-30
ENSG00000163380	LMOD3	-1.496388978	0.0418
ENSG00000162761	LMX1A	-3.536011698	0.0003
ENSG00000136944	LMX1B	-1.123750527	7E-06
ENSG00000170500	LONRF2	-2.691188484	5E-10
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ENSG00000203782	LOR	3.380373368	3E-09
ENSG00000113083	LOX	-1.254775497	0.0006
ENSG00000167210	LOXHD1	1.300262713	0.0195
ENSG00000138131	LOXL4	-2.687995676	2E-17
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ENSG00000171517	LPAR3	1.179599289	1E-06
ENSG00000175445	LPL	-4.31414697	5E-26
ENSG00000121207	LRAT	1.369428573	0.0196
ENSG00000130224	LRCH2	-1.861606939	9E-05

ENSG00000156564	LRFN2	1.756000482	0.0196
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ENSG00000148655	LRMDA	-1.153919968	4E-05
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ENSG00000204950	LRRC10B	-2.034175825	0.0031
ENSG00000128606	LRRC17	-1.176315459	0.0128
ENSG00000165383	LRRC18	-2.062932151	0.0322
ENSG00000163827	LRRC2	-2.425078062	4E-09
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ENSG00000175489	LRRC25	-1.070093329	0.0194
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ENSG00000128594	LRRC4	2.472201193	1E-08
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ENSG00000127399	LRRC61	1.677379853	7E-07
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ENSG00000175928	LRRN1	-1.812094371	9E-06
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ENSG00000159374	M1AP	-2.153345216	6E-05
ENSG00000183833	MAATS1	-2.932228584	4E-12
ENSG00000180660	MAB21L1	-4.291185714	0.0001
ENSG00000172264	MACROD2	-1.964678685	3E-08
ENSG00000164109	MAD2L1	1.566091194	1E-07
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ENSG00000204103	MAFB	1.350742345	3E-10
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ENSG00000172005	MAL	-1.083143154	2E-05
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ENSG00000144063	MALL	1.696611483	6E-06
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ENSG00000117643	MAN1C1	-1.035921736	0.0042
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ENSG00000078018	MAP2	1.249910556	3E-08
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ENSG00000135525	MAP7	1.104618779	3E-17
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ENSG00000165304	MELK	1.917824781	7E-14
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ENSG00000100139	MICALL1	1.54321035	2E-16
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ENSG00000134042	MRO	-3.054876764	3E-05
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ENSG00000138207	RBP4	-5.21216221	5E-14
ENSG00000139194	RBP5	-1.491556883	0.0049
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ENSG00000166831	RBPMS2	-2.318985686	1E-22
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ENSG00000198771	RCSD1	-1.367990071	6E-06
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ENSG00000111404	RERGL	-3.006044701	3E-11
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ENSG00000182175	RGMA	-1.528672391	9E-21
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ENSG00000186479	RGS7BP	-2.949256061	9E-11
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ENSG00000173156	RHOD	2.517647466	2E-16
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ENSG00000165799	RNASE7	2.494941745	3E-16
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ENSG00000112562	SMOC2	-1.358958746	6E-08
ENSG00000088826	SMOX	2.773148906	1E-11
ENSG00000135587	SMPD2	1.548070856	3E-17
ENSG00000103056	SMPD3	2.688293549	7E-18
ENSG00000132639	SNAP25	1.450001977	0.0374
ENSG00000145335	SNCA	-1.252063461	6E-09
ENSG00000064692	SNCAIP	-1.000806473	0.0003
ENSG00000074317	SNCB	5.169723278	5E-11
ENSG00000173267	SNCG	-2.539376668	1E-31
ENSG00000162804	SNED1	-1.649966424	9E-09
ENSG00000182600	SNORC	-2.153041321	2E-19
ENSG00000143977	SNRPG	1.106088658	2E-06
ENSG00000128739	SNRPN	-1.276759655	0.0084
ENSG00000172164	SNTB1	-1.508399416	1E-10
ENSG00000112320	SOBP	-2.162865969	2E-21
ENSG00000184557	SOCS3	1.294324543	0.0019
ENSG00000109610	SOD3	-3.01115172	4E-36
ENSG00000095637	SORBS1	-2.947903008	7E-24
ENSG00000154556	SORBS2	-2.222467497	9E-23
ENSG00000156395	SORCS3	-2.78832614	0.0002
ENSG00000137642	SORL1	-1.299839343	3E-06
ENSG00000198944	SOWAHA	-2.252166703	0.0067
ENSG00000198142	SOWAHC	1.043597629	7E-13
ENSG00000100146	SOX10	-1.857078816	3E-15
ENSG00000143842	SOX13	-1.834437098	1E-29
ENSG00000129194	SOX15	1.744404061	2E-08
ENSG00000125285	SOX21	1.661162929	6E-07
ENSG00000134532	SOX5	-2.340212449	2E-11
ENSG00000171056	SOX7	1.303043514	1E-09
ENSG00000005513	SOX8	-3.089499611	9E-24
ENSG00000125398	SOX9	-1.382872219	2E-08
ENSG00000079263	SP140	-1.38122359	0.0002
ENSG00000204335	SP5	-1.665139592	0.0134
ENSG00000189120	SP6	1.457286706	1E-05
ENSG00000235387	SPAAR	-2.770954346	6E-10
ENSG00000177202	SPACA4	2.715324383	0.023
ENSG00000182310	SPACA6	-1.219772448	1E-05
ENSG00000104450	SPAG1	1.088710333	1E-08
ENSG00000077327	SPAG6	-3.031868486	0.0002
ENSG00000137098	SPAG8	-2.023172897	0.0041
ENSG00000152583	SPARCL1	-1.779260936	6E-17
ENSG00000186451	SPATA12	2.218383832	0.0081
ENSG00000006282	SPATA20	-1.023871645	3E-10

ENSG00000170469	SPATA24	1.040591032	0.0008
ENSG00000145757	SPATA9	-2.551791373	0.0008
ENSG00000161888	SPC24	1.425407096	2E-06
ENSG00000152253	SPC25	1.889917739	8E-08
ENSG00000124664	SPDEF	-3.667447145	4E-20
ENSG00000152582	SPEF2	-1.948003621	1E-08
ENSG00000072195	SPEG	-1.191938326	3E-07
ENSG00000153820	SPHKAP	-1.510207999	0.0051
ENSG00000186767	SPIN4	1.086488983	0.0046
ENSG00000214510	SPINK13	4.79248329	2E-05
ENSG00000178172	SPINK6	5.85086389	1E-10
ENSG00000145879	SPINK7	6.391738381	2E-28
ENSG00000204909	SPINK9	7.70144144	2E-19
ENSG00000183018	SPNS2	1.138394668	3E-05
ENSG00000152377	SPOCK1	-2.260692822	2E-12
ENSG00000118785	SPP1	-3.062302111	3E-06
ENSG00000169474	SPRR1A	8.415767634	4E-26
ENSG00000169469	SPRR1B	7.961842896	8E-14
ENSG00000241794	SPRR2A	11.73990088	3E-25
ENSG00000196805	SPRR2B	7.700076954	5E-15
ENSG00000163216	SPRR2D	7.041736506	2E-13
ENSG00000203785	SPRR2E	5.775129303	4E-19
ENSG00000244094	SPRR2F	5.257038014	3E-06
ENSG00000159516	SPRR2G	4.657718178	3E-30
ENSG00000163209	SPRR3	9.179143609	2E-16
ENSG00000184148	SPRR4	2.970345944	1E-10
ENSG00000283227	SPRR5	2.241627327	0.0054
ENSG00000070182	SPTB	-2.546341026	2E-08
ENSG00000115306	SPTBN1	-1.518615801	3E-15
ENSG00000160460	SPTBN4	-2.337503986	4E-12
ENSG00000134548	SPX	-4.77590468	9E-09
ENSG00000104549	SQLE	2.000687018	7E-25
ENSG00000137767	SQOR	1.039810087	0.0003
ENSG00000183888	SRARP	-4.101975358	0.0005
ENSG00000128039	SRD5A3	1.030414172	3E-11
ENSG00000196220	SRGAP3	-1.048281206	0.0002
ENSG00000185739	SRL	-2.067904693	1E-09
ENSG00000096063	SRPK1	1.213822811	7E-07
ENSG00000184343	SRPK3	-2.921583823	0.0002
ENSG00000101955	SRPX	-1.600708976	1E-09
ENSG00000102359	SRPX2	-1.846073478	3E-09
ENSG00000139767	SRRM4	-4.382717161	0.0001
ENSG00000111786	SRSF9	1.017611359	6E-08
ENSG00000179954	SSC5D	-2.112445476	3E-06
ENSG00000123096	SSPN	-2.254535326	4E-23
ENSG00000197558	SSPO	-1.501469672	0.0007
ENSG00000139874	SSTR1	-2.116990211	0.0008
ENSG00000180616	SSTR2	-1.144986202	0.0013

ENSG00000149418	ST14	1.431679917	1E-09
ENSG00000008513	ST3GAL1	-1.441837688	3E-08
ENSG00000110080	ST3GAL4	-1.088560902	6E-07
ENSG00000073849	ST6GAL1	-1.679490736	3E-09
ENSG00000070526	ST6GALNAC1	1.112690324	0.0367
ENSG00000117069	ST6GALNAC5	-2.528110836	3E-10
ENSG00000140557	ST8SIA2	5.248049522	1E-13
ENSG00000148488	ST8SIA6	-1.140825855	0.027
ENSG00000144681	STAC	-1.623331008	7E-06
ENSG00000141750	STAC2	-1.958284622	6E-11
ENSG00000066923	STAG3	-1.302598857	0.0042
ENSG00000136738	STAM	1.073868608	7E-06
ENSG00000178078	STAP2	1.079017048	3E-08
ENSG00000214530	STARD10	1.026054481	5E-09
ENSG00000133121	STARD13	-1.238982093	6E-08
ENSG00000164211	STARD4	1.764025289	1E-08
ENSG00000130052	STARD8	-1.01565592	2E-05
ENSG00000159433	STARD9	-1.458855441	5E-08
ENSG00000138378	STAT4	-1.336342169	0.0002
ENSG00000126561	STAT5A	-1.326633485	4E-13
ENSG00000118804	STBD1	-2.05708658	0.0199
ENSG00000105889	STEAP1B	3.654041512	4E-09
ENSG00000157214	STEAP2	-1.72402018	3E-13
ENSG00000123473	STIL	1.473190957	1E-07
ENSG00000196335	STK31	-1.793622206	0.003
ENSG00000169302	STK32A	-2.406343751	2E-27
ENSG00000152953	STK32B	-1.414337347	4E-06
ENSG00000130413	STK33	-1.606058423	0.0141
ENSG00000198870	STKLD1	-1.236510802	0.0009
ENSG00000104435	STMN2	-1.568620819	2E-05
ENSG00000230873	STMND1	-2.393880239	0.0251
ENSG00000243244	STON1	-1.068822993	3E-05
ENSG00000140022	STON2	1.589324125	4E-18
ENSG00000239605	STPG4	-3.222119054	0.0003
ENSG00000242866	STRC	-2.539931673	0.0002
ENSG00000128578	STRIP2	2.117700838	3E-05
ENSG00000203685	STUM	-2.3357136	4E-08
ENSG00000060140	STYK1	1.313548879	0.0009
ENSG00000113387	SUB1	1.042176204	4E-05
ENSG00000198829	SUCNR1	-1.363432533	0.0014
ENSG00000196562	SULF2	1.448124558	1E-18
ENSG00000196502	SULT1A1	-2.103677828	2E-15
ENSG00000197165	SULT1A2	-2.871317839	4E-05
ENSG00000198075	SULT1C4	-2.468526131	1E-06
ENSG00000088002	SULT2B1	3.138007292	6E-15
ENSG00000139531	SUOX	-1.156989411	1E-11
ENSG00000099994	SUSD2	-1.346353159	0.0013
ENSG00000173705	SUSD5	-1.390975298	7E-05

ENSG00000185518	SV2B	-1.243146117	0.0004
ENSG00000165124	SVEP1	-3.368065394	2E-17
ENSG00000198168	SVIP	-1.450320553	2E-10
ENSG00000157703	SVOPL	-2.446808457	3E-06
ENSG00000147642	SYBU	-1.626665052	1E-15
ENSG00000198765	SYCP1	-2.813014566	0.0012
ENSG00000196074	SYCP2	-1.331047539	4E-06
ENSG00000153157	SYCP2L	-1.65323423	0.0012
ENSG00000097096	SYDE2	-2.247671514	1E-10
ENSG00000165025	SYK	1.032570068	1E-16
ENSG00000157152	SYN2	-1.947669178	4E-11
ENSG00000185666	SYN3	-2.75290025	0.0006
ENSG00000101463	SYNDIG1	-3.240816013	0.0002
ENSG00000183379	SYNDIG1L	-4.007735975	0.0001
ENSG00000131018	SYNE1	-2.076968994	8E-12
ENSG00000176438	SYNE3	-1.859245442	3E-11
ENSG00000181392	SYNE4	-1.698362862	0.0008
ENSG00000182253	SYNM	-2.370523016	8E-17
ENSG00000171992	SYNPO	-1.152686778	3E-08
ENSG00000172403	SYNPO2	-1.855922177	3E-15
ENSG00000166317	SYNPO2L	4.439974989	6E-20
ENSG00000102003	SYP	-1.216924904	3E-07
ENSG00000143028	SYPL2	-1.723013269	8E-05
ENSG00000067715	SYT1	-1.880300414	7E-06
ENSG00000019505	SYT13	-1.52150961	2E-09
ENSG00000103528	SYT17	-1.714822511	2E-05
ENSG00000170743	SYT9	-3.014862222	0.0095
ENSG00000166863	TAC3	-2.607618021	0.0037
ENSG00000147526	TACC1	-1.475772607	1E-13
ENSG00000013810	TACC3	1.09255688	0.0003
ENSG00000115353	TACR1	-1.460564989	0.0003
ENSG00000075073	TACR2	-1.525472857	0.0351
ENSG00000149591	TAGLN	-1.885222638	2E-19
ENSG00000158710	TAGLN2	1.095773735	2E-06
ENSG00000144834	TAGLN3	3.653981618	6E-05
ENSG00000113407	TARS	1.095313469	2E-10
ENSG00000127364	TAS2R4	-1.746780078	6E-05
ENSG00000166220	TBATA	-3.297183244	6E-05
ENSG00000167291	TBC1D16	-1.080329428	1E-06
ENSG00000095383	TBC1D2	1.077262523	6E-06
ENSG00000162065	TBC1D24	-1.30092015	2E-10
ENSG00000109436	TBC1D9	-1.28857943	3E-06
ENSG00000092607	TBX15	-2.518800404	9E-20
ENSG00000112837	TBX18	-2.224891436	7E-12
ENSG00000073861	TBX21	-1.814341522	0.0059
ENSG00000122145	TBX22	-3.466867885	0.0007
ENSG00000135111	TBX3	-1.756923897	4E-19
ENSG00000089225	TBX5	-1.510633851	0.0004

ENSG00000006638	TBXA2R	-1.272765372	0.001
ENSG00000170379	TCAF2	1.449613784	5E-08
ENSG00000173991	TCAP	-1.421484229	0.0023
ENSG00000204219	TCEA3	-1.023087524	0.0008
ENSG00000184905	TCEAL2	-3.123574815	8E-10
ENSG00000196507	TCEAL3	-1.085875301	4E-08
ENSG00000204065	TCEAL5	-2.262548707	0.0001
ENSG00000204071	TCEAL6	-4.051928042	0.0002
ENSG00000182916	TCEAL7	-1.337274211	0.0004
ENSG00000152284	TCF7L1	-1.464801437	1E-17
ENSG00000148737	TCF7L2	-1.230021231	5E-08
ENSG00000134827	TCN1	4.195944663	1E-08
ENSG00000185339	TCN2	-1.279880723	2E-09
ENSG00000242220	TCP10L	-2.769256064	0.0254
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ENSG00000151790	TDO2	3.710658817	3E-06
ENSG00000095627	TDRD1	-2.408421723	0.02
ENSG00000163239	TDRD10	-1.208711014	0.0002
ENSG00000180113	TDRD6	-1.214480447	0.0027
ENSG00000197905	TEAD4	1.508230473	7E-06
ENSG00000162062	TEDC2	1.154366478	0.0124
ENSG00000120156	TEK	-1.229573602	5E-08
ENSG00000125409	TEKT3	-1.450793181	0.0062
ENSG00000009694	TENM1	-2.853715766	3E-11
ENSG00000145934	TENM2	1.238343294	4E-07
ENSG00000158246	TENT5B	1.653487596	4E-08
ENSG00000183508	TENT5C	-1.863070446	3E-07
ENSG00000159648	TEPP	1.364245441	0.006
ENSG00000088992	TESC	-2.35170894	8E-11
ENSG00000138336	TET1	-1.693136964	3E-07
ENSG00000131126	TEX101	4.563698473	1E-08
ENSG00000133863	TEX15	3.377931963	0.0074
ENSG00000091513	TF	-2.520482053	1E-17
ENSG00000008196	TFAP2B	-1.500255535	3E-05
ENSG00000115112	TFCP2L1	-1.66460253	4E-11
ENSG00000198176	TFDP1	1.17200717	8E-15
ENSG00000105967	TFEC	-1.096479976	0.0044
ENSG00000003436	TFPI	-1.187770916	7E-05
ENSG00000105825	TFPI2	-2.813212624	8E-10
ENSG00000042832	TG	-3.471605078	2E-26
ENSG00000163235	TGFA	1.099771934	0.0009
ENSG00000163513	TGFBR2	-1.293771845	4E-09
ENSG00000069702	TGFBR3	-1.977303807	6E-13
ENSG00000092295	TGM1	4.081429745	9E-23
ENSG00000198959	TGM2	-1.423707622	0.0002
ENSG00000125780	TGM3	3.54218796	2E-18
ENSG00000163810	TGM4	3.668442286	1E-05
ENSG00000104055	TGM5	1.558889823	9E-08

ENSG00000180176	TH	2.538521503	4E-05
ENSG00000178726	THBD	1.416452285	8E-07
ENSG00000137801	THBS1	-1.20810612	9E-05
ENSG00000113296	THBS4	-1.477513309	1E-05
ENSG00000196407	THEM5	3.160421517	3E-08
ENSG00000051596	THOC3	1.065172078	4E-07
ENSG00000090534	THPO	-2.406726852	0.0007
ENSG00000126351	THRA	-1.343947221	8E-12
ENSG00000151365	THRSP	-3.543531713	1E-08
ENSG00000005108	THSD7A	-1.006312599	0.0017
ENSG00000144229	THSD7B	-1.901850329	0.0124
ENSG00000156299	TIAM1	1.173804507	1E-19
ENSG00000146426	TIAM2	-1.110029032	9E-09
ENSG00000140534	TICRR	2.018801679	8E-08
ENSG00000078237	TIGAR	1.532118296	4E-07
ENSG00000140993	TIGD7	-1.287101342	2E-11
ENSG00000145850	TIMD4	-3.208002706	0.0014
ENSG00000099800	TIMM13	1.255531507	2E-08
ENSG00000150779	TIMM8B	1.101728496	4E-07
ENSG00000035862	TIMP2	-1.757652477	8E-11
ENSG00000100234	TIMP3	-2.854990348	2E-24
ENSG00000157150	TIMP4	-3.603143309	6E-30
ENSG00000142910	TINAGL1	-1.762304477	2E-22
ENSG00000167900	TK1	1.783147759	6E-07
ENSG00000166548	TK2	-1.374430739	2E-19
ENSG00000007350	TKTL1	2.356563135	5E-05
ENSG00000140950	TLDC1	1.335019963	6E-09
ENSG00000065717	TLE2	-2.311019154	6E-24
ENSG00000140332	TLE3	1.05619921	3E-07
ENSG00000104953	TLE6	-2.687460841	3E-06
ENSG00000038295	TLL1	-1.397495188	6E-06
ENSG00000095587	TLL2	2.059866281	0.0026
ENSG00000171914	TLN2	-2.260569057	6E-28
ENSG00000136869	TLR4	-1.064336483	0.0016
ENSG00000163762	TM4SF18	-1.003994346	0.0008
ENSG00000136404	TM6SF1	-1.290786269	5E-06
ENSG00000149488	TMC2	-3.942956307	3E-05
ENSG00000167608	TMC4	-2.091004376	7E-15
ENSG00000170537	TMC7	1.110283574	0.0081
ENSG00000162542	TMCO4	-1.144905022	6E-15
ENSG00000144339	TMEFF2	-1.860082075	0.0435
ENSG00000166292	TMEM100	-1.810103687	9E-11
ENSG00000185332	TMEM105	1.424699425	2E-05
ENSG00000144868	TMEM108	-2.378091268	0.0004
ENSG00000139173	TMEM117	1.889576579	4E-21
ENSG00000184986	TMEM121	-1.456163605	0.0117
ENSG00000179178	TMEM125	1.369792028	2E-05
ENSG00000166448	TMEM130	-1.544671357	0.0198

ENSG00000139364	TMEM132B	-1.183492458	0.0071
ENSG00000181234	TMEM132C	-4.259058741	1E-12
ENSG00000151952	TMEM132D	2.735571886	0.0295
ENSG00000181264	TMEM136	-1.07037661	0.0004
ENSG00000178826	TMEM139	-1.9612111	4E-20
ENSG00000146859	TMEM140	-1.561628622	1E-10
ENSG00000180061	TMEM150B	-1.571485368	0.0302
ENSG00000249242	TMEM150C	-1.543845728	5E-08
ENSG00000170006	TMEM154	1.49810152	1E-26
ENSG00000249992	TMEM158	1.186051654	0.041
ENSG00000163449	TMEM169	-1.10200475	0.0053
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ENSG00000002933	TMEM176A	-1.327343124	9E-07
ENSG00000106565	TMEM176B	-1.543497122	5E-10
ENSG00000152154	TMEM178A	-1.764225885	9E-07
ENSG00000261115	TMEM178B	-2.307393672	4E-09
ENSG00000164855	TMEM184A	1.228665121	3E-06
ENSG00000206432	TMEM200C	-2.712062091	9E-09
ENSG00000065600	TMEM206	1.437528155	4E-08
ENSG00000206069	TMEM211	-3.162441563	8E-15
ENSG00000214128	TMEM213	-3.237375433	2E-09
ENSG00000186952	TMEM232	-1.480298727	0.0043
ENSG00000134490	TMEM241	1.307082338	7E-10
ENSG00000149582	TMEM25	-1.449904119	6E-14
ENSG00000125355	TMEM255A	-1.376715065	0.0026
ENSG00000169758	TMEM266	-1.420838843	0.0009
ENSG00000204161	TMEM273	-1.030200707	1E-06
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ENSG00000171227	TMEM37	-1.618750672	4E-13
ENSG00000072954	TMEM38A	-1.371559351	1E-11
ENSG00000088726	TMEM40	2.63335124	6E-17
ENSG00000181458	TMEM45A	2.273764938	7E-15
ENSG00000151715	TMEM45B	2.786188731	9E-22
ENSG00000147027	TMEM47	-2.129559914	4E-16
ENSG00000121900	TMEM54	2.204980291	9E-14
ENSG00000152078	TMEM56	-1.844883839	1E-05
ENSG00000196187	TMEM63A	-1.17851286	1E-09
ENSG00000163472	TMEM79	2.228784595	2E-13
ENSG00000151117	TMEM86A	2.367288647	1E-13
ENSG00000137103	TMEM8B	-2.396476582	5E-26
ENSG00000136842	TMOD1	-2.245478262	1E-17
ENSG00000187054	TMPRSS11A	4.278233568	0.0013
ENSG00000153802	TMPRSS11D	7.863514381	2E-23
ENSG00000198092	TMPRSS11F	1.759733715	6E-06
ENSG00000137747	TMPRSS13	1.873396349	2E-14
ENSG00000184012	TMPRSS2	-3.551915258	5E-17
ENSG00000160183	TMPRSS3	-2.955444976	1E-13
ENSG00000137648	TMPRSS4	4.093422108	4E-26

ENSG00000166682	TMPRSS5	-1.19754861	0.0051
ENSG00000187045	TMPRSS6	-2.832065	0.0002
ENSG00000133687	TMTC1	-1.843007344	2E-12
ENSG00000139324	TMTC3	1.244541846	4E-10
ENSG00000041982	TNC	1.008482093	0.002
ENSG00000183578	TNFAIP8L3	1.57472128	3E-09
ENSG00000164761	TNFRSF11B	-1.258469443	0.0091
ENSG00000028137	TNFRSF1B	-1.000414903	0.0003
ENSG00000146072	TNFRSF21	1.617801592	1E-07
ENSG00000120949	TNFRSF8	-1.119466575	0.0394
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ENSG00000239697	TNFSF12	-1.732626753	6E-16
ENSG00000125657	TNFSF9	1.054095918	0.0107
ENSG00000154310	TNIK	-1.237650004	7E-05
ENSG00000050730	TNIP3	1.464617045	0.018
ENSG000000000005	TNMD	-4.320453429	7E-33
ENSG00000120332	TNN	-2.295514887	1E-07
ENSG00000130598	TNNI2	-1.058211264	0.009
ENSG00000105048	TNNT1	1.479438964	4E-07
ENSG00000118194	TNNT2	-1.097874877	0.0002
ENSG00000130595	TNNT3	-1.666509205	1E-05
ENSG00000078687	TNRC6C	-1.313209592	6E-09
ENSG00000079308	TNS1	-2.429166012	1E-26
ENSG00000111077	TNS2	-2.132182587	6E-25
ENSG00000136205	TNS3	-1.789824995	4E-21
ENSG00000168477	TNXB	-3.222861821	3E-17
ENSG00000189350	TOGARAM2	-2.072284768	2E-06
ENSG00000198113	TOR4A	1.532176318	0.0052
ENSG00000103460	TOX3	-3.320496343	3E-05
ENSG00000115129	TP53I3	1.220499076	3E-07
ENSG00000124251	TP53TG5	-2.563431713	0.0021
ENSG00000073282	TP63	1.616887277	9E-18
ENSG00000146242	TPBG	2.141385384	2E-41
ENSG00000111669	TPI1	1.171171899	1E-06
ENSG00000140416	TPM1	-1.177823752	9E-12
ENSG00000198467	TPM2	-1.79681645	1E-17
ENSG00000115705	TPO	-2.316737438	6E-08
ENSG00000171368	TPPP	-1.835927685	4E-06
ENSG00000179636	TPPP2	-2.613887607	0.0276
ENSG00000088325	TPX2	1.745605474	3E-09
ENSG00000186854	TRABD2A	-1.004819833	0.0055
ENSG00000269113	TRABD2B	-1.070359107	2E-06
ENSG00000211870	TRAJ19	-1.597086984	0.0007
ENSG00000211858	TRAJ31	-2.124238687	0.0018
ENSG00000115993	TRAK2	-1.084387875	5E-06
ENSG00000184811	TRARG1	-5.844892345	2E-12
ENSG00000211829	TRDC	-1.810667511	0.0002
ENSG00000186439	TRDN	-4.446867619	7E-11

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ENSG00000095970	TREM2	-2.642306705	3E-13
ENSG00000112195	TREML2	3.482317654	0.0001
ENSG00000183479	TREX2	2.91030328	8E-14
ENSG00000072657	TRHDE	-1.769840444	2E-08
ENSG00000101255	TRIB3	1.638004487	1E-09
ENSG00000204613	TRIM10	2.058257107	0.0019
ENSG00000204610	TRIM15	4.082453669	6E-07
ENSG00000221926	TRIM16	1.065060521	7E-08
ENSG00000109654	TRIM2	-1.426122559	9E-08
ENSG00000137699	TRIM29	1.208187934	8E-08
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ENSG00000213186	TRIM59	1.051060529	9E-05
ENSG00000116525	TRIM62	1.21288129	8E-08
ENSG00000177238	TRIM72	2.21231763	1E-07
ENSG00000171206	TRIM8	-1.140264655	3E-12
ENSG00000100505	TRIM9	-1.925355776	3E-05
ENSG00000071539	TRIP13	1.705168715	3E-06
ENSG00000250305	TRMT9B	-1.659612174	1E-05
ENSG00000135451	TROAP	1.01593153	0.0004
ENSG00000144935	TRPC1	-1.430663983	8E-08
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ENSG00000167723	TRPV3	1.739635359	5E-16
ENSG00000111199	TRPV4	-1.052091272	1E-06
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ENSG00000157514	TSC22D3	-1.579908047	3E-19
ENSG00000165409	TSHR	-2.334268336	0.004
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ENSG00000180543	TSPYL5	-1.505159842	4E-21
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ENSG00000137561	TTPA	-3.627032889	7E-10
ENSG00000118271	TTR	2.904396772	0.0468
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ENSG00000166402	TUB	-1.115759046	0.0001
ENSG00000167553	TUBA1C	2.459077713	1E-14
ENSG00000127824	TUBA4A	2.415376363	8E-13
ENSG00000101162	TUBB1	-2.82555139	0.0009
ENSG00000137267	TUBB2A	2.084364284	3E-08
ENSG00000258947	TUBB3	4.459733393	7E-06
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ENSG00000131462	TUBG1	1.410539679	2E-08
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ENSG00000136810	TXN	2.291476692	9E-17
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ENSG00000144406	UNC80	-2.307522411	0.0013
ENSG00000112494	UNC93A	4.019246344	3E-08
ENSG00000100024	UPB1	-1.273379974	0.0213
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ENSG00000243566	UPK3B	-1.416233991	4E-06
ENSG00000183696	UPP1	2.139881447	0.0002
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ENSG00000058056	USP13	-1.186079447	4E-08
ENSG00000036672	USP2	1.758504378	9E-10
ENSG00000170185	USP38	1.006641919	5E-06
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ENSG00000129204	USP6	-2.528780031	3E-07
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ENSG00000038427	VCAN	-1.298783635	0.0014
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ENSG00000062716	VMP1	1.231851414	1E-08
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ENSG00000181722	ZBTB20	-1.734028181	2E-09
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ENSG00000214652	ZNF727	-2.398512464	1E-04
ENSG00000141579	ZNF750	1.592805846	2E-06
ENSG00000197054	ZNF763	-1.189116272	0.0008
ENSG00000198146	ZNF770	1.366842893	6E-17
ENSG00000188227	ZNF793	-1.142962483	0.0001
ENSG00000167766	ZNF83	-1.243615084	5E-15
ENSG00000127903	ZNF835	-1.996371424	0.0007
ENSG00000223547	ZNF844	-1.053230298	3E-06
ENSG00000236609	ZNF853	-2.367561083	4E-14
ENSG00000106479	ZNF862	-1.02976938	8E-06
ENSG00000257446	ZNF878	3.394946483	8E-05
ENSG00000213973	ZNF99	-2.443331935	0.0417
ENSG00000180233	ZNRF2	1.151168209	2E-06
ENSG00000121413	ZSCAN18	-2.217941919	4E-14
ENSG00000187987	ZSCAN23	-1.439472503	0.0133
ENSG00000235109	ZSCAN31	1.18759771	6E-14
ENSG00000180532	ZSCAN4	-2.456074579	0.0386
ENSG00000132003	ZSWIM4	1.085427779	1E-07
ENSG00000162415	ZSWIM5	-1.14002282	0.0001
ENSG00000174442	ZWILCH	1.122633676	2E-14
ENSG00000122952	ZWINT	1.4306765	3E-09
ENSG00000203995	ZYG11A	2.713515695	6E-07

Table

S5: Full

GeneID	GeneName	logFC (PN_Lesional / Healthy_Control)	padj
ENSG00000121410	A1BG	-2.715435796	0.008843
ENSG00000175899	A2M	-1.377158318	1.43E-08
ENSG00000166535	A2ML1	2.810661375	2.6E-24
ENSG00000128274	A4GALT	-1.573435042	2.27E-07
ENSG00000114771	AADAC	2.595391034	7.07E-06
ENSG00000197953	AADACL2	1.951336388	4.45E-12
ENSG00000109576	AADAT	-1.254144867	2.9E-05
ENSG00000087884	AAMDC	-1.258397014	4.03E-11
ENSG00000205002	AARD	-1.862947229	8.92E-05
ENSG00000183044	ABAT	-1.446893035	5.84E-07
ENSG00000154263	ABCA10	-1.829101352	1.24E-06
ENSG00000144452	ABCA12	2.748538667	4.4E-28
ENSG00000107331	ABCA2	-1.744826228	8.6E-09
ENSG00000167972	ABCA3	-1.948031519	8.86E-15
ENSG00000154262	ABCA6	-2.121239957	1.76E-08
ENSG00000141338	ABCA8	-2.711575432	2.83E-11
ENSG00000154258	ABCA9	-3.136837771	1.18E-11
ENSG00000073734	ABCB11	-2.822785128	1.85E-08
ENSG00000005471	ABCB4	-1.476647796	0.001164
ENSG00000091262	ABCC6	-3.710550629	2.85E-14
ENSG00000069431	ABCC9	-1.714328654	5.35E-08
ENSG00000173208	ABCD2	-3.50208718	3.55E-05
ENSG00000160179	ABCG1	1.169604371	0.000296
ENSG00000172350	ABCG4	6.31137008	4.76E-31
ENSG00000143994	ABHD1	-2.446048836	0.000133
ENSG00000136379	ABHD17C	1.377006406	9.09E-09
ENSG00000154175	ABI3BP	-1.889778962	2.82E-07
ENSG00000173210	ABLIM3	-1.562992639	1.3E-05
ENSG00000175164	ABO	-1.798885106	3.87E-08
ENSG00000284292	AC004922.1	2.923489084	0.029222
ENSG00000251537	AC005324.3	3.415893586	0.001374
ENSG00000258881	AC007040.2	-3.154211358	0.002724
ENSG00000277196	AC007325.2	-1.763995122	0.004475
ENSG00000278817	AC007325.4	-1.332849708	0.027241
ENSG00000277639	AC007906.2	-1.423924014	0.001692
ENSG00000258311	AC009779.3	-1.778566396	0.004839
ENSG00000268041	AC010616.1	-2.69141422	0.043154
ENSG00000230626	AC011005.1	1.79382977	0.00967
ENSG00000269741	AC011473.4	6.61868997	1.18E-14
ENSG00000279765	AC013394.1	-1.240885013	0.001932
ENSG00000267216	AC020915.1	2.52409924	0.033225
ENSG00000262304	AC027796.3	-1.967516287	0.005013
ENSG00000284946	AC068831.7	2.059389153	0.016327
ENSG00000280537	AC068946.1	2.943579749	0.020736
ENSG00000284690	AC079325.2	3.128529232	0.024294
ENSG00000267127	AC090360.1	-3.413040502	3.38E-07
ENSG00000282034	AC106886.5	1.573844372	0.00023

ENSG00000273238	AC116565.1	-2.214944676	6.64E-05
ENSG00000271254	AC240274.1	-1.295375029	0.000353
ENSG00000076555	ACACB	-2.665303158	2.36E-12
ENSG00000115361	ACADL	-2.656719785	3.78E-09
ENSG00000117054	ACADM	-1.024262747	0.000672
ENSG00000196177	ACADSB	-1.210059487	9.51E-06
ENSG00000181513	ACBD4	-1.201799114	1.33E-06
ENSG00000110455	ACCS	-1.196568647	0.000335
ENSG00000159640	ACE	-1.054061863	0.023081
ENSG00000167769	ACER1	2.382561169	9.05E-17
ENSG00000087085	ACHE	-2.238554806	6.18E-05
ENSG00000213088	ACKR1	-1.842739649	5.41E-08
ENSG00000129048	ACKR4	1.12961321	0.00156
ENSG00000122729	ACO1	-1.821297733	3.31E-11
ENSG00000184227	ACOT1	-1.734859323	0.00012
ENSG00000119673	ACOT2	-1.737526727	1.73E-11
ENSG00000177465	ACOT4	-1.336797087	5.97E-06
ENSG00000097021	ACOT7	1.5642202	7.67E-08
ENSG00000168306	ACOX2	-2.601928833	4.44E-16
ENSG00000087008	ACOX3	1.296346826	7.71E-07
ENSG00000102575	ACP5	2.05641854	6.45E-13
ENSG00000162836	ACP6	-1.15849325	2.44E-05
ENSG00000183760	ACP7	4.402290718	2.24E-14
ENSG00000014257	ACPP	2.195280471	1.95E-17
ENSG00000100312	ACR	-2.458229763	0.000278
ENSG00000111644	ACRBP	-1.552595266	0.025581
ENSG00000134940	ACRV1	3.169089704	0.000321
ENSG00000167107	ACSF2	-1.180950929	2.98E-05
ENSG00000151726	ACSL1	-1.037318855	0.000155
ENSG00000197142	ACSL5	-1.424747592	3.32E-06
ENSG00000166743	ACSM1	-1.469020591	0.036093
ENSG00000005187	ACSM3	-1.340283259	0.015878
ENSG00000183549	ACSM5	-3.291485885	7.24E-11
ENSG00000111058	ACSS3	-2.882779369	1.55E-18
ENSG00000143632	ACTA1	-3.153885315	8.85E-05
ENSG00000107796	ACTA2	-2.252678465	3.87E-11
ENSG00000159251	ACTC1	-2.401940626	0.001026
ENSG00000163017	ACTG2	-2.228876364	1.59E-06
ENSG00000182584	ACTL10	2.108660874	0.000164
ENSG00000115091	ACTR3	1.353540026	3.87E-06
ENSG00000106526	ACTR3C	1.407623136	0.000467
ENSG00000184378	ACTRT3	1.862885313	9.61E-05
ENSG00000123612	ACVR1C	-2.268290575	2.4E-06
ENSG00000139567	ACVRL1	-1.100714162	0.005275
ENSG00000132744	ACY3	3.592853947	0.012713
ENSG00000008277	ADAM22	-2.818139374	1.47E-07
ENSG00000114948	ADAM23	3.02511077	1.13E-18
ENSG00000042980	ADAM28	-1.787654224	4.77E-05

ENSG00000197140	ADAM32	-1.737658446	0.002159
ENSG00000149451	ADAM33	-1.724049066	8.4E-05
ENSG00000134028	ADAMDEC1	4.631260007	8.71E-08
ENSG00000142303	ADAMTS10	-1.788575529	3.46E-05
ENSG00000138316	ADAMTS14	1.772734485	0.003747
ENSG00000158859	ADAMTS4	1.37885038	0.002384
ENSG00000154736	ADAMTS5	-1.541461567	0.000135
ENSG00000136378	ADAMTS7	1.330281743	0.002155
ENSG00000156218	ADAMTSL3	-2.543712725	9.06E-31
ENSG00000185761	ADAMTSL5	1.6927074	0.011131
ENSG00000184060	ADAP2	2.986884186	9.35E-28
ENSG00000164742	ADCY1	-1.289427168	9.17E-06
ENSG00000078295	ADCY2	-2.171087864	4.14E-15
ENSG00000129467	ADCY4	-1.204526567	0.001754
ENSG00000173175	ADCY5	-3.111002857	2.16E-21
ENSG00000174233	ADCY6	-1.42493927	1.24E-06
ENSG00000155897	ADCY8	-4.071871942	9.33E-08
ENSG00000078549	ADCYAP1R1	-1.669610967	0.005814
ENSG00000075340	ADD2	-1.893392978	3.34E-05
ENSG00000148700	ADD3	-1.551113336	8.3E-12
ENSG00000020181	ADGRA2	-1.734934395	4.57E-06
ENSG00000121753	ADGRB2	-1.204745167	0.028628
ENSG00000135298	ADGRB3	-1.131814617	0.010747
ENSG00000111452	ADGRD1	-3.027105591	7.2E-08
ENSG00000180264	ADGRD2	-1.66440503	0.018572
ENSG00000153292	ADGRF1	4.714621388	1.98E-08
ENSG00000164393	ADGRF2	2.211596009	4.84E-05
ENSG00000153294	ADGRF4	1.950327563	5.72E-15
ENSG00000069122	ADGRF5	-1.171889855	0.000655
ENSG00000173698	ADGRG2	-3.266699238	4.14E-09
ENSG00000150471	ADGRL3	-1.059919785	0.00042
ENSG00000164199	ADGRV1	-1.70245727	8.53E-05
ENSG00000196616	ADH1B	-4.341885184	1.96E-10
ENSG00000248144	ADH1C	-4.441738476	1.05E-07
ENSG00000172955	ADH6	-2.851624353	0.019465
ENSG00000196344	ADH7	3.856845949	1.45E-10
ENSG00000147576	ADHFE1	-1.596434213	6.23E-08
ENSG00000181092	ADIPOQ	-4.603600689	1.38E-07
ENSG00000148671	ADIRF	-1.567375561	1.98E-08
ENSG00000128165	ADM2	2.432344082	1.53E-06
ENSG00000224420	ADM5	-1.038927901	0.001456
ENSG00000163485	ADORA1	-3.044902562	8.64E-13
ENSG00000144843	ADPRH	-1.12986977	0.000144
ENSG00000120907	ADRA1A	-2.780075713	3.17E-06
ENSG00000150594	ADRA2A	-2.290914	1.43E-09
ENSG00000274286	ADRA2B	-1.550996143	0.017372
ENSG00000184160	ADRA2C	-1.639251382	5.85E-08
ENSG00000043591	ADRB1	-2.671441428	4.34E-12

ENSG00000181026	AEN	1.820689543	8.1E-15
ENSG00000196526	AFAP1	-1.120532807	1.31E-05
ENSG00000169129	AFAP1L2	1.39384402	2.58E-18
ENSG00000155966	AFF2	-2.034847176	0.00022
ENSG00000144218	AFF3	-2.614999269	3.13E-09
ENSG00000135439	AGAP2	1.143779611	0.000168
ENSG00000186094	AGBL4	-2.23637267	0.001224
ENSG00000116771	AGMAT	2.049694826	0.001675
ENSG00000187546	AGMO	-1.917117492	0.02391
ENSG00000155189	AGPAT5	1.029471366	1.7E-06
ENSG00000173467	AGR3	-3.536099711	0.022602
ENSG00000135744	AGT	-3.230781981	4.28E-10
ENSG00000144891	AGTR1	-3.485750897	2.9E-13
ENSG00000169877	AHSP	-2.202822537	0.013099
ENSG00000042286	AIFM2	-1.863802966	1.61E-08
ENSG00000163568	AIM2	2.426711191	5.25E-05
ENSG00000196581	AJAP1	2.057866444	4.43E-09
ENSG00000232434	AJM1	-1.243209963	0.001042
ENSG00000155085	AK9	-1.069602281	0.000655
ENSG00000131016	AKAP12	-2.462421356	1.1E-16
ENSG00000151320	AKAP6	-1.221826151	1.7E-05
ENSG00000198074	AKR1B10	6.596853621	5.51E-32
ENSG00000227471	AKR1B15	6.787813189	9.88E-19
ENSG00000196139	AKR1C3	-1.473586979	3.06E-05
ENSG00000117020	AKT3	-1.256653662	1.61E-05
ENSG00000282988	AL031777.3	2.325954425	0.015709
ENSG00000284969	AL049629.2	-2.270805164	0.039183
ENSG00000273259	AL049839.2	-3.838266557	0.008772
ENSG00000255330	AL096711.2	-2.948650365	0.030372
ENSG00000274322	AL136531.2	2.686853666	0.008228
ENSG00000285269	AL160269.1	-1.459221953	0.006796
ENSG00000236782	AL391650.1	2.573490424	0.024765
ENSG00000273748	AL592183.1	-1.027552723	0.00247
ENSG00000259916	AL845331.2	-5.685246798	0.000197
ENSG00000158578	ALAS2	-2.488956878	0.001223
ENSG00000163631	ALB	-2.697757513	0.017217
ENSG00000170017	ALCAM	-1.678756466	3.87E-12
ENSG00000165092	ALDH1A1	-1.818749496	4.7E-12
ENSG00000128918	ALDH1A2	-2.259131787	1.13E-13
ENSG00000137124	ALDH1B1	-2.108612537	3.36E-11
ENSG00000144908	ALDH1L1	-3.128014056	1.52E-10
ENSG00000108602	ALDH3A1	1.147107852	6.67E-05
ENSG00000159423	ALDH4A1	1.401278071	6.37E-12
ENSG00000112294	ALDH5A1	-1.058004388	2.32E-05
ENSG00000119711	ALDH6A1	-1.583534505	2.69E-08
ENSG00000171094	ALK	-2.455577032	0.026927
ENSG00000189292	ALKAL2	-3.535190696	2.95E-11
ENSG00000108839	ALOX12	2.742013718	4.83E-19

ENSG00000179477	ALOX12B	3.655739016	4.76E-24
ENSG00000179148	ALOXE3	2.453742425	3.97E-12
ENSG00000052850	ALX4	-2.612702698	2.24E-05
ENSG00000183684	ALYREF	1.275485559	2.56E-08
ENSG00000123505	AMD1	1.442741744	7.42E-10
ENSG00000181754	AMIGO1	-1.388771802	2.66E-11
ENSG00000101935	AMMECR1	2.276371783	2.45E-36
ENSG00000126016	AMOT	-2.789145168	1.55E-20
ENSG00000114019	AMOTL2	-1.163425996	8.61E-07
ENSG00000133805	AMPD3	1.283994153	1.39E-05
ENSG00000078053	AMPH	-1.57671816	0.002147
ENSG00000240038	AMY2B	-2.387048115	1.69E-09
ENSG00000154188	ANGPT1	-2.461958269	1.23E-23
ENSG00000101280	ANGPT4	-4.420683028	2.23E-09
ENSG00000116194	ANGPTL1	-3.131843688	1.26E-09
ENSG00000187151	ANGPTL5	-5.08535526	4.82E-08
ENSG00000130173	ANGPTL8	-3.7147342	0.002845
ENSG00000145362	ANK2	-2.332434489	1.13E-10
ENSG00000151687	ANKAR	-1.18011542	0.000304
ENSG00000166839	ANKDD1A	-1.751258501	1.48E-05
ENSG00000189045	ANKDD1B	-1.657461573	0.023848
ENSG00000180071	ANKRD18A	-3.3439136	1.6E-12
ENSG00000260691	ANKRD20A1	-3.156773272	0.018943
ENSG00000172014	ANKRD20A4	-3.010699679	0.003538
ENSG00000152766	ANKRD22	1.060912835	0.002595
ENSG00000163126	ANKRD23	-1.326195679	0.006805
ENSG00000089847	ANKRD24	-2.037467675	0.000317
ENSG00000148513	ANKRD30A	-4.53215318	0.000158
ENSG00000180777	ANKRD30B	-4.120374681	0.000517
ENSG00000145700	ANKRD31	4.510476217	2.02E-16
ENSG00000164236	ANKRD33B	-1.907119737	5.31E-09
ENSG00000135976	ANKRD36	-1.719589948	5.14E-06
ENSG00000196912	ANKRD36B	-1.412564506	0.000181
ENSG00000174501	ANKRD36C	-1.875334596	1.11E-07
ENSG00000154945	ANKRD40	-1.018302365	2.63E-06
ENSG00000144031	ANKRD53	-1.577402617	0.009707
ENSG00000135299	ANKRD6	-1.094145371	0.000441
ENSG00000185046	ANKS1B	-1.817119468	9.84E-06
ENSG00000011426	ANLN	1.644543477	1.58E-05
ENSG00000047617	ANO2	-1.49659417	0.001542
ENSG00000134343	ANO3	-3.281936039	2.95E-11
ENSG00000171714	ANO5	-2.649734682	4.16E-09
ENSG00000146205	ANO7	-1.78670859	0.006532
ENSG00000163297	ANTXR2	-1.093868499	0.001116
ENSG00000197043	ANXA6	-1.735225135	6.18E-11
ENSG00000265190	ANXA8	1.511525405	1.97E-08
ENSG00000143412	ANXA9	4.765875235	4.28E-10
ENSG00000002726	AOC1	-2.31562872	6.35E-10

ENSG00000131471	AOC3	-3.024225767	2.25E-18
ENSG00000138356	AOX1	-2.283727457	1.51E-09
ENSG00000254469	AP002495.2	-1.121253521	0.005892
ENSG00000106367	AP1S1	1.484992682	3.42E-10
ENSG00000152056	AP1S3	1.349407068	4.8E-06
ENSG00000042753	AP2S1	1.448120695	1.44E-07
ENSG00000107282	APBA1	-2.129425732	1.51E-10
ENSG00000166313	APBB1	-1.288373673	1.93E-06
ENSG00000077420	APBB1IP	-2.210635831	1.29E-07
ENSG00000101474	APMAP	-1.011858781	0.003777
ENSG00000084674	APOB	2.123502836	0.009955
ENSG00000128383	APOBEC3A	5.62339054	6.17E-12
ENSG00000179750	APOBEC3B	2.823246373	4E-06
ENSG00000130208	APOC1	-1.914489285	0.000749
ENSG00000189058	APOD	-3.595816268	5.56E-27
ENSG00000130203	APOE	-1.779792216	1.94E-12
ENSG00000128284	APOL3	-1.028401152	0.000249
ENSG00000198931	APRT	1.034453202	2.36E-07
ENSG00000240583	AQP1	-1.522974643	2.96E-07
ENSG00000165272	AQP3	2.528803751	8.57E-32
ENSG00000171885	AQP4	-3.030715971	0.014237
ENSG00000086159	AQP6	-3.056836437	5.73E-05
ENSG00000165269	AQP7	-3.840737239	2.88E-08
ENSG00000103569	AQP9	1.934150429	0.003696
ENSG00000169083	AR	-2.598231011	6.82E-11
ENSG00000047365	ARAP2	1.286099532	2.16E-07
ENSG00000198576	ARC	2.46491725	0.002064
ENSG00000109321	AREG	2.024143495	3.29E-08
ENSG00000165527	ARF6	1.216634664	7.21E-11
ENSG00000112379	ARFGEF3	-2.576086049	6.14E-16
ENSG00000118520	ARG1	5.050284532	4.8E-47
ENSG00000081181	ARG2	2.075645271	3.2E-06
ENSG00000198826	ARHGAP11A	1.134142523	1.87E-05
ENSG00000137727	ARHGAP20	-2.856275311	1.5E-16
ENSG00000031081	ARHGAP31	-1.004468308	0.000821
ENSG00000006740	ARHGAP44	-2.074464385	8.16E-12
ENSG00000047648	ARHGAP6	-2.177594665	4.11E-10
ENSG00000242173	ARHGDIG	-2.721340287	0.011771
ENSG00000104728	ARHGEF10	-1.763567089	1.56E-05
ENSG00000198844	ARHGEF15	-1.112092298	0.002331
ENSG00000110237	ARHGEF17	-1.208092572	4.39E-05
ENSG00000116584	ARHGEF2	-1.007618826	0.000117
ENSG00000240771	ARHGEF25	-1.681723198	6.85E-09
ENSG00000114790	ARHGEF26	-1.406778613	9.81E-07
ENSG00000236699	ARHGEF38	-2.654173583	8.55E-05
ENSG00000136002	ARHGEF4	1.054846218	2.72E-11
ENSG00000165801	ARHGEF40	-2.019174281	3.97E-09
ENSG00000129675	ARHGEF6	-2.391341466	1.18E-16

ENSG00000032219	ARID4A	-1.097965333	0.000695
ENSG00000179674	ARL14	4.211597552	5.77E-10
ENSG00000185829	ARL17A	-1.187407955	0.04627
ENSG00000175906	ARL4D	1.6136224	7.88E-07
ENSG00000162980	ARL5A	1.149252313	7.6E-05
ENSG00000165997	ARL5B	1.548887122	5.62E-07
ENSG00000134108	ARL8B	1.081584289	3.24E-05
ENSG00000157343	ARMC12	-1.951641638	0.004969
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ENSG00000062096	ARSF	1.908889455	0.000752
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ENSG00000108381	ASPA	-2.501084986	7.15E-16
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ENSG00000162174	ASRGL1	-1.437523994	4.73E-05
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ENSG00000177556	ATOX1	1.148089134	1.28E-05
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ENSG00000118322	ATP10B	1.798167163	1.49E-13
ENSG00000145246	ATP10D	1.574331769	1.93E-14
ENSG00000058063	ATP11B	1.53016379	1.18E-08
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ENSG00000129244	ATP1B2	-2.220027217	1.22E-06
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ENSG00000105929	ATP6V0A4	-2.3777796	2.11E-10
ENSG00000185883	ATP6V0C	2.813828713	0.038845
ENSG00000159720	ATP6V0D1	1.222201372	5.38E-07
ENSG00000147614	ATP6V0D2	2.549684225	0.047711
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ENSG00000142867	BCL10	1.071966354	7.51E-06
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ENSG00000140379	BCL2A1	2.30859514	0.001026
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ENSG00000100739	BDKRB1	2.038178136	0.001154
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ENSG00000235162	C12orf75	1.0852501	0.000123
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ENSG00000228486	C2orf92	-1.46859444	0.000157
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ENSG00000104267	CA2	3.060179568	1.24E-15
ENSG00000164879	CA3	-1.746977614	0.000962
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ENSG00000178372	CALML5	3.830644604	1.45E-29
ENSG00000169885	CALML6	-1.6910254	4.03E-05
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ENSG00000186648	CARMIL3	1.258602372	2.24E-06
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ENSG00000196954	CASP4	1.118987313	4.96E-07
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ENSG00000168497	CAVIN2	-2.753033838	1.13E-19
ENSG00000099625	CBARP	1.749391289	0.000903
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ENSG00000159231	CBR3	1.062981916	8.17E-05
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ENSG00000187094	CCK	3.418468947	0.007685
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ENSG00000110092	CCND1	-1.038806172	1.42E-06
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ENSG00000177675	CD163L1	-1.014445716	0.002746
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ENSG00000120217	CD274	1.526586207	0.005198
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ENSG00000241399	CD302	-1.881150277	3.54E-13
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ENSG00000101224	CDC25B	1.807248936	4.82E-14
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ENSG00000177685	CRACR2B	-3.011481124	4.08E-11
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ENSG00000159176	CSRP1	-1.178331037	1.9E-06
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ENSG00000175315	CST6	3.388562206	4.09E-08
ENSG00000077984	CST7	1.347169721	0.039722
ENSG00000121552	CSTA	4.268527105	3E-31
ENSG00000160213	CSTB	2.054430789	2.8E-06
ENSG00000150281	CTF1	-1.278751685	0.000401
ENSG00000118523	CTGF	-1.621840455	9.68E-07
ENSG00000116761	CTH	1.112188963	0.019966
ENSG00000183230	CTNNA3	-3.509358058	0.001715
ENSG00000178585	CTNNBIP1	1.563950086	3.03E-08
ENSG00000171793	CTPS1	1.180858153	3.48E-08
ENSG00000064601	CTSA	1.057649098	3.35E-07
ENSG00000109861	CTSC	1.656880284	8.61E-13
ENSG00000174080	CTSF	-1.296017939	4.28E-10
ENSG00000100448	CTSG	-1.66244303	5.95E-05
ENSG00000136943	CTSV	1.810385903	4.15E-11
ENSG00000172543	CTSW	-1.658278828	0.006625
ENSG00000077063	CTTNBP2	-1.242130021	0.001955
ENSG00000107611	CUBN	-1.068662972	0.002892
ENSG00000111249	CUX2	-2.409133346	0.003941
ENSG00000109182	CWH43	1.823957285	3.54E-15
ENSG00000006210	CX3CL1	-2.280889871	2.48E-14
ENSG00000168329	CX3CR1	-1.018398737	0.007609
ENSG00000163739	CXCL1	3.455333981	5.77E-06

ENSG00000169248	CXCL11	2.348759779	0.005623
ENSG00000107562	CXCL12	-1.987020042	9.7E-09
ENSG00000156234	CXCL13	3.987622179	0.000152
ENSG00000189377	CXCL17	1.986166431	0.003947
ENSG00000081041	CXCL2	1.716978246	0.025623
ENSG00000169429	CXCL8	7.155080346	7.75E-13
ENSG00000163464	CXCR1	7.215717243	4.42E-11
ENSG00000180871	CXCR2	1.570351492	3.12E-05
ENSG00000147113	CXorf36	-1.343726109	2.73E-05
ENSG00000147231	CXorf57	-1.442234639	3.1E-05
ENSG00000168772	CXXC4	-2.377390333	2.73E-07
ENSG00000071967	CYBRD1	-1.942361615	7.28E-12
ENSG00000172115	CYCS	1.101864448	0.00015
ENSG00000161544	CYGB	-1.527217485	6.99E-08
ENSG00000140459	CYP11A1	-1.947705382	0.002589
ENSG00000148795	CYP17A1	3.707763251	0.003104
ENSG00000140505	CYP1A2	-4.281484746	0.000706
ENSG00000019186	CYP24A1	4.180789667	1.79E-15
ENSG00000135929	CYP27A1	-1.769148207	9.91E-12
ENSG00000111012	CYP27B1	2.189729436	3.15E-09
ENSG00000186684	CYP27C1	1.246309084	1.2E-09
ENSG00000100197	CYP2D6	-1.781307751	0.036853
ENSG00000155016	CYP2U1	-1.505792637	2.98E-10
ENSG00000073067	CYP2W1	-2.498315785	2.74E-08
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ENSG00000187048	CYP4A11	-2.952525506	0.045849
ENSG00000171903	CYP4F11	2.143675679	0.002077
ENSG00000186115	CYP4F2	3.232174609	0.004831
ENSG00000171954	CYP4F22	3.087709925	1.76E-12
ENSG00000145476	CYP4V2	-1.431620383	4.29E-05
ENSG00000186377	CYP4X1	-1.83442776	5.23E-07
ENSG00000186160	CYP4Z1	-3.077409226	0.000778
ENSG00000205795	CYS1	-1.906291667	2.65E-07
ENSG00000173198	CYSLTR1	-1.7160567	0.000125
ENSG00000197191	CYSRT1	4.047843078	9.15E-24
ENSG00000120306	CYSTM1	-1.432867381	5.35E-09
ENSG00000146122	DAAM2	-1.865548146	1.78E-08
ENSG00000153071	DAB2	-1.472202128	3.12E-05
ENSG00000276644	DACH1	-1.245247535	0.006966
ENSG00000165617	DACT1	-2.031272035	6.74E-11
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ENSG00000197380	DACT3	-1.779365793	1.31E-11
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ENSG00000006634	DBF4	1.022218328	1.63E-05
ENSG00000155368	DBI	1.178540536	1.55E-07

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ENSG00000170390	DCLK2	-1.4184275	0.007151
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ENSG00000077279	DCX	-3.252083991	5.97E-06
ENSG00000153904	DDAH1	-1.681050707	4.54E-10
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ENSG00000162733	DDR2	-2.260125064	1.18E-12
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ENSG00000164825	DEFB1	1.124806613	0.00054
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ENSG00000171711	DEFB4A	8.956750104	7.64E-08
ENSG00000143753	DEGS1	1.03369257	2.89E-07
ENSG00000168350	DEGS2	1.864335182	4.32E-09
ENSG00000146966	DENND2A	-2.788817713	1.15E-10
ENSG00000175984	DENND2C	1.44811355	3.21E-14
ENSG00000162777	DENND2D	1.395938466	1.54E-12
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ENSG00000170456	DENND5B	-1.337607155	4.5E-07
ENSG00000024526	DEPDC1	1.399090457	4.5E-05
ENSG00000035499	DEPDC1B	2.709350678	4E-11
ENSG00000121690	DEPDC7	1.112733626	1.54E-07
ENSG00000165507	DEPP1	-2.062315734	3.89E-13
ENSG00000175084	DES	-3.14519535	1.92E-05
ENSG00000140543	DET1	-1.285218551	1.96E-07
ENSG00000136267	DGKB	-2.680270862	0.008658
ENSG00000077044	DGKD	-1.010435645	0.000136
ENSG00000058866	DGKG	-2.17240475	1.3E-11
ENSG00000157680	DGKI	-1.667024852	0.000234
ENSG00000157379	DHRS1	1.204347936	3.45E-06
ENSG00000102796	DHRS12	-1.171402956	0.000903
ENSG00000089876	DHX32	1.157986109	1.73E-07
ENSG00000197406	DIO3	-3.446443328	3.69E-06
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ENSG00000154309	DISP1	-1.143833105	1.83E-05
ENSG00000150764	DIXDC1	-1.603216154	1.43E-13
ENSG00000107984	DKK1	-2.267019128	0.000164
ENSG00000155011	DKK2	-3.172026064	3.51E-09
ENSG00000164741	DLC1	-1.867405506	2.69E-08
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ENSG00000126787	DLGAP5	2.679226434	1.76E-12
ENSG00000171462	DLK2	-1.274564344	0.000615
ENSG00000128917	DLL4	-1.189741504	0.009199
ENSG00000115844	DLX2	2.289279246	0.000727
ENSG00000105880	DLX5	2.039163507	3.47E-15
ENSG00000006377	DLX6	1.922760194	0.003731
ENSG00000198947	DMD	-1.573908353	9.71E-18
ENSG00000132837	DMGDH	-1.667560008	0.007251
ENSG00000161249	DMKN	1.53233356	9.72E-16
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ENSG00000167646	DNAAF3	1.698768423	0.032934
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ENSG00000118997	DNAH7	-1.41897573	0.021716
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ENSG00000105993	DNAJB6	1.462095012	1.26E-09
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ENSG00000147443	DOK2	-1.098206382	0.03957
ENSG00000146094	DOK3	1.326411678	0.001142
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ENSG00000197635	DPP4	1.57085253	4.72E-08
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ENSG00000134755	DSC2	3.117872862	4.45E-17
ENSG00000134762	DSC3	1.184648749	4.03E-10
ENSG00000177103	DSCAML1	-2.273015586	0.00076
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ENSG00000134757	DSG3	2.351347511	1.89E-17
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ENSG00000135144	DTX1	-2.843101321	4.71E-10
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ENSG00000137857	DUOX1	1.415381694	2.99E-11
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ENSG00000144048	DUSP11	1.129358457	3.77E-06
ENSG00000276023	DUSP14	2.332999756	2.18E-13
ENSG00000158050	DUSP2	1.159820489	0.000408
ENSG00000198842	DUSP27	-2.622934065	0.027523
ENSG00000138166	DUSP5	1.241103978	3.48E-05
ENSG00000164086	DUSP7	1.170349866	1.74E-07
ENSG00000130829	DUSP9	5.434074278	1.82E-08
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ENSG00000187240	DYNC2H1	-1.097092622	0.000537
ENSG00000088986	DYNLL1	2.200110893	4.41E-19
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ENSG00000198919	DZIP3	-1.413116155	3.51E-06
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ENSG00000129173	E2F8	1.385598656	9.59E-07
ENSG00000144597	EAF1	1.143826282	1.53E-06
ENSG00000164330	EBF1	-2.231883731	6.71E-09
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ENSG00000135960	EDAR	-2.434889458	8.55E-08
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ENSG00000114942	EEF1B2	1.112870438	1.43E-06
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ENSG00000115380	EFEMP1	-1.302683997	1.02E-07
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ENSG00000115468	EFHD1	-2.688318043	5.57E-11
ENSG00000084710	EFR3B	1.411605125	9.62E-06
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ENSG00000198759	EGFL6	-2.351002001	0.000425
ENSG00000172889	EGFL7	-1.355863047	7.09E-05
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ENSG00000141543	EIF4A3	1.404054926	3.42E-09
ENSG00000151247	EIF4E	1.178035349	1.6E-06
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ENSG00000110321	EIF4G2	1.10622569	5.18E-05
ENSG00000132507	EIF5A	1.586854332	3.07E-11
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ENSG00000163435	ELF3	-1.523509483	3.88E-06
ENSG00000135374	ELF5	-1.529401065	2.13E-05
ENSG00000166897	ELFN2	-1.840962521	0.014076
ENSG00000118985	ELL2	2.043197286	3.9E-13
ENSG00000128886	ELL3	2.255168938	0.018593
ENSG00000155849	ELMO1	-1.190856131	6.17E-05
ENSG00000110675	ELMOD1	2.18647641	8.36E-15
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ENSG00000170370	EMX2	-1.994946496	1.72E-14
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ENSG00000111405	ENDOU	2.008917255	1.11E-10
ENSG00000168913	ENHO	-3.438920412	4.38E-09
ENSG00000151023	ENKUR	1.494557159	0.007672
ENSG00000074800	ENO1	1.296597567	5.82E-06
ENSG00000197594	ENPP1	-2.579647722	6.22E-09
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ENSG00000001561	ENPP4	-2.988633045	6.16E-25
ENSG00000112796	ENPP5	-2.704358424	5.76E-08
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ENSG00000198018	ENTPD7	1.388335206	2.64E-07
ENSG00000088367	EPB41L1	-1.661170711	1.27E-11
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ENSG00000070886	EPHA8	3.891944195	0.040964
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ENSG00000143819	EPHX1	-1.655520475	7.57E-17
ENSG00000105131	EPHX3	3.116235157	5.71E-25
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ENSG00000133106	EPSTI1	1.67268519	6.15E-05
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ENSG00000171320	ESCO2	1.325744883	0.000482
ENSG00000135476	ESPL1	1.260994288	0.00019
ENSG00000187017	ESPN	-1.020370737	0.017457
ENSG00000091831	ESR1	-1.097044152	0.009805
ENSG00000104413	ESRP1	1.634154904	3.59E-12
ENSG00000103067	ESRP2	1.513082524	2.71E-12
ENSG00000196482	ESRRG	-3.170494199	8.48E-09
ENSG00000158220	ESYT3	1.672061263	2.06E-11
ENSG00000143845	ETNK2	-1.224143212	0.000239
ENSG00000006468	ETV1	-1.620215961	5.42E-07
ENSG00000214860	EVPLL	1.155308956	0.02362
ENSG00000174371	EXO1	1.768016686	0.000124
ENSG00000250821	EXOC1L	-3.837448548	0.008836
ENSG00000178896	EXOSC4	1.126453562	9.14E-06
ENSG00000158008	EXTL1	-3.11523584	3.1E-09
ENSG00000112319	EYA4	-3.52874539	0.000102
ENSG00000188107	EYS	-2.524687491	0.005149
ENSG00000106462	EZH2	1.003815745	1.47E-07
ENSG00000126218	F10	-2.104143355	2.63E-05
ENSG00000131187	F12	3.019333102	2.06E-13
ENSG00000124491	F13A1	-1.421451858	0.000793
ENSG00000164251	F2RL1	1.938096622	2.89E-11
ENSG00000198734	F5	-2.292960023	1.49E-06
ENSG00000057593	F7	-2.384297968	0.004819
ENSG00000185010	F8	-1.827228323	6.51E-16
ENSG00000103089	FA2H	-1.779712918	0.005934
ENSG00000165591	FAAH2	1.253930386	2.68E-06
ENSG00000121769	FABP3	-1.806581059	0.002956
ENSG00000170323	FABP4	-3.399264095	7.16E-10
ENSG00000164687	FABP5	4.702082575	8.56E-74
ENSG00000164434	FABP7	-3.042961433	0.000126
ENSG00000205186	FABP9	3.468499771	0.036594
ENSG00000149485	FADS1	-1.664310927	0.010544
ENSG00000134824	FADS2	-1.825022458	0.023726
ENSG00000221968	FADS3	-1.724586153	6.81E-05
ENSG00000172782	FADS6	1.115271845	0.00265
ENSG00000144199	FAHD2B	-1.09125157	9.15E-09
ENSG00000135472	FAIM2	1.814731415	2.24E-06
ENSG00000168309	FAM107A	-2.411105772	1.24E-12
ENSG00000125898	FAM110A	1.651953267	3.62E-08
ENSG00000169122	FAM110B	-1.661540201	1.95E-07

ENSG00000184731	FAM110C	2.226108553	9.67E-20
ENSG00000197245	FAM110D	-1.611494434	7.05E-05
ENSG00000189057	FAM111B	1.641930036	3.34E-06
ENSG00000121104	FAM117A	-1.687618672	9.96E-14
ENSG00000136830	FAM129B	1.156558382	2.97E-06
ENSG00000179083	FAM133A	-3.037996431	1.25E-06
ENSG00000082269	FAM135A	1.067894092	1.09E-09
ENSG00000147724	FAM135B	-2.253387975	0.004611
ENSG00000138640	FAM13A	-1.699269342	4.42E-11
ENSG00000148541	FAM13C	-1.189722167	5.93E-06
ENSG00000109794	FAM149A	-2.077031502	4.2E-07
ENSG00000152380	FAM151B	1.203183413	0.00231
ENSG00000170074	FAM153A	-1.184790073	0.03085
ENSG00000204677	FAM153C	-1.780039144	0.048071
ENSG00000164142	FAM160A1	1.051613978	3.98E-09
ENSG00000156050	FAM161B	-1.040289017	7.88E-05
ENSG00000114023	FAM162A	1.66598006	4.16E-12
ENSG00000183807	FAM162B	-1.330259036	0.002959
ENSG00000188163	FAM166A	-1.532083166	0.010252
ENSG00000215187	FAM166B	-3.356132979	2.17E-11
ENSG00000148468	FAM171A1	-1.228211665	2.09E-06
ENSG00000185442	FAM174B	-1.499520954	2.67E-08
ENSG00000189320	FAM180A	-1.26921413	0.003871
ENSG00000196666	FAM180B	-3.692728894	4.54E-12
ENSG00000111879	FAM184A	-2.276445961	4.69E-11
ENSG00000047662	FAM184B	-1.135451412	0.029397
ENSG00000104059	FAM189A1	-2.335773976	1.73E-05
ENSG00000135063	FAM189A2	-2.666807473	7.53E-19
ENSG00000204767	FAM196B	-1.927365002	0.047308
ENSG00000164125	FAM198B	-1.571791098	3.53E-09
ENSG00000198673	FAM19A2	-1.929742389	0.000414
ENSG00000219438	FAM19A5	-1.879156803	6.33E-06
ENSG00000250486	FAM218A	-2.120361175	0.015302
ENSG00000188732	FAM221A	-2.012903352	3.49E-09
ENSG00000184949	FAM227A	-1.444753149	0.000269
ENSG00000219626	FAM228B	-1.644743695	1.44E-08
ENSG00000203778	FAM229B	-1.479003015	9.96E-08
ENSG00000171224	FAM241B	-1.316615553	0.000568
ENSG00000188100	FAM25A	3.947241175	3.71E-16
ENSG00000276430	FAM25C	2.227953273	0.004183
ENSG00000183844	FAM3B	-2.703396491	0.000668
ENSG00000198643	FAM3D	-2.589832987	5.17E-09
ENSG00000185112	FAM43A	1.693793057	2.91E-09
ENSG00000183114	FAM43B	2.314507484	0.002736
ENSG00000189157	FAM47E	-2.640452512	0.000547
ENSG00000149926	FAM57B	-1.95444027	0.016951
ENSG00000165716	FAM69B	-1.840965219	5.82E-09
ENSG00000205085	FAM71F2	-1.161051126	0.006398

ENSG00000263513	FAM72C	3.190205417	0.00524
ENSG00000215784	FAM72D	1.984002713	0.040393
ENSG00000157470	FAM81A	-1.038756219	0.030176
ENSG00000147689	FAM83A	3.805041157	3.22E-17
ENSG00000168143	FAM83B	1.734527667	7.7E-16
ENSG00000125998	FAM83C	2.210445297	3.91E-21
ENSG00000101447	FAM83D	2.628764759	3.19E-10
ENSG00000105523	FAM83E	-2.190710065	4.27E-07
ENSG00000188522	FAM83G	1.792512392	1.14E-11
ENSG00000180921	FAM83H	1.489986417	3.22E-10
ENSG00000162981	FAM84A	1.192601862	6.24E-07
ENSG00000182118	FAM89A	1.329999568	4.73E-07
ENSG00000188343	FAM92A	-1.187133406	3.12E-05
ENSG00000283486	FAM95C	-2.185767058	0.020122
ENSG00000181544	FANCB	1.606259157	0.004954
ENSG00000064763	FAR2	-1.635694487	0.006424
ENSG00000152767	FARP1	-1.409155112	1.22E-06
ENSG00000169710	FASN	-1.13665615	0.021864
ENSG00000165323	FAT3	-1.990785435	1.01E-08
ENSG00000196159	FAT4	-1.32836141	6.57E-05
ENSG00000170271	FAXDC2	-2.116917156	1.1E-15
ENSG00000162458	FBLIM1	1.536638208	2.63E-08
ENSG00000077942	FBLN1	-1.867327119	1.13E-09
ENSG00000163520	FBLN2	-2.138212215	1.02E-09
ENSG00000140092	FBLN5	-2.545251417	4.25E-14
ENSG00000138829	FBN2	1.341350249	0.022134
ENSG00000165140	FBP1	-2.212134679	7.85E-12
ENSG00000099364	FBXL19	1.173635613	1.22E-06
ENSG00000197361	FBXL22	-1.282557399	0.00047
ENSG00000183580	FBXL7	-1.693573005	2.28E-07
ENSG00000147912	FBXO10	1.238524445	6.75E-06
ENSG00000143756	FBXO28	1.010487819	1.19E-05
ENSG00000156804	FBXO32	-1.900280002	1.94E-09
ENSG00000174013	FBXO45	2.409339514	4.18E-14
ENSG00000112029	FBXO5	1.285934753	1.82E-05
ENSG00000171931	FBXW10	2.751002274	0.011902
ENSG00000104921	FCER2	-3.539794866	0.00039
ENSG00000275395	FCGBP	-1.073433356	0.008722
ENSG00000162747	FCGR3B	5.096605336	9.59E-08
ENSG00000104870	FCGRT	-1.298985066	1.54E-09
ENSG00000130475	FCHO1	1.284006469	2.51E-05
ENSG00000197948	FCHSD1	1.540556537	1.49E-08
ENSG00000132185	FCRLA	1.799896486	0.001778
ENSG00000162746	FCRLB	2.078356534	0.003148
ENSG00000161513	FDXR	1.17991153	5.84E-07
ENSG00000101311	FERMT1	1.166898855	1.66E-07
ENSG00000073712	FERMT2	-1.985824498	3.12E-14
ENSG00000090512	FETUB	3.296784821	1.04E-08

ENSG00000126262	FFAR2	1.077996211	0.044261
ENSG00000186188	FFAR4	-2.313554151	8.27E-10
ENSG00000146192	FGD2	1.793101871	1.06E-09
ENSG00000154783	FGD5	-1.616839995	1.12E-06
ENSG00000113578	FGF1	-2.241547505	4.82E-08
ENSG00000070193	FGF10	-1.766729483	5.27E-05
ENSG00000161958	FGF11	1.103536035	5.46E-10
ENSG00000114279	FGF12	-1.216564933	0.011984
ENSG00000129682	FGF13	-2.905103994	1.03E-15
ENSG00000102466	FGF14	-2.036674501	0.035348
ENSG00000156427	FGF18	-1.107047756	0.00386
ENSG00000138685	FGF2	-2.446786707	4.23E-15
ENSG00000140285	FGF7	-1.623097257	1.99E-06
ENSG00000102678	FGF9	-3.77192173	2.57E-05
ENSG00000137440	FGFBP1	3.850579109	4.13E-20
ENSG00000137441	FGFBP2	-2.89472361	1.58E-06
ENSG00000077782	FGFR1	-1.777281442	1.65E-09
ENSG00000127418	FGFRL1	-1.789115919	3.1E-11
ENSG00000127951	FGL2	-1.45137876	3.88E-06
ENSG00000137460	FHDC1	1.791784098	4.7E-14
ENSG00000022267	FHL1	-3.07634062	3.85E-16
ENSG00000112214	FHL5	-1.641596121	0.002037
ENSG00000134775	FHOD3	-1.795000504	1.82E-05
ENSG00000176971	FIBIN	-1.634001998	4.23E-05
ENSG00000182263	FIGN	-1.052091481	0.000749
ENSG00000118407	FILIP1	-2.461925772	3.98E-12
ENSG00000119782	FKBP1B	1.250417299	0.005307
ENSG00000079150	FKBP7	-1.137823758	0.000194
ENSG00000204315	FKBPL	2.031699187	2.05E-14
ENSG00000143631	FLG	1.913866714	2.41E-08
ENSG00000143520	FLG2	1.779917014	1.24E-06
ENSG00000151702	FLI1	-1.19652959	0.000364
ENSG00000128591	FLNC	-1.796817172	1.41E-06
ENSG00000126500	FLRT1	-3.620430911	0.00015
ENSG00000125848	FLRT3	2.065150231	8.03E-09
ENSG00000037280	FLT4	-1.138110159	0.015933
ENSG00000119686	FLVCR2	1.344149211	0.004463
ENSG00000155816	FMN2	-2.432823047	0.04847
ENSG00000010932	FMO1	-1.593302941	4.74E-05
ENSG00000007933	FMO3	-1.291032752	1.49E-05
ENSG00000131781	FMO5	-1.844274146	1.55E-06
ENSG00000122176	FMOD	-2.176428752	2.71E-12
ENSG00000167363	FN3K	-2.057577024	6.23E-13
ENSG00000137942	FNBP1L	-1.056771925	5.62E-06
ENSG00000228594	FNDC10	1.638782178	3.49E-10
ENSG00000160097	FNDC5	-3.215726237	1.15E-13
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ENSG00000165457	FOLR2	-1.835749697	9.68E-05

ENSG00000170345	FOS	1.131257284	0.001699
ENSG00000125740	FOSB	1.188927202	0.015357
ENSG00000175592	FOSL1	6.203485013	2.14E-15
ENSG00000129514	FOXA1	-3.619722686	1.05E-08
ENSG00000054598	FOXC1	-1.678276485	8.22E-11
ENSG00000251493	FOXD1	-1.296599539	0.023302
ENSG00000186564	FOXD2	-1.853050527	0.046839
ENSG00000187140	FOXD3	-1.970713579	0.014873
ENSG00000178919	FOX E1	2.632603921	3.59E-07
ENSG00000168269	FOXI1	-2.96332705	4.77E-08
ENSG00000186766	FOXI2	-2.790814528	4.62E-06
ENSG00000183770	FOXL2	2.547283054	0.038949
ENSG00000111206	FOX M1	1.674555172	4.22E-08
ENSG00000109101	FOX N1	1.573308645	9.05E-08
ENSG00000204060	FOX O6	-1.197311085	0.036654
ENSG00000164379	FOX Q1	-1.31480641	2.07E-11
ENSG00000179772	FOX S1	-1.085628277	0.006918
ENSG00000259030	FPGT-TNNI3K	-2.90081052	8.48E-07
ENSG00000171049	FPR2	3.849747568	0.00059
ENSG00000164946	FREM1	-2.566649521	1.29E-13
ENSG00000153303	FRMD1	-3.455813693	0.00023
ENSG00000165694	FRMD7	-4.080882354	0.000241
ENSG00000126391	FRMD8	1.444118892	1.15E-11
ENSG00000070601	FRMPD1	1.943957966	1.05E-06
ENSG00000260230	FRRS1L	-3.069219377	5.05E-05
ENSG00000162998	FRZB	-2.826048662	3E-18
ENSG00000075618	FSCN1	1.72427714	3.24E-09
ENSG00000186628	FSD2	-3.069722759	0.03657
ENSG00000188738	FSIP2	-2.284967644	0.000468
ENSG00000134363	FST	-1.878046682	4.73E-07
ENSG00000163430	FSTL1	-1.037088548	0.003434
ENSG00000179163	FUCA1	-1.167700728	1.02E-09
ENSG00000174951	FUT1	1.588469542	1.28E-07
ENSG00000176920	FUT2	2.216904658	1.29E-14
ENSG00000171124	FUT3	2.893015665	7.45E-19
ENSG00000172461	FUT9	-3.862352361	1.09E-06
ENSG00000266964	FX YD1	-3.440054847	3.21E-05
ENSG00000089356	FX YD3	1.085768758	2.74E-05
ENSG00000137726	FX YD6	-1.749562813	4.19E-07
ENSG00000221946	FX YD7	-2.54028803	0.015462
ENSG00000010810	FYN	-1.180277234	2.33E-06
ENSG00000157240	FZD1	-1.535701054	1.1E-07
ENSG00000174804	FZD4	-2.751691363	8.58E-15
ENSG00000155760	FZD7	-1.441229129	5.66E-08
ENSG00000177283	FZD8	-1.431665067	1.2E-06
ENSG00000123689	GOS2	-3.369847427	6.88E-05
ENSG00000131482	G6PC	3.760761305	0.029105
ENSG00000139112	GABARAPL1	-1.614560689	7.84E-16

ENSG00000151834	GABRA2	-3.951184419	4.78E-06
ENSG00000145864	GABRB2	-2.764085923	2.33E-05
ENSG00000182256	GABRG3	-2.020241765	0.001056
ENSG00000094755	GABRP	-2.296609113	0.000214
ENSG00000268089	GABRQ	1.990957751	2.33E-07
ENSG00000128242	GAL3ST1	-3.481611716	0.00728
ENSG00000108479	GALK1	1.210829595	3.03E-07
ENSG00000143891	GALM	-1.286987214	9.94E-06
ENSG00000119514	GALNT12	-1.65918052	8.65E-08
ENSG00000131386	GALNT15	-2.289891169	2.01E-07
ENSG00000100626	GALNT16	-2.810253291	1.03E-15
ENSG00000185274	GALNT17	-2.633214411	3.45E-12
ENSG00000139629	GALNT6	3.492156056	4.07E-64
ENSG00000130035	GALNT8	-2.338273093	2.91E-06
ENSG00000166573	GALR1	-3.152211167	0.000152
ENSG00000213930	GALT	-1.084807338	0.000595
ENSG00000172020	GAP43	-2.132033077	0.000452
ENSG00000141441	GAREM1	1.003589283	0.000115
ENSG00000157833	GAREM2	-1.46916908	0.000523
ENSG00000106105	GARS	1.974640928	5.01E-17
ENSG00000184502	GAST	4.154029682	0.011818
ENSG00000179348	GATA2	-1.600640993	4.06E-07
ENSG00000141448	GATA6	-1.873255582	0.000253
ENSG00000059691	GATB	1.116036537	6.66E-06
ENSG00000177628	GBA	1.416231177	6.84E-06
ENSG00000162654	GBP4	-1.608173044	1.92E-07
ENSG00000183347	GBP6	2.582577156	1.73E-12
ENSG00000215644	GCGR	-2.168697017	0.006193
ENSG00000131979	GCH1	1.143704343	3.84E-05
ENSG00000137880	GCHFR	-1.65923421	9.33E-13
ENSG00000111846	GCNT2	-1.496399744	7.82E-09
ENSG00000140297	GCNT3	2.5456803	0.037894
ENSG00000176928	GCNT4	2.564081436	9.15E-15
ENSG00000137878	GCOM1	2.44276163	3.65E-05
ENSG00000169224	GCSAML	-1.721812476	0.04323
ENSG00000119125	GDA	2.879514377	0.001463
ENSG00000266524	GDF10	-2.82959801	3.01E-07
ENSG00000125965	GDF5	-2.809445692	0.000226
ENSG00000143869	GDF7	1.113389118	0.046727
ENSG00000168621	GDNF	2.554854753	1.25E-10
ENSG00000102886	GDPD3	2.260808629	2.01E-18
ENSG00000158555	GDPD5	-2.070887567	2.8E-10
ENSG00000131095	GFAP	-2.534391836	1.24E-06
ENSG00000141098	GFOD2	1.564932356	1.78E-17
ENSG00000151892	GFRA1	-3.033053363	4.83E-17
ENSG00000168546	GFRA2	-1.780208189	0.0011
ENSG00000146013	GFRA3	-2.465580097	9.77E-06
ENSG00000006625	GGCT	1.916102299	1.12E-26

ENSG00000137563	GGH	3.196883661	2.33E-26
ENSG00000133475	GGT2	-2.895357675	0.002204
ENSG00000099998	GGT5	-1.603849761	1.23E-05
ENSG00000112964	GHR	-2.43168725	5.85E-17
ENSG00000157017	GHRL	-2.582364026	4.59E-09
ENSG00000101193	GID8	1.241784542	1.95E-06
ENSG00000213203	GIMAP1	-1.891705767	1.34E-06
ENSG00000133574	GIMAP4	-1.471513571	1.16E-05
ENSG00000133561	GIMAP6	-1.527061533	4.22E-09
ENSG00000179144	GIMAP7	-1.44679169	3.35E-06
ENSG00000171115	GIMAP8	-1.728015623	6.32E-09
ENSG00000101003	GINS1	1.611689713	6.64E-08
ENSG00000131153	GINS2	1.360160612	0.00012
ENSG00000181938	GINS3	1.588665969	7.23E-24
ENSG00000123159	GIPC1	1.364795403	6.03E-08
ENSG00000179855	GIPC3	-1.387461872	0.002291
ENSG00000152661	GJA1	2.111809693	3.79E-12
ENSG00000121743	GJA3	1.883483307	0.002415
ENSG00000165474	GJB2	4.037542131	1.42E-29
ENSG00000188910	GJB3	1.701536576	6.34E-09
ENSG00000189280	GJB5	1.828440862	1.4E-08
ENSG00000121742	GJB6	2.71688625	2.71E-15
ENSG00000198835	GJC2	-1.972142815	0.000574
ENSG00000198814	GK	1.258826506	0.000232
ENSG00000165113	GKAP1	-1.629045697	4.7E-05
ENSG00000166105	GLB1L3	1.881359993	4E-06
ENSG00000186417	GLDN	-1.459020344	1.27E-06
ENSG00000111087	GLI1	-1.353905791	0.001111
ENSG00000074047	GLI2	-1.49328234	3.08E-05
ENSG00000180481	GLIPR1L2	-2.003428003	8.67E-09
ENSG00000126603	GLIS2	-1.430480867	1.27E-07
ENSG00000124767	GLO1	1.297623005	1.23E-06
ENSG00000065325	GLP2R	-2.809247734	0.031235
ENSG00000109738	GLRB	-3.189732274	1.12E-14
ENSG00000108010	GLRX3	1.558255041	5.62E-08
ENSG00000139433	GLTP	2.608290982	2.05E-41
ENSG00000182327	GLTPD2	4.896620695	0.010797
ENSG00000149124	GLYAT	-2.961152656	3.18E-09
ENSG00000156689	GLYATL2	-1.27668429	0.007875
ENSG00000196743	GM2A	1.313988573	8.21E-08
ENSG00000060558	GNA15	2.741948834	2.25E-18
ENSG00000065135	GNAI3	1.411035776	9.29E-08
ENSG00000128266	GNAZ	-2.041174426	2.67E-09
ENSG00000159921	GNE	-1.261344104	7.73E-08
ENSG00000127920	GNG11	-1.153230122	2.36E-05
ENSG00000186469	GNG2	-1.7131869	7.13E-07
ENSG00000168243	GNG4	4.930480568	1.59E-10
ENSG00000176533	GNG7	-2.482440338	1.4E-13

ENSG00000167083	GNGT2	2.096220126	0.003683
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ENSG00000232653	GOLGA8N	-1.140308452	0.007284
ENSG00000186399	GOLGA8R	-1.870466696	0.034593
ENSG00000135052	GOLM1	-1.048012858	0.000188
ENSG00000119927	GPAM	-2.811867044	1.81E-07
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ENSG00000183098	GPC6	-2.421904562	9.95E-15
ENSG00000167588	GPD1	-4.090528663	1.28E-09
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ENSG00000277494	GPIHBP1	-2.948310393	6.69E-09
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ENSG00000183671	GPR1	2.608399484	1.51E-11
ENSG00000132975	GPR12	-3.546970813	6.34E-08
ENSG00000164849	GPR146	-2.220697604	6.38E-21
ENSG00000158292	GPR153	1.048529963	6.47E-09
ENSG00000180758	GPR157	1.232348579	2.97E-07
ENSG00000151025	GPR158	2.460864302	0.011271
ENSG00000173890	GPR160	-2.297377821	5.78E-12
ENSG00000184194	GPR173	-1.277708619	0.009516
ENSG00000277399	GPR179	-3.596273203	0.030831
ENSG00000166856	GPR182	-2.724870355	0.008295
ENSG00000181773	GPR3	4.313154972	5.05E-05
ENSG00000171659	GPR34	-2.307241964	3.66E-05
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ENSG00000140030	GPR65	2.144511152	0.004149
ENSG00000119714	GPR68	1.904626163	2.03E-13
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ENSG00000171657	GPR82	-1.45590079	0.035255
ENSG00000138271	GPR87	1.989941618	3.58E-13
ENSG00000198932	GPRASP1	-2.485439346	2.77E-11
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ENSG00000170412	GPRC5C	-1.195121456	1.96E-05
ENSG00000111291	GPRC5D	3.908418082	0.020655
ENSG00000169258	GPRIN1	3.776953213	5.1E-16
ENSG00000204175	GPRIN2	1.91706438	0.000646
ENSG00000167701	GPT	-1.0852467	0.003992
ENSG00000176153	GPX2	2.329317333	4.26E-12
ENSG00000100351	GRAP2	-1.455076593	0.001227
ENSG00000161835	GRASP	-1.122178274	0.001012
ENSG00000115290	GRB14	-2.08772142	8.26E-08

ENSG00000141738	GRB7	1.074603364	3.39E-05
ENSG00000141449	GREB1L	-3.194866565	5.91E-12
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ENSG00000163873	GRIK3	-3.153352747	2.02E-08
ENSG00000149403	GRIK4	-1.389584505	0.044288
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ENSG00000164284	GRPEL2	1.114564416	0.000163
ENSG00000186088	GSAP	-1.26338805	8.57E-08
ENSG00000167914	GSDMA	3.530353945	6.35E-22
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ENSG00000147697	GSDMC	1.661235611	4.11E-16
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ENSG00000189369	GSPT2	-1.159481669	1.24E-08
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ENSG00000213366	GSTM2	-1.899760509	5.69E-06
ENSG00000134202	GSTM3	-1.14102517	0.000226
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ENSG00000148834	GSTO1	1.223105958	1.26E-05
ENSG00000084207	GSTP1	2.089209186	4.15E-16
ENSG00000196275	GTF2IRD2	-1.328076184	0.000117
ENSG00000174428	GTF2IRD2B	-1.497284179	1.39E-06
ENSG00000155115	GTF3C6	1.402922724	5.97E-10
ENSG00000075218	GTSE1	1.188047457	8.11E-05
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ENSG00000164116	GUCY1A1	-1.229744988	0.003618
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ENSG00000179240	GVQW3	-2.140606304	5.15E-05
ENSG00000172986	GXYLT2	-1.137727121	0.002594
ENSG00000056998	GYG2	-2.833294431	1.26E-09
ENSG00000136732	GYPC	-1.992933198	1.38E-12
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ENSG00000113648	H2AFY	1.314512632	2.77E-15

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ENSG00000148702	HABP2	5.966490804	7.28E-07
ENSG00000130956	HABP4	-1.231649997	9.01E-10
ENSG00000084110	HAL	4.336510477	4.38E-51
ENSG00000164107	HAND2	-2.158894212	0.008121
ENSG00000116882	HAO2	-3.854884781	0.005257
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ENSG00000105509	HAS1	-1.809692551	0.00733
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ENSG00000168004	HRASLS5	-4.322578571	3.93E-08
ENSG00000130528	HRC	-2.401715085	3.23E-09
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ENSG00000127415	IDUA	-1.655982794	2.15E-06
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ENSG00000137965	IFI44	1.657660273	0.000365
ENSG00000126709	IFI6	2.511526026	5.91E-09
ENSG00000185745	IFIT1	1.058019424	0.007425
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ENSG00000204866	IGFL2	3.169352719	3.27E-15
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ENSG00000141401	IMPA2	1.289572507	1.03E-09
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ENSG00000148798	INA	6.780060848	2.12E-31
ENSG00000163362	INAVA	1.072549257	5.84E-07
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ENSG00000186480	INSIG1	-1.248861475	8.05E-05
ENSG00000173404	INSM1	-2.95197577	0.040831
ENSG00000127080	IPPK	1.592174473	2.15E-12
ENSG00000203499	IQANK1	1.162601467	2.51E-06
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ENSG00000145703	IQGAP2	-2.105607262	9.54E-10
ENSG00000183856	IQGAP3	1.065527129	0.002352
ENSG00000120645	IQSEC3	-3.570088502	2.09E-06
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ENSG00000090376	IRAK3	-1.06559302	0.000215
ENSG00000185507	IRF7	2.068453671	1.67E-18
ENSG00000170549	IRX1	-1.277999852	2.08E-08

ENSG00000159387	IRX6	-2.322001996	2.84E-09
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ENSG00000172183	ISG20	1.534509363	5.45E-05
ENSG00000129009	ISLR	-1.867078718	1.25E-06
ENSG00000167178	ISLR2	-2.368251073	8.9E-06
ENSG00000101230	ISM1	-2.064093429	4.63E-14
ENSG00000105655	ISYNA1	-1.74588268	6.84E-08
ENSG00000213949	ITGA1	-1.273336299	0.000179
ENSG00000137809	ITGA11	-2.086530471	2.54E-06
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ENSG00000077943	ITGA8	-1.681918603	5.2E-05
ENSG00000144668	ITGA9	-1.215028082	0.000952
ENSG00000160255	ITGB2	-1.056984506	0.00076
ENSG00000259207	ITGB3	-1.506646237	0.000603
ENSG00000115221	ITGB6	1.498422926	3.79E-05
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ENSG00000148841	ITPRIP	1.389098066	3.07E-09
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ENSG00000128928	IVD	-1.188532705	3.25E-09
ENSG00000163207	IVL	5.174198603	3.18E-23
ENSG00000009765	IYD	-2.689801217	2.36E-05
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ENSG00000104848	KCNA7	3.828498914	1.63E-05
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ENSG00000070018	LRP6	-1.012550553	6.62E-05
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ENSG00000127399	LRRRC61	1.60371538	1.64E-11
ENSG00000181350	LRRRC75A	-1.361159349	0.000365
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ENSG00000133739	LRRCC1	-1.097706829	0.000763
ENSG00000133640	LRRRIQ1	-1.792789269	0.00041
ENSG00000175928	LRRN1	-1.791263378	1.03E-05
ENSG00000170382	LRRN2	-1.869066693	0.049255
ENSG00000173114	LRRN3	-2.116657548	6.02E-06
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ENSG00000162951	LRRTM1	-2.450181629	0.02974
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ENSG00000176204	LRRTM4	-2.887077883	0.013778
ENSG00000185565	LSAMP	-1.222386525	0.001296
ENSG00000130332	LSM7	1.012780334	4.55E-07
ENSG00000179564	LSMEM2	-3.097740837	0.045723
ENSG00000213903	LTB4R	1.180389508	4.25E-07
ENSG00000213906	LTB4R2	1.893926873	4.22E-09
ENSG00000168056	LTBP3	-1.406220591	3.15E-08
ENSG00000090006	LTBP4	-1.203312446	3.44E-07
ENSG00000213316	LTC4S	-1.503844945	0.002395
ENSG00000062524	LTK	-1.188968718	0.048797
ENSG00000108848	LUC7L3	-1.168218446	0.000366
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ENSG00000172901	LVRN	-3.392236352	1.33E-10
ENSG00000167656	LY6D	2.820551885	1.63E-20
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ENSG00000054219	LY75	-1.572334356	3.11E-06
ENSG00000185674	LYG2	6.621722095	0.004005
ENSG00000104903	LYL1	-1.07974127	0.009965
ENSG00000150551	LYPD1	3.019620557	2.26E-05
ENSG00000197353	LYPD2	2.823194876	0.000332
ENSG00000124466	LYPD3	2.960574955	2.87E-17
ENSG00000159871	LYPD5	3.680381315	2.1E-20
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ENSG00000232859	LYRM9	-1.684300902	2.49E-11
ENSG00000133800	LYVE1	-1.448786132	0.000947
ENSG00000088899	LZTS3	-1.428544522	6.96E-09
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ENSG00000183833	MAATS1	-3.305975945	4.86E-10
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ENSG00000164109	MAD2L1	1.882467104	3.89E-07
ENSG00000099866	MADCAM1	-2.035418018	0.002289
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ENSG00000204103	MAFB	1.368214921	1.32E-09
ENSG00000185022	MAFF	1.029333525	0.000374
ENSG00000187391	MAGI2	-1.88590791	7.45E-10
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ENSG00000147676	MAL2	1.868461993	9.76E-08
ENSG00000144063	MALL	2.709136486	3.2E-10
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ENSG00000184384	MAML2	-1.082851166	1.87E-05
ENSG00000117643	MAN1C1	-1.333965896	0.000417
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ENSG00000078018	MAP2	1.220979345	8.01E-06
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ENSG00000116871	MAP7D1	1.199758608	0.000596
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ENSG00000121653	MAPK8IP1	-1.287593113	9.76E-07
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ENSG00000110492	MDK	-1.253809986	2.36E-05
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ENSG00000145794	MEGF10	-1.782167213	8.08E-07
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ENSG00000165304	MELK	2.288235632	5.39E-14
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ENSG00000106484	MEST	-1.921057329	3.48E-08
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ENSG00000166391	MOGAT2	-1.928080548	0.039219
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ENSG00000167676	PLIN4	-4.302282885	4.21E-09
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ENSG00000087903	RFX2	-1.073469095	2.84E-05
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ENSG00000205517	RGL3	-2.567264949	2.69E-05
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ENSG00000130988	RGN	-2.438937319	1.61E-08
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ENSG00000127074	RGS13	-2.647488148	6.73E-06
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ENSG00000147509	RGS20	4.918892864	2.43E-26
ENSG00000132554	RGS22	-2.770394671	1.23E-05
ENSG00000143248	RGS5	-1.094106968	0.000183
ENSG00000182732	RGS6	-4.043159335	6.23E-13
ENSG00000186479	RGS7BP	-2.886505099	1.03E-07
ENSG00000108370	RGS9	-2.394982133	1.36E-17
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ENSG00000140519	RHCG	1.827870382	0.002736
ENSG00000263961	RHEX	-1.996378843	0.001236
ENSG00000164292	RHOBTB3	-1.598484453	1.09E-07
ENSG00000173156	RHOD	2.534154852	1.65E-17
ENSG00000139725	RHOF	1.344028771	0.012469
ENSG00000177105	RHOG	1.053379789	0.000152
ENSG00000116574	RHOU	-1.523376197	1.02E-10
ENSG00000101883	RHOXF1	-3.346976535	2.09E-05
ENSG00000158106	RHPN1	-1.373577702	0.001064
ENSG00000131941	RHPN2	-3.043127342	6.48E-12
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ENSG00000177181	RIMKLA	-1.293077104	0.000111
ENSG00000079841	RIMS1	-4.276427171	4.85E-09
ENSG00000117016	RIMS3	1.91781911	1.9E-07
ENSG00000101098	RIMS4	-2.569592389	0.022645
ENSG00000132669	RIN2	1.001148069	1.44E-06
ENSG00000111913	RIPOR2	-1.155515704	0.00029
ENSG00000042062	RIPOR3	1.820761627	1.59E-06
ENSG00000129538	RNASE1	-1.252802836	0.000396
ENSG00000165799	RNASE7	3.04113818	3.53E-13
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ENSG00000128482	RNF112	-2.131151113	1.1E-05
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ENSG00000176641	RNF152	-1.3232818	1.06E-05
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ENSG00000164197	RNF180	-1.043767403	2.16E-05
ENSG00000116514	RNF19B	1.063752181	8.82E-05

ENSG00000158286	RNF207	-1.449919234	0.000424
ENSG00000178222	RNF212	-1.226515715	0.000879
ENSG00000189051	RNF222	3.612944764	3.17E-29
ENSG00000237330	RNF223	4.032321549	1.57E-11
ENSG00000233198	RNF224	3.026657721	0.002594
ENSG00000269855	RNF225	2.350976737	0.001944
ENSG00000204618	RNF39	2.026601161	9.39E-15
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ENSG00000165794	SLC39A2	2.73681486	2.04E-19
ENSG00000141424	SLC39A6	1.172359618	7.71E-08

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ENSG00000154025	SLC5A10	2.022738947	1.43E-06
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ENSG00000112320	SOBP	-2.11420123	6.69E-14
ENSG00000185338	SOCS1	1.259307519	0.04292
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ENSG00000138378	STAT4	-1.270578743	8.1E-05
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ENSG00000157703	SVOPL	-1.845778469	0.046427
ENSG00000147642	SYBU	-1.79088034	1.3E-15
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ENSG00000198765	SYCP1	-3.583283084	0.004307
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ENSG00000157152	SYN2	-2.367020298	1.98E-10
ENSG00000185666	SYN3	-2.844157816	0.01998
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ENSG00000101463	SYNDIG1	-2.162005161	0.03128
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ENSG00000147526	TACC1	-1.467247484	1.03E-08
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ENSG00000113407	TARS	1.153762181	1.86E-06
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ENSG00000135426	TESPA1	-1.050562658	0.027524
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ENSG00000131126	TEX101	4.720043483	2.76E-08
ENSG00000133863	TEX15	3.899178843	0.002865
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ENSG00000198176	TFDP1	1.171346408	9.2E-11
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ENSG00000105825	TFPI2	-2.74237768	5.13E-07
ENSG00000042832	TG	-3.26762375	2.44E-13
ENSG00000163235	TGFA	1.241029197	0.000238
ENSG00000105329	TGFB1	1.009084476	0.000123
ENSG00000140682	TGFB11	-1.102127664	5.98E-06
ENSG00000163513	TGFB2	-1.152939528	4.21E-05
ENSG00000069702	TGFB3	-2.02190659	4.06E-10
ENSG00000092295	TGM1	4.461982773	2.17E-26
ENSG00000125780	TGM3	3.53085275	3.82E-17
ENSG00000163810	TGM4	4.779473778	5.92E-08
ENSG00000104055	TGM5	1.827620356	1.14E-10
ENSG00000166948	TGM6	4.401834678	0.042282
ENSG00000180176	TH	5.326539404	2.61E-11
ENSG00000173451	THAP2	1.114986194	0.000227
ENSG00000178726	THBD	1.58394404	2.82E-14
ENSG00000186340	THBS2	1.014002512	0.000376
ENSG00000113296	THBS4	-1.474532456	0.002844
ENSG00000196407	THEM5	3.554235237	5.28E-22
ENSG00000126351	THRA	-1.385272577	5.48E-12
ENSG00000151365	THRSP	-4.137597003	1.07E-09
ENSG00000005108	THSD7A	-1.431064091	0.000152
ENSG00000144229	THSD7B	-2.495127395	0.000179
ENSG00000156299	TIAM1	1.261608065	3.88E-13
ENSG00000140534	TICRR	2.236287039	4.55E-10
ENSG00000078237	TIGAR	1.768269455	5.21E-08
ENSG00000140993	TIGD7	-1.559711325	3.42E-10
ENSG00000099800	TIMM13	1.336047856	1.35E-06
ENSG00000126953	TIMM8A	1.111576674	2.66E-05
ENSG00000150779	TIMM8B	1.121609816	1.4E-05
ENSG00000035862	TIMP2	-1.440332711	5.98E-07
ENSG00000100234	TIMP3	-2.812571117	5.46E-17
ENSG00000157150	TIMP4	-2.9173904	8.54E-19
ENSG00000142910	TINAGL1	-1.900246347	9.26E-15
ENSG00000167900	TK1	1.65634667	8.68E-07
ENSG00000166548	TK2	-1.34747136	7.5E-08
ENSG00000007350	TKTL1	2.750751388	0.007172
ENSG00000140950	TLDC1	1.417612894	1.97E-10
ENSG00000065717	TLE2	-2.442949267	1.97E-19
ENSG00000140332	TLE3	1.073593706	2.41E-06
ENSG00000104953	TLE6	-2.395977261	0.005801
ENSG00000038295	TLL1	-1.297002934	0.000289
ENSG00000095587	TLL2	3.863701187	0.000139
ENSG00000171914	TLN2	-2.141926983	1.02E-11
ENSG00000163762	TM4SF18	-1.012223682	0.006398
ENSG00000145107	TM4SF19	4.412886639	1.66E-10
ENSG00000149809	TM7SF2	1.032709627	0.000116
ENSG00000149488	TMC2	-3.546079492	0.015386
ENSG00000167608	TMC4	-1.920507053	9.36E-06

ENSG00000162542	TMCO4	-1.177628106	9.45E-08
ENSG00000166292	TMEM100	-1.390740593	0.00019
ENSG00000185332	TMEM105	2.609129163	1.93E-06
ENSG00000184988	TMEM106A	-1.269558117	0.00021
ENSG00000144868	TMEM108	-2.98380803	1.1E-08
ENSG00000139173	TMEM117	1.941080264	5.1E-13
ENSG00000179178	TMEM125	1.501708373	1.67E-05
ENSG00000166448	TMEM130	-3.144616379	1.4E-07
ENSG00000139364	TMEM132B	-1.038488172	0.015788
ENSG00000181234	TMEM132C	-4.167009217	2.71E-15
ENSG00000151952	TMEM132D	2.805534461	0.0258
ENSG00000181291	TMEM132E	-2.809850938	0.031894
ENSG00000181264	TMEM136	-1.058810521	0.006058
ENSG00000178826	TMEM139	-2.021043962	4.43E-14
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ENSG00000249242	TMEM150C	-1.798284817	4.86E-07
ENSG00000170006	TMEM154	1.613573505	3.04E-11
ENSG00000134851	TMEM165	1.091292884	4.56E-06
ENSG00000163449	TMEM169	-1.175874876	0.000825
ENSG00000205269	TMEM170B	-1.196310868	0.002912
ENSG00000002933	TMEM176A	-1.355409908	0.011227
ENSG00000106565	TMEM176B	-1.689383376	1.73E-06
ENSG00000152154	TMEM178A	-2.218064936	6.53E-07
ENSG00000261115	TMEM178B	-2.364059261	5.29E-07
ENSG00000164855	TMEM184A	1.130657896	1.78E-06
ENSG00000206432	TMEM200C	-3.075165634	8.18E-08
ENSG00000065600	TMEM206	1.814903207	6.18E-05
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ENSG00000214128	TMEM213	-2.664555237	0.000439
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ENSG00000263429	TMEM238L	3.483436131	0.023082
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ENSG00000181458	TMEM45A	2.478602142	5.22E-18
ENSG00000151715	TMEM45B	2.955916083	1.59E-23
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ENSG00000163472	TMEM79	2.416137296	1.96E-20
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ENSG00000137103	TMEM8B	-2.281337195	6.52E-17
ENSG00000121933	TMIGD3	2.515534433	0.00212
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ENSG00000187054	TMPRSS11A	5.094826518	0.002648
ENSG00000153802	TMPRSS11D	7.097023852	1.87E-17
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ENSG00000186452	TMPRSS12	1.971020149	0.048486
ENSG00000137747	TMPRSS13	2.24094214	1.92E-12
ENSG00000184012	TMPRSS2	-3.263738985	1.61E-06
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ENSG00000187045	TMPRSS6	-3.735858569	5.52E-11
ENSG00000133687	TMTC1	-1.707656709	6.72E-18
ENSG00000125827	TMX4	-1.138010195	2.53E-09
ENSG00000109079	TNFAIP1	1.115714798	1.21E-06
ENSG00000185215	TNFAIP2	-1.086451893	0.000227
ENSG00000183578	TNFAIP8L3	1.921556645	1.38E-08
ENSG00000173535	TNFRSF10C	2.349710185	0.014428
ENSG00000164761	TNFRSF11B	-1.306650875	0.008051
ENSG00000006327	TNFRSF12A	1.536894529	7.05E-07
ENSG00000157873	TNFRSF14	-1.052628801	0.000589
ENSG00000146072	TNFRSF21	1.841102456	5.18E-06
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ENSG00000049249	TNFRSF9	2.420098163	0.008688
ENSG00000239697	TNFSF12	-2.018292103	9.98E-16
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ENSG00000129167	TPH1	-1.574101093	0.000148
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ENSG00000124731	TREM1	2.255207743	0.0472
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ENSG00000175894	TSPEAR	-2.741315816	2.66E-05
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ENSG00000124120	TTPAL	1.018855511	2.79E-09
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ENSG00000151239	TWF1	1.645712505	3.83E-08
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ENSG00000129235	TXNDC17	1.877202827	7.3E-11
ENSG00000115514	TXNDC9	1.222704101	7.9E-06
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ENSG00000154127	UBASH3B	2.300391408	4.92E-16
ENSG00000175063	UBE2C	1.775958013	7.18E-07
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ENSG00000118939	UCHL3	1.675150053	7.24E-14
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ENSG00000131015	ULBP2	6.048579071	4.24E-19
ENSG00000131019	ULBP3	3.298586958	6.38E-06
ENSG00000177398	UMODL1	-2.996542809	0.019392
ENSG00000137766	UNC13C	-3.339462629	1.12E-08
ENSG00000107731	UNC5B	1.108864287	1.63E-08
ENSG00000182168	UNC5C	-2.217291526	2.43E-09
ENSG00000144406	UNC80	-2.329442735	0.00346
ENSG00000112494	UNC93A	4.071738425	4.61E-11
ENSG00000100024	UPB1	-2.071785585	0.000342
ENSG00000105668	UPK1A	1.92650659	0.02106
ENSG00000243566	UPK3B	-1.684530901	0.000139
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ENSG00000103005	USB1	1.075502349	7.32E-06
ENSG00000182040	USH1G	2.321606422	7.8E-11
ENSG00000130307	USHBP1	-1.21092354	0.00503
ENSG00000058056	USP13	-1.27071897	3.1E-07
ENSG00000036672	USP2	2.513769838	1.02E-10
ENSG00000170185	USP38	1.026341029	0.000505

ENSG00000136014	USP44	-1.986802648	7.98E-09
ENSG00000247746	USP51	-1.551268958	4.97E-06
ENSG00000129204	USP6	-2.033646283	0.044324
ENSG00000183520	UTP11	1.20341904	1.57E-07
ENSG00000118640	VAMP8	1.206915085	2.53E-05
ENSG00000171724	VAT1L	-1.751219555	2.12E-05
ENSG00000116035	VAX2	-1.645466853	0.007023
ENSG00000162692	VCAM1	-1.401532856	4.25E-07
ENSG00000165280	VCP	1.046527682	9.33E-05
ENSG00000165197	VEGFD	-2.808750127	0.001532
ENSG00000128564	VGf	4.435763864	5.32E-05
ENSG00000206538	VGLL3	-2.243870085	2.33E-12
ENSG00000026025	VIM	-1.306191609	7.35E-06
ENSG00000106018	VIPR2	-1.760316636	0.003015
ENSG00000167397	VKORC1	1.019070493	0.001198
ENSG00000062716	VMP1	1.288319718	2.38E-09
ENSG00000178201	VN1R1	-1.230627321	0.035269
ENSG00000093134	VNN3	6.457205902	4.33E-07
ENSG00000129003	VPS13C	-1.005850804	7.36E-07
ENSG00000176428	VPS37D	-1.059535404	0.049239
ENSG00000101842	VSIG1	2.808204718	2.02E-06
ENSG00000186806	VSIG10L	1.787076089	1.39E-08
ENSG00000019102	VSIG2	-1.124561007	0.011056
ENSG00000163032	VSNL1	1.750697218	6.18E-10
ENSG00000132821	VSTM2L	-1.08496858	0.047941
ENSG00000134258	VTCN1	-2.640112592	1.28E-07
ENSG00000165816	VWA2	-1.010913132	0.000109
ENSG00000175267	VWA3A	3.726066158	3.63E-10
ENSG00000188730	VWC2	1.010465288	0.0122
ENSG00000146530	VWDE	-1.805275989	0.036952
ENSG00000110799	VWF	-1.33985571	3.89E-07
ENSG00000169085	VXN	-2.098157615	0.026163
ENSG00000132970	WASF3	-1.638535446	2.8E-10
ENSG00000183066	WBP2NL	-1.768021951	5.34E-07
ENSG00000143951	WDPCP	-1.306678434	4.1E-07
ENSG00000150627	WDR17	-2.248520881	9.89E-05
ENSG00000118965	WDR35	-1.021559496	3.58E-07
ENSG00000160193	WDR4	1.091318333	1.46E-07
ENSG00000185798	WDR53	1.747021828	5.34E-13
ENSG00000126870	WDR60	-1.241602113	9.27E-06
ENSG00000075702	WDR62	2.063688218	1.76E-10
ENSG00000158023	WDR66	2.236127708	3.18E-09
ENSG00000166415	WDR72	-2.918234882	5.5E-11
ENSG00000116455	WDR77	1.106793917	0.000335
ENSG00000152763	WDR78	-1.289268718	3.12E-05
ENSG00000187260	WDR86	-2.292542072	0.006916
ENSG00000182931	WFDC10B	-3.654970084	4.31E-05
ENSG00000168703	WFDC12	6.226022809	8.07E-19

ENSG00000101443	WFDC2	-1.717940304	0.002147
ENSG00000124116	WFDC3	-2.586875537	4.03E-07
ENSG00000175121	WFDC5	1.417071323	1.67E-06
ENSG00000127578	WFIKKN1	-2.009064997	5.05E-05
ENSG00000173714	WFIKKN2	-4.696031932	1.16E-11
ENSG00000109501	WFS1	-1.475336271	2.06E-09
ENSG00000095397	WHRN	-1.469019306	4.67E-07
ENSG00000156076	WIF1	-4.257704996	1.1E-10
ENSG00000122574	WIPF3	-1.236391366	7.13E-06
ENSG00000064205	WISP2	-2.715703467	5.37E-09
ENSG00000165238	WNK2	-3.144534316	7.13E-11
ENSG00000085741	WNT11	-1.817106599	3.47E-08
ENSG00000105989	WNT2	-1.359046311	0.020434
ENSG00000114251	WNT5A	2.580572715	3.83E-22
ENSG00000111186	WNT5B	-1.271646535	0.000609
ENSG00000115596	WNT6	-2.223683718	0.002084
ENSG00000154764	WNT7A	2.860761822	1.42E-12
ENSG00000179314	WSCD1	-2.837829977	1.33E-14
ENSG00000075035	WSCD2	-1.805040576	0.000605
ENSG00000142279	WTIP	-1.456298575	4.31E-07
ENSG00000173578	XCR1	1.275051005	0.023235
ENSG00000124343	XG	1.098768024	3.41E-06
ENSG00000047597	XK	1.20343351	0.022608
ENSG00000206579	XKR4	-3.417447629	1.69E-08
ENSG00000182489	XKRX	2.93192363	2.62E-11
ENSG00000154767	XPC	-1.121019487	2.6E-06
ENSG00000122121	XPNPEP2	-1.766883132	9.08E-05
ENSG00000134684	YARS	1.299527817	3.43E-10
ENSG00000006047	YBX2	-2.912362269	3.77E-13
ENSG00000250067	YJEFN3	-1.266547088	0.01511
ENSG00000106636	YKT6	1.073474561	1.48E-05
ENSG00000180667	YOD1	2.693676301	1.18E-14
ENSG00000100027	YPEL1	-2.081560528	2.22E-09
ENSG00000166793	YPEL4	-1.032916092	0.018793
ENSG00000134308	YWHAQ	1.265844221	7.36E-05
ENSG00000164924	YWHAZ	1.733198337	1.14E-09
ENSG00000225528	Z82206.1	-1.089597312	0.028323
ENSG00000146839	ZAN	2.817793625	0.000173
ENSG00000115085	ZAP70	-1.326719811	0.002196
ENSG00000177494	ZBED2	3.195725299	8.34E-20
ENSG00000132846	ZBED3	-1.627826426	8.64E-09
ENSG00000100426	ZBED4	1.029568292	7.75E-07
ENSG00000188707	ZBED6CL	2.186597971	1.85E-07
ENSG00000205189	ZBTB10	-2.201888399	1.05E-08
ENSG00000109906	ZBTB16	-3.935788436	1.96E-17
ENSG00000181722	ZBTB20	-1.818155626	1.65E-07
ENSG00000114853	ZBTB47	-1.203833431	1.77E-07
ENSG00000163874	ZC3H12A	1.478949614	2.52E-07

ENSG00000102053	ZC3H12B	-2.790628831	3.18E-05
ENSG00000188177	ZC3H6	-1.857936194	7.5E-09
ENSG00000165424	ZCCHC24	-1.376533607	1.03E-07
ENSG00000078487	ZCWPW1	-1.89583269	1.93E-09
ENSG00000188818	ZDHHC11	-2.95064013	7.24E-14
ENSG00000206077	ZDHHC11B	-3.600559169	3.08E-09
ENSG00000102383	ZDHHC15	-2.089803178	4.7E-11
ENSG00000104219	ZDHHC2	-1.643452336	7.99E-14
ENSG00000180776	ZDHHC20	1.066674913	2.07E-05
ENSG00000175893	ZDHHC21	1.32192202	5.47E-07
ENSG00000156599	ZDHHC5	1.008668721	1.43E-06
ENSG00000148516	ZEB1	-1.510192506	1.01E-05
ENSG00000169554	ZEB2	-1.536894401	1.72E-06
ENSG00000140836	ZFH3	-1.106598953	3.39E-05
ENSG00000091656	ZFH4	-2.246113706	2.65E-08
ENSG00000142065	ZFP14	-1.58853027	1.46E-06
ENSG00000198939	ZFP2	-1.804770962	3.26E-06
ENSG00000196867	ZFP28	-1.668164507	4.56E-20
ENSG00000128016	ZFP36	1.589662751	2.32E-08
ENSG00000136866	ZFP37	-1.145949169	0.010233
ENSG00000179059	ZFP42	4.283882399	0.000227
ENSG00000181007	ZFP82	-1.346687636	6.86E-05
ENSG00000169946	ZFPM2	-1.879766582	9.22E-05
ENSG00000152977	ZIC1	-2.009646732	0.000196
ENSG00000174963	ZIC4	-2.389638032	1.67E-06
ENSG00000171649	ZIK1	-1.604330871	1.59E-07
ENSG00000166432	ZMAT1	-2.91485723	1.14E-12
ENSG00000066185	ZMYND12	-1.582258278	0.000501
ENSG00000256223	ZNF10	-1.027892879	0.002315
ENSG00000176293	ZNF135	-2.563018898	1.82E-11
ENSG00000196646	ZNF136	-1.062015696	4.98E-06
ENSG00000105708	ZNF14	-1.022165676	1.45E-05
ENSG00000179909	ZNF154	-1.164224531	0.021016
ENSG00000197279	ZNF165	1.265787616	4.57E-05
ENSG00000147394	ZNF185	1.850759493	8.87E-07
ENSG00000149050	ZNF214	-1.374862147	0.009074
ENSG00000149054	ZNF215	1.700217349	0.003748
ENSG00000196793	ZNF239	-1.145969427	0.028664
ENSG00000175395	ZNF25	-1.301926502	7.68E-11
ENSG00000198039	ZNF273	-1.362065931	0.000813
ENSG00000063587	ZNF275	-1.125660861	8.23E-07
ENSG00000089335	ZNF302	-1.13394927	4.25E-05
ENSG00000171467	ZNF318	-1.012592769	0.000397
ENSG00000130844	ZNF331	-1.101432031	3.38E-07
ENSG00000198185	ZNF334	-1.073327333	0.032444
ENSG00000197937	ZNF347	-1.251751411	2.36E-11
ENSG00000177932	ZNF354C	-1.168408704	3.82E-05
ENSG00000198816	ZNF358	-1.273765215	2.55E-06

ENSG00000161298	ZNF382	-1.451192103	5.94E-05
ENSG00000144331	ZNF385B	-1.469398448	0.005207
ENSG00000187595	ZNF385C	-1.873233806	0.000178
ENSG00000151789	ZNF385D	-2.0707419	3.19E-08
ENSG00000124613	ZNF391	-1.027618805	0.000931
ENSG00000186496	ZNF396	-1.262386443	0.0089
ENSG00000170954	ZNF415	-1.727607478	9.02E-14
ENSG00000196724	ZNF418	-1.547010577	2.87E-07
ENSG00000102935	ZNF423	-1.882915574	2.06E-08
ENSG00000197013	ZNF429	-1.088267466	1.16E-05
ENSG00000198521	ZNF43	-1.672670984	5.85E-10
ENSG00000197044	ZNF441	-1.001470942	1.29E-07
ENSG00000196263	ZNF471	-1.969701142	7.75E-12
ENSG00000173258	ZNF483	-1.666589229	0.002398
ENSG00000186446	ZNF501	-1.011550054	0.000163
ENSG00000081665	ZNF506	-1.027722847	4.22E-05
ENSG00000175322	ZNF519	-1.443272262	7.96E-07
ENSG00000198795	ZNF521	-1.339777515	2.53E-05
ENSG00000167555	ZNF528	-1.608982452	1.84E-10
ENSG00000171817	ZNF540	-1.506221536	3.36E-05
ENSG00000118156	ZNF541	-2.218309588	2.35E-06
ENSG00000187187	ZNF546	-2.074094048	5.03E-07
ENSG00000188321	ZNF559	-1.42652871	3.34E-10
ENSG00000198453	ZNF568	-1.234220549	3.07E-10
ENSG00000196437	ZNF569	-1.080743467	3.19E-06
ENSG00000171970	ZNF57	1.119461418	6.3E-06
ENSG00000180938	ZNF572	-1.113153577	0.011976
ENSG00000189144	ZNF573	-1.124313521	0.000648
ENSG00000161551	ZNF577	-2.070725257	4.34E-12
ENSG00000258405	ZNF578	-1.768663613	0.041134
ENSG00000198440	ZNF583	-1.136282738	0.00092
ENSG00000142684	ZNF593	1.295233342	2.78E-05
ENSG00000196458	ZNF605	-1.169576328	0.000436
ENSG00000166704	ZNF606	-1.041474879	7.78E-06
ENSG00000168916	ZNF608	-1.167880455	0.000468
ENSG00000167554	ZNF610	-1.912450366	0.00017
ENSG00000157657	ZNF618	-1.259904374	0.000315
ENSG00000177842	ZNF620	-1.195727759	0.024669
ENSG00000188171	ZNF626	-1.132495918	3.63E-05
ENSG00000144792	ZNF660	-1.364240489	0.005845
ENSG00000182983	ZNF662	1.196941473	2.6E-13
ENSG00000197497	ZNF665	-2.151767344	6.79E-10
ENSG00000198046	ZNF667	-2.14070097	2.51E-07
ENSG00000196109	ZNF676	-2.744113348	0.001207
ENSG00000197928	ZNF677	-1.882955297	6.77E-16
ENSG00000198429	ZNF69	-1.708064907	3.22E-05
ENSG00000164684	ZNF704	-1.566026216	3.07E-06
ENSG00000120963	ZNF706	1.239220874	5.45E-13

ENSG00000140548	ZNF710	1.417608676	3.65E-12
ENSG00000141579	ZNF750	1.88679973	6.03E-10
ENSG00000198146	ZNF770	1.251140583	2.7E-09
ENSG00000196381	ZNF781	-1.512309076	0.017931
ENSG00000188227	ZNF793	-1.10323913	0.00082
ENSG00000185869	ZNF829	-1.01177839	0.000336
ENSG00000167766	ZNF83	-1.47896609	4.34E-09
ENSG00000127903	ZNF835	-2.031001889	0.000691
ENSG00000223547	ZNF844	-1.003418775	0.000196
ENSG00000236609	ZNF853	-2.341450482	1.05E-10
ENSG00000106479	ZNF862	-1.00755274	0.000537
ENSG00000257446	ZNF878	3.333548656	0.000275
ENSG00000221923	ZNF880	-1.063221268	0.000593
ENSG00000213988	ZNF90	-1.286689398	0.002162
ENSG00000167232	ZNF91	-1.375644316	1.15E-08
ENSG00000066379	ZNRD1	1.091565556	3.74E-07
ENSG00000180233	ZNRF2	1.416142079	0.002111
ENSG00000121413	ZSCAN18	-2.528092218	8.47E-15
ENSG00000235109	ZSCAN31	1.115230699	1.17E-06
ENSG00000132003	ZSWIM4	1.36177892	4.08E-09
ENSG00000162415	ZSWIM5	-1.426213781	0.000116
ENSG00000174442	ZWILCH	1.107480747	2.82E-08
ENSG00000122952	ZWINT	1.717316395	4.56E-12
ENSG00000203995	ZYG11A	2.333163776	0.000317

Table S6: Full list of DEGs (adjusted P<0.05) in non-lesional PN (n=13) vs. matched healthy skin (n=13)

GeneID	GeneName	logFC (PN_Nonlesional / Healthy_Control)	padj
ENSG00000147614	ATP6V0D2	4.256276934	0.0006
ENSG00000178789	CD300LB	4.176017856	0.0019
ENSG00000133063	CHIT1	3.947603422	0.0064
ENSG00000160883	HK3	2.150003849	0.0485
ENSG00000243466	IGKV1-5	-6.05167934	0.0019
ENSG00000188581	KRTAP1-1	12.37797291	0.0456
ENSG00000100985	MMP9	2.767089015	0.0049
ENSG00000135094	SDS	4.202139644	0.0005
ENSG00000165646	SLC18A2	-1.097278894	0.001
ENSG00000118785	SPP1	3.749495416	0.0099
ENSG00000136011	STAB2	-3.421817801	0.0001
ENSG00000145107	TM4SF19	3.669966075	0.0005
ENSG00000095970	TREM2	2.725696691	0.0001

Table S7: Full list of DEGs (adjusted P<0.05) in African American (n=10) compared to European American (n=3) PN lesional skin. Select immune genes (IL4, IL5, IL13, IL31) are also shown.

Gene	log2FC	P-value	Adjusted P-value
AL928921.1	21.08062577	6.4E-18	2E-13
MTND1P23	8.416607267	3.1E-17	5E-13
PLPPR5	20.79151872	2.3E-10	2.4E-06
MTCO1P40	4.861051078	8.9E-10	7.1E-06
AC233755.1	23.2987727	1.7E-08	0.00011
MTCO1P12	3.908318794	4E-08	0.00021
CYP1A1	10.35776133	3E-07	0.00137
AC233755.2	23.98687336	4E-07	0.00157
MIR6723	10.07815427	5.7E-07	0.00203
CT83	21.87264078	3.8E-06	0.01111
IGHV1-69D	21.85605214	3.8E-06	0.01111
IGHV5-10-1	21.75424261	4.3E-06	0.01129
IGHV3-43	21.51515426	5.4E-06	0.01328
IGKV1-16	21.14512804	7.8E-06	0.01708
MTCO1P53	5.622433145	8E-06	0.01708
IGHV2-70	20.78332434	1.1E-05	0.02183
ANGPTL5	6.143201662	1.2E-05	0.02183
NPIPB2	3.728486561	1.4E-05	0.02503
CFAP61	6.198673742	1.5E-05	0.02503
WASHC1	-1.565362268	2E-05	0.03167
CXorf57	1.433443939	2.1E-05	0.03167
IL4	-3.594439035	0.4177	0.99985
IL5	-4.987569857	0.04358	0.99985
IL13	-3.300233034	0.05036	0.99985
IL31	-5.172837444	0.26567	0.99985

Table S8: Full list of DEGs (adjusted $P < 0.05$) in African American (n=10) compared to European American (n=3) non-lesional PN skin.

Gene	log2FC	P-value	Adjusted P-value
MTND1P23	8.823431825	3.6E-19	1.1E-14
MTCO1P40	5.119252291	1E-10	1.6E-06
MCEMP1	17.59924557	1.5E-10	1.6E-06
MTCO1P12	4.064941458	1.1E-08	7.7E-05
NELL1	6.728940634	1.2E-08	7.7E-05
AC084871.2	20.01200709	6.2E-08	0.00033
FCAR	18.87276485	1.4E-07	0.00065
KRTAP10-1	21.0442747	1.8E-07	0.00072
MMP10	14.84217501	2.2E-07	0.00078
AC123912.2	17.87852516	3.6E-07	0.00116
MIR6723	10.18998831	4.3E-07	0.00125
MTND4P24	4.191677255	1.1E-06	0.00297
AC091946.1	7.59272826	1.3E-06	0.0031
CHRNA9	8.87590683	1.4E-06	0.0031
ARG1	5.116522432	3.6E-06	0.0076
SERPINA12	4.556508793	4.5E-06	0.00891
CYP1A1	7.631498667	5.1E-06	0.00948
SPINK7	6.390691866	9.3E-06	0.01569
CT83	20.96761676	9.4E-06	0.01569
MUC16	2.913390205	1.4E-05	0.02162
AC005255.1	5.089548252	1.4E-05	0.02162
C6orf10	-7.981238264	1.7E-05	0.02403
MUC21	19.77155631	1.9E-05	0.02542
SPRR2C	17.55152722	2E-05	0.02542
SLC47A2	2.985166103	2E-05	0.02542
AC010776.3	7.317391684	2.5E-05	0.03041
MTCO1P53	5.175105766	2.9E-05	0.03376
IGHM	-5.376963806	3.4E-05	0.03847