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Supplementary Table

gene	expr	rep-time	hic	N_non-silent	N_si-lent	N_ non-cod-ing	n_ non-si-lent	n_si-lent	n_ non-cod-ing	nnei	x	X	p	q	de-scrip-tion
RBM43	215149	617	17	17941	4865	0	3	0	0	50	0	355607	8.75E-03	1	RNA binding motif protein 43
HGC6.3	NaN	NaN	NaN	7980	2856	0	2	0	0	50	2	782404	1.24E-02	1	
KRTAP4-9	NaN	NaN	NaN	10563	2730	0	2	0	0	50	2	782278	1.71E-02	1	Keratin Asso-ciated Protein 4-9
GNGT2	868792	346	21	3731	847	0	1	0	0	50	0	387961	4.45E-02	1	Guanine Nucle-otide Binding Pro-tein (G Protein), Gamma Trans-ducing Activity Poly-peptide 2
CENPW	142596	704	-1	4466	1309	0	1	0	0	50	0	416325	5.00E-02	1	Cen-tromere Protein W
IFITM2	1454043	344	48	6580	1925	0	1	0	0	50	1	572572	6.57E-02	1	
GHRH	787991	404	44	5684	1477	0	1	0	0	50	1	450513	7.38E-02	1	
ATP6V1G3	105821	404	-16	7434	1365	0	1	0	0	50	0	396606	8.27E-02	1	
KRTAP4-11	NaN	NaN	NaN	9849	2541	0	1	0	0	50	2	782089	8.98E-02	1	
UBE2M	2673870	276	11	9569	2443	0	1	0	0	50	0	476175	9.27E-02	1	
BFAR	519767	367	45	22946	6055	0	2	0	0	50	1	359597	9.70E-02	1	
GADD45G	163029	568	52	8036	2296	0	1	0	0	50	0	399042	9.90E-02	1	
PLA2G2D	567393	501	23	7616	1876	0	1	0	0	50	0	343819	1.05E-01	1	
IQCF3	849777	453	39	7945	2114	0	1	0	0	50	0	357847	1.06E-01	1	
ZNF747	2214934	142	54	8946	3234	0	1	0	0	50	0	431557	1.09E-01	1	
APOBEC3A	1413709	372	44	10262	2674	0	1	0	0	50	1	528017	1.09E-01	1	
CNN2	2387949	206	26	15729	4305	0	1	0	0	50	0	637042	1.17E-01	1	
TMC5	522510	369	13	56511	15162	0	1	0	0	50	0	439831	1.26E-01	1	
SERPING1	923607	249	32	24822	7371	0	2	0	0	50	2	356237	1.26E-01	1	
CRIP3	1293543	363	51	10759	2744	0	1	0	0	50	1	480879	1.28E-01	1	
KRTAP5-8	586193	626	50	9352	2534	0	1	0	0	50	0	337253	1.36E-01	1	
SRI	157359	454	23	10682	2695	0	1	0	0	50	0	357756	1.37E-01	1	
GPAT2	792288	366	33	39536	12376	0	2	0	0	50	0	435953	1.38E-01	1	
DNAJC25	NaN	NaN	NaN	18207	4872	0	1	0	0	50	2	784420	1.43E-01	1	
LRRN4CL	2425755	248	51	11200	3941	0	1	0	0	50	0	393407	1.46E-01	1	

CD79B	1455216	404	25	11893	3122	0	1	0	0	50	0	367892	1.48E-01	1	
COPS8	336171	411	17	10913	2905	0	1	0	0	50	2	458003	1.49E-01	1	
RBMXL3	NaN	NaN	NaN	51842	15484	0	2	1	0	50	3	795032	1.50E-01	1	
GRINA	2580629	247	28	18389	5551	0	1	0	0	50	0	555072	1.54E-01	1	
ZMYND19	1315685	404	41	11613	3171	0	1	0	0	50	1	412846	1.56E-01	1	
OR5AU1	730598	357	36	17556	5292	0	1	0	0	50	0	482874	1.59E-01	1	
TSR2	296262	NaN	5	9842	2632	0	1	0	0	50	1	338128	1.63E-01	1	
EPM2A	76860	748	-3	16884	4956	0	1	0	0	50	0	463309	1.69E-01	1	
INHA	548994	487	35	17038	6167	0	1	0	0	50	0	489825	1.69E-01	1	
CHAD	1332860	200	23	17507	5467	0	1	0	0	50	0	475419	1.70E-01	1	
ASB11	201763	NaN	43	18277	5201	0	1	0	0	50	0	473081	1.72E-01	1	
CHST13	289633	508	52	15995	5719	0	1	0	0	50	0	458598	1.73E-01	1	
LGALS8	464894	556	5	18613	4844	0	1	0	0	50	0	448672	1.76E-01	1	
HSD3B7	1453326	247	43	18235	5579	0	1	0	0	50	0	486857	1.78E-01	1	
NCR2	338294	510	40	13657	4214	0	1	0	0	50	0	348866	1.80E-01	1	
TRIM49	151171	1107	-28	23387	5656	0	1	0	0	50	0	550627	1.81E-01	1	
WBSCR27	1099366	208	37	12019	3899	0	1	0	0	50	0	321020	1.81E-01	1	
LYSMD4	173729	507	16	14812	4298	0	1	0	0	50	0	364777	1.82E-01	1	
FAM50B	271690	208	30	16093	4529	0	1	0	0	50	0	409801	1.84E-01	1	
PRB4	311837	673	-1	11837	4081	0	1	0	0	50	0	322994	1.86E-01	1	
ZDHHC11	843639	408	28	21224	5803	0	1	0	0	50	0	502985	1.86E-01	1	
SLC35C1	431496	381	20	17332	5747	0	1	0	0	50	0	414246	1.90E-01	1	
TUFM	1146511	221	56	22484	7000	0	1	0	0	50	0	539336	1.91E-01	1	
PILRA	1430637	204	54	15337	4319	0	1	0	0	50	0	357602	1.94E-01	1	
CTNS	504736	354	20	20755	5789	0	1	0	0	50	0	460019	1.96E-01	1	
TTC4	615595	343	19	20195	5047	0	1	0	0	50	0	443107	1.97E-01	1	
OR10G9	107524	830	-5	14861	4753	0	1	0	0	50	1	386491	1.98E-01	1	
RPH3AL	231893	591	2	15876	4704	0	1	0	0	50	0	372134	2.01E-01	1	
SCAMP1	222123	434	39	17444	4564	0	1	0	0	50	1	429380	2.06E-01	1	
PIM1	705207	236	50	15750	4452	0	1	0	0	50	1	408653	2.07E-01	1	
TRIM44	605264	411	-6	17885	4186	0	1	0	0	50	0	383768	2.09E-01	1	
ROGDI	706891	195	33	14833	4193	0	1	0	0	50	1	383229	2.10E-01	1	
ASAH1	366238	474	20	23240	6013	0	1	0	0	50	0	459032	2.13E-01	1	
TUBA1A	2141275	214	56	22302	6468	0	1	0	0	50	0	460376	2.14E-01	1	
PYGO1	306625	405	-9	20769	5859	0	1	0	0	50	0	416920	2.14E-01	1	
CCDC47	1259976	346	12	25529	5971	0	1	0	0	50	0	497035	2.14E-01	1	
MPG	1005761	238	36	14966	4753	0	1	0	0	50	0	326879	2.17E-01	1	
G3BP1	584468	406	46	23835	6594	0	1	0	0	50	0	480487	2.19E-01	1	
ESAM	168652	622	14	18837	6300	0	1	0	0	50	0	388325	2.22E-01	1	
NMUR1	1052303	216	43	20251	6818	0	1	0	0	50	1	499135	2.22E-01	1	
UGT2B11	18988	929	1	26880	6972	0	1	0	0	50	0	492037	2.22E-01	1	
PPARA	536661	179	24	23667	6384	0	1	0	0	50	0	447734	2.24E-01	1	
RSPH1	411865	374	67	16219	3983	0	1	0	0	50	1	370958	2.28E-01	1	
PARVG	201266	327	30	17248	4676	0	1	0	0	50	1	383600	2.32E-01	1	
WIPF3	400552	579	17	22827	8169	0	1	0	0	50	0	472311	2.33E-01	1	
TKTL1	2436137	NaN	14	30114	8505	0	1	0	0	50	0	563318	2.33E-01	1	
GIMAP4	563029	671	24	16541	4417	0	1	0	0	50	1	356139	2.34E-01	1	
SLC38A5	726793	NaN	2	24122	6916	0	1	0	0	50	0	443898	2.37E-01	1	
METAP1	218494	549	21	19978	5243	0	1	0	0	50	0	354459	2.38E-01	1	
ICAM1	1729517	200	31	25585	8498	0	1	0	0	50	0	472304	2.43E-01	1	

GXYLT2	144572	420	14	22092	6384	0	1	0	0	50	0	389095	2.46E-01	1	
LRFN4	NaN	NaN	NaN	29113	11039	0	1	0	0	50	2	790587	2.46E-01	1	
CBX6	1317460	358	54	19677	6720	0	1	0	0	50	0	372680	2.46E-01	1	
LILRA1	978578	625	-1	24262	7364	0	1	0	0	50	0	435701	2.47E-01	1	
EEF1G	2695768	217	42	22491	5901	0	1	0	0	50	1	466214	2.48E-01	1	
DUOXA1	667418	544	27	25662	7476	0	1	0	0	50	1	542409	2.53E-01	1	
PRCC	1649536	208	53	24024	7476	0	1	0	0	50	0	427007	2.53E-01	1	
GPR123	296872	499	-10	26978	8785	0	1	0	0	50	0	488915	2.54E-01	1	
ADRB1	272214	502	25	22064	8092	0	1	0	0	50	0	400470	2.57E-01	1	
CDK10	1090549	219	38	19425	5397	0	1	0	0	50	0	325458	2.59E-01	1	
FAM131B	379715	379	29	18186	5061	0	1	0	0	50	2	435267	2.61E-01	1	
RBMX	275533	NaN	28	21959	4606	0	1	0	0	50	1	422751	2.69E-01	1	
ESX1	354255	NaN	47	19537	6398	0	1	0	0	50	1	393722	2.77E-01	1	
SHROOM2	157955	NaN	0	78120	24549	0	2	0	0	50	0	488831	2.77E-01	1	
ZFYVE19	1023960	172	48	23681	6895	0	1	0	0	50	0	384104	2.77E-01	1	
DIRC2	423454	412	37	23429	7420	0	1	0	0	50	1	424291	2.78E-01	1	
ME3	346701	316	1	30380	8911	0	1	0	0	50	0	464660	2.78E-01	1	
APOBEC3F	1386387	372	71	21539	5404	0	1	0	0	50	0	315784	2.83E-01	1	
ACVR2B	337567	514	28	25851	7350	0	1	0	0	50	1	472934	2.83E-01	1	
FZD5	335586	341	26	27762	9156	0	1	0	0	50	0	433881	2.85E-01	1	
TUBA3D	455705	540	29	22232	6559	0	1	0	0	50	1	392469	2.86E-01	1	
MX1	253874	454	53	33901	8960	0	1	0	0	50	0	480564	2.88E-01	1	
PPM1J	559669	325	27	24640	8036	0	1	0	0	50	1	455399	2.90E-01	1	
CYP2C9	278564	721	-15	25046	6601	0	1	0	0	50	0	341635	2.90E-01	1	
CPNE6	992350	355	19	28399	8099	0	1	0	0	50	0	418383	2.90E-01	1	
VWA1	1736268	273	28	21182	7084	0	1	0	0	50	1	412650	2.91E-01	1	
SLC1A6	961949	546	4	27433	8918	0	1	0	0	50	1	474369	2.94E-01	1	
PAQR8	372545	431	33	17157	5292	0	1	1	0	35	1	294987	2.94E-01	1	
LRCH2	210224	NaN	-8	39613	10367	0	1	0	0	50	0	534989	2.96E-01	1	
ACHE	1339207	433	48	31311	10563	0	1	0	0	50	0	470988	2.97E-01	1	
ALDH3B1	1357582	356	31	23086	7091	0	1	0	0	50	1	406392	2.98E-01	1	
CD5	805103	546	37	25046	7063	0	1	0	0	50	0	360913	2.98E-01	1	
ZNF28	557083	1008	-39	33901	8141	0	1	0	0	50	0	434238	3.01E-01	1	
SLC37A1	440393	284	67	27328	7826	0	1	0	0	50	1	448238	3.02E-01	1	
ARSE	191640	NaN	18	29540	8470	0	1	0	0	50	0	407519	3.04E-01	1	
ENPP7	633863	209	31	22624	6755	0	1	0	0	50	1	377916	3.05E-01	1	
GDF7	580167	278	28	20818	7721	0	1	0	0	50	1	387933	3.05E-01	1	
TYMP	1075525	207	42	23331	8022	0	1	0	0	50	1	421141	3.07E-01	1	
TJAP1	1278255	230	56	27496	8477	0	1	0	0	50	0	392392	3.07E-01	1	
CHRNA3	495901	373	46	28168	7616	0	1	0	0	50	1	429856	3.08E-01	1	
TCF3	2396187	262	31	36463	11249	0	1	0	0	50	0	521521	3.11E-01	1	
CPN2	344707	269	34	26019	8463	0	1	0	0	50	0	343035	3.18E-01	1	
RBPJL	1005559	233	36	25872	7770	0	1	0	0	50	0	345058	3.21E-01	1	
NCKIPSD	1646019	212	45	35336	11263	0	1	0	0	50	0	466214	3.25E-01	1	
DACT3	1139694	347	28	29001	10983	0	1	0	0	50	0	420014	3.26E-01	1	
ALDH6A1	495634	236	40	26957	7777	0	1	0	0	50	0	329602	3.29E-01	1	
ZP3	870785	220	59	21161	6286	0	1	0	0	50	2	375074	3.29E-01	1	
ACSL6	331471	484	25	38437	10535	0	1	0	0	50	0	469889	3.31E-01	1	
F13B	220645	802	-30	34293	8379	0	1	0	0	50	1	455392	3.35E-01	1	
AMDHD2	2085452	321	49	31801	9464	0	1	0	0	50	0	413910	3.37E-01	1	

CPSF3L	1744013	273	28	30800	8449	0	1	0	0	50	1	448280	3.39E-01	1	
LILRA6	717623	458	-6	23793	7161	0	1	0	0	50	1	354487	3.40E-01	1	
C1orf127	702484	307	33	39732	13188	0	1	0	0	50	0	500479	3.43E-01	1	
ANO9	2206786	344	58	40089	11130	0	1	0	0	50	0	474446	3.44E-01	1	
LRCH4	1651125	242	60	33348	11214	0	1	0	0	50	0	417816	3.45E-01	1	
MTA2	2695768	217	42	33880	9695	0	1	0	0	50	1	466214	3.52E-01	1	
GARS	504898	433	42	37674	10290	0	1	0	0	50	1	489181	3.56E-01	1	
SLC25A25	1898149	195	32	31605	9135	0	1	0	0	50	1	432509	3.56E-01	1	
AIM1L	1021101	217	22	31311	8904	0	1	0	0	50	0	364840	3.57E-01	1	
MBD2	98718	437	6	23604	7245	0	1	0	0	50	1	329224	3.61E-01	1	
ZP1	794900	522	47	31577	9688	0	1	0	0	50	1	430885	3.64E-01	1	
ANO5	51558	935	-7	47635	11711	0	1	0	0	50	0	477729	3.66E-01	1	
ZNF23	383757	648	-2	32984	7756	0	1	0	0	50	0	332696	3.69E-01	1	
CPT1A	619314	303	45	40222	10892	0	1	0	0	50	0	420903	3.73E-01	1	
CDH20	45961	896	-6	40229	11179	0	1	0	0	50	0	421568	3.75E-01	1	
NEK5	407938	432	42	37457	8890	0	1	0	0	50	1	441231	3.76E-01	1	
NAGS	920082	241	29	25683	8526	0	1	0	0	50	1	343385	3.77E-01	1	
ATG9B	622098	373	41	44366	15022	0	1	0	0	50	0	494340	3.79E-01	1	
RAP1GDS1	116633	909	6	31360	8183	0	1	0	0	50	1	362705	3.80E-01	1	
PCDHA6	896676	606	-12	45871	14630	0	1	0	0	50	0	476784	3.82E-01	1	
CCDC13	369284	309	33	36176	10192	0	1	0	0	50	0	370545	3.86E-01	1	
MGRN1	729674	157	41	30058	8603	0	1	0	0	50	2	436744	3.88E-01	1	
MX2	241283	506	46	36673	9527	0	1	0	0	50	0	356678	3.88E-01	1	
HNRNPUL1	1186597	214	24	43204	11963	0	1	0	0	50	0	443233	3.93E-01	1	
EPX	851306	401	14	35175	10941	0	1	0	0	50	0	356300	3.94E-01	1	
SARDH	720319	481	29	45836	13741	0	1	0	0	50	0	473914	3.95E-01	1	
GANAB	2560761	217	47	49070	13909	0	1	0	0	50	0	486955	3.97E-01	1	
ZNF185	235275	NaN	23	39284	11116	0	1	0	0	50	0	398573	4.01E-01	1	
CARD9	1194160	258	28	28084	7826	0	1	0	0	50	1	330967	4.08E-01	1	
KPNB1	1198427	217	24	44863	12173	0	1	0	0	50	0	409640	4.09E-01	1	
PFKL	1153513	308	65	39382	11627	0	1	0	0	50	0	374122	4.15E-01	1	
DPYSL5	1261383	378	36	28301	8302	0	1	0	0	50	2	372064	4.15E-01	1	
RAD54L	690472	205	31	38066	10570	0	1	0	0	50	0	346409	4.18E-01	1	
CXorf22	3828	NaN	-13	49721	13132	0	1	1	0	50	2	555303	4.31E-01	1	
FAM129C	961640	206	42	35987	11662	0	1	0	0	50	2	473305	4.31E-01	1	
BCAM	920101	196	-3	31080	9807	0	1	0	0	50	1	348103	4.34E-01	1	
NCOA6	1006385	170	47	101038	30086	0	2	0	0	50	0	395409	4.38E-01	1	
PCSK1	525524	288	24	39088	10409	0	1	0	0	50	0	327418	4.39E-01	1	
STK11IP	548994	487	35	54236	17122	0	1	0	0	50	0	489825	4.39E-01	1	
SMG5	2266205	211	33	51492	14343	0	1	0	0	50	0	435456	4.45E-01	1	
PNPLA7	1453700	213	35	67277	20188	0	1	0	0	50	0	582071	4.46E-01	1	
KIAA1324	994979	215	25	51471	14175	0	1	0	0	50	0	428141	4.46E-01	1	
WWP1	193108	1112	-6	47957	12124	0	1	0	0	50	0	375165	4.50E-01	1	
LRP8	563155	310	23	48937	13307	0	1	0	0	50	0	413756	4.52E-01	1	
GRM5	158962	944	-23	59640	17451	0	1	0	0	50	0	482538	4.54E-01	1	
PRSS36	1296884	351	35	41636	13510	0	1	1	0	50	1	440783	4.58E-01	1	
ZNF541	NaN	NaN	NaN	67004	20230	0	1	0	0	50	2	799778	4.58E-01	1	
CDHR5	1774224	236	57	40887	13587	0	1	0	0	50	0	351330	4.60E-01	1	
L1CAM	2328608	NaN	27	63903	17619	0	1	0	0	50	0	517979	4.63E-01	1	

PRPF4B	182705	353	18	51478	13244	0	1	0	0	50	0	376488	4.69E-01	1	
MMRN1	39671	703	-11	61509	16548	0	1	0	0	50	2	603981	4.70E-01	1	
CRIM1	267484	414	-1	52654	14063	0	1	0	0	50	0	406469	4.73E-01	1	
SIN3B	854784	305	35	58583	16324	0	1	0	0	50	0	452263	4.80E-01	1	
OTOA	520295	466	45	58625	16450	0	1	0	0	50	1	520471	4.83E-01	1	
KIFC2	2043455	200	36	40201	14042	0	1	0	0	50	0	332850	4.83E-01	1	
MYCBPAP	1432761	200	22	49735	13874	0	1	0	0	50	0	372456	4.84E-01	1	
PHF20L1	195342	773	-4	54334	13496	0	1	0	0	50	0	383586	4.87E-01	1	
MKL1	578345	228	55	45185	14539	0	1	0	0	50	1	424669	4.88E-01	1	
EVC	101111	641	18	49903	14336	0	1	0	0	50	0	373884	4.90E-01	1	
KLB	648710	177	43	51576	14637	0	1	0	0	50	1	434896	4.91E-01	1	
ACAD10	599161	203	33	54635	15862	0	1	0	0	50	0	389137	5.02E-01	1	
FOXP4	461476	388	43	34118	10129	0	1	0	0	50	2	358939	5.02E-01	1	
PRDM9	15618	1069	-19	45395	11830	0	1	0	0	50	1	381052	5.05E-01	1	
HGS	3745109	205	30	39858	10962	0	1	0	0	50	1	351778	5.06E-01	1	
DIAPH1	696745	502	14	64736	17731	0	1	0	0	50	0	442071	5.11E-01	1	
NHSL1	NaN	NaN	NaN	80913	25200	0	1	0	0	50	2	804748	5.14E-01	1	
NOS2	474206	541	-22	58695	16191	0	1	0	0	50	0	397873	5.19E-01	1	
ARHGAP30	689033	250	23	54068	16282	0	1	0	0	50	0	374983	5.27E-01	1	
CRAMP1L	1534704	320	36	61992	19614	0	1	0	0	50	0	429919	5.28E-01	1	
GEMIN4	662733	483	10	51373	15428	0	1	0	0	50	0	336147	5.30E-01	1	
MUC4	920866	365	49	59437	16646	0	1	0	0	50	1	480389	5.30E-01	1	
PHLDB1	1404506	161	46	67200	21462	0	1	0	0	50	0	462532	5.31E-01	1	
PRRT3	950574	170	54	45276	16842	0	1	0	0	50	1	396298	5.32E-01	1	
GTF2IRD1	896611	194	52	48664	14000	0	1	0	0	50	1	375998	5.41E-01	1	
EPB41L3	57432	1036	-5	54845	15547	0	1	0	0	50	0	344771	5.41E-01	1	
SETDB1	1688656	172	31	65198	17962	0	1	0	0	50	0	399707	5.50E-01	1	
CNGB1	822498	125	10	64463	17689	0	1	0	0	50	0	404362	5.54E-01	1	
ATP10A	104149	1350	-49	73857	22323	0	1	0	0	50	1	542682	5.56E-01	1	
DGKI	196508	861	-7	54901	15050	0	1	0	0	50	2	462385	5.60E-01	1	
KRBA1	471461	615	29	49812	16380	0	1	0	0	50	1	399427	5.61E-01	1	
KIF21B	552427	490	32	81592	23555	0	1	0	0	48	0	484148	5.71E-01	1	
MYOM2	104051	570	-26	75432	19950	0	1	0	0	50	0	430605	5.75E-01	1	
NPC1	347696	164	64	64680	17913	0	1	0	0	50	1	429373	5.75E-01	1	
ADCY9	740126	140	19	66675	19467	0	1	0	0	50	0	374696	5.83E-01	1	
NCKAP5L	1560163	231	56	63091	21938	0	1	0	0	50	0	383215	5.88E-01	1	
KCNT1	404991	494	38	62538	17892	0	1	0	0	50	0	353402	5.88E-01	1	
HELZ	345587	399	-25	98168	26761	0	1	0	0	50	0	524853	5.91E-01	1	
SH3TC1	172983	242	51	64946	20713	0	1	0	0	50	0	375424	5.92E-01	1	
TNN	169074	612	14	65205	18207	0	1	0	0	50	0	365414	5.94E-01	1	
ATP2B3	940418	NaN	24	63287	18550	0	1	0	0	50	0	344638	5.99E-01	1	
C10orf12	1008851	512	25	61481	17143	0	1	0	0	50	1	379652	6.07E-01	1	
RGS3	408310	330	38	70875	20832	0	1	0	0	50	0	386162	6.08E-01	1	
FAM186A	NaN	NaN	NaN	115563	33243	0	1	0	0	50	2	812791	6.13E-01	1	
SDK2	182941	571	-22	108346	32249	0	1	0	0	50	0	542773	6.36E-01	1	
CLSTN1	614159	177	31	50001	13377	0	1	0	0	42	1	256032	6.81E-01	1	
WDR81	1447501	189	32	93758	30646	0	1	0	0	50	0	424319	6.82E-01	1	
PARP4	340065	606	39	87955	23471	0	1	0	0	50	0	358925	6.84E-01	1	
TUBGCP6	944000	242	49	89390	27328	0	1	1	0	50	1	466228	6.92E-01	1	

ARHGAP5	153921	392	1	75509	19600	0	1	0	0	27	0	280987	7.01E-01	1	
F5	294416	415	11	112497	29694	0	1	0	0	50	0	436051	7.03E-01	1	
DOCK6	1691034	233	32	101948	31066	0	1	0	0	50	0	415884	7.11E-01	1	
TNS1	500812	399	23	85533	26187	0	1	0	0	50	2	433139	7.26E-01	1	
PTPN13	239175	533	31	126917	33964	0	1	0	0	50	0	448028	7.32E-01	1	
CACNA1H	1275017	294	21	114933	36225	0	1	0	0	50	0	431151	7.47E-01	1	
MYO7A	442776	450	42	113008	31304	0	1	0	0	50	1	481628	7.48E-01	1	
ARHGEF17	601834	218	54	99309	32445	0	1	0	0	50	1	422884	7.74E-01	1	
CELSR1	467110	260	11	146776	46025	0	1	0	0	50	0	500647	7.75E-01	1	
COL7A1	1386275	212	37	146209	49175	0	1	0	0	50	0	533974	7.75E-01	1	
KIF13B	333305	417	42	92540	25879	0	1	0	0	50	3	480123	7.76E-01	1	
SPTBN4	915378	177	37	126728	39739	0	1	0	0	50	0	435078	7.80E-01	1	
ACACB	528828	519	29	124152	35091	0	1	1	0	50	1	473459	7.83E-01	1	
MUC2	1467711	466	43	139552	41888	0	1	0	0	50	0	458003	7.85E-01	1	
CACNA1F	724395	NaN	44	99883	28763	0	1	0	0	50	2	414680	8.07E-01	1	
PKD1L2	290329	327	3	123354	36561	0	1	0	0	43	0	359289	8.17E-01	1	
PRUNE2	178730	851	-15	154462	41657	0	1	0	0	50	0	405692	8.35E-01	1	
FASN	3850694	197	34	122920	38864	0	1	1	0	50	1	370034	8.70E-01	1	
VCAN	253331	529	0	166852	48335	0	1	0	0	50	0	367570	8.80E-01	1	
DNAH11	118223	671	8	231084	60795	0	1	0	0	47	0	491589	8.84E-01	1	
FLG	433645	548	21	197498	58576	0	1	0	0	38	0	385154	9.25E-01	1	
KNTC1	917926	215	37	115213	29309	0	1	0	0	23	0	195923	9.27E-01	1	
MTOR	577167	416	32	129458	35980	0	1	0	0	34	0	234563	9.27E-01	1	
CIC	790787	299	37	76013	26992	0	1	0	0	11	0	99631	9.81E-01	1	
CDH23	641879	524	41	173726	52087	0	1	0	0	13	0	157052	9.94E-01	1	
CELSR3	1516147	212	41	159068	52507	0	1	0	0	10	0	147595	9.95E-01	1	
AHNAK2	854493	205	30	279237	86415	0	2	0	0	7	0	141169	9.99E-01	1	
SMARCC2	2878044	171	40	63070	17780	0	1	0	0	3	0	39599	9.99E-01	1	
OBSCN	698626	316	9	408023	128170	0	1	0	0	9	0	200214		1	
FSIP2	44989	953	4	350707	91994	0	1	0	0	5	0	125083		1	
STARD9	NaN	NaN	NaN	231567	67326	0	1	0	0	4	0	92981		1	
MUC16	551668	537	-61	687435	233583	0	1	0	0	0	0	233583		1	
A1BG	1621097	406	-25	24066	7812	0	0	0	0	50	1	390894	1	1	
A1CF	113129	613	19	32088	9030	0	0	0	0	50	0	395605	1	1	
A2BP1	2474	1138	-47	23898	6321	0	0	0	0	50	0	431879	1	1	
A2LD1	NaN	NaN	NaN	7294	2492	0	0	0	0	50	2	803509	1	1	
A2M	348389	364	17	74879	20986	0	0	2	0	50	3	515746	1	1	
A2ML1	300254	407	12	74200	20426	0	0	0	0	50	0	474348	1	1	
A4GALT	808038	168	72	16933	5453	0	0	0	0	50	0	384433	1	1	
A4GNT	190056	464	9	16975	4676	0	0	0	0	50	0	438935	1	1	
AAAS	1701810	166	58	27279	8484	0	0	0	0	50	0	406098	1	1	
AACS	894670	306	13	34720	9107	0	0	0	0	50	0	386330	1	1	
AADAC	200470	526	2	20006	5572	0	0	0	0	50	0	465220	1	1	
AADACL2	91028	611	-5	20167	5495	0	0	0	0	50	0	447958	1	1	
AADACL3	145424	454	23	17605	4886	0	0	0	0	50	0	386589	1	1	
AADACL4	145424	454	23	20027	5929	0	0	0	0	50	0	386589	1	1	
AADAT	132912	831	-13	22295	5635	0	0	0	0	50	0	488642	1	1	
AAGAB	312039	320	45	16429	4235	0	0	0	0	50	0	439103	1	1	
AAK1	639466	309	35	48412	13874	0	0	0	0	50	0	483539	1	1	

AAMP	730654	197	33	22092	6195	0	0	0	0	50	1	363944	1	1	
AANAT	1202221	197	29	12292	3899	0	0	0	0	50	1	407974	1	1	
AARS	1335968	139	42	48909	13818	0	0	0	0	50	0	443191	1	1	
AARS2	1037256	312	54	48300	15624	0	0	0	0	50	0	388717	1	1	
AARSD1	1507064	201	26	30947	8323	0	0	0	0	50	0	346423	1	1	
AASDH	639545	594	5	55251	15162	0	0	0	0	50	0	519057	1	1	
AASDHPPT	86519	753	-16	15876	4074	0	0	0	0	50	1	461832	1	1	
AASS	57655	988	-13	47544	12789	0	0	0	0	50	2	480242	1	1	
AATF	668463	384	16	28924	7343	0	0	0	0	50	0	401758	1	1	
AATK	1737949	243	22	65926	21833	0	0	0	0	50	1	473893	1	1	
ABAT	402778	358	-10	26040	6783	0	0	0	0	50	1	411117	1	1	
ABCA1	195112	637	-18	115108	31514	0	0	0	0	50	0	480697	1	1	
ABCA10	137274	415	-43	80150	20146	0	0	0	0	50	0	437976	1	1	
ABCA12	526764	857	9	132958	35567	0	0	0	0	50	0	418474	1	1	
ABCA13	93300	878	-11	253225	67067	0	0	0	0	26	0	376026	1	1	
ABCA2	1951939	202	40	123200	37744	0	0	0	0	50	0	420637	1	1	
ABCA3	2220466	233	46	84854	25081	0	0	0	0	50	0	434084	1	1	
ABCA4	512482	370	-2	115220	32158	0	0	0	0	50	0	332885	1	1	
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ABCA6	240031	493	-39	83825	21301	0	0	0	0	50	1	393456	1	1	
ABCA7	2387949	206	26	104650	34391	0	0	0	0	50	0	637042	1	1	
ABCA8	295848	637	-41	81375	21399	0	0	0	0	50	1	420658	1	1	
ABCA9	263023	602	-42	83573	21994	0	0	0	0	50	2	429891	1	1	
ABCB1	287293	822	0	64897	18074	0	0	0	0	50	0	388633	1	1	
ABCB10	255826	277	20	35742	11865	0	0	0	0	50	0	386358	1	1	
ABCB11	223582	560	1	67095	18459	0	0	0	0	50	1	402514	1	1	
ABCB4	225315	837	8	65219	18172	0	0	0	0	50	0	383600	1	1	
ABCB5	164218	648	4	64638	17661	0	0	0	0	26	0	215173	1	1	
ABCB6	773232	177	36	41629	12992	0	0	0	0	50	1	392553	1	1	
ABCB7	183021	NaN	-5	38059	10787	0	0	0	0	50	0	382620	1	1	
ABCB8	622098	373	41	34958	11641	0	0	0	0	50	0	494340	1	1	
ABCB9	1093113	196	47	37534	11711	0	0	0	0	50	0	454111	1	1	
ABCC1	409366	264	33	76930	22106	0	0	0	0	50	0	361501	1	1	
ABCC10	1270265	230	49	69930	23961	0	0	0	0	50	1	469973	1	1	
ABCC11	216539	578	-22	69734	19831	0	0	0	0	50	0	501144	1	1	
ABCC12	229669	628	-27	68712	19320	0	0	0	0	50	0	534569	1	1	
ABCC2	1035115	171	30	77973	22029	0	0	0	0	50	0	373513	1	1	
ABCC3	1585602	196	18	76881	23667	0	0	0	0	50	0	477540	1	1	
ABCC4	200377	596	30	68166	18879	0	0	0	0	50	1	399903	1	1	
ABCC5	1425631	375	43	72996	20916	0	0	0	0	50	1	528017	1	1	
ABCC6	385823	188	23	75019	23954	0	0	0	0	50	0	433489	1	1	
ABCC8	454503	598	14	79422	23436	0	0	0	0	50	0	404887	1	1	
ABCC9	529911	984	-17	81396	22344	0	0	0	0	50	0	344617	1	1	
ABCD1	1910154	NaN	37	35973	11781	0	0	0	0	50	0	446621	1	1	
ABCD2	70113	596	-16	37142	10297	0	0	0	0	50	0	443667	1	1	
ABCD3	459824	348	-8	34944	9135	0	0	0	0	50	1	447804	1	1	
ABCD4	652027	358	47	31073	8680	0	0	0	0	50	0	397495	1	1	
ABCE1	189309	1139	32	31346	7945	0	0	0	0	50	0	405125	1	1	
ABCF1	2080582	271	32	44037	11319	0	0	0	0	50	0	425362	1	1	

ABCF2	610106	290	32	32641	8666	0	0	0	0	50	1	455595	1	1	
ABCF3	1460188	257	49	36127	10283	0	0	0	0	50	0	407512	1	1	
ABCG1	289449	464	75	36813	10710	0	0	0	0	50	1	337645	1	1	
ABCG2	432576	209	-7	33467	9121	0	0	0	0	50	1	421386	1	1	
ABCG4	1258103	195	57	32340	9597	0	0	0	0	50	0	461741	1	1	
ABCG5	544941	480	35	32438	9646	0	0	0	0	50	0	483770	1	1	
ABCG8	501561	480	30	33866	9646	0	0	0	0	50	0	481460	1	1	
ABHD1	1214097	238	50	20167	6167	0	0	0	0	50	1	447195	1	1	
ABHD10	239044	250	10	15337	4382	0	0	0	0	50	0	414855	1	1	
ABHD11	1082063	214	54	19838	6223	0	0	0	0	50	0	487235	1	1	
ABHD12	608597	348	-3	21483	5922	0	0	0	0	50	0	375662	1	1	
ABHD12B	411016	431	41	15323	3997	0	0	0	0	50	0	483700	1	1	
ABHD13	71759	952	-32	16667	4711	0	0	0	0	50	0	357112	1	1	
ABHD14A	1045639	224	36	12985	4487	0	0	0	0	50	0	350021	1	1	
ABHD14B	1045639	224	36	10185	3360	0	0	0	0	50	0	350021	1	1	
ABHD15	802576	353	23	22050	7623	0	0	0	0	50	0	416542	1	1	
ABHD2	639252	388	22	21763	5831	0	0	0	0	50	2	526463	1	1	
ABHD3	269726	244	57	20762	5740	0	0	0	0	50	2	399021	1	1	
ABHD4	975314	380	49	17227	4928	0	0	0	0	50	1	473669	1	1	
ABHD5	103561	437	33	17675	4879	0	0	0	0	50	1	484365	1	1	
ABHD6	611196	221	43	17290	4676	0	0	0	0	50	1	409584	1	1	
ABHD8	842088	211	43	21168	6888	0	0	0	0	50	0	425502	1	1	
ABI1	342602	447	30	26397	7749	0	0	0	0	50	0	458738	1	1	
ABI2	415048	298	23	23926	6818	0	0	0	0	50	0	398090	1	1	
ABI3	816202	346	24	17843	5866	0	0	0	0	50	0	479353	1	1	
ABI3BP	459170	548	-1	55629	15057	0	0	0	0	50	0	492037	1	1	
ABL1	505506	211	29	57645	17388	0	0	0	0	50	0	403550	1	1	
ABL2	328468	301	6	60746	18046	0	0	0	0	50	0	480781	1	1	
ABLIM1	267957	257	13	42847	11270	0	0	0	0	50	1	393162	1	1	
ABLIM2	172573	230	36	34587	8883	0	0	0	0	50	0	360892	1	1	
ABLIM3	339889	423	17	35910	9114	0	0	0	0	50	2	426909	1	1	
ABO	1865433	416	45	17647	5243	0	0	0	0	50	0	353276	1	1	
ABP1	763140	604	19	36666	11088	0	0	0	0	50	0	465136	1	1	
ABR	1346718	270	22	46396	12551	0	0	0	0	50	0	395458	1	1	
ABRA	113560	708	18	18956	5236	0	0	0	0	50	0	378119	1	1	
ABT1	411992	498	24	13314	4095	0	0	0	0	50	0	530628	1	1	
ABTB1	679358	336	45	24143	7000	0	0	0	0	50	1	413931	1	1	
ABTB2	769733	368	32	42168	12096	0	0	0	0	50	0	408212	1	1	
ACAA1	302137	411	32	21175	6524	0	0	0	0	50	1	408961	1	1	
ACAA2	290591	530	35	20069	5761	0	0	0	0	50	0	380751	1	1	
ACACA	526151	346	13	122458	33509	0	0	0	0	7	0	86765	1	1	
ACAD11	210777	598	19	40166	10633	0	0	0	0	50	0	338478	1	1	
ACAD8	270350	623	21	21182	5908	0	0	0	0	50	0	351932	1	1	
ACAD9	1117839	382	54	31640	8974	0	0	0	0	50	0	401716	1	1	
ACADL	190249	696	2	22050	5943	0	0	0	0	50	0	397215	1	1	
ACADM	152734	578	-13	22008	5754	0	0	0	0	50	0	469091	1	1	
ACADS	1741363	349	42	20650	6125	0	0	0	0	50	0	370230	1	1	
ACADSB	256010	673	17	22183	5936	0	0	0	0	50	1	368081	1	1	
ACADVL	1782958	316	21	33201	9765	0	0	0	0	50	1	326809	1	1	

ACAN	561599	560	-1	120631	40250	0	0	0	0	50	0	508655	1	1	
ACAP1	1911735	206	36	37373	11116	0	0	0	0	50	1	434000	1	1	
ACAP2	431673	561	43	40978	9947	0	0	0	0	50	1	403592	1	1	
ACAP3	1744013	273	28	42497	12082	0	0	0	0	50	1	448280	1	1	
ACAT1	417904	695	19	21756	6174	0	0	0	0	50	0	582883	1	1	
ACAT2	648197	420	22	19915	5831	0	0	0	0	50	1	490420	1	1	
ACBD3	756400	214	24	26691	7266	0	0	0	0	50	0	496160	1	1	
ACBD4	806811	207	32	19852	3080	0	0	0	0	50	0	437472	1	1	
ACBD5	383472	555	36	27461	6685	0	0	0	0	50	0	373240	1	1	
ACBD6	543108	445	12	14532	3885	0	0	0	0	50	0	403046	1	1	
ACBD7	254900	620	21	4774	1127	0	0	0	0	50	0	332178	1	1	
ACCN1	34504	1007	-15	37065	10920	0	0	0	0	50	1	479689	1	1	
ACCN2	1003045	211	56	29246	7903	0	0	0	0	50	1	390411	1	1	
ACCN3	622098	373	41	28889	7924	0	0	0	0	50	0	494340	1	1	
ACCN4	554323	403	33	32515	10262	0	0	0	0	50	0	383621	1	1	
ACCN5	43787	643	-2	26138	6538	0	0	0	0	50	0	411845	1	1	
ACCS	345807	680	3	25676	7084	0	0	0	0	50	0	423122	1	1	
ACCSL	389604	680	1	29183	7840	0	0	0	0	50	0	383124	1	1	
ACD	1065785	147	41	26726	8890	0	0	0	0	50	0	553924	1	1	
ACE	874574	267	-20	69510	19173	0	0	1	0	50	1	403809	1	1	
ACE2	179295	NaN	32	41923	10304	0	0	0	0	50	0	461755	1	1	
ACER1	943949	407	31	13594	3563	0	0	0	0	50	0	355579	1	1	
ACER2	496889	421	24	14007	3801	0	0	0	0	50	1	457247	1	1	
ACER3	279729	351	36	14203	3521	0	0	0	0	50	0	362152	1	1	
ACIN1	1261207	185	41	68908	20279	0	0	0	0	50	0	424186	1	1	
ACLY	1857838	191	33	56105	15673	0	0	0	0	50	1	445144	1	1	
ACMSD	275440	496	15	17598	4431	0	0	0	0	50	1	359912	1	1	
ACN9	146007	987	-9	6328	1694	0	0	0	0	50	0	401877	1	1	
ACO1	290567	424	-18	45283	12467	0	0	0	0	50	0	367332	1	1	
ACO2	1474160	162	69	39319	11354	0	0	0	0	50	0	372953	1	1	
ACOT1	NaN	NaN	NaN	20111	6643	0	0	0	0	50	2	786191	1	1	
ACOT11	688014	415	18	33677	9415	0	0	0	0	50	0	441616	1	1	
ACOT12	114956	831	16	28588	7658	0	0	0	0	50	0	350063	1	1	
ACOT13	421216	362	24	7224	2121	0	0	0	0	50	0	391391	1	1	
ACOT2	606300	169	39	23058	7602	0	0	0	0	50	0	405230	1	1	
ACOT4	606300	169	39	20314	6440	0	0	0	0	50	0	405230	1	1	
ACOT6	606300	169	39	10409	2821	0	0	0	0	50	0	405230	1	1	
ACOT7	643590	176	26	23268	6783	0	0	0	0	50	0	367360	1	1	
ACOT8	742720	180	48	16303	4592	0	0	0	0	50	2	302897	1	1	
ACOT9	473183	NaN	48	23786	5761	0	0	0	0	50	0	391475	1	1	
ACOX1	1667990	194	22	36477	9807	0	0	0	0	50	0	535101	1	1	
ACOX2	551037	265	33	34447	9737	0	0	0	0	50	0	416220	1	1	
ACOX3	138504	332	47	35469	10122	0	0	0	0	50	0	385364	1	1	
ACOXL	NaN	NaN	NaN	29813	8218	0	0	0	0	50	2	787766	1	1	
ACP1	304765	624	-18	11368	2366	0	0	0	0	50	0	348838	1	1	
ACP2	1274054	198	38	21805	6398	0	0	0	0	50	0	361858	1	1	
ACP5	1152381	272	31	15883	4949	0	0	0	0	50	2	385273	1	1	
ACP6	NaN	NaN	NaN	21868	5957	0	0	0	0	50	2	785505	1	1	
ACPL2	333903	352	22	24101	6622	0	0	0	0	50	0	462259	1	1	

ACPP	210154	765	13	21980	5740	0	0	0	0	50	0	432502	1	1	
ACPT	652250	593	27	20608	7175	0	0	0	0	50	1	441770	1	1	
ACR	669934	295	41	20538	6468	0	0	0	0	50	0	402605	1	1	
ACRBP	2816983	210	61	27496	7574	0	0	0	0	50	0	502565	1	1	
ACRC	848605	NaN	39	36001	8603	0	0	0	0	50	1	303534	1	1	
ACRV1	564542	595	13	13629	3381	0	0	0	0	50	0	446320	1	1	
ACSBG1	421357	314	52	36596	10213	0	0	0	0	50	1	396221	1	1	
ACSBG2	1332100	417	40	34328	8869	0	0	0	0	50	1	463778	1	1	
ACSF2	1332860	200	23	31276	8792	0	0	0	0	50	0	475419	1	1	
ACSF3	1277584	239	40	28315	8792	0	0	0	0	50	0	443639	1	1	
ACSL1	311713	515	30	35966	9751	0	0	0	0	50	1	465171	1	1	
ACSL3	261505	361	14	36820	9779	0	0	0	0	50	1	439754	1	1	
ACSL4	209488	NaN	44	36414	9534	0	0	0	0	50	0	492380	1	1	
ACSL5	184750	409	-4	38108	10192	0	0	0	0	50	0	390096	1	1	
ACSM1	175989	641	11	29337	8127	0	0	0	0	50	0	488068	1	1	
ACSM2A	181483	823	6	29330	8176	0	0	0	0	50	0	360997	1	1	
ACSM2B	166410	726	-6	29344	8162	0	0	0	0	50	0	403788	1	1	
ACSM3	211686	580	23	32753	8785	0	0	0	0	50	0	398867	1	1	
ACSM4	1157790	439	27	29582	8029	0	0	0	0	50	0	405888	1	1	
ACSM5	181483	823	6	29176	8456	0	0	0	0	50	0	360997	1	1	
ACSS1	572146	563	-18	34398	10164	0	0	0	0	50	0	403347	1	1	
ACSS2	1004645	205	44	36610	9947	0	0	0	0	50	2	513730	1	1	
ACSS3	26211	1037	-20	34608	9975	0	0	0	0	50	1	435421	1	1	
ACTA1	243405	361	29	19019	5299	0	0	0	0	50	3	396669	1	1	
ACTA2	181406	267	30	19243	5243	0	0	0	0	50	0	342034	1	1	
ACTB	1906749	195	34	18704	5404	0	0	0	0	50	1	447398	1	1	
ACTBL2	160055	456	3	18354	5439	0	0	0	0	50	1	359387	1	1	
ACTC1	521214	306	-1	18977	5341	0	0	0	0	50	0	459319	1	1	
ACTG1	3582152	268	26	18662	5446	0	0	0	0	50	1	353290	1	1	
ACTG2	1036341	284	45	19201	5264	0	0	0	0	50	0	485968	1	1	
ACTL6A	399933	477	11	22561	5705	0	0	0	0	50	0	419972	1	1	
ACTL6B	1884430	247	60	21973	6020	0	0	0	0	50	0	451815	1	1	
ACTL7A	336944	471	9	21161	6307	0	0	0	0	50	0	392119	1	1	
ACTL7B	336944	471	9	20055	6237	0	0	0	0	50	0	392119	1	1	
ACTL8	249962	416	27	17885	5404	0	0	0	0	50	0	404005	1	1	
ACTL9	536422	487	-47	19551	6762	0	0	0	0	50	0	608314	1	1	
ACTN1	609757	344	44	47110	12299	0	0	0	0	50	0	466865	1	1	
ACTN2	427180	682	-10	46305	11760	0	0	0	0	50	0	292852	1	1	
ACTN3	1343990	194	62	45906	12642	0	0	0	0	50	0	393302	1	1	
ACTN4	1596646	322	36	47061	12117	0	0	0	0	50	0	412979	1	1	
ACTR10	291132	545	21	21434	5929	0	0	0	0	50	0	431200	1	1	
ACTR1A	871726	178	41	19180	5411	0	0	0	0	50	1	424452	1	1	
ACTR1B	362146	520	25	19061	5530	0	0	0	0	50	0	504014	1	1	
ACTR2	606183	343	31	20440	5516	0	0	0	0	50	2	532665	1	1	
ACTR3	402980	629	15	21651	5670	0	0	0	0	50	1	417760	1	1	
ACTR3B	190917	535	5	21595	5726	0	0	0	0	50	1	403445	1	1	
ACTR3C	NaN	NaN	NaN	10969	2912	0	0	0	0	50	2	782460	1	1	
ACTR5	358558	551	35	30261	8757	0	0	0	0	50	0	412223	1	1	
ACTR6	184664	650	9	20923	4970	0	0	0	0	50	0	469931	1	1	

ACTR8	128709	552	39	31864	8561	0	0	0	0	50	0	335489	1	1	
ACTRT1	938	NaN	-35	18340	5411	0	0	0	0	50	0	474110	1	1	
ACTRT2	308009	634	19	18256	5600	0	0	0	0	50	1	385280	1	1	
ACVR1	81110	935	2	26026	6860	0	0	0	0	50	1	452606	1	1	
ACVR1B	493265	371	27	27503	7756	0	0	0	0	50	0	325801	1	1	
ACVR1C	79510	911	7	24878	6916	0	0	0	0	50	0	383313	1	1	
ACVR2A	90992	951	-2	26467	6755	0	0	0	0	50	0	402920	1	1	
ACVRL1	493265	371	27	25095	7413	0	0	0	0	50	0	325801	1	1	
ACY1	1045639	224	36	21070	5873	0	0	0	0	50	0	350021	1	1	
ACY3	1408104	424	60	15729	4935	0	0	0	0	50	0	359240	1	1	
ACYP1	919043	222	47	6608	1603	0	0	0	0	3	0	30177	1	1	
ACYP2	619188	448	11	5229	1323	0	0	0	0	50	0	379666	1	1	
ADA	801801	171	42	18809	5047	0	0	0	0	50	1	397768	1	1	
ADAD1	227942	612	-14	29610	7707	0	0	0	0	50	0	358008	1	1	
ADAD2	582429	364	12	32172	10626	0	0	0	0	50	0	465885	1	1	
ADAL	823006	415	50	18991	4823	0	0	0	0	50	2	483490	1	1	
ADAM10	506165	386	31	38850	9597	0	0	0	0	50	1	411929	1	1	
ADAM11	1224408	175	31	39494	11200	0	0	0	0	50	0	409850	1	1	
ADAM12	214443	485	-29	47922	13482	0	0	0	0	50	1	445732	1	1	
ADAM15	1696720	214	44	43589	12733	0	0	0	0	50	0	471681	1	1	
ADAM17	691902	278	38	42987	10500	0	0	0	0	50	0	445046	1	1	
ADAM18	175645	764	4	38913	9345	0	0	0	0	50	1	409759	1	1	
ADAM19	261911	1079	45	46760	13027	0	0	0	0	50	0	330309	1	1	
ADAM2	12694	576	-2	38885	9205	0	0	0	0	50	0	555744	1	1	
ADAM20	333836	706	26	38710	10325	0	0	0	0	50	0	485324	1	1	
ADAM21	423685	706	22	35854	9695	0	0	0	0	50	0	507472	1	1	
ADAM22	178742	722	17	49385	12313	0	0	0	0	50	0	381381	1	1	
ADAM23	290387	726	16	43526	11053	0	0	0	0	50	1	437675	1	1	
ADAM28	55817	565	5	41958	9954	0	0	0	0	50	1	508984	1	1	
ADAM29	49942	889	-36	41006	10717	0	0	0	0	50	0	364595	1	1	
ADAM30	390094	560	9	39214	10619	0	0	0	0	50	0	400582	1	1	
ADAM32	347510	612	-5	41524	10136	0	0	0	0	50	0	330197	1	1	
ADAM33	942842	353	32	40929	12159	0	0	0	0	50	0	418922	1	1	
ADAM7	56052	741	6	39802	9548	0	0	0	0	50	1	455658	1	1	
ADAM8	339279	452	-12	42980	9205	0	0	0	0	50	0	421792	1	1	
ADAM9	389317	428	22	42497	10969	0	0	0	0	50	0	526596	1	1	
ADAMDEC1	57540	741	5	24458	6307	0	0	0	0	50	1	477036	1	1	
ADAMTS1	33367	441	-72	48013	13643	0	0	0	0	50	0	315679	1	1	
ADAMTS10	622624	214	-14	55272	16296	0	0	0	0	50	0	430178	1	1	
ADAMTS12	373086	875	7	80780	21679	0	0	0	0	50	0	429625	1	1	
ADAMTS13	1843278	263	33	70700	21616	0	0	0	0	50	0	420798	1	1	
ADAMTS14	546305	566	37	61250	17815	0	0	0	0	50	1	475720	1	1	
ADAMTS15	686411	396	0	45934	14567	0	0	0	0	50	0	361970	1	1	
ADAMTS16	89385	683	-23	61901	17122	0	0	1	0	50	1	450779	1	1	
ADAMTS17	143599	755	-36	54978	15876	0	0	0	0	50	0	468993	1	1	
ADAMTS18	61971	1102	-26	62055	16779	0	0	0	0	50	0	543410	1	1	
ADAMTS19	38096	1075	-16	61439	16513	0	0	0	0	50	1	383061	1	1	
ADAMTS2	1496298	677	-4	61908	17787	0	0	0	0	50	0	510720	1	1	
ADAMTS20	126632	906	-21	98952	24612	0	0	0	0	50	0	418782	1	1	
ADAMTS3	70065	633	-15	61866	15918	0	0	0	0	50	1	478772	1	1	

ADAMTS4	728669	234	37	40348	13118	0	0	0	0	50	0	442974	1	1	
ADAMTS5	33106	441	-79	45381	13860	0	0	0	0	50	0	295876	1	1	
ADAMTS6	275284	480	5	57841	14525	0	0	0	0	50	1	436345	1	1	
ADAMTS7	507164	413	46	82467	25746	0	0	0	0	50	1	429800	1	1	
ADAMTS8	693280	382	-6	43246	13496	0	0	0	0	50	0	384384	1	1	
ADAMTS9	90552	783	-10	99470	25816	0	0	0	0	50	1	554806	1	1	
ADAMTSL1	313133	527	-18	87808	25655	0	0	0	0	50	1	503594	1	1	
ADAMTSL2	1869593	315	35	48146	13258	0	0	0	0	50	1	414736	1	1	
ADAMTSL3	112410	888	-7	85918	23114	0	0	0	0	50	0	562940	1	1	
ADAMTSL4	1475649	152	31	53536	17192	0	0	0	0	50	0	401415	1	1	
ADAMTSL5	2122824	221	35	23380	7196	0	0	0	0	50	0	358288	1	1	
ADAP1	737267	310	41	19362	5103	0	0	0	0	50	1	423717	1	1	
ADAP2	594135	209	20	19761	5145	0	0	0	0	50	0	377272	1	1	
ADAR	1927515	403	36	61292	17185	0	0	0	0	50	0	338814	1	1	
ADARB1	596496	250	42	36862	10955	0	0	0	0	50	1	404355	1	1	
ADARB2	284080	633	8	35595	11781	0	0	0	0	50	1	403746	1	1	
ADAT1	449343	354	18	25536	6909	0	0	0	0	50	0	419419	1	1	
ADAT2	299410	495	7	9961	2597	0	0	0	0	50	0	409703	1	1	
ADAT3	NaN	NaN	NaN	16282	5894	0	0	0	0	50	2	785442	1	1	
ADC	756118	264	21	23086	6713	0	0	0	0	50	0	390082	1	1	
ADCK1	427928	517	24	26432	7420	0	0	0	0	50	0	498883	1	1	
ADCK2	354697	567	38	30100	9989	0	0	0	0	50	0	394422	1	1	
ADCK4	1022809	201	31	27307	8204	0	0	0	0	50	0	340165	1	1	
ADCK5	2284602	200	32	28952	8869	0	0	0	0	50	0	421792	1	1	
ADCY1	287931	686	11	54936	17262	0	0	0	0	50	0	407967	1	1	
ADCY10	534611	238	13	83769	20412	0	0	0	0	50	0	501333	1	1	
ADCY2	60911	1014	-22	55580	15274	0	0	0	0	50	0	454076	1	1	
ADCY3	284877	296	37	57414	16443	0	0	0	0	50	0	363216	1	1	
ADCY4	906124	173	39	53431	16583	0	0	0	0	15	1	174335	1	1	
ADCY5	372027	458	42	62510	18718	0	0	0	0	50	1	434182	1	1	
ADCY6	1715886	328	38	57869	17542	0	0	0	0	50	0	401170	1	1	
ADCY7	304156	520	21	54005	16114	0	0	0	0	50	0	447727	1	1	
ADCY8	45406	771	-7	61985	18361	0	0	0	0	50	1	450023	1	1	
ADCYAP1	272034	531	-13	8799	2709	0	0	0	0	50	0	432075	1	1	
ADCYAP1R1	364216	631	7	24486	6363	0	0	0	0	50	0	388122	1	1	
ADD1	669373	264	45	39361	11060	0	0	0	0	50	1	412279	1	1	
ADD2	659649	592	24	41055	10689	0	0	0	0	50	0	501235	1	1	
ADD3	349258	424	3	36043	9674	0	0	0	0	50	0	416535	1	1	
ADH1A	250334	786	3	19054	5348	0	0	0	0	50	0	402276	1	1	
ADH1B	332785	854	8	18914	5488	0	0	0	0	50	0	394653	1	1	
ADH1C	332785	854	8	18942	5460	0	0	0	0	50	0	394653	1	1	
ADH4	166160	760	1	19250	5467	0	0	0	0	50	1	437136	1	1	
ADH5	192327	549	11	19012	5327	0	0	0	0	50	0	448406	1	1	
ADH6	167884	786	-3	19110	5334	0	0	0	0	50	0	423185	1	1	
ADH7	332944	854	12	20951	5824	0	0	0	0	50	1	337449	1	1	
ADHFE1	259302	268	12	23604	7014	0	0	0	0	50	0	401961	1	1	
ADI1	254699	390	16	9310	2324	0	0	0	0	50	1	423122	1	1	
ADIG	525955	539	39	4228	1001	0	0	0	0	48	1	435911	1	1	
ADIPOQ	449980	384	25	12019	3584	0	0	0	0	50	0	393316	1	1	
ADIPOR1	421206	389	30	18893	5383	0	0	0	0	50	1	405342	1	1	

ADIPOR2	259057	403	29	19684	5285	0	0	0	0	50	0	527471	1	1	
ADK	622159	598	40	19306	4781	0	0	0	0	50	2	504945	1	1	
ADM	860704	273	12	9107	2863	0	0	0	0	50	0	475321	1	1	
ADM2	1075525	207	42	6958	2513	0	0	0	0	50	1	421141	1	1	
ADNP	386595	367	36	55188	14553	0	0	0	0	50	0	420938	1	1	
ADNP2	477656	572	4	54726	16842	0	0	0	0	50	0	458731	1	1	
ADO	176901	852	32	12796	4277	0	0	0	0	50	0	458710	1	1	
ADORA1	469029	453	37	15855	4914	0	0	0	0	50	1	387947	1	1	
ADORA2A	611616	186	54	19712	6391	0	0	0	0	50	1	397355	1	1	
ADORA2B	931951	350	-33	15946	5117	0	0	0	0	50	1	451465	1	1	
ADORA3	374092	330	27	29225	8239	0	0	0	0	50	0	430444	1	1	
ADPGK	1106545	526	43	24388	7469	0	0	0	0	50	1	512246	1	1	
ADPRH	289679	595	40	17808	4998	0	0	0	0	50	0	316771	1	1	
ADPRHL1	808201	223	49	18039	4872	0	0	0	0	50	0	390943	1	1	
ADPRHL2	853740	282	27	17941	5453	0	0	0	0	50	0	464597	1	1	
ADRA1A	259233	692	3	27230	8260	0	0	0	0	50	0	400141	1	1	
ADRA1B	206270	458	31	24696	8211	0	0	0	0	50	0	515956	1	1	
ADRA1D	805921	428	14	26775	9450	0	0	0	0	50	1	358533	1	1	
ADRA2A	285613	547	-1	21840	7518	0	0	0	0	50	0	351050	1	1	
ADRA2B	792336	366	41	21182	7042	0	0	0	0	50	0	509971	1	1	
ADRA2C	326572	592	36	21427	7784	0	0	0	0	50	0	419678	1	1	
ADRB2	298390	408	22	20209	5873	0	0	0	0	50	0	415422	1	1	
ADRB3	672861	356	25	18690	7161	0	0	0	0	50	1	423003	1	1	
ADRBK1	1369264	177	44	35840	9310	0	0	0	0	50	0	469336	1	1	
ADRBK2	149272	580	-13	36463	8624	0	0	0	0	50	0	444563	1	1	
ADRM1	990360	252	9	20349	6132	0	0	0	0	50	0	351477	1	1	
ADSL	445026	427	47	24913	6734	0	0	0	0	50	0	439768	1	1	
ADSS	710088	534	2	23548	6251	0	0	0	0	50	0	488033	1	1	
ADSSL1	681504	208	29	28308	8421	0	0	0	0	50	1	285075	1	1	
AEBP1	1151124	282	56	58170	16527	0	0	0	0	50	0	457093	1	1	
AEBP2	152349	339	-21	26292	7098	0	0	0	0	50	0	408555	1	1	
AEN	393645	605	14	15974	4816	0	0	0	0	50	1	431634	1	1	
AES	1092464	195	30	13895	3955	0	0	0	0	50	1	371889	1	1	
AFAP1	166375	260	38	41062	11711	0	0	0	0	50	0	402122	1	1	
AFAP1L1	386336	380	25	39158	10801	0	0	0	0	50	0	381472	1	1	
AFAP1L2	303560	299	6	41664	11445	0	0	0	0	50	0	456015	1	1	
AFF1	270752	518	48	61551	17325	0	0	0	0	50	0	383194	1	1	
AFF2	97330	NaN	-13	66976	18515	0	0	0	0	50	0	420581	1	1	
AFF3	353071	868	12	63273	17535	0	0	0	0	50	1	356293	1	1	
AFF4	686574	200	66	59199	15813	0	0	0	0	50	1	315371	1	1	
AFG3L2	492344	214	26	40341	11277	0	0	0	0	50	0	498750	1	1	
AFM	331900	594	3	31563	7455	0	0	0	0	50	0	422037	1	1	
AFMID	605209	191	26	16107	4284	0	0	0	0	50	0	436940	1	1	
AFP	331900	594	3	31724	7924	0	0	0	0	50	0	422037	1	1	
AFTPH	532219	332	21	47229	12621	0	0	0	0	50	0	444283	1	1	
AG2	NaN	NaN	NaN	5908	1841	0	0	0	0	50	2	781389	1	1	
AGA	44980	837	-8	17731	4802	0	0	0	0	50	1	473102	1	1	
AGAP1	134111	614	3	43057	12425	0	0	0	0	50	1	365141	1	1	
AGAP11	401785	164	45	27230	7819	0	0	0	0	50	2	335937	1	1	
AGAP2	1160849	344	39	60060	20055	0	0	0	0	50	1	396711	1	1	

AGAP3	616572	337	39	46011	14280	0	0	0	0	50	0	385511	1	1	
AGAP4	136259	NaN	34	33047	9289	0	0	0	0	50	0	426853	1	1	
AGAP5	NaN	NaN	NaN	34356	9555	0	0	0	0	50	2	789103	1	1	
AGAP6	NaN	NaN	NaN	34363	9506	0	0	0	0	50	2	789054	1	1	
AGAP7	NaN	NaN	NaN	33047	9289	0	0	0	0	50	2	788837	1	1	
AGAP8	NaN	NaN	NaN	33103	9233	0	0	0	0	50	2	788781	1	1	
AGBL1	5624	980	-56	54460	14693	0	0	0	0	50	0	332136	1	1	
AGBL2	984490	155	23	46641	11718	0	0	0	0	50	0	391895	1	1	
AGBL3	NaN	NaN	NaN	47586	11781	0	0	0	0	50	2	791329	1	1	
AGBL4	16483	1041	-18	26229	6615	0	0	0	0	50	1	425446	1	1	
AGBL5	1257014	290	34	44828	13594	0	0	0	0	50	2	384566	1	1	
AGER	2119974	392	28	21623	5383	0	0	0	0	50	0	467467	1	1	
AGFG1	194117	353	23	29694	8379	0	0	0	0	50	0	417515	1	1	
AGFG2	1651125	242	60	23786	7504	0	0	0	0	50	0	417816	1	1	
AGGF1	261159	333	30	36869	9268	0	0	0	0	50	2	337071	1	1	
AGK	227799	887	16	22008	5901	0	0	0	0	50	1	486801	1	1	
AGL	289704	595	9	80339	20461	0	0	0	0	50	0	420630	1	1	
AGMAT	656850	162	31	17122	5621	0	0	0	0	50	2	349692	1	1	
AGPAT1	2119974	392	28	14014	4382	0	0	0	0	50	0	467467	1	1	
AGPAT2	1918290	190	56	13734	4305	0	0	0	0	50	0	385973	1	1	
AGPAT3	842264	294	67	18998	5425	0	0	0	0	50	0	426335	1	1	
AGPAT4	74993	874	-5	19320	5229	0	0	0	0	50	0	440909	1	1	
AGPAT5	130932	475	32	18676	4907	0	0	0	0	50	1	480928	1	1	
AGPAT6	365713	496	30	23436	6279	0	0	0	0	50	1	411460	1	1	
AGPAT9	186399	436	21	22218	6111	0	0	0	0	50	0	368046	1	1	
AGPHD1	506023	375	39	19012	4991	0	0	0	0	50	0	378791	1	1	
AGPS	378489	434	26	34139	9016	0	0	0	0	50	0	456582	1	1	
AGR2	361606	385	-7	9324	2352	0	0	0	0	50	0	423843	1	1	
AGR3	360434	376	-15	9002	2107	0	0	0	0	50	1	407393	1	1	
AGRN	1971475	239	15	99582	32298	0	0	0	0	20	0	219975	1	1	
AGRP	1082466	153	49	6594	2079	0	0	0	0	50	0	420784	1	1	
AGT	422372	568	6	23471	7483	0	0	0	0	50	0	438550	1	1	
AGTPBP1	227838	613	9	61166	15715	0	0	0	0	50	1	449407	1	1	
AGTR1	271257	825	-24	17668	5096	0	0	0	0	50	1	365995	1	1	
AGTR2	224760	NaN	7	17920	5096	0	0	0	0	50	2	448203	1	1	
AGTRAP	606580	187	36	11137	1400	0	0	0	0	50	0	452914	1	1	
AGXT	1187158	297	30	19593	6006	0	0	0	0	50	1	414890	1	1	
AGXT2	243997	675	23	26390	7147	0	0	0	0	50	0	424221	1	1	
AGXT2L1	104349	499	21	26019	6573	0	0	0	0	50	0	383250	1	1	
AGXT2L2	672705	448	46	22981	6440	0	0	0	0	50	2	500318	1	1	
AHCTF1	422581	405	4	114695	31675	0	0	0	0	50	0	372127	1	1	
AHCY	962066	151	50	21959	6076	0	0	0	0	50	1	447104	1	1	
AHCYL1	660515	373	29	27566	7231	0	0	0	0	50	1	405601	1	1	
AHCYL2	776656	420	44	33362	9058	0	0	0	0	50	1	444395	1	1	
AHDC1	738004	217	25	74746	26474	0	0	0	0	50	0	505645	1	1	
AHI1	152087	422	29	63322	15428	0	0	0	0	50	0	447062	1	1	
AHNAK	2746294	204	49	290633	83104	0	0	0	0	2	0	93947	1	1	
AHR	370010	410	2	43099	11228	0	0	0	0	50	0	411509	1	1	
AHRR	808969	399	34	35987	11242	0	0	0	0	50	0	525245	1	1	
AHSA1	504548	359	47	17493	4536	0	0	0	0	50	0	414792	1	1	

AHSA2	704383	371	36	7203	1827	0	0	0	0	50	0	512309	1	1	
AHSG	508316	436	45	18109	5621	0	0	0	0	50	1	550095	1	1	
AHSP	826452	688	-17	5243	1414	0	0	0	0	50	0	496496	1	1	
AICDA	291883	422	15	10136	2779	0	0	0	0	50	1	408982	1	1	
AIDA	222206	392	1	16191	3906	0	0	0	0	50	0	542157	1	1	
AIF1	2517285	220	35	11116	2912	0	0	0	0	50	0	429142	1	1	
AIF1L	829407	293	36	9457	2198	0	0	0	0	50	0	525749	1	1	
AIFM1	379257	NaN	58	33397	9590	0	0	0	0	50	0	349062	1	1	
AIFM2	484729	425	25	18599	5635	0	0	0	0	50	0	429968	1	1	
AIFM3	577297	192	58	31276	8876	0	0	0	0	50	0	413014	1	1	
AIG1	298429	699	13	12257	3262	0	0	0	0	50	1	384104	1	1	
AIM1	220264	271	41	86114	24094	0	0	0	0	50	0	397089	1	1	
AIM2	97976	866	8	17479	4613	0	0	0	0	50	0	440755	1	1	
AIMP1	158895	711	5	17248	4571	0	0	0	0	50	1	463015	1	1	
AIMP2	NaN	NaN	NaN	15876	4599	0	0	0	0	50	2	784147	1	1	
AIP	1392213	215	53	16646	4627	0	0	0	0	50	0	303898	1	1	
AIPL1	249769	359	6	19194	5523	0	0	0	0	50	0	379008	1	1	
AIRE	1153513	308	65	31451	10045	0	0	0	0	50	0	374122	1	1	
AJAP1	5695	921	4	19817	6559	0	0	0	0	50	1	463015	1	1	
AK1	1278941	201	51	9947	2842	0	0	0	0	50	1	438676	1	1	
AK2	807536	233	27	12334	3437	0	0	0	0	50	0	466116	1	1	
AK3	231882	608	30	11312	3388	0	0	0	0	50	1	381759	1	1	
AK3L1	280010	351	-9	11368	3080	0	0	0	0	50	0	415527	1	1	
AK5	484699	536	-8	29085	7476	0	0	0	0	50	0	307552	1	1	
AK7	328475	560	14	37639	9443	0	0	0	0	50	1	453054	1	1	
AKAP1	413131	258	-6	44429	13363	0	0	0	0	50	2	477946	1	1	
AKAP10	545359	348	-11	34083	8862	0	0	0	0	50	1	419111	1	1	
AKAP11	183147	411	51	95361	25389	0	0	0	0	50	0	443639	1	1	
AKAP12	340429	383	11	87864	25284	0	0	0	0	50	0	411012	1	1	
AKAP13	230754	454	17	142303	39473	0	0	0	0	50	0	412090	1	1	
AKAP14	772178	NaN	38	10591	2492	0	0	0	0	50	0	444234	1	1	
AKAP2	NaN	NaN	NaN	46298	13783	0	0	0	0	50	2	793331	1	1	
AKAP3	277828	874	18	42105	11907	0	0	0	0	50	1	406728	1	1	
AKAP4	56301	NaN	5	43036	11249	0	0	0	0	50	0	531853	1	1	
AKAP5	670466	221	54	21210	5754	0	0	0	0	50	1	456813	1	1	
AKAP6	127586	715	-10	115941	31311	0	0	0	0	50	0	575491	1	1	
AKAP7	165730	682	15	19250	4501	0	0	0	0	50	0	328342	1	1	
AKAP8	494792	481	28	35336	9457	0	0	0	0	50	0	471429	1	1	
AKAP8L	509601	481	30	33306	8631	0	0	0	0	50	0	480564	1	1	
AKAP9	674222	611	16	201705	48615	0	0	0	0	40	0	291718	1	1	
AKD1	345757	686	21	100044	23982	0	0	0	0	50	0	538804	1	1	
AKIRIN1	681587	318	30	9765	2730	0	0	0	0	50	2	444290	1	1	
AKIRIN2	235638	346	33	10227	2961	0	0	0	0	50	1	380842	1	1	
AKNA	218424	360	14	70252	22148	0	0	0	0	50	0	395003	1	1	
AKNAD1	801073	236	8	42980	10948	0	0	0	0	50	0	408590	1	1	
AKR1A1	873800	161	27	16485	4767	0	0	0	0	50	0	419216	1	1	
AKR1B1	328321	415	9	16520	4249	0	0	0	0	50	0	452473	1	1	
AKR1B10	403585	319	21	16492	4235	0	0	0	0	50	0	453908	1	1	
AKR1B15	403585	319	21	18025	4550	0	0	0	0	50	0	453908	1	1	

AKR1C1	343868	608	-13	16583	4501	0	0	0	0	50	0	314090	1	1	
AKR1C2	343868	608	-13	17549	4690	0	0	0	0	50	0	314090	1	1	
AKR1C3	438967	678	-14	16716	4410	0	0	0	0	50	0	315868	1	1	
AKR1C4	630098	678	-21	16730	4396	0	0	0	0	50	0	350805	1	1	
AKR1D1	220333	478	16	16954	4361	0	0	0	0	50	0	357245	1	1	
AKR1E2	287187	559	-13	16737	4242	0	0	0	0	50	0	339787	1	1	
AKR7A2	810462	448	40	17885	5341	0	0	0	0	50	0	333382	1	1	
AKR7A3	810462	448	40	16639	4823	0	0	0	0	50	0	333382	1	1	
AKR7L	799326	448	35	17780	3640	0	0	0	0	50	0	482671	1	1	
AKT1	711772	247	36	24955	6440	0	0	0	0	50	0	370265	1	1	
AKT1S1	1673246	205	37	12348	4179	0	0	0	0	50	0	414190	1	1	
AKT2	1005838	400	30	24892	6566	0	0	0	0	50	0	354305	1	1	
AKT3	208930	954	-4	26152	6188	0	0	0	0	50	0	396676	1	1	
AKTIP	247554	403	8	15162	4053	0	0	0	0	50	1	405335	1	1	
ALAD	390186	297	36	16891	4886	0	0	0	0	50	0	381297	1	1	
ALAS1	1114737	181	52	32137	9086	0	0	0	0	50	0	445732	1	1	
ALAS2	245504	NaN	8	30814	8666	0	0	0	0	50	1	456092	1	1	
ALB	315782	613	8	31731	7917	0	0	0	0	50	0	445375	1	1	
ALCAM	165047	784	-3	30233	7819	0	0	0	0	50	0	423962	1	1	
ALDH16A1	2173457	290	44	38647	13286	0	0	0	0	50	0	390320	1	1	
ALDH18A1	369001	454	26	40047	11529	0	0	0	0	50	0	517384	1	1	
ALDH1A1	344512	542	1	25697	6979	0	0	0	0	50	0	485625	1	1	
ALDH1A2	187239	674	-1	26509	7280	0	0	0	0	50	0	417557	1	1	
ALDH1A3	378556	374	0	25935	7392	0	0	0	0	50	0	364728	1	1	
ALDH1B1	272380	622	3	24997	7721	0	0	0	0	50	0	376348	1	1	
ALDH1L1	203027	610	30	45703	13034	0	0	0	0	50	1	376999	1	1	
ALDH1L2	244603	334	33	47236	12824	0	0	0	0	50	1	367612	1	1	
ALDH2	691258	242	44	26061	7581	0	0	0	0	50	2	417508	1	1	
ALDH3A1	550749	220	-13	23051	6391	0	0	0	0	50	1	416395	1	1	
ALDH3A2	544087	332	-2	26068	7196	0	0	0	0	50	0	459095	1	1	
ALDH3B2	1408104	424	60	19453	5537	0	0	0	0	50	0	359240	1	1	
ALDH4A1	642600	453	27	28462	8330	0	0	0	0	50	1	431158	1	1	
ALDH5A1	407627	461	18	27069	8400	0	0	0	0	50	0	437479	1	1	
ALDH7A1	235232	191	19	27790	7658	0	0	0	0	50	0	377188	1	1	
ALDH8A1	152922	364	19	24353	6937	0	0	0	0	50	0	384265	1	1	
ALDH9A1	321831	408	0	26124	7413	0	0	0	0	50	0	430430	1	1	
ALDOA	NaN	NaN	NaN	18235	5432	0	0	0	0	50	2	784980	1	1	
ALDOB	112947	898	-22	18445	5222	0	0	0	0	50	0	424284	1	1	
ALDOC	1651143	225	31	18214	5453	0	0	0	0	50	0	424907	1	1	
ALG1	552298	419	3	23562	6783	0	0	0	0	50	1	390054	1	1	
ALG10	23464	1025	-29	23583	6447	0	0	0	0	50	0	460292	1	1	
ALG10B	42332	589	-38	23583	6447	0	0	0	0	50	0	465654	1	1	
ALG11	385945	461	41	24542	6811	0	0	0	0	50	0	442197	1	1	
ALG12	771339	208	6	23772	7791	0	0	0	0	50	0	441805	1	1	
ALG13	124127	NaN	20	61614	15288	0	0	0	0	50	0	413364	1	1	
ALG14	275272	425	-9	10682	3283	0	0	0	0	50	0	414631	1	1	
ALG1L	213057	583	19	9709	2597	0	0	0	0	50	0	313761	1	1	
ALG1L2	NaN	NaN	NaN	11088	3108	0	0	0	0	50	2	782656	1	1	
ALG2	203560	410	37	20146	6251	0	0	0	0	50	0	408534	1	1	
ALG3	1460188	257	49	22589	6916	0	0	0	0	50	0	407512	1	1	

ALG5	176745	650	16	16737	4536	0	0	0	0	50	0	379379	1	1	
ALG6	133567	477	2	26278	6818	0	0	0	0	50	1	356020	1	1	
ALG8	551110	208	23	27818	7756	0	0	0	0	50	0	462812	1	1	
ALG9	437477	182	28	31612	8666	0	0	0	0	50	1	433972	1	1	
ALK	202198	882	19	80703	23772	0	0	0	0	50	0	420000	1	1	
ALKBH1	455772	384	47	19614	5460	0	0	0	0	50	0	422198	1	1	
ALKBH2	595266	487	20	12950	3829	0	0	0	0	50	0	387170	1	1	
ALKBH3	437017	676	6	14966	3871	0	0	0	0	50	0	319816	1	1	
ALKBH4	611052	174	63	14560	4739	0	0	0	0	50	1	334362	1	1	
ALKBH5	918230	192	23	19250	5887	0	0	0	0	50	0	350294	1	1	
ALKBH6	980636	320	19	13363	4004	0	0	0	0	50	0	364875	1	1	
ALKBH7	943949	407	31	10605	3675	0	0	0	0	50	0	355579	1	1	
ALKBH8	234842	643	-2	34097	8722	0	0	0	0	50	0	408590	1	1	
ALLC	252769	496	5	20188	5432	0	0	0	0	50	1	485191	1	1	
ALMS1	777501	590	22	205338	59094	0	0	0	0	50	0	541926	1	1	
ALOX12	1645511	360	14	33439	9527	0	0	0	0	25	0	250488	1	1	
ALOX12B	1528802	272	26	35280	10122	0	0	0	0	50	0	366100	1	1	
ALOX15	1226703	318	25	33117	9786	0	0	0	0	50	0	403620	1	1	
ALOX15B	1528802	272	26	33740	10003	0	0	0	0	50	0	366100	1	1	
ALOX5	127792	737	36	34587	9072	0	0	0	0	50	0	420770	1	1	
ALOX5AP	381672	451	76	8302	2282	0	0	0	0	50	1	362670	1	1	
ALOXE3	1455014	202	31	42077	12355	0	0	0	0	50	0	445431	1	1	
ALPI	271362	191	32	26236	7973	0	0	0	0	50	0	343742	1	1	
ALPK1	185655	467	42	62818	16877	0	0	0	0	50	1	502159	1	1	
ALPK2	204534	290	67	107786	29995	0	0	0	0	50	1	440153	1	1	
ALPK3	351352	213	28	91518	29778	0	0	0	0	50	0	485191	1	1	
ALPL	547986	297	42	26670	7245	0	0	0	0	50	1	342440	1	1	
ALPP	307666	204	37	26369	8239	0	0	0	0	50	0	321545	1	1	
ALPPL2	307666	204	37	26306	8155	0	0	0	0	50	0	321545	1	1	
ALS2	438202	523	29	85141	23681	0	0	0	0	4	0	47348	1	1	
ALS2CL	298503	495	41	48195	14007	0	0	0	0	50	0	373058	1	1	
ALS2CR11	436378	491	24	95333	23737	0	0	0	0	50	0	519876	1	1	
ALS2CR12	554245	411	31	23954	5320	0	0	0	0	50	1	406336	1	1	
ALS2CR4	435399	534	25	21252	5943	0	0	0	0	50	0	386925	1	1	
ALS2CR8	543912	392	33	36925	9989	0	0	0	0	50	0	412419	1	1	
ALX1	35916	925	-34	16513	4382	0	0	0	0	50	0	392728	1	1	
ALX3	571576	400	29	16541	5425	0	0	0	0	50	1	386302	1	1	
ALX4	301098	575	9	20139	6069	0	0	0	0	50	0	408702	1	1	
AMAC1	753178	505	16	15596	5803	0	0	0	0	50	1	317849	1	1	
AMAC1L2	499514	671	36	15568	5831	0	0	0	0	50	1	391608	1	1	
AMAC1L3	NaN	NaN	NaN	15715	5768	0	0	0	0	50	2	785316	1	1	
AMACR	270768	793	4	26117	5278	0	0	0	0	50	0	467166	1	1	
AMBN	262055	689	14	22876	6398	0	0	0	0	50	1	382312	1	1	
AMBP	244063	558	0	18158	4837	0	0	0	0	50	1	366695	1	1	
AMBRA1	880494	212	45	59388	18207	0	0	0	0	50	0	485205	1	1	
AMD1	321448	282	31	17514	4263	0	0	0	0	50	0	393358	1	1	
AMDHD1	366272	436	8	21462	6111	0	0	0	0	50	0	387772	1	1	
AMELX	NaN	NaN	NaN	10563	2919	0	0	0	0	50	2	782467	1	1	
AMELY	0	0	0	9786	2793	0	0	0	0	50	1	416332	1	1	
AMFR	498079	442	-9	32375	9289	0	0	0	0	50	0	463904	1	1	

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AMH	1603571	240	27	25536	10143	0	0	0	0	50	0	431256	1	1	
AMHR2	1712232	191	56	28952	8134	0	0	0	0	50	0	443086	1	1	
AMICA1	707709	293	56	20405	5551	0	0	0	0	50	0	315504	1	1	
AMIGO1	1056159	272	37	23849	7357	0	0	0	0	50	0	353479	1	1	
AMIGO2	150007	380	-12	25417	7616	0	0	0	0	50	0	444199	1	1	
AMIGO3	NaN	NaN	NaN	23618	8197	0	0	0	0	50	2	787745	1	1	
AMMECR1	157872	NaN	34	16387	5117	0	0	0	0	50	1	419937	1	1	
AMMECR1L	588745	248	39	15568	4529	0	0	0	0	50	1	434056	1	1	
AMN	758150	286	50	22022	7546	0	0	0	0	50	0	351344	1	1	
AMN1	313930	228	11	13181	3640	0	0	0	0	50	0	401513	1	1	
AMOT	25417	NaN	10	53018	16177	0	0	0	0	50	0	505218	1	1	
AMOTL1	332670	472	-7	47754	13545	0	0	0	0	50	0	506310	1	1	
AMOTL2	303429	189	21	37968	11991	0	0	0	0	50	0	483035	1	1	
AMPD1	600650	472	11	40334	10213	0	0	0	0	50	0	413511	1	1	
AMPD2	989433	201	29	44702	12943	0	0	0	0	50	0	463036	1	1	
AMPD3	777397	378	27	39886	10703	0	0	0	0	50	0	514801	1	1	
AMPH	167080	639	7	35623	9947	0	0	0	0	50	1	426755	1	1	
AMT	1585328	201	32	20461	6251	0	0	0	0	50	0	373548	1	1	
AMTN	264427	861	27	10584	3318	0	0	0	0	50	0	441490	1	1	
AMY1A	NaN	NaN	NaN	79359	20076	0	0	0	0	50	2	799624	1	1	
AMY1B	NaN	NaN	NaN	79359	20076	0	0	0	0	50	2	799624	1	1	
AMY1C	24508	1029	-14	79359	20076	0	0	0	0	50	2	411180	1	1	
AMY2A	27205	1015	-20	26362	6734	0	0	0	0	50	0	435750	1	1	
AMY2B	31276	974	-19	26404	6734	0	0	0	0	50	1	478534	1	1	
AMZ1	767440	392	30	24199	7658	0	0	0	0	50	0	414715	1	1	
AMZ2	764688	237	11	18494	4711	0	0	0	0	50	0	427294	1	1	
ANAPC1	NaN	NaN	NaN	99477	27006	0	0	0	0	50	2	806554	1	1	
ANAPC10	182708	1139	20	9618	2436	0	0	0	0	50	0	422870	1	1	
ANAPC11	3798594	211	19	10437	2226	0	0	0	0	50	1	363321	1	1	
ANAPC13	254024	188	16	3962	931	0	0	0	0	50	1	353017	1	1	
ANAPC16	764632	140	40	5565	1680	0	0	0	0	50	0	414281	1	1	
ANAPC2	1722012	202	36	40740	12201	0	0	0	0	50	1	445893	1	1	
ANAPC4	233480	611	44	42819	10584	0	0	0	0	50	0	314615	1	1	
ANAPC5	959300	258	39	38654	10318	0	0	0	0	50	0	500983	1	1	
ANAPC7	964525	206	50	30513	8190	0	0	0	0	50	2	380310	1	1	
ANG	NaN	NaN	NaN	7238	2170	0	0	0	0	50	2	781718	1	1	
ANGEL1	308800	471	39	33320	9709	0	0	0	0	50	0	326536	1	1	
ANGEL2	315884	412	12	27769	7238	0	0	0	0	50	0	491890	1	1	
ANGPT1	50022	671	-19	25935	6174	0	0	0	0	50	1	467019	1	1	
ANGPT2	NaN	NaN	NaN	25858	6125	0	0	0	0	50	2	785673	1	1	
ANGPT4	824412	579	36	25389	7056	0	0	0	0	50	0	384118	1	1	
ANGPTL1	NaN	NaN	NaN	25011	6321	0	0	0	0	50	2	785869	1	1	
ANGPTL2	NaN	NaN	NaN	24549	6909	0	0	0	0	50	2	786457	1	1	
ANGPTL3	NaN	NaN	NaN	23842	5747	0	0	0	0	50	2	785295	1	1	
ANGPTL4	726988	204	0	20230	5915	0	0	0	0	50	0	402640	1	1	
ANGPTL5	416999	514	-21	20314	4865	0	0	0	0	50	1	543263	1	1	
ANGPTL6	1675365	272	15	22715	7420	0	0	0	0	1	0	11879	1	1	
ANGPTL7	NaN	NaN	NaN	17696	4501	0	0	0	0	50	2	784049	1	1	
ANK1	574508	533	36	102046	30128	0	0	0	0	50	0	472528	1	1	
ANK2	237324	911	14	197960	56623	0	0	0	0	32	0	264271	1	1	

ANK3	213806	634	-8	223055	63322	0	0	0	0	12	0	185451	1	1	
ANKAR	408508	452	20	73241	19096	0	0	0	0	50	0	487550	1	1	
ANKDD1A	705779	185	57	26516	7651	0	0	0	0	50	1	397075	1	1	
ANKFN1	184382	511	-53	39340	10220	0	0	0	0	50	1	340536	1	1	
ANKFY1	816229	357	26	60613	17108	0	0	0	0	50	0	407736	1	1	
ANKH	503265	410	8	24759	7224	0	0	1	0	12	1	142765	1	1	
ANKHD1	NaN	NaN	NaN	127190	37975	0	0	0	0	50	2	817523	1	1	
ANKHD1- EIF-4EBP3	688522	296	30	130368	38031	0	0	0	0	8	0	91889	1	1	
ANKIB1	708388	452	30	55755	14511	0	0	0	0	50	0	485044	1	1	
ANKK1	107636	610	12	37513	11375	0	0	0	0	50	0	420854	1	1	
ANKLE1	865138	212	38	29547	9933	0	0	0	0	50	1	370937	1	1	
ANKLE2	779125	601	32	46613	13594	0	0	0	0	50	0	466634	1	1	
ANKMY1	452566	485	21	51702	14679	0	0	0	0	50	0	415261	1	1	
ANKMY2	291955	612	-13	22911	5691	0	0	0	0	50	0	344498	1	1	
ANKRA2	403014	289	42	16023	4347	0	0	0	0	50	2	427119	1	1	
ANKRD1	103854	510	4	16499	4333	0	0	0	0	50	1	359352	1	1	
ANKRD10	506421	402	22	20958	5985	0	0	0	0	50	2	460411	1	1	
ANKRD11	1263742	322	40	131782	36974	0	0	0	0	32	0	329210	1	1	
ANKRD12	434324	391	56	105161	25816	0	0	0	0	50	0	403200	1	1	
ANKRD13A	950689	254	54	30583	7826	0	0	0	0	50	1	401695	1	1	
ANKRD13B	719319	383	30	31353	9324	0	0	0	0	50	0	393519	1	1	
ANKRD13C	295772	396	-1	27755	7399	0	0	0	0	50	0	466298	1	1	
ANKRD13D	1369264	177	44	30394	8960	0	0	0	0	50	0	469336	1	1	
ANKRD16	649866	305	28	18291	5145	0	0	0	0	50	2	470435	1	1	
ANKRD17	265492	747	19	128177	38647	0	0	0	0	50	1	470540	1	1	
ANKRD18A	NaN	NaN	NaN	51457	12404	0	0	0	0	50	2	791952	1	1	
ANKRD2	564805	169	40	18004	5411	0	0	0	0	50	1	397852	1	1	
ANKRD20A1	NaN	NaN	NaN	42658	10430	0	0	0	0	50	2	789978	1	1	
ANKRD20A2	NaN	NaN	NaN	85344	20832	0	0	0	0	50	2	800380	1	1	
ANKRD20A3	NaN	NaN	NaN	128002	31262	0	0	0	0	50	2	810810	1	1	
ANKRD20A4	NaN	NaN	NaN	42735	10353	0	0	0	0	50	2	789901	1	1	
ANKRD22	175425	289	26	9891	2625	0	0	0	0	50	0	401135	1	1	
ANKRD23	822597	392	46	15435	4557	0	0	0	0	50	1	543809	1	1	
ANKRD24	2194691	244	41	56161	17780	0	0	0	0	50	0	411250	1	1	
ANKRD26	390573	459	24	89628	20937	0	0	0	0	50	0	523432	1	1	
ANKRD27	369667	455	-38	53914	14651	0	0	0	0	50	0	342734	1	1	
ANKRD28	345831	435	29	53914	14756	0	0	0	0	50	0	518896	1	1	
ANKRD29	331927	138	67	15155	4627	0	0	0	0	50	1	430493	1	1	
ANKRD30A	53742	1067	-43	70980	16464	0	0	0	0	50	0	391475	1	1	
ANKRD30B	NaN	NaN	NaN	73010	17689	0	0	0	0	50	2	797237	1	1	
ANKRD31	NaN	NaN	NaN	96096	23982	0	0	0	0	50	2	803530	1	1	
ANKRD32	54375	399	20	54831	13524	0	0	0	0	50	0	412412	1	1	
ANKRD33	570716	438	22	23506	6734	0	0	0	0	50	0	380674	1	1	
ANKRD33B	NaN	NaN	NaN	23604	7833	0	0	0	0	50	2	787381	1	1	
ANKRD34A	NaN	NaN	NaN	22855	8456	0	0	0	0	50	2	788004	1	1	
ANKRD34B	321394	545	38	25319	7210	0	0	0	0	50	0	396305	1	1	
ANKRD34C	NaN	NaN	NaN	25858	7994	0	0	0	0	50	2	787542	1	1	
ANKRD35	NaN	NaN	NaN	49021	15197	0	0	0	0	50	2	794745	1	1	
ANKRD36	NaN	NaN	NaN	103866	24780	0	0	0	0	50	2	804328	1	1	

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ANKRD36B	390850	455	29	71736	17178	0	0	0	0	50	0	468720	1	1	
ANKRD37	173409	422	20	8197	2219	0	0	0	0	50	0	377538	1	1	
ANKRD39	822597	392	46	9079	2807	0	0	0	0	50	1	543809	1	1	
ANKRD40	1585602	196	18	18221	5362	0	0	0	0	50	0	477540	1	1	
ANKRD42	308108	414	18	20342	4984	0	0	0	0	50	1	482265	1	1	
ANKRD43	718028	356	58	24934	9716	0	0	0	0	50	0	344218	1	1	
ANKRD44	744603	444	27	47418	12642	0	0	0	0	50	0	421862	1	1	
ANKRD45	432542	423	4	13748	3493	0	0	0	0	50	0	365211	1	1	
ANKRD46	1144761	214	67	11361	3318	0	0	0	0	50	0	405594	1	1	
ANKRD49	341083	589	-7	12096	3192	0	0	0	0	50	0	301147	1	1	
ANKRD5	194301	442	-34	39018	10689	0	0	0	0	50	0	462924	1	1	
ANKRD50	47412	616	-24	70077	20265	0	0	0	0	50	0	391986	1	1	
ANKRD52	2878071	171	46	53942	16219	0	0	0	0	11	0	103369	1	1	
ANKRD53	380551	561	27	28224	8400	0	0	1	0	1	1	11228	1	1	
ANKRD54	1385064	203	66	14938	4655	0	0	0	0	50	0	364224	1	1	
ANKRD55	248990	402	45	31087	8582	0	0	0	0	50	2	389949	1	1	
ANKRD56	411278	462	26	37541	12481	0	0	0	0	50	0	496923	1	1	
ANKRD57	191347	329	22	24787	8351	0	0	0	0	50	0	380037	1	1	
ANKRD58	649508	NaN	73	14637	5313	0	0	0	0	50	0	333704	1	1	
ANKRD6	403943	609	43	36281	10444	0	0	0	0	50	2	395584	1	1	
ANKRD7	72287	922	-13	13265	3304	0	0	0	0	50	2	499079	1	1	
ANKRD9	1673146	191	42	14504	5656	0	0	0	0	50	0	481789	1	1	
ANKS1A	664697	304	26	56868	16569	0	0	0	0	50	1	506849	1	1	
ANKS1B	149256	941	-9	68145	18606	0	0	0	0	50	0	440230	1	1	
ANKS3	717235	194	35	33299	9436	0	0	0	0	50	2	451906	1	1	
ANKS4B	402663	575	41	20762	5698	0	0	0	0	50	1	441385	1	1	
ANKS6	298496	375	12	42581	13573	0	0	0	0	50	0	436996	1	1	
ANKZF1	733837	158	40	35819	11074	0	0	0	0	50	1	352884	1	1	
ANLN	332583	329	21	58849	15890	0	0	0	0	50	0	421645	1	1	
ANO1	763592	286	35	50953	13328	0	0	0	0	50	0	469455	1	1	
ANO10	106227	518	29	33894	8757	0	0	0	0	50	1	471597	1	1	
ANO2	349024	712	13	51513	13566	0	0	0	0	50	1	457513	1	1	
ANO3	20260	970	-20	51702	12348	0	0	0	0	50	1	454566	1	1	
ANO4	245388	937	-16	48188	11935	0	0	0	0	50	0	327348	1	1	
ANO6	313473	719	1	51961	13160	0	0	0	0	50	0	432453	1	1	
ANO7	1333138	317	35	48195	14154	0	0	0	0	50	2	481635	1	1	
ANO8	842088	211	43	60123	18984	0	0	0	0	50	0	425502	1	1	
ANP32A	437749	562	32	13174	3080	0	0	0	0	50	1	357147	1	1	
ANP32B	466644	269	42	13370	3010	0	0	0	0	50	2	388136	1	1	
ANP32C	NaN	NaN	NaN	11802	2982	0	0	0	0	50	2	782530	1	1	
ANP32D	904892	390	11	6559	1736	0	0	0	0	50	1	297423	1	1	
ANP32E	1207965	197	39	14259	3192	0	0	0	0	50	1	407190	1	1	
ANPEP	934542	212	37	49000	13580	0	0	0	0	50	1	412524	1	1	
ANTXR1	338803	288	14	30114	8442	0	0	0	0	50	1	403508	1	1	
ANTXR2	62176	905	6	25753	7280	0	0	0	0	50	1	363867	1	1	
ANUBL1	111914	603	36	36421	10115	0	0	0	0	50	0	378630	1	1	
ANXA1	247950	411	-15	18186	4683	0	0	0	0	50	0	361452	1	1	
ANXA10	55532	402	-16	17332	4067	0	0	0	0	50	1	421883	1	1	
ANXA11	366637	626	7	25508	7546	0	0	0	0	50	0	392581	1	1	
ANXA13	492587	192	12	18648	4872	0	0	0	0	50	0	460187	1	1	

ANXA2	431518	299	14	18928	4760	0	0	0	0	50	0	373513	1	1	
ANXA3	243621	351	21	17143	4277	0	0	0	0	50	0	408436	1	1	
ANXA4	864962	193	50	16863	4431	0	0	0	0	50	2	439551	1	1	
ANXA5	311234	440	9	16751	4480	0	0	0	0	50	0	393015	1	1	
ANXA6	926280	300	41	35462	9100	0	0	0	0	50	0	466459	1	1	
ANXA7	847821	249	45	24850	7028	0	0	0	0	50	0	479661	1	1	
ANXA8	NaN	NaN	NaN	34734	8442	0	0	0	0	50	2	787990	1	1	
ANXA8L1	NaN	NaN	NaN	34734	8442	0	0	0	0	50	2	787990	1	1	
ANXA8L2	NaN	NaN	NaN	17367	4221	0	0	0	0	50	2	783769	1	1	
ANXA9	1621279	172	30	17731	5075	0	0	0	0	50	0	381178	1	1	
AOAH	247838	600	15	36610	8540	0	0	0	0	50	0	373898	1	1	
AOC2	1631295	190	28	36295	11690	0	0	0	0	50	0	420448	1	1	
AOC3	1629499	190	23	36848	11536	0	0	0	0	50	0	466459	1	1	
AOX1	572062	160	23	68761	18494	0	0	0	0	50	0	393239	1	1	
AP1AR	181002	351	22	16009	3836	0	0	0	0	50	0	414981	1	1	
AP1B1	849693	251	36	47894	13804	0	0	0	0	50	1	424970	1	1	
AP1G1	460697	NaN	24	42399	11571	0	0	0	0	50	0	459095	1	1	
AP1G2	1250373	553	35	39081	12201	0	0	0	0	50	1	500087	1	1	
AP1M1	814131	255	26	22498	5978	0	0	0	0	50	0	491330	1	1	
AP1M2	2036812	226	23	21854	5824	0	0	0	0	50	2	439054	1	1	
AP1S1	1044715	199	39	8274	2079	0	0	0	0	50	0	365316	1	1	
AP1S2	170722	NaN	47	8197	2051	0	0	0	0	50	0	396137	1	1	
AP1S3	263604	197	16	8190	1911	0	0	0	0	50	1	356069	1	1	
AP2A1	1686482	172	42	48916	14630	0	0	0	0	50	0	397992	1	1	
AP2A2	1509286	246	48	47208	13776	0	0	0	0	50	0	427273	1	1	
AP2B1	715620	196	9	48335	13405	0	0	0	0	50	0	431942	1	1	
AP2M1	1456939	257	45	23072	5257	0	0	0	0	50	0	420343	1	1	
AP2S1	1217560	186	44	7448	1897	0	0	0	0	50	0	459914	1	1	
AP3B1	262852	592	40	56252	14917	0	0	0	0	50	0	360262	1	1	
AP3B2	509813	608	16	53228	15505	0	0	0	0	50	0	405699	1	1	
AP3D1	1712606	216	30	62006	16450	0	0	0	0	50	0	458808	1	1	
AP3M1	776926	227	49	21336	5733	0	0	0	0	50	0	379267	1	1	
AP3M2	580110	382	45	21231	5838	0	0	0	0	50	0	418978	1	1	
AP3S1	380598	759	6	10115	2527	0	0	0	0	50	0	486409	1	1	
AP3S2	952242	212	33	9996	2646	0	0	0	0	50	1	406966	1	1	
AP4B1	335231	545	13	37065	10437	0	0	0	0	50	0	388913	1	1	
AP4E1	343136	355	34	58016	15400	0	0	0	0	50	1	346990	1	1	
AP4M1	1401098	205	46	22876	6944	0	0	0	0	50	0	490147	1	1	
AP4S1	432061	238	23	10668	2583	0	0	0	0	50	1	367052	1	1	
APAF1	488214	461	11	64862	16009	0	0	0	0	50	0	410333	1	1	
APBA1	209495	673	-5	42063	11739	0	0	0	0	50	0	458479	1	1	
APBA2	161108	927	-21	38024	10234	0	0	0	0	50	0	443121	1	1	
APBA3	2144458	206	34	28042	9086	0	0	0	0	50	0	378000	1	1	
APBB1	424837	471	17	35413	10472	0	0	0	0	50	0	399931	1	1	
APBB1IP	236125	536	19	33600	9471	0	0	0	0	50	0	382914	1	1	
APBB2	227095	394	39	38591	10549	0	0	0	0	50	0	391412	1	1	
APBB3	706371	319	29	24745	7301	0	0	0	0	50	1	463330	1	1	
APC	247811	399	28	141141	39291	0	0	0	0	11	0	100345	1	1	
APC2	2352825	221	38	107660	38668	0	0	0	0	34	0	245595	1	1	
APCDD1	219220	604	2	25473	7308	0	0	0	0	50	0	381465	1	1	

APCDD1L	1027182	485	24	23681	8197	0	0	0	0	50	1	456806	1	1	
APCS	492825	646	-4	11060	3178	0	0	0	0	50	1	421624	1	1	
APEH	1551582	271	48	37450	10493	0	0	0	0	50	0	431081	1	1	
APEX1	464497	395	17	15834	4599	0	0	0	0	50	0	420504	1	1	
APEX2	245504	NaN	8	25571	7588	0	0	0	0	50	1	456092	1	1	
APH1A	1213150	197	38	13216	4235	0	0	0	0	50	1	414330	1	1	
APH1B	450620	272	49	12929	3787	0	0	0	0	50	0	421001	1	1	
API5	349378	924	-23	27132	7035	0	0	0	0	50	0	425985	1	1	
APIP	650532	399	1	12943	3227	0	0	0	0	50	0	356993	1	1	
APITD1	771199	383	28	11011	2723	0	0	0	0	50	0	481334	1	1	
APLF	227462	617	22	26383	6629	0	0	0	0	50	0	355327	1	1	
APLN	340263	NaN	46	3836	1246	0	0	0	0	50	1	406147	1	1	
APLNR	929334	250	-20	18424	5579	0	0	0	0	50	1	411075	1	1	
APLP1	1060028	321	47	32564	9856	0	0	0	0	50	0	379449	1	1	
APLP2	624855	203	15	39536	10024	0	0	0	0	50	0	392196	1	1	
APOA1	421374	323	39	13433	3745	0	0	0	0	50	0	363839	1	1	
APOA1BP	2049505	180	37	14308	4361	0	0	0	0	50	0	375088	1	1	
APOA2	728669	234	37	5180	1435	0	0	0	0	39	0	312613	1	1	
APOA4	419339	326	36	19558	5621	0	0	0	0	50	0	415961	1	1	
APOA5	419339	326	36	18165	5292	0	0	0	0	50	0	415961	1	1	
APOB	222162	698	-11	226905	62979	0	0	0	0	7	0	97818	1	1	
APOB48R	NaN	NaN	NaN	52661	16324	0	0	0	0	50	2	795872	1	1	
APOBEC1	237142	672	14	12271	3038	0	0	0	0	50	0	445991	1	1	
APOBEC2	145501	611	37	11242	3101	0	0	0	0	50	0	397600	1	1	
APOBEC3B	1413709	372	44	19761	4998	0	0	0	0	50	1	528017	1	1	
APOBEC3C	1386387	372	71	9912	2394	0	0	0	0	50	0	315784	1	1	
APOBEC3D	1386387	372	71	19894	4991	0	0	0	0	50	0	315784	1	1	
APOBEC3G	1386387	372	71	20020	4823	0	0	0	0	50	0	315784	1	1	
APOBEC3H	1225154	223	75	10836	2478	0	0	0	0	50	0	370643	1	1	
APOBEC4	NaN	NaN	NaN	18298	4970	0	0	0	0	50	2	784518	1	1	
APOC1	1003719	196	6	4361	1183	0	0	0	0	50	1	336553	1	1	
APOC2	1003719	196	6	5215	1463	0	0	0	0	50	1	336553	1	1	
APOC3	421374	323	39	5138	1414	0	0	0	0	50	0	363839	1	1	
APOC4	1003719	196	6	6489	1785	0	0	0	0	50	1	336553	1	1	
APOD	794351	315	38	9653	2653	0	0	0	0	50	0	450359	1	1	
APOE	1003719	196	6	15393	4893	0	0	0	0	50	1	336553	1	1	
APOF	2869106	184	52	15757	4970	0	0	0	0	50	1	498204	1	1	
APOH	135537	178	-23	17836	4613	0	0	0	0	50	0	361200	1	1	
APOL1	1237332	331	42	20811	5838	0	0	0	0	50	0	491442	1	1	
APOL2	1237332	331	42	16611	4935	0	0	0	0	50	0	491442	1	1	
APOL3	1228837	331	13	19537	6062	0	0	0	0	50	0	438907	1	1	
APOL4	1233084	331	28	18655	4571	0	0	0	0	50	0	425656	1	1	
APOL5	1161568	376	-43	21329	6349	0	0	0	0	50	0	388374	1	1	
APOL6	936853	205	-13	16870	4970	0	0	0	0	50	1	351855	1	1	
APOLD1	767161	129	35	13167	4746	0	0	0	0	50	0	444465	1	1	
APOM	2517236	193	20	9786	2583	0	0	0	0	50	0	540043	1	1	
APOO	509881	NaN	41	10535	2674	0	0	0	0	50	0	529816	1	1	
APOOL	83775	NaN	-12	13874	3787	0	0	0	0	50	0	461818	1	1	
APP	529745	793	-13	39718	10283	0	0	0	0	50	0	345044	1	1	
APPBP2	372707	242	7	30184	7742	0	0	0	0	50	1	440972	1	1	

APPL1	427002	389	33	37233	9303	0	0	0	0	50	1	390327	1	1	
APPL2	233879	387	30	34636	8939	0	0	0	0	50	1	494039	1	1	
APRT	813333	189	51	8848	2933	0	0	0	0	50	1	405188	1	1	
APTX	833170	286	-5	18669	4641	0	0	0	0	50	0	364700	1	1	
AQP1	402058	568	10	17171	5530	0	0	0	0	50	0	355236	1	1	
AQP10	1653296	236	29	14553	4935	0	0	0	0	50	0	451514	1	1	
AQP11	603969	401	30	13202	4102	0	0	0	0	50	1	388416	1	1	
AQP12A	1077835	446	25	14112	4830	0	0	0	0	50	0	509439	1	1	
AQP12B	1077835	446	25	14525	5089	0	0	0	0	50	0	509439	1	1	
AQP2	1033911	220	48	12859	4571	0	0	0	0	50	0	413217	1	1	
AQP3	1001877	166	4	14336	4585	0	0	0	0	50	1	334859	1	1	
AQP4	65361	639	-33	16121	4711	0	0	0	0	50	0	430773	1	1	
AQP5	1033911	220	48	12649	4361	0	0	0	0	50	0	413217	1	1	
AQP6	1033911	220	48	13363	4718	0	0	0	0	50	0	413217	1	1	
AQP7	982082	163	21	17010	5229	0	0	0	0	50	0	349846	1	1	
AQP8	189953	551	12	12726	4242	0	0	0	0	50	0	445942	1	1	
AQP9	242649	602	4	14665	4403	0	0	0	0	50	0	354648	1	1	
AQPEP	372067	763	17	50533	13496	0	0	0	0	50	1	452620	1	1	
AQR	468734	288	-5	76608	19866	0	0	0	0	50	1	405804	1	1	
AR	106188	NaN	-7	45584	13489	0	0	0	0	50	0	402948	1	1	
ARAF	775214	NaN	38	30590	8911	0	0	0	0	50	0	463281	1	1	
ARAP1	637045	234	54	72331	21854	0	0	0	0	50	1	466473	1	1	
ARAP2	28107	1066	26	87787	22232	0	0	0	0	50	1	420252	1	1	
ARAP3	771583	353	25	76405	23618	0	0	0	0	50	0	452095	1	1	
ARC	300961	567	26	19201	5810	0	0	0	0	50	1	480865	1	1	
ARCN1	1359480	167	47	25984	7028	0	0	0	0	50	0	451073	1	1	
AREG	172071	NaN	10	26012	6706	0	0	0	0	50	0	482727	1	1	
ARF1	702621	391	5	9310	2492	0	0	0	0	50	0	334551	1	1	
ARF3	1737773	214	55	9289	2513	0	0	0	0	50	0	365197	1	1	
ARF4	703082	422	29	9331	2492	0	0	0	0	50	0	422863	1	1	
ARF5	411207	619	-7	9289	2576	0	0	0	0	50	0	295897	1	1	
ARF6	680412	174	41	8547	2541	0	0	0	0	50	0	418103	1	1	
ARFGAP1	1278630	332	62	21896	5467	0	0	0	0	50	0	336343	1	1	
ARFGAP2	1206881	273	24	26922	7266	0	0	0	0	50	0	406070	1	1	
ARFGAP3	722786	187	60	26971	6860	0	0	0	0	50	1	370244	1	1	
ARFGEF1	307618	642	26	95438	24304	0	0	0	0	50	0	402017	1	1	
ARFGEF2	808420	174	49	91854	23856	0	0	0	0	50	1	342601	1	1	
ARFIP1	218185	385	33	19159	5075	0	0	0	0	50	0	413182	1	1	
ARFIP2	424988	469	20	17087	5047	0	0	0	0	50	0	491883	1	1	
ARFRP1	1126597	202	36	10514	2821	0	0	0	0	50	1	361445	1	1	
ARG1	147816	864	7	16170	4809	0	0	0	0	50	0	386624	1	1	
ARG2	481915	260	42	17689	5264	0	0	0	0	50	2	345422	1	1	
ARGFX	289448	613	18	15848	4396	0	0	0	0	50	1	489048	1	1	
ARGLU1	169398	1237	11	13650	3864	0	0	0	0	50	0	389935	1	1	
ARHGAP1	939971	176	44	22652	6076	0	0	0	0	50	1	342356	1	1	
ARHGAP10	75227	678	22	41048	10381	0	0	0	0	50	0	416941	1	1	
ARHGAP11A	244857	383	1	51940	13979	0	0	0	0	50	0	518707	1	1	
ARHGAP11B	220858	693	10	13671	3717	0	0	0	0	50	0	394590	1	1	
ARHGAP12	359237	346	25	43925	10948	0	0	0	0	50	0	457814	1	1	
ARHGAP15	57425	639	11	24955	6125	0	0	0	0	50	0	431984	1	1	

ARHGAP17	272834	185	22	44429	12775	0	0	0	0	50	0	442386	1	1	
ARHGAP18	73209	550	26	34314	8736	0	0	0	0	50	1	458738	1	1	
ARHGAP19	945635	397	26	25389	6762	0	0	0	0	50	0	454874	1	1	
ARHGAP20	146681	501	-5	59710	16562	0	0	0	0	50	0	416535	1	1	
ARHGAP21	164987	309	-3	98028	27405	0	0	0	0	40	0	371350	1	1	
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ARHGAP23	NaN	NaN	NaN	67627	22211	0	0	0	0	50	2	801759	1	1	
ARHGAP24	29589	739	13	40173	10164	0	0	0	0	50	0	449806	1	1	
ARHGAP25	385975	470	20	33635	8764	0	0	0	0	50	0	561792	1	1	
ARHGAP26	156598	456	38	42455	10780	0	0	0	0	50	1	466074	1	1	
ARHGAP27	754492	194	21	27937	7910	0	0	0	0	50	0	429254	1	1	
ARHGAP28	241496	281	-28	31878	8316	0	0	0	0	50	0	462721	1	1	
ARHGAP29	466144	327	-9	64631	16723	0	0	0	0	50	2	384279	1	1	
ARHGAP31	265987	585	23	70756	21203	0	0	0	0	50	0	476518	1	1	
ARHGAP32	195815	546	-11	103474	29834	0	0	0	0	50	0	435638	1	1	
ARHGAP33	1151198	321	30	61537	21287	0	0	0	0	50	0	375571	1	1	
ARHGAP36	65931	NaN	13	27237	8127	0	0	0	0	50	0	449575	1	1	
ARHGAP39	1706542	291	12	54852	16317	0	0	0	0	4	0	44730	1	1	
ARHGAP4	2328608	NaN	27	49091	14980	0	0	0	0	50	0	517979	1	1	
ARHGAP40	NaN	NaN	NaN	33712	10031	0	0	0	0	50	2	789579	1	1	
ARHGAP42	NaN	NaN	NaN	45493	11606	0	0	0	0	50	2	791154	1	1	
ARHGAP6	65396	NaN	34	49882	15071	0	0	0	0	50	0	412629	1	1	
ARHGAP8	NaN	NaN	NaN	24689	7063	0	0	0	0	50	2	786611	1	1	
ARHGAP9	1347802	194	32	36225	11319	0	0	0	0	50	0	409360	1	1	
ARHGDIA	3798594	211	19	10591	2744	0	0	0	0	50	1	363321	1	1	
ARHGDIB	360900	426	8	10493	2653	0	0	0	0	50	0	394240	1	1	
ARHGDIG	1340678	205	43	11242	3458	0	0	0	0	50	0	429807	1	1	
ARHGEF1	1255704	364	28	47040	13818	0	0	0	0	50	0	412013	1	1	
ARHGEF10	100967	551	-24	68460	18627	0	0	0	0	50	0	496706	1	1	
ARHGEF10L	375252	279	30	64176	18816	0	0	0	0	50	1	484113	1	1	
ARHGEF11	958228	350	36	78869	22960	0	0	0	0	50	0	438417	1	1	
ARHGEF12	264872	312	25	79919	20818	0	0	0	0	50	1	426853	1	1	
ARHGEF15	772200	257	20	40509	13797	0	0	0	0	50	0	340179	1	1	
ARHGEF16	248448	483	21	35546	10360	0	0	0	0	50	0	446572	1	1	
ARHGEF18	613770	308	30	58289	17269	0	0	0	0	0	0	17269	1	1	
ARHGEF19	824719	186	40	39487	12362	0	0	0	0	50	0	344512	1	1	
ARHGEF2	1880483	213	32	49133	14812	0	0	0	0	50	1	468048	1	1	
ARHGEF3	380604	450	43	32284	8435	0	0	0	0	50	1	419804	1	1	
ARHGEF33	NaN	NaN	NaN	44163	12012	0	0	0	0	50	2	791560	1	1	
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ARHGEF37	609620	185	37	33600	9996	0	0	0	0	50	0	396221	1	1	
ARHGEF38	233591	486	15	11368	2744	0	0	0	0	50	0	334061	1	1	
ARHGEF4	547548	369	13	36575	9856	0	0	0	0	50	0	438564	1	1	
ARHGEF5	189369	838	0	78239	23611	0	0	0	0	50	0	361823	1	1	
ARHGEF6	306872	NaN	39	40306	10409	0	0	0	0	50	0	380877	1	1	
ARHGEF7	405184	579	30	45850	12446	0	0	0	0	50	2	356874	1	1	
ARHGEF9	108759	NaN	-13	27643	6440	0	0	0	0	50	0	472213	1	1	
ARID1A	975965	182	27	111986	33628	0	0	0	0	37	0	345590	1	1	
ARID1B	143122	621	27	111349	31997	0	0	0	0	50	0	409878	1	1	
ARID2	820796	602	10	90650	26698	0	0	0	0	50	1	474978	1	1	

ARID3A	2292363	206	44	28889	9121	0	0	0	0	50	0	396193	1	1	
ARID3B	655453	206	59	27678	8337	0	0	0	0	50	1	369880	1	1	
ARID3C	731413	298	51	19971	6531	0	0	0	0	50	0	319746	1	1	
ARID4A	290710	552	36	65520	15666	0	0	0	0	50	0	352275	1	1	
ARID4B	550877	297	22	68068	16583	0	0	0	0	50	0	430465	1	1	
ARID5A	872383	360	47	29029	9002	0	0	0	0	50	1	536249	1	1	
ARID5B	81587	388	20	59269	16394	0	0	0	0	50	0	401625	1	1	
ARIH1	1093921	432	37	29400	6846	0	0	0	0	50	1	431046	1	1	
ARIH2	1818938	241	37	26320	5978	0	0	0	0	50	0	445613	1	1	
ARL1	283715	649	2	9492	2394	0	0	0	0	50	0	365827	1	1	
ARL10	563059	347	37	11900	3829	0	0	0	0	50	0	437682	1	1	
ARL11	425192	296	62	9485	3010	0	0	0	0	50	0	362054	1	1	
ARL13A	414180	NaN	45	15505	4109	0	0	0	0	50	1	316701	1	1	
ARL13B	85478	1310	-13	22302	5565	0	0	0	0	50	2	476693	1	1	
ARL14	493112	396	8	9527	2632	0	0	0	0	50	1	542514	1	1	
ARL15	83263	721	5	10549	2744	0	0	0	0	50	1	487711	1	1	
ARL16	3745109	205	30	9730	3122	0	0	0	0	50	1	351778	1	1	
ARL17A	NaN	NaN	NaN	22379	5971	0	0	0	0	50	2	785519	1	1	
ARL17B	372453	231	22	11193	2982	0	0	0	0	50	1	419860	1	1	
ARL2	3151458	209	52	9331	2702	0	0	0	0	50	0	467068	1	1	
ARL2BP	717872	149	48	8659	2093	0	0	0	0	50	3	351449	1	1	
ARL3	878626	180	27	9471	2478	0	0	0	0	50	0	399868	1	1	
ARL4A	120492	469	-11	10003	2807	0	0	0	0	50	0	521647	1	1	
ARL4C	121224	608	15	9331	2828	0	0	0	0	50	0	409815	1	1	
ARL4D	1147224	172	1	9576	3234	0	0	0	0	50	1	322588	1	1	
ARL5A	269131	610	15	9422	2338	0	0	0	0	50	1	423808	1	1	
ARL5B	74299	539	-5	9387	2373	0	0	0	0	50	0	441280	1	1	
ARL5C	NaN	NaN	NaN	9352	2387	0	0	0	0	50	2	781935	1	1	
ARL6	89238	731	-5	9968	2401	0	0	0	0	50	0	468020	1	1	
ARL6IP1	739644	279	45	10500	2814	0	0	0	0	50	1	380940	1	1	
ARL6IP4	1093113	196	47	18200	5971	0	0	0	0	50	0	454111	1	1	
ARL6IP5	264082	443	20	9478	2597	0	0	0	0	50	0	453656	1	1	
ARL6IP6	275277	716	6	11067	3486	0	0	0	0	50	0	397152	1	1	
ARL8A	649164	297	34	9856	2429	0	0	0	0	50	0	443576	1	1	
ARL8B	263029	325	22	9828	2457	0	0	0	0	50	0	430143	1	1	
ARL9	662749	594	27	6293	1729	0	0	0	0	50	1	456855	1	1	
ARMC1	145894	455	4	14378	3955	0	0	0	0	50	1	343175	1	1	
ARMC10	594757	579	34	17122	5054	0	0	0	0	50	1	460530	1	1	
ARMC2	414039	431	32	44170	11942	0	0	0	0	50	1	383187	1	1	
ARMC3	164960	449	12	44618	11872	0	0	0	0	50	0	401471	1	1	
ARMC4	125789	454	-4	52976	14455	0	0	0	0	50	0	448476	1	1	
ARMC5	839076	558	11	47593	18347	0	0	0	0	50	1	444234	1	1	
ARMC6	1327004	215	24	23443	7196	0	0	0	0	50	0	435827	1	1	
ARMC7	1511891	168	25	9639	3066	0	0	0	0	50	0	366898	1	1	
ARMC8	199119	358	18	35378	9394	0	0	0	0	50	0	357140	1	1	
ARMC9	1157442	394	41	34601	9037	0	0	1	0	50	1	353248	1	1	
ARMCX1	329999	NaN	8	22050	6552	0	0	0	0	50	0	417935	1	1	
ARMCX2	300391	NaN	31	29988	9891	0	0	0	0	50	1	493262	1	1	
ARMCX3	329999	NaN	8	18613	5327	0	0	0	0	50	0	417935	1	1	
ARMCX5	95798	NaN	27	27475	7742	0	0	0	0	50	0	473200	1	1	

ARMCX6	329999	NaN	8	14882	4081	0	0	0	0	50	0	417935	1	1	
ARMS2	252955	279	5	5229	1701	0	0	0	0	50	0	425369	1	1	
ARNT	1787393	188	33	40383	11151	0	0	0	0	50	1	404313	1	1	
ARNT2	365740	542	8	36862	9884	0	0	0	0	50	0	400141	1	1	
ARNTL	296688	414	13	32536	8603	0	0	0	0	50	0	412377	1	1	
ARNTL2	544579	377	40	33250	8288	0	0	0	0	50	0	386701	1	1	
ARPC1A	903923	263	51	19236	4893	0	0	0	0	50	1	461965	1	1	
ARPC1B	903923	263	51	19117	5138	0	0	0	0	50	1	461965	1	1	
ARPC2	724341	197	30	15904	3941	0	0	0	0	50	0	357560	1	1	
ARPC3	964525	206	50	9639	2184	0	0	0	0	50	2	380310	1	1	
ARPC4	953772	264	43	8869	2198	0	0	0	0	50	0	534303	1	1	
ARPC5	608114	407	24	7679	2149	0	0	0	0	50	2	466354	1	1	
ARPC5L	1125524	207	41	7756	2240	0	0	0	0	50	0	370020	1	1	
ARPM1	397180	820	-9	18361	5222	0	0	0	0	50	0	408632	1	1	
ARPP19	469724	386	15	5768	1519	0	0	0	0	50	0	390453	1	1	
ARPP21	3796	1075	-21	41818	11144	0	0	0	0	50	1	406154	1	1	
ARR3	188610	NaN	39	20244	5649	0	0	0	0	50	1	405118	1	1	
ARRB1	740999	252	46	21742	5915	0	0	0	0	50	1	430591	1	1	
ARRB2	1272092	222	28	21105	5901	0	0	0	0	50	0	469798	1	1	
ARRDC1	1197708	478	45	21182	6790	0	0	0	0	50	2	550627	1	1	
ARRDC2	1291557	226	34	23590	8183	0	0	0	0	50	2	366121	1	1	
ARRDC3	51436	334	5	21056	5677	0	0	0	0	50	1	382662	1	1	
ARRDC4	32065	851	-57	20811	6174	0	0	0	0	50	0	399434	1	1	
ARRDC5	777835	173	42	16968	4809	0	0	0	0	50	1	462259	1	1	
ARSA	1073094	203	43	24332	8344	0	0	0	0	50	1	455231	1	1	
ARSB	203299	452	50	26775	8106	0	0	0	0	50	0	563556	1	1	
ARSD	191640	NaN	18	32067	9324	0	0	0	0	50	0	407519	1	1	
ARSF	217524	NaN	-11	29715	8358	0	0	0	0	50	0	456239	1	1	
ARSG	745529	225	-8	26334	7644	0	0	0	0	50	0	377699	1	1	
ARSH	218545	NaN	-4	28182	7938	0	0	0	0	50	0	369586	1	1	
ARSI	954044	220	46	27391	8603	0	0	0	0	50	2	537656	1	1	
ARSJ	100364	497	15	29533	8351	0	0	0	0	50	0	383439	1	1	
ARSK	310860	359	29	27251	7168	0	0	0	0	50	3	374738	1	1	
ART1	537999	403	23	16058	4942	0	0	0	0	50	2	441329	1	1	
ART3	507519	322	41	20566	4928	0	0	0	0	50	2	371014	1	1	
ART4	340728	578	-4	15694	4361	0	0	0	0	50	0	309561	1	1	
ART5	537999	403	23	14357	4375	0	0	0	0	50	2	441329	1	1	
ARTN	877978	214	35	11774	4690	0	0	0	0	50	1	388311	1	1	
ARV1	376655	616	12	14042	3556	0	0	0	0	50	1	401842	1	1	
ARVCF	616246	217	37	46669	15512	0	0	0	0	50	0	447391	1	1	
ARX	252498	NaN	11	26544	9261	0	0	0	0	50	0	465654	1	1	
AS3MT	711862	192	45	19474	5075	0	0	0	0	50	3	441273	1	1	
ASAH2	377258	409	14	39823	11018	0	0	0	0	50	1	453124	1	1	
ASAH2B	131929	508	36	8568	2352	0	0	0	0	50	1	404628	1	1	
ASAM	713809	216	13	18494	5572	0	0	0	0	50	0	480361	1	1	
ASAP1	264818	427	30	57778	15806	0	0	0	0	50	0	520429	1	1	
ASAP2	661229	340	34	51933	13776	0	0	0	0	50	0	568967	1	1	
ASAP3	1050777	159	29	46417	13034	0	0	0	0	50	0	363958	1	1	
ASB1	246085	513	27	16394	5152	0	0	0	0	50	0	343469	1	1	
ASB10	611046	337	38	26558	9079	0	0	0	0	50	0	356384	1	1	

ASB12	57924	NaN	2	14980	4634	0	0	0	0	50	1	517622	1	1	
ASB13	761737	299	21	13916	4123	0	0	0	0	50	0	474362	1	1	
ASB14	399197	454	29	30240	8274	0	0	0	0	50	0	459165	1	1	
ASB15	86799	644	-7	29631	8232	0	0	0	0	50	0	440265	1	1	
ASB16	930750	175	41	25844	5005	0	0	0	0	50	1	428519	1	1	
ASB17	140995	603	-11	14749	4109	0	0	0	0	50	0	451143	1	1	
ASB18	121194	481	8	22470	7350	0	0	0	0	50	0	415051	1	1	
ASB2	200153	600	30	28959	8673	0	0	0	0	50	1	382760	1	1	
ASB3	NaN	NaN	NaN	26593	7091	0	0	0	0	50	2	786639	1	1	
ASB4	176832	333	14	22582	6083	0	0	0	0	50	0	381381	1	1	
ASB5	134663	504	-4	16632	4704	0	0	0	0	50	0	454839	1	1	
ASB6	794813	198	40	21616	5390	0	0	0	0	50	0	361557	1	1	
ASB7	290809	374	-9	15981	4494	0	0	0	0	50	0	429891	1	1	
ASB8	511392	352	32	14147	4312	0	0	0	0	50	0	368277	1	1	
ASB9	204248	NaN	17	15526	4214	0	0	0	0	50	0	418369	1	1	
ASCC1	761166	140	40	18725	4585	0	0	0	0	50	0	421057	1	1	
ASCC2	849790	182	33	38969	10381	0	0	0	0	50	0	491757	1	1	
ASCC3	103404	825	2	114170	30100	0	0	0	0	4	0	56392	1	1	
ASCL1	21203	964	3	11466	3549	0	0	0	0	50	0	456701	1	1	
ASCL2	NaN	NaN	NaN	8827	3479	0	0	0	0	50	2	783027	1	1	
ASCL3	548433	243	21	8967	2625	0	0	0	0	50	0	407848	1	1	
ASCL4	119393	805	22	8162	2800	0	0	0	0	50	0	420868	1	1	
ASF1A	116680	856	16	8512	2324	0	0	0	0	50	0	368060	1	1	
ASF1B	1034381	321	36	10122	2919	0	0	0	0	50	0	434777	1	1	
ASGR1	1682013	348	15	15169	3899	0	0	0	0	18	0	128646	1	1	
ASGR2	1682013	348	15	16289	4039	0	0	0	0	18	0	128646	1	1	
ASH1L	1960625	247	33	148260	40803	0	0	0	0	50	1	428281	1	1	
ASH2L	671169	258	34	32487	8484	0	0	0	0	50	0	382060	1	1	
ASIP	962066	151	50	6594	1995	0	0	0	0	50	1	447104	1	1	
ASL	477708	345	38	23947	6692	0	0	0	0	50	0	376544	1	1	
ASMT	NaN	NaN	NaN	19040	5320	0	0	0	0	50	2	784868	1	1	
ASMTL	NaN	NaN	NaN	32564	9457	0	0	0	0	50	2	789005	1	1	
ASNA1	1959466	226	29	17752	4781	0	0	0	0	50	2	460684	1	1	
ASNS	455051	636	0	28882	7448	0	0	0	0	50	1	442960	1	1	
ASNSD1	418427	511	16	31864	8960	0	0	0	0	50	0	463785	1	1	
ASPA	403115	442	6	16163	4123	0	0	0	0	50	0	349104	1	1	
ASPDH	762018	517	35	14455	4697	0	0	0	0	50	0	450331	1	1	
ASPG	622747	468	20	28497	9387	0	0	0	0	50	0	394401	1	1	
ASPH	423823	377	14	52640	12481	0	0	0	0	50	0	442603	1	1	
ASPHD1	NaN	NaN	NaN	18396	6405	0	0	0	0	50	2	785953	1	1	
ASPHD2	163136	553	-46	18130	5348	0	0	0	0	50	1	398195	1	1	
ASPM	221779	614	-25	175588	45794	0	0	0	0	1	0	57505	1	1	
ASPN	NaN	NaN	NaN	19635	4956	0	0	0	0	50	2	784504	1	1	
ASPRV1	844060	221	37	16450	5222	0	0	0	0	50	1	344246	1	1	
ASPSCR1	3814891	211	28	27699	8547	0	0	0	0	50	1	350889	1	1	
ASRGL1	3053973	413	49	15477	4578	0	0	0	0	50	0	392707	1	1	
ASS1	502828	260	35	21602	5593	0	0	0	0	50	0	445487	1	1	
ASTE1	313779	586	19	34153	9023	0	0	0	0	50	1	547953	1	1	
ASTL	821367	251	45	21294	6573	0	0	0	0	50	0	381024	1	1	
ASTN1	6547	940	-9	65415	18102	0	0	0	0	50	2	508242	1	1	

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ASTN2	63839	937	-17	67914	19845	0	0	0	0	50	1	393498	1	1	
ASXL1	780777	242	57	75390	22848	0	0	0	0	50	0	420469	1	1	
ASXL2	602691	287	31	70511	20881	0	0	0	0	5	0	68488	1	1	
ASXL3	7579	1014	-10	110348	32305	0	0	0	0	50	2	449260	1	1	
ASZ1	262404	394	-1	24759	6279	0	0	0	0	50	0	503272	1	1	
ATAD1	335357	169	45	18725	4837	0	0	0	0	50	1	359016	1	1	
ATAD2	544857	225	30	71344	18557	0	0	0	0	43	0	350609	1	1	
ATAD2B	233701	431	27	74613	19572	0	0	0	0	50	0	338086	1	1	
ATAD3A	1714469	248	27	31948	9359	0	0	0	0	50	1	423752	1	1	
ATAD3B	1714469	248	27	32466	9723	0	0	0	0	50	1	423752	1	1	
ATAD3C	1725369	187	27	20804	6076	0	0	0	0	50	0	424060	1	1	
ATAD5	605762	209	25	94283	23800	0	0	0	0	50	0	459557	1	1	
ATCAY	2187414	201	34	19348	5096	0	0	0	0	50	0	471499	1	1	
ATE1	233024	427	-3	29232	7224	0	0	0	0	50	0	384349	1	1	
ATF1	665195	250	42	13671	3969	0	0	0	0	50	1	473067	1	1	
ATF2	347113	641	24	25550	7336	0	0	0	0	50	0	439999	1	1	
ATF3	418310	224	22	10227	2793	0	0	0	0	50	1	373247	1	1	
ATF4	721040	467	72	17521	4865	0	0	0	0	50	0	397838	1	1	
ATF5	1679101	205	45	13195	4718	0	0	0	0	50	0	408702	1	1	
ATF6	407279	420	16	34132	9443	0	0	0	0	50	1	325619	1	1	
ATF6B	2170336	224	32	34930	10892	0	0	0	0	50	0	498204	1	1	
ATF7	1542915	154	52	24535	7574	0	0	0	0	50	0	412629	1	1	
ATF7IP	339265	882	12	62755	18494	0	0	0	0	50	1	336497	1	1	
ATF7IP2	199617	364	9	34832	9037	0	0	0	0	50	0	412321	1	1	
ATG10	156562	717	25	11648	2863	0	0	0	0	6	0	68649	1	1	
ATG12	384075	759	1	7063	2072	0	0	0	0	50	0	456806	1	1	
ATG16L1	427221	155	31	31297	8435	0	0	0	0	50	1	380345	1	1	
ATG16L2	528497	281	50	31227	9303	0	0	0	0	50	0	325549	1	1	
ATG2A	3218288	209	61	95186	30331	0	0	0	0	50	0	492569	1	1	
ATG2B	327434	501	14	105735	28686	0	0	0	0	50	1	427084	1	1	
ATG3	302697	636	41	16744	4025	0	0	0	0	50	0	285075	1	1	
ATG4A	201673	NaN	25	21098	5047	0	0	0	0	50	0	376985	1	1	
ATG4B	1268313	406	27	20979	5292	0	0	0	0	50	0	364532	1	1	
ATG4C	220392	415	5	23877	5880	0	0	0	0	50	1	352576	1	1	
ATG4D	2036812	226	23	23506	7217	0	0	0	0	50	2	439054	1	1	
ATG5	181529	390	32	14567	3409	0	0	0	0	50	0	456239	1	1	
ATG7	184628	425	30	36078	9786	0	0	0	0	50	0	509901	1	1	
ATG9A	773232	177	36	41657	12439	0	0	0	0	50	1	392553	1	1	
ATHL1	1463610	437	24	36281	11305	0	0	0	0	50	0	358533	1	1	
ATIC	530312	531	12	30247	8372	0	0	0	0	50	0	432922	1	1	
ATL1	483990	295	43	28910	7399	0	0	0	0	50	2	424060	1	1	
ATL2	808394	366	25	31815	8337	0	0	0	0	50	0	521080	1	1	
ATL3	1058363	170	50	27860	7294	0	0	0	0	50	0	416605	1	1	
ATM	415837	582	16	158179	39620	0	0	0	0	50	0	458731	1	1	
ATMIN	231500	284	4	40264	11942	0	0	0	0	50	0	424613	1	1	
ATN1	2704950	211	47	56217	19488	0	0	0	0	50	1	523068	1	1	
ATOH1	58522	802	24	16905	5460	0	0	0	0	50	0	369278	1	1	
ATOH7	459384	251	17	7294	2345	0	0	0	0	50	0	449498	1	1	
ATOH8	1105419	181	46	15015	5439	0	0	0	0	50	0	427350	1	1	
ATOX1	584468	406	46	3710	931	0	0	0	0	30	0	294609	1	1	

ATP10B	170108	904	11	73591	20363	0	0	0	0	50	0	418824	1	1	
ATP10D	93423	528	29	72030	19719	0	0	0	0	50	1	499030	1	1	
ATP11A	585697	416	45	62524	16730	0	0	0	0	50	0	508172	1	1	
ATP11B	228613	559	16	60809	15841	0	0	0	0	50	0	454839	1	1	
ATP11C	66616	NaN	18	59619	15603	0	0	0	0	50	0	410095	1	1	
ATP12A	467468	619	40	53039	14707	0	0	0	0	50	2	474474	1	1	
ATP13A1	768855	418	-10	59570	18487	0	0	0	0	8	0	83468	1	1	
ATP13A2	678965	221	52	62447	19306	0	0	0	0	50	2	412125	1	1	
ATP13A3	324325	269	27	63336	16569	0	0	0	0	50	1	508221	1	1	
ATP13A4	144678	776	-2	61271	16576	0	0	0	0	50	0	413217	1	1	
ATP13A5	141358	851	1	62608	16583	0	0	0	0	20	0	181468	1	1	
ATP1A1	616485	464	18	52150	14504	0	0	0	0	50	0	381752	1	1	
ATP1A2	835734	386	23	51177	14994	0	0	0	0	50	0	534331	1	1	
ATP1A3	1150724	438	33	51072	14658	0	0	0	0	50	1	431144	1	1	
ATP1A4	841605	386	29	51933	14721	0	0	0	0	50	0	374353	1	1	
ATP1B1	231221	416	19	15603	3969	0	0	0	0	50	0	371042	1	1	
ATP1B2	2069567	213	34	15127	3710	0	0	0	0	50	0	362775	1	1	
ATP1B3	467997	345	28	14441	3703	0	0	0	0	50	0	396914	1	1	
ATP1B4	484939	NaN	23	18620	4564	0	0	0	0	50	0	322357	1	1	
ATP2A1	1167826	218	55	50211	14910	0	0	0	0	50	0	522683	1	1	
ATP2A2	969445	178	26	52647	14994	0	0	0	0	50	0	433608	1	1	
ATP2A3	617494	268	33	52983	16128	0	0	0	0	50	0	374710	1	1	
ATP2B1	235578	418	9	64323	17514	0	0	0	0	50	1	433888	1	1	
ATP2B2	673500	458	50	62482	17654	0	0	0	0	50	1	457996	1	1	
ATP2B4	513211	256	35	63308	18088	0	0	0	0	50	0	416962	1	1	
ATP2C1	313762	475	19	51051	13293	0	0	0	0	50	1	450415	1	1	
ATP2C2	646239	396	5	48167	13720	0	0	0	0	50	0	344673	1	1	
ATP4A	1081638	390	41	51884	15190	0	0	0	0	50	1	357574	1	1	
ATP4B	723091	370	36	15092	3850	0	0	0	0	50	0	485226	1	1	
ATP5A1	388169	300	67	27580	8372	0	0	0	0	50	1	435043	1	1	
ATP5B	2757565	164	43	26005	8141	0	0	0	0	50	1	530726	1	1	
ATP5C1	199228	475	16	15659	4102	0	0	0	0	50	0	376425	1	1	
ATP5D	2214581	234	29	8218	2807	0	0	0	0	50	1	402808	1	1	
ATP5E	948552	126	25	2793	693	0	0	0	0	26	0	192955	1	1	
ATP5F1	397613	348	23	13055	3640	0	0	0	0	50	0	375704	1	1	
ATP5G1	757963	239	29	6895	2114	0	0	0	0	50	0	457212	1	1	
ATP5G2	1616455	189	50	9653	3220	0	0	0	0	50	0	413630	1	1	
ATP5G3	343228	752	28	7140	2247	0	0	0	0	50	0	446474	1	1	
ATP5H	1111289	171	31	8638	2030	0	0	0	0	50	0	340879	1	1	
ATP5I	639827	489	12	3752	994	0	0	0	0	50	0	373163	1	1	
ATP5J	534575	641	29	6321	1512	0	0	0	0	26	0	198380	1	1	
ATP5J2	1327454	288	60	5586	1260	0	0	0	0	50	0	338653	1	1	
ATP5L	963668	192	48	5194	1526	0	0	0	0	50	1	410221	1	1	
ATP5L2	NaN	NaN	NaN	4802	1561	0	0	0	0	31	2	345044	1	1	
ATP5O	948739	419	44	10878	3192	0	0	0	0	50	0	429919	1	1	
ATP5S	666223	337	28	12082	2870	0	0	0	0	50	2	384524	1	1	
ATP5SL	1104034	376	38	14406	3150	0	0	0	0	50	1	345870	1	1	
ATP6AP1	2277674	NaN	40	23324	7147	0	0	0	0	50	0	404474	1	1	
ATP6AP1L	146069	476	1	11242	3269	0	0	0	0	50	1	398223	1	1	
ATP6AP2	456094	NaN	63	17829	4998	0	0	0	0	50	0	372470	1	1	

ATP6V0A1	1993535	162	27	43701	11298	0	0	0	0	50	2	424592	1	1	
ATP6V0A2	953707	315	40	44009	11578	0	0	0	0	50	0	500913	1	1	
ATP6V0A4	310803	385	7	43393	11270	0	0	0	0	50	1	391888	1	1	
ATP6V0B	875223	214	39	10458	3108	0	0	0	0	50	1	391258	1	1	
ATP6V0C	2085452	321	49	7483	2513	0	0	0	0	50	0	413910	1	1	
ATP6V0D1	1099149	153	45	18011	4795	0	0	0	0	50	0	389634	1	1	
ATP6V0D2	192441	1158	-20	18109	4634	0	0	0	0	50	0	430815	1	1	
ATP6V0E1	489007	309	40	4340	1120	0	0	0	0	50	2	340830	1	1	
ATP6V0E2	438832	686	26	11585	4165	0	0	0	0	50	1	449099	1	1	
ATP6V1A	442365	364	33	31549	8561	0	0	0	0	50	1	355978	1	1	
ATP6V1B1	504483	623	25	26110	7406	0	0	0	0	50	0	409759	1	1	
ATP6V1B2	158991	511	-4	25970	7378	0	0	0	0	50	0	414526	1	1	
ATP6V1C1	470948	438	47	20244	4893	0	0	0	0	50	1	480305	1	1	
ATP6V1C2	744427	428	42	22085	5971	0	0	0	0	50	1	476903	1	1	
ATP6V1D	484235	291	32	12894	3402	0	0	0	0	50	0	349433	1	1	
ATP6V1E1	431401	243	-32	12089	2884	0	0	0	0	50	0	417004	1	1	
ATP6V1E2	587710	213	36	11249	3115	0	0	0	0	50	0	405930	1	1	
ATP6V1F	845100	361	49	5936	1750	0	0	0	0	50	1	497903	1	1	
ATP6V1G1	288977	221	10	6139	1526	0	0	0	0	50	0	389732	1	1	
ATP6V1G2	2517285	220	35	6139	1610	0	0	0	0	50	0	429142	1	1	
ATP6V1H	263637	437	9	25438	6146	0	0	0	0	50	0	389200	1	1	
ATP7A	549429	NaN	19	74746	21665	0	0	0	0	50	0	468146	1	1	
ATP7B	353147	461	28	72422	21616	0	0	0	0	50	1	413833	1	1	
ATP8A1	189404	856	28	61936	16121	0	0	0	0	50	0	447118	1	1	
ATP8A2	331788	648	20	61390	16541	0	0	0	0	50	0	477064	1	1	
ATP8B1	340613	247	36	64386	16758	0	0	0	0	50	0	327439	1	1	
ATP8B2	1695430	236	31	64393	17675	0	0	0	0	50	0	435806	1	1	
ATP8B3	2180359	206	29	66577	18662	0	0	0	0	50	1	433153	1	1	
ATP8B4	278209	408	-21	61698	15729	0	0	0	0	50	0	453250	1	1	
ATP9A	171625	419	0	53270	15022	0	0	0	0	50	0	443303	1	1	
ATP9B	91487	731	13	58723	16079	0	0	0	0	50	0	427105	1	1	
ATPAF1	612038	266	23	16674	4725	0	0	0	0	50	0	369446	1	1	
ATPAF2	886959	193	17	14693	4165	0	0	0	0	50	0	393981	1	1	
ATPBD4	189209	811	-14	17255	4291	0	0	0	0	50	0	453817	1	1	
ATPIF1	779314	213	33	6230	1582	0	0	0	0	50	0	361074	1	1	
ATR	564756	403	24	135170	35329	0	0	1	0	50	2	443870	1	1	
ATRIP	1441050	223	39	39158	11830	0	0	0	0	50	0	590023	1	1	
ATRN	971216	421	27	73759	19187	0	0	0	0	50	0	507108	1	1	
ATRNL1	45264	1002	-20	71260	18032	0	0	0	0	50	0	430584	1	1	
ATRX	548517	NaN	8	128849	31066	0	0	0	0	50	1	408121	1	1	
ATXN1	109777	623	30	38955	12537	0	0	0	0	50	1	449659	1	1	
ATXN10	498533	172	15	24290	6622	0	0	0	0	50	0	372932	1	1	
ATXN1L	NaN	NaN	NaN	32585	10885	0	0	0	0	50	2	790433	1	1	
ATXN2	523776	302	42	65401	19397	0	0	0	0	50	2	352744	1	1	
ATXN2L	1146511	221	56	56840	17668	0	0	0	0	50	0	539336	1	1	
ATXN3	356163	415	27	19453	4235	0	0	0	0	50	0	491001	1	1	
ATXN3L	295243	NaN	40	18011	4417	0	0	0	0	50	0	397166	1	1	
ATXN7	156786	683	8	47670	14322	0	0	0	0	50	0	544271	1	1	
ATXN7L1	406187	454	33	43834	13349	0	0	0	0	50	1	353591	1	1	
ATXN7L2	1056159	272	37	35420	11011	0	0	0	0	50	0	353479	1	1	

ATXN7L3	930750	175	41	18788	4543	0	0	0	0	50	1	428519	1	1	
ATXN7L3B	NaN	NaN	NaN	4802	1372	0	0	0	0	31	2	344855	1	1	
AUH	124246	342	24	17094	5124	0	0	0	0	50	0	407057	1	1	
AUP1	1019591	315	50	20419	6398	0	0	0	0	50	0	429359	1	1	
AURKA	254679	672	-43	20552	5572	0	0	0	0	50	0	530740	1	1	
AURKAIP1	1736268	273	28	9772	3143	0	0	0	0	50	1	412650	1	1	
AURKB	870950	218	18	17437	4970	0	0	0	0	50	1	365645	1	1	
AURKC	407201	924	-63	15750	4494	0	0	0	0	50	1	362040	1	1	
AUTS2	52369	997	12	64428	19467	0	0	0	0	50	0	441399	1	1	
AVEN	409752	499	0	17920	5411	0	0	0	0	50	0	435022	1	1	
AVIL	1106109	238	40	41979	11235	0	0	0	0	50	0	342055	1	1	
AVL9	371440	595	10	33068	9079	0	0	0	0	50	0	422408	1	1	
AVP	835590	288	54	8148	2499	0	0	0	0	50	0	343882	1	1	
AVPI1	514755	143	54	7308	2184	0	0	0	0	50	0	388661	1	1	
AVPR1A	250995	521	-32	20433	6048	0	0	0	0	50	1	404936	1	1	
AVPR1B	755856	400	10	20006	6853	0	0	0	0	50	0	328496	1	1	
AVPR2	2328608	NaN	27	17836	6188	0	0	0	0	50	0	517979	1	1	
AWAT1	161347	NaN	27	16779	4494	0	0	0	0	50	0	445277	1	1	
AWAT2	166632	NaN	16	16940	4732	0	0	0	0	50	0	419783	1	1	
AXIN1	1444992	205	40	42630	12579	0	0	0	0	50	0	619150	1	1	
AXIN2	212714	773	-26	41888	12040	0	0	0	0	50	1	424935	1	1	
AXL	1180169	214	15	44814	13167	0	0	0	0	20	0	163898	1	1	
AZGP1	1584669	391	36	15120	4011	0	0	0	0	50	0	371980	1	1	
AZI1	1748003	243	28	54229	15974	0	0	0	0	50	1	453712	1	1	
AZI2	68916	925	9	21938	5236	0	0	0	0	50	0	461741	1	1	
AZIN1	689560	171	54	23331	5796	0	0	0	0	50	2	373604	1	1	
AZU1	2168802	198	28	12215	4039	0	0	0	0	50	1	443968	1	1	
B2M	673122	428	36	6202	1652	0	0	0	0	50	0	394016	1	1	
B3GALNT1	340975	583	-20	16681	4319	0	0	0	0	50	0	451430	1	1	
B3GALNT2	536528	350	16	25564	6923	0	0	0	0	50	0	412594	1	1	
B3GALT1	67289	1010	-14	16261	4340	0	0	0	0	50	1	438592	1	1	
B3GALT2	NaN	NaN	NaN	20958	5691	0	0	0	0	50	2	785239	1	1	
B3GALT4	1456953	262	30	17703	6174	0	0	0	0	50	0	411845	1	1	
B3GALT5	286705	689	-70	15414	4221	0	0	0	0	47	1	406938	1	1	
B3GALT6	2356409	196	27	15267	5565	0	0	0	0	50	0	525952	1	1	
B3GALTL	183118	606	27	26068	6545	0	0	0	0	50	1	411327	1	1	
B3GAT1	270422	686	5	16170	5355	0	0	0	0	50	0	413749	1	1	
B3GAT2	178636	733	7	15624	5082	0	0	0	0	50	0	474565	1	1	
B3GAT3	2695768	217	42	16023	5523	0	0	0	0	50	1	466214	1	1	
B3GNT1	1963418	182	55	19971	6321	0	0	0	0	50	0	412622	1	1	
B3GNT2	316454	412	38	19845	5313	0	0	0	0	50	1	400176	1	1	
B3GNT3	1216364	212	37	17857	5810	0	0	0	0	50	1	345779	1	1	
B3GNT4	808864	187	12	18151	5894	0	0	0	0	50	0	406238	1	1	
B3GNT5	NaN	NaN	NaN	18998	4879	0	0	0	0	50	2	784427	1	1	
B3GNT6	368988	395	37	18144	6216	0	0	0	0	50	1	443989	1	1	
B3GNT7	1124713	359	42	19362	6048	0	0	0	0	50	1	357133	1	1	
B3GNT8	1104034	376	38	18501	6657	0	0	0	0	50	1	345870	1	1	
B3GNT9	1093307	150	47	18655	6734	0	0	0	0	50	0	441210	1	1	
B3GNTL1	303219	483	14	18753	5103	0	0	0	0	50	1	389669	1	1	
B4GALNT1	1329939	344	52	25942	8519	0	0	0	0	50	1	484764	1	1	

B4GALNT2	868792	346	21	28609	8372	0	0	0	0	50	0	387961	1	1	
B4GALNT3	496097	246	32	50456	14077	0	0	0	0	50	0	377965	1	1	
B4GALNT4	1454043	344	48	51121	16037	0	0	0	0	50	1	572572	1	1	
B4GALT1	901836	181	28	19544	6013	0	0	0	0	50	0	533848	1	1	
B4GALT2	875223	214	39	18396	5607	0	0	0	0	50	1	391258	1	1	
B4GALT3	728669	234	37	19054	6272	0	0	0	0	50	0	442974	1	1	
B4GALT4	248430	588	3	17549	4606	0	0	0	0	50	0	395906	1	1	
B4GALT5	1040657	132	55	19894	5285	0	0	0	0	50	0	419258	1	1	
B4GALT6	293258	554	32	19845	4956	0	0	0	0	50	0	495663	1	1	
B4GALT7	1316033	475	42	16296	4830	0	0	0	0	50	1	460691	1	1	
B9D1	630769	332	11	10542	2877	0	0	0	0	12	0	85631	1	1	
B9D2	1193025	249	33	8771	2569	0	0	0	0	50	3	324716	1	1	
BAALC	461588	584	15	7301	2065	0	0	0	0	50	0	389501	1	1	
BAAT	112947	898	-22	20489	6160	0	0	0	0	50	0	424284	1	1	
BACE1	436617	360	36	24927	7371	0	0	0	0	50	0	379232	1	1	
BACE2	197460	530	-6	25690	7679	0	0	0	0	50	0	428078	1	1	
BACH1	315733	289	60	36883	9884	0	0	0	0	50	2	424137	1	1	
BACH2	294466	601	13	41489	11893	0	0	0	0	50	0	454685	1	1	
BAD	1613996	257	65	9667	2744	0	0	0	0	50	0	419300	1	1	
BAG1	856503	167	38	17311	5033	0	0	0	0	50	1	417298	1	1	
BAG2	314024	348	23	10696	2828	0	0	0	0	50	0	443597	1	1	
BAG3	731222	199	48	27622	8918	0	0	0	0	50	1	321069	1	1	
BAG4	705837	277	46	22421	6769	0	0	0	0	50	1	455861	1	1	
BAG5	867608	225	39	24388	6587	0	0	0	0	50	1	385175	1	1	
BAGE	NaN	NaN	NaN	2373	630	0	0	0	0	28	2	256886	1	1	
BAGE2	NaN	NaN	NaN	5943	1701	0	0	0	0	31	2	345184	1	1	
BAGE3	NaN	NaN	NaN	5943	1701	0	0	0	0	31	2	345184	1	1	
BAGE4	NaN	NaN	NaN	2373	630	0	0	0	0	28	2	256886	1	1	
BAGE5	30235	1262	-79	2373	630	0	0	0	0	50	1	261100	1	1	
BAHCC1	3216151	268	24	122759	40327	0	0	0	0	44	0	349510	1	1	
BAHD1	888588	192	47	37268	12439	0	0	0	0	50	1	410823	1	1	
BAI1	296361	567	25	78092	24199	0	0	0	0	50	0	504931	1	1	
BAI2	1169755	173	36	78246	24276	0	0	0	0	50	1	423066	1	1	
BAI3	11277	1175	-22	78316	20153	0	0	0	0	50	0	429730	1	1	
BAIAP2	1727896	243	16	29638	8204	0	0	0	0	2	0	20083	1	1	
BAIAP2L1	609918	249	36	26348	7000	0	0	0	0	50	0	448049	1	1	
BAIAP2L2	1528130	197	73	26572	7910	0	0	0	0	50	0	443240	1	1	
BAIAP3	1150864	215	36	59738	17878	0	0	0	0	50	1	375942	1	1	
BAK1	1252332	205	35	10605	3171	0	0	0	0	50	0	332122	1	1	
BAMBI	204133	418	13	13090	3521	0	0	0	0	50	0	414869	1	1	
BANF1	3854361	208	57	4578	1260	0	0	0	0	50	1	425138	1	1	
BANF2	594840	432	1	5166	1260	0	0	0	0	50	0	347046	1	1	
BANK1	80568	482	-7	40866	9996	0	0	0	0	50	0	432026	1	1	
BANP	639210	231	31	27349	7574	0	0	0	0	50	1	360262	1	1	
BAP1	1078407	229	62	36715	10619	0	0	0	0	50	1	410865	1	1	
BARD1	310874	948	11	39361	10493	0	0	0	0	50	1	454489	1	1	
BARHL1	1522970	581	37	15624	5208	0	0	0	0	50	1	553329	1	1	
BARHL2	82474	897	-4	18900	5754	0	0	0	0	50	0	422842	1	1	
BARX1	448425	479	25	12313	4004	0	0	0	0	50	0	500094	1	1	
BARX2	287214	440	-19	13832	4102	0	0	0	0	50	0	390698	1	1	

BASP1	237391	349	-10	11109	3339	0	0	0	0	50	0	408093	1	1	
BAT1	2515825	220	35	22085	5782	0	0	0	0	50	0	429142	1	1	
BAT2	2517260	193	28	103446	35028	0	0	0	0	50	0	516992	1	1	
BAT2L1	651666	272	34	110614	32438	0	0	0	0	50	0	423682	1	1	
BAT2L2	406372	793	2	137900	40138	0	0	0	0	50	0	380212	1	1	
BAT3	2517236	193	20	55482	17955	0	0	0	0	50	0	540043	1	1	
BAT4	2517236	193	20	17164	5495	0	0	0	0	50	0	540043	1	1	
BAT5	2517236	193	20	31297	8939	0	0	0	0	50	0	540043	1	1	
BATF	691659	175	49	6363	1743	0	0	0	0	50	2	279762	1	1	
BATF2	3151458	209	52	13069	4424	0	0	0	0	50	0	467068	1	1	
BATF3	399829	364	30	6405	1827	0	0	0	0	50	1	416346	1	1	
BAX	1927185	211	43	12628	3794	0	0	0	0	50	1	404320	1	1	
BAZ1A	615028	184	24	79835	20440	0	0	0	0	50	0	398461	1	1	
BAZ1B	929895	162	48	75642	19446	0	0	0	0	50	2	455070	1	1	
BAZ2A	2782714	164	50	94584	27846	0	0	0	0	50	1	510272	1	1	
BAZ2B	351229	414	23	110537	29050	0	0	0	0	50	0	451213	1	1	
BBC3	1350139	232	33	15624	1134	0	0	0	0	50	0	392287	1	1	
BBOX1	178328	527	-18	20034	4998	0	0	0	0	50	2	511581	1	1	
BBS1	1642783	194	56	29687	9121	0	0	0	0	50	0	477988	1	1	
BBS10	563668	507	-10	35693	10045	0	0	0	0	50	0	386260	1	1	
BBS12	134067	172	14	34923	9954	0	0	0	0	50	0	371833	1	1	
BBS2	543900	285	20	36540	10290	0	0	0	0	50	0	413959	1	1	
BBS4	1110048	380	40	27167	6895	0	0	0	0	50	1	354298	1	1	
BBS5	370890	418	22	18032	4480	0	0	0	0	50	0	495712	1	1	
BBS7	324357	506	29	37163	9520	0	0	0	0	50	1	426433	1	1	
BBS9	233203	759	-6	45612	12180	0	0	0	0	50	0	435190	1	1	
BBX	224591	699	2	48314	12292	0	0	0	0	50	0	459844	1	1	
BCAN	1851672	180	37	45661	14399	0	0	0	0	50	0	461594	1	1	
BCAP29	512690	753	26	18501	4158	0	0	0	0	50	1	414134	1	1	
BCAP31	1716845	NaN	44	15876	4494	0	0	0	0	50	0	375634	1	1	
BCAR1	568174	171	16	47894	15673	0	0	0	0	50	0	381780	1	1	
BCAR3	595695	173	9	41174	11788	0	0	0	0	50	0	423696	1	1	
BCAS1	163555	415	2	29414	8365	0	0	0	0	50	1	410242	1	1	
BCAS2	652485	394	6	11886	2898	0	0	0	0	50	0	395059	1	1	
BCAS3	211130	576	-11	47299	13244	0	0	0	0	50	0	386400	1	1	
BCAS4	421783	191	36	11949	3402	0	0	0	0	50	0	440188	1	1	
BCAT1	252342	905	2	20622	5670	0	0	0	0	50	0	499779	1	1	
BCAT2	1700740	181	39	19789	5852	0	0	0	0	50	1	433573	1	1	
BCCIP	206845	738	-4	20111	5110	0	0	0	0	50	0	385861	1	1	
BCDIN3D	1291800	231	45	14378	4207	0	0	0	0	50	0	525308	1	1	
BCHE	28918	1215	-18	30317	7924	0	0	0	0	50	1	434511	1	1	
BCKDHA	1104034	376	38	22540	6272	0	0	0	0	50	1	345870	1	1	
BCKDHB	131029	869	-9	20034	5607	0	0	0	0	50	0	619430	1	1	
BCKDK	1296884	351	35	20671	6230	0	0	0	0	50	1	440783	1	1	
BCL10	348743	384	3	11536	3374	0	0	0	0	50	0	396235	1	1	
BCL11A	151287	732	7	43288	11816	0	0	0	0	50	0	479360	1	1	
BCL11B	316817	629	-40	43134	13503	0	0	0	0	50	1	422933	1	1	
BCL2	207116	522	60	11914	3983	0	0	0	0	50	0	290878	1	1	
BCL2A1	234803	702	28	9912	2520	0	0	0	0	50	0	428148	1	1	
BCL2L1	864206	213	21	11508	3318	0	0	0	0	50	1	336119	1	1	

BCL2L10	540700	195	21	9723	3318	0	0	0	0	50	0	371644	1	1	
BCL2L11	NaN	NaN	NaN	12194	3304	0	0	0	0	50	2	782852	1	1	
BCL2L12	1733181	195	36	16121	5488	0	0	0	0	50	1	446607	1	1	
BCL2L13	413666	221	-23	23884	7238	0	0	0	0	50	0	413196	1	1	
BCL2L14	331421	489	26	18004	4823	0	0	0	0	50	1	447629	1	1	
BCL2L15	335231	545	13	8351	2233	0	0	0	0	50	0	388913	1	1	
BCL2L2	1171456	330	20	9282	3108	0	0	0	0	50	0	425824	1	1	
BCL3	812266	188	-22	21721	7658	0	0	0	0	50	1	412195	1	1	
BCL6	88374	374	24	35329	9884	0	0	0	0	50	0	403662	1	1	
BCL6B	1696302	360	24	23513	7399	0	0	0	0	50	1	319648	1	1	
BCL7A	796948	211	31	11928	3108	0	0	0	0	50	0	436772	1	1	
BCL7B	955146	171	48	10276	2933	0	0	0	0	50	1	444346	1	1	
BCL7C	1546514	207	48	10724	3472	0	0	0	0	50	0	434364	1	1	
BCL9	NaN	NaN	NaN	68873	21532	0	0	0	0	50	2	801080	1	1	
BCL9L	1488276	175	54	72072	23016	0	0	0	0	50	0	361620	1	1	
BCLAF1	286851	153	21	46529	12418	0	0	0	0	50	0	507864	1	1	
BCMO1	302391	288	1	28014	7350	0	0	0	0	50	1	532987	1	1	
BCO2	389593	362	2	29582	7882	0	0	0	0	50	0	351330	1	1	
BCOR	377184	NaN	42	86324	25480	0	0	0	0	50	1	491694	1	1	
BCORL1	389645	NaN	38	85687	27923	0	0	0	0	50	1	425194	1	1	
BCORL2	NaN	NaN	NaN	9051	2310	0	0	0	0	50	2	781858	1	1	
BCR	384444	575	43	63924	18060	0	0	0	0	50	0	348467	1	1	
BCS1L	1033606	269	43	20776	6314	0	0	0	0	50	0	459746	1	1	
BDH1	685310	263	39	17234	4942	0	0	0	0	50	1	495355	1	1	
BDH2	350185	454	27	12894	3360	0	0	0	0	50	0	463344	1	1	
BDKRB1	326763	501	16	17010	5418	0	0	0	0	50	1	427245	1	1	
BDKRB2	330952	500	10	19187	5677	0	0	0	0	50	0	413042	1	1	
BDNF	380275	534	-24	18130	4991	0	0	0	0	50	1	462777	1	1	
BDP1	365874	516	16	133476	35091	0	0	0	0	50	1	521836	1	1	
BEAN	NaN	NaN	NaN	12677	4039	0	0	0	0	50	2	783587	1	1	
BECN1	1633092	190	33	23541	5838	0	0	0	0	50	0	400561	1	1	
BEGAIN	402460	304	5	28952	8974	0	0	0	0	50	0	468076	1	1	
BEND2	66906	NaN	11	41118	10920	0	0	0	0	50	0	450275	1	1	
BEND3	208838	417	30	40663	11816	0	0	0	0	50	0	506422	1	1	
BEND4	263825	496	24	26341	7700	0	0	0	0	50	0	376649	1	1	
BEND5	25250	886	-8	21266	5824	0	0	0	0	50	1	585515	1	1	
BEND6	428244	271	23	14574	3570	0	0	0	0	50	1	431102	1	1	
BEND7	241076	532	25	24262	6902	0	0	0	0	50	0	370328	1	1	
BEST1	2389859	185	53	33621	9471	0	0	0	0	50	0	382746	1	1	
BEST2	1959466	226	29	25151	7651	0	0	0	0	50	2	460684	1	1	
BEST3	499701	394	14	33635	9268	0	0	0	0	50	0	388836	1	1	
BEST4	574317	191	43	23394	7182	0	0	0	0	50	1	401562	1	1	
BET1	467883	483	0	6188	1561	0	0	0	0	50	0	417151	1	1	
BET1L	1463610	437	24	7917	2310	0	0	0	0	50	0	358533	1	1	
BET3L	NaN	NaN	NaN	9338	2506	0	0	0	0	50	2	782054	1	1	
BEX1	456169	NaN	16	6475	1547	0	0	0	0	50	0	369488	1	1	
BEX2	455954	NaN	17	8351	1960	0	0	0	0	50	0	450835	1	1	
BEX4	466184	NaN	-5	6167	1540	0	0	0	0	50	0	411383	1	1	
BEX5	119562	NaN	22	5691	1449	0	0	0	0	50	0	358862	1	1	
BFSP1	552334	239	-23	32921	9751	0	0	0	0	50	1	403620	1	1	

BFSP2	342402	497	14	20594	6118	0	0	0	0	50	1	436436	1	1	
BGLAP	2266205	211	33	5222	1435	0	0	0	0	6	0	37170	1	1	
BGN	971101	NaN	7	18529	5306	0	0	0	0	50	1	270109	1	1	
BHLHA15	464632	375	26	8967	3087	0	0	0	0	50	0	373240	1	1	
BHLHA9	NaN	NaN	NaN	10598	4249	0	0	0	0	50	2	783797	1	1	
BHLHB9	162942	NaN	27	26964	7560	0	0	0	0	50	0	497259	1	1	
BHLHE22	9265	1050	-1	17703	6363	0	0	0	0	50	1	405594	1	1	
BHLHE23	821863	447	61	10465	3815	0	0	0	0	50	0	383845	1	1	
BHLHE40	274112	183	33	20363	5992	0	0	0	0	50	0	343518	1	1	
BHLHE41	151502	396	15	23135	7630	0	0	0	0	50	0	350924	1	1	
BHMT	164477	578	36	20685	5544	0	0	0	0	50	0	388570	1	1	
BHMT2	236664	526	38	18599	4963	0	0	0	0	50	1	362761	1	1	
BICC1	156609	497	-22	49294	13811	0	0	0	0	50	1	525602	1	1	
BICD1	387398	460	23	49112	13174	0	0	0	0	50	0	595035	1	1	
BICD2	573438	393	45	42091	12551	0	0	0	0	50	0	451206	1	1	
BID	395559	280	-18	12145	3521	0	0	0	0	50	2	456806	1	1	
BIK	624112	241	48	8071	2408	0	0	0	0	50	1	443156	1	1	
BIN1	324544	324	17	31311	8652	0	0	0	0	50	3	517111	1	1	
BIN2	499804	194	37	28749	7959	0	0	0	0	50	0	365134	1	1	
BIN3	761528	224	49	13440	3276	0	0	0	0	50	0	389984	1	1	
BIRC2	463959	312	15	31542	8043	0	0	0	0	50	0	386204	1	1	
BIRC3	462955	280	5	30786	8001	0	0	0	0	50	0	457674	1	1	
BIRC5	683401	191	24	10619	2338	0	0	0	0	50	0	471121	1	1	
BIRC6	388754	517	24	242970	69216	0	0	0	0	15	0	192199	1	1	
BIRC7	1005137	285	50	14917	4424	0	0	0	0	50	1	392280	1	1	
BIRC8	427680	921	-46	11858	3115	0	0	0	0	50	0	340746	1	1	
BIVM	195534	475	24	26117	6748	0	0	0	0	50	0	333669	1	1	
BLCAP	790368	549	52	4256	1288	0	0	0	0	23	0	163170	1	1	
BLID	143859	453	4	5215	1652	0	0	0	0	50	1	325262	1	1	
BLK	476916	493	55	25732	7133	0	0	1	0	50	1	282009	1	1	
BLM	997342	176	45	72415	18683	0	0	0	0	50	0	470155	1	1	
BLMH	516668	184	26	23947	5705	0	0	0	0	50	1	432579	1	1	
BLNK	817052	804	34	23884	6251	0	0	0	0	50	0	419629	1	1	
BLOC1S1	1814311	384	26	6552	1722	0	0	0	0	50	1	313544	1	1	
BLOC1S2	1071291	198	56	7546	1841	0	0	0	0	50	0	482783	1	1	
BLOC1S3	1230654	243	41	9226	3647	0	0	0	0	50	0	483896	1	1	
BLVRA	690958	250	45	15246	4095	0	0	0	0	50	2	417018	1	1	
BLVRB	1010633	202	34	10122	3255	0	0	0	0	50	0	355971	1	1	
BLZF1	286300	491	7	20279	5572	0	0	0	0	50	0	418250	1	1	
BMF	884609	226	39	9681	2226	0	0	0	0	50	1	416080	1	1	
BMI1	195915	462	23	17080	4277	0	0	0	0	50	0	346003	1	1	
BMP1	587455	196	50	51821	13804	0	0	0	0	50	1	394975	1	1	
BMP10	404215	470	27	21091	5768	0	0	0	0	50	0	496069	1	1	
BMP15	15214	NaN	27	19292	5635	0	0	0	0	50	1	414974	1	1	
BMP2	44205	385	-10	19523	5656	0	0	0	0	50	2	454762	1	1	
BMP2K	234707	489	30	59430	15792	0	0	0	0	50	1	400442	1	1	
BMP3	10953	1083	4	23226	6741	0	0	0	0	50	2	402878	1	1	
BMP4	252916	645	-3	19964	5971	0	0	0	0	50	0	347046	1	1	
BMP5	68578	483	-9	23072	6139	0	0	0	0	50	1	482713	1	1	
BMP6	830850	327	8	25452	7434	0	0	0	0	50	0	440069	1	1	

BMP7	207872	617	-21	21742	5978	0	0	0	0	50	0	505960	1	1	
BMP8A	1026100	352	33	19663	6230	0	0	0	0	50	0	396641	1	1	
BMP8B	975799	388	39	20090	6286	0	0	0	0	50	0	353969	1	1	
BMPER	20466	507	-17	35336	9058	0	0	0	0	50	2	410613	1	1	
BMPR1A	379827	195	26	27307	7112	0	0	0	0	50	0	539280	1	1	
BMPR1B	119865	642	-15	25788	6741	0	0	0	0	50	0	502327	1	1	
BMPR2	369483	417	30	51940	14525	0	0	0	0	50	0	452998	1	1	
BMS1	420649	787	-27	66066	16611	0	0	0	0	50	1	374710	1	1	
BMX	188273	NaN	36	35602	8498	0	0	0	0	50	1	318570	1	1	
BNC1	206688	679	11	49609	13454	0	0	0	0	50	0	391678	1	1	
BNC2	37330	534	-14	54600	15204	0	0	0	0	50	3	490420	1	1	
BNIP1	483076	397	34	13916	3724	0	0	0	0	50	0	397992	1	1	
BNIP2	521844	172	33	22232	6034	0	0	0	0	50	0	417585	1	1	
BNIP3	123624	470	-21	10101	2604	0	0	0	0	50	0	446754	1	1	
BNIP3L	194595	376	26	11389	2891	0	0	0	0	50	0	438452	1	1	
BNIPL	1614665	165	40	17997	5313	0	0	0	0	50	0	400533	1	1	
BOC	437186	634	21	55132	16667	0	0	0	0	50	0	380576	1	1	
BOD1	255069	371	31	9590	2989	0	0	0	0	50	2	445039	1	1	
BOD1L	133545	511	27	153202	41174	0	0	0	0	50	0	452151	1	1	
BOK	1214632	426	30	10248	3507	0	0	0	0	50	0	394149	1	1	
BOLA1	798975	560	17	6440	2338	0	0	0	0	50	1	450401	1	1	
BOLA2	NaN	NaN	NaN	15064	4634	0	0	0	0	50	2	784182	1	1	
BOLA2B	1906000	253	52	15064	4634	0	0	0	0	50	0	372008	1	1	
BOLA3	1023516	250	38	7112	1477	0	0	0	0	50	0	391090	1	1	
BOLL	639001	684	22	15344	4144	0	0	0	0	50	1	408058	1	1	
BOP1	NaN	NaN	NaN	37156	11249	0	0	0	0	50	2	790797	1	1	
BPGM	388879	392	23	13048	3500	0	0	0	0	50	0	399700	1	1	
BPHL	444075	435	41	14742	4200	0	0	0	0	50	1	506128	1	1	
BPI	562486	350	45	25130	6832	0	0	0	0	50	0	405510	1	1	
BPIL1	488576	461	43	22701	7476	0	0	0	0	50	1	511784	1	1	
BPIL2	371339	401	3	25984	7196	0	0	0	0	50	0	375529	1	1	
BPIL3	515931	491	46	23107	6650	0	0	0	0	50	1	433923	1	1	
BPNT1	638729	613	-6	15701	4438	0	0	0	0	50	1	429919	1	1	
BPTF	772730	293	1	152530	41909	0	0	0	0	50	0	408142	1	1	
BPY2	NaN	NaN	NaN	16569	4662	0	0	0	0	50	2	784210	1	1	
BPY2B	NaN	NaN	NaN	16569	4662	0	0	0	0	50	2	784210	1	1	
BPY2C	NaN	NaN	NaN	16569	4662	0	0	0	0	50	2	784210	1	1	
BRAF	305191	616	25	38836	10955	0	0	0	0	50	0	466326	1	1	
BRAP	591444	191	32	30548	7735	0	0	0	0	50	1	382571	1	1	
BRCA1	1466229	201	27	96768	23982	0	0	0	0	50	0	367367	1	1	
BRCA2	221300	462	44	173348	44233	0	0	0	0	39	1	393582	1	1	
BRCC3	NaN	NaN	NaN	16737	4200	0	0	0	0	50	2	783748	1	1	
BRD1	644644	276	-18	52577	15064	0	0	0	0	50	1	396543	1	1	
BRD2	1276842	431	40	39893	11557	0	0	0	0	50	2	417214	1	1	
BRD3	495575	398	40	36386	10255	0	0	0	0	50	1	509670	1	1	
BRD4	557083	381	20	68306	19432	0	0	0	0	50	0	431907	1	1	
BRD7	303953	520	14	34314	8211	0	0	0	0	50	1	411684	1	1	
BRD8	1085933	314	45	67557	18522	0	0	0	0	50	0	491393	1	1	
BRD9	875343	491	30	32312	6748	0	0	0	0	50	0	387429	1	1	
BRDT	311662	242	9	49308	11928	0	0	0	0	50	0	389949	1	1	

BRE	536663	376	27	23429	6202	0	0	0	0	50	1	339801	1	1	
BRF1	899979	260	32	34447	9695	0	0	0	0	50	2	368578	1	1	
BRF2	660779	379	37	20223	6489	0	0	0	0	50	0	508606	1	1	
BRI3	566928	294	41	7063	2177	0	0	0	0	50	0	361802	1	1	
BRI3BP	1000229	229	37	11998	4046	0	0	0	0	50	0	363923	1	1	
BRIP1	326357	412	-9	63770	16576	0	0	0	0	50	0	467537	1	1	
BRIX1	241905	675	21	18634	4508	0	0	0	0	50	0	401338	1	1	
BRMS1	1963418	182	55	15393	3906	0	0	0	0	50	0	412622	1	1	
BRMS1L	188271	400	10	17304	3864	0	0	0	0	50	0	433699	1	1	
BRP44	535270	290	14	6692	1792	0	0	0	0	50	1	418509	1	1	
BRP44L	199596	556	18	5614	1547	0	0	0	0	50	0	329462	1	1	
BRPF1	955408	348	34	61019	16996	0	0	0	0	50	0	426629	1	1	
BRPF3	821543	358	31	59584	17402	0	0	0	0	50	0	359394	1	1	
BRS3	374989	NaN	23	19537	5873	0	0	0	0	50	0	453327	1	1	
BRSK1	1032110	209	12	38710	11879	0	0	0	0	50	0	329861	1	1	
BRSK2	1234040	426	43	34090	9653	0	0	0	0	50	2	415653	1	1	
BRWD1	383347	235	30	123347	31591	0	0	0	0	18	0	225407	1	1	
BRWD3	150153	NaN	-20	92799	24150	0	0	0	0	50	0	462791	1	1	
BSCL2	2425755	248	51	23177	6874	0	0	0	0	50	0	393407	1	1	
BSDC1	1529661	216	41	22743	6363	0	0	0	0	50	0	461671	1	1	
BSG	1647685	255	-8	19978	5768	0	0	0	0	50	1	369012	1	1	
BSN	1657622	271	40	185836	62405	0	0	0	0	19	0	259154	1	1	
BSND	454766	217	13	16079	4396	0	0	0	0	50	0	463596	1	1	
BSPH1	NaN	NaN	NaN	7294	1547	0	0	0	0	31	2	345030	1	1	
BSPRY	390186	297	36	19838	6013	0	0	0	0	50	0	381297	1	1	
BST1	174344	327	66	16289	4480	0	0	0	0	50	2	417536	1	1	
BST2	899127	211	26	9086	2653	0	0	0	0	50	0	356048	1	1	
BSX	698665	416	8	11263	3626	0	0	0	0	50	0	332675	1	1	
BTAF1	366076	306	22	94430	25270	0	0	0	0	50	0	495761	1	1	
BTBD1	384974	679	27	24304	6713	0	0	0	0	50	0	501088	1	1	
BTBD10	285926	458	10	24241	6419	0	0	0	0	50	0	436338	1	1	
BTBD11	206629	764	16	56203	16961	0	0	0	0	50	0	361501	1	1	
BTBD12	745599	224	39	89474	27223	0	0	0	0	50	0	467964	1	1	
BTBD16	218081	303	-3	26481	6762	0	0	0	0	50	0	425040	1	1	
BTBD17	362227	433	-8	22526	7819	0	0	0	0	50	0	499366	1	1	
BTBD18	NaN	NaN	NaN	34398	10689	0	0	0	0	50	2	790237	1	1	
BTBD19	NaN	NaN	NaN	14231	4753	0	0	0	0	50	2	784301	1	1	
BTBD2	1899295	239	37	25683	8127	0	0	0	0	50	0	474138	1	1	
BTBD3	59672	322	-61	26215	6986	0	0	0	0	50	0	370965	1	1	
BTBD6	927925	289	40	23688	7266	0	0	0	0	50	0	516362	1	1	
BTBD7	321756	407	31	57148	16520	0	0	0	0	50	0	462189	1	1	
BTBD8	220071	406	-6	19719	4872	0	0	0	0	50	0	411509	1	1	
BTBD9	295241	821	32	32767	8813	0	0	0	0	50	0	388332	1	1	
BTC	110870	606	3	9170	2506	0	0	0	0	32	1	214277	1	1	
BTD	433102	235	32	27041	7504	0	0	0	0	50	0	383614	1	1	
BTF3	439732	289	38	10416	3045	0	0	0	0	50	1	353675	1	1	
BTF3L4	658095	315	18	8337	2100	0	0	0	0	50	1	444787	1	1	
BTG1	114728	510	7	8519	2401	0	0	0	0	50	0	419629	1	1	
BTG2	574553	420	26	7861	2282	0	0	0	0	50	2	419741	1	1	
BTG3	101069	479	-5	15162	3969	0	0	0	0	50	0	460243	1	1	

BTG4	383632	485	15	11725	2807	0	0	0	0	50	0	496496	1	1	
BTK	374364	NaN	37	34566	8526	0	0	0	0	50	1	424025	1	1	
BTLA	304354	636	35	14700	3906	0	0	0	0	50	0	292075	1	1	
BTN1A1	426020	498	34	26040	7707	0	0	0	0	50	0	357448	1	1	
BTN2A1	384310	375	47	26775	7602	0	0	0	0	50	1	341096	1	1	
BTN2A2	378286	330	51	26131	7469	0	0	0	0	50	1	415534	1	1	
BTN3A1	384310	375	47	28805	7777	0	0	0	0	50	1	341096	1	1	
BTN3A2	378286	330	51	16989	4788	0	0	0	0	50	1	415534	1	1	
BTN3A3	384310	375	47	29288	8323	0	0	0	0	50	1	341096	1	1	
BTNL2	1582117	580	27	22708	6440	0	0	0	0	50	0	421260	1	1	
BTNL3	893236	602	29	23534	6475	0	0	0	0	50	0	467845	1	1	
BTNL8	783856	602	14	28231	7238	0	0	0	0	50	1	449225	1	1	
BTNL9	893236	602	29	26635	7973	0	0	0	0	50	0	467845	1	1	
BTRC	649315	421	27	31038	8316	0	0	0	0	50	1	358428	1	1	
BUB1	NaN	NaN	NaN	56364	14070	0	0	0	0	50	2	793618	1	1	
BUB1B	876373	161	42	54201	13902	0	0	0	0	50	1	407960	1	1	
BUB3	213809	769	0	16968	4557	0	0	0	0	50	0	389711	1	1	
BUD13	419339	326	36	31213	8645	0	0	0	0	50	0	415961	1	1	
BUD31	1327454	288	60	7672	1799	0	0	0	0	50	0	338653	1	1	
BVES	108905	702	-1	18585	4746	0	0	0	0	50	0	430444	1	1	
BYSL	437075	225	41	21504	6594	0	0	0	0	50	1	362649	1	1	
BZRAP1	810333	399	19	90923	28735	0	0	0	0	50	0	451990	1	1	
BZW1	620967	155	38	18760	4466	0	0	0	0	50	1	395661	1	1	
BZW2	326035	468	-15	21868	5516	0	0	0	0	50	0	392973	1	1	
C10orf10	NaN	NaN	NaN	10129	3374	0	0	0	0	50	2	782922	1	1	
C10orf105	NaN	NaN	NaN	6391	2135	0	0	0	0	50	2	781683	1	1	
C10orf107	79162	310	-21	11081	2590	0	0	0	0	50	0	370209	1	1	
C10orf11	29386	1001	3	10241	2758	0	0	0	0	50	2	421106	1	1	
C10orf111	254900	620	21	7623	2289	0	0	0	0	50	0	332178	1	1	
C10orf113	NaN	NaN	NaN	8589	2142	0	0	0	0	50	2	781690	1	1	
C10orf114	133573	250	-10	6426	2289	0	0	0	0	50	1	508557	1	1	
C10orf116	401785	164	45	3976	1043	0	0	0	0	50	2	335937	1	1	
C10orf118	275620	477	24	46774	11123	0	0	0	0	50	0	434203	1	1	
C10orf119	516746	281	42	33152	8617	0	0	0	0	50	2	413448	1	1	
C10orf120	321415	530	1	17052	4368	0	0	0	0	50	0	471219	1	1	
C10orf122	NaN	NaN	NaN	9478	2555	0	0	0	0	50	2	782103	1	1	
C10orf125	386585	472	13	8043	2415	0	0	0	0	50	0	387611	1	1	
C10orf128	NaN	NaN	NaN	5656	1526	0	0	0	0	31	2	345009	1	1	
C10orf129	321487	512	1	24493	6650	0	0	0	0	50	0	497000	1	1	
C10orf131	NaN	NaN	NaN	9499	2156	0	0	0	0	50	2	781704	1	1	
C10orf137	216532	351	-6	61964	15883	0	0	0	0	50	0	424067	1	1	
C10orf140	128481	409	22	43785	13482	0	0	0	0	50	0	458269	1	1	
C10orf18	679964	303	35	120715	33950	0	0	0	0	22	0	229481	1	1	
C10orf2	1020226	247	40	33453	10395	0	0	0	0	50	0	396403	1	1	
C10orf25	75634	905	25	6097	1736	0	0	0	0	50	0	434406	1	1	
C10orf26	883280	188	44	18445	5390	0	0	0	0	50	0	375508	1	1	
C10orf27	521475	579	30	17766	5082	0	0	0	0	50	2	397845	1	1	
C10orf28	247144	581	10	39165	10416	0	0	0	0	50	0	414246	1	1	
C10orf32	711862	192	45	5691	1512	0	0	0	0	50	3	441273	1	1	
C10orf35	824126	519	31	5887	1967	0	0	0	0	50	0	421645	1	1	

C10orf46	597231	564	19	19026	4956	0	0	0	0	50	0	353479	1	1	
C10orf47	370730	134	19	20580	7140	0	0	0	0	50	1	447482	1	1	
C10orf53	NaN	NaN	NaN	9114	2457	0	0	0	0	50	2	782005	1	1	
C10orf54	NaN	NaN	NaN	15421	4739	0	0	0	0	50	2	784287	1	1	
C10orf55	NaN	NaN	NaN	9611	2401	0	0	0	0	50	2	781949	1	1	
C10orf57	432591	650	-2	6377	1729	0	0	0	0	50	1	410872	1	1	
C10orf58	340132	598	-7	11662	3248	0	0	0	0	50	0	305760	1	1	
C10orf62	NaN	NaN	NaN	11067	3045	0	0	0	0	50	2	782593	1	1	
C10orf67	77657	278	-3	9667	2429	0	0	0	0	50	0	416794	1	1	
C10orf68	493605	708	-15	33453	7854	0	0	0	0	50	0	318871	1	1	
C10orf71	NaN	NaN	NaN	70994	21322	0	0	0	0	50	2	800870	1	1	
C10orf72	NaN	NaN	NaN	18046	5348	0	0	0	0	50	2	784896	1	1	
C10orf76	932053	319	42	36449	9121	0	0	0	0	50	0	421743	1	1	
C10orf78	401935	324	2	12831	3045	0	0	0	0	50	0	504315	1	1	
C10orf79	379380	324	16	86856	21210	0	0	0	0	50	1	408450	1	1	
C10orf81	261759	545	-4	19173	4704	0	0	0	0	50	0	375221	1	1	
C10orf82	195359	618	-17	8064	2037	0	0	0	0	50	0	458192	1	1	
C10orf84	179655	787	4	12523	2807	0	0	0	0	50	1	399525	1	1	
C10orf88	282374	619	13	22393	6125	0	0	0	0	50	0	580531	1	1	
C10orf90	122926	478	-50	34818	9954	0	0	0	0	50	1	372610	1	1	
C10orf91	152612	271	-1	7147	2261	0	0	0	0	50	1	406833	1	1	
C10orf93	330124	590	-13	20902	5390	0	0	0	0	50	0	307307	1	1	
C10orf95	871726	178	41	11886	4494	0	0	0	0	50	1	424452	1	1	
C10orf96	118426	896	-15	14266	2723	0	0	0	0	50	0	477456	1	1	
C10orf99	216191	860	-17	4144	1232	0	0	0	0	27	0	245497	1	1	
C11orf1	437513	221	22	7917	1848	0	0	0	0	50	1	366919	1	1	
C11orf10	1239228	212	59	4179	1155	0	0	0	0	50	0	505092	1	1	
C11orf16	548433	243	21	23093	6895	0	0	0	0	50	0	407848	1	1	
C11orf17	548433	243	21	10612	3101	0	0	0	0	50	0	407848	1	1	
C11orf2	3267059	207	46	37751	12376	0	0	0	0	32	0	246589	1	1	
C11orf20	1613996	257	65	10276	2765	0	0	0	0	50	0	419300	1	1	
C11orf21	NaN	NaN	NaN	8785	2870	0	0	0	0	50	2	782418	1	1	
C11orf24	833157	233	52	21301	7217	0	0	0	0	50	0	373905	1	1	
C11orf30	268174	391	43	65289	19740	0	0	0	0	50	1	404173	1	1	
C11orf31	921177	497	8	6118	1883	0	0	0	0	50	1	338366	1	1	
C11orf34	NaN	NaN	NaN	10556	2800	0	0	0	0	50	2	782348	1	1	
C11orf35	1970020	236	42	31073	10108	0	0	0	0	50	0	398356	1	1	
C11orf40	190769	879	-1	10955	3010	0	0	0	0	50	1	389662	1	1	
C11orf41	826778	524	19	90265	28259	0	0	0	0	50	0	376551	1	1	
C11orf42	466636	728	4	15890	5404	0	0	0	0	50	0	450765	1	1	
C11orf45	NaN	NaN	NaN	7287	2163	0	0	0	0	50	2	781711	1	1	
C11orf46	28896	1021	-17	13307	3388	0	0	0	0	50	0	418628	1	1	
C11orf48	2425755	248	51	13664	3514	0	0	0	0	50	0	393407	1	1	
C11orf49	1268399	373	31	19894	5558	0	0	0	0	50	1	373772	1	1	
C11orf51	715293	267	62	6706	1316	0	0	0	0	50	0	355775	1	1	
C11orf52	437513	221	22	6447	1659	0	0	0	0	50	1	366919	1	1	
C11orf53	209532	617	16	11550	3633	0	0	0	0	50	0	442239	1	1	
C11orf54	290677	527	0	13804	3542	0	0	0	0	50	0	390222	1	1	
C11orf57	389805	179	31	15407	3535	0	0	0	0	50	0	443954	1	1	
C11orf58	466700	635	-21	9695	2233	0	0	0	0	50	0	344337	1	1	

C11orf59	NaN	NaN	NaN	8218	2324	0	0	0	0	50	2	781872	1	1	
C11orf61	168652	622	14	24815	7483	0	0	0	0	50	0	388325	1	1	
C11orf63	675003	416	7	40565	10486	0	0	0	0	50	0	355005	1	1	
C11orf65	405487	579	12	16646	3850	0	0	0	0	50	0	387163	1	1	
C11orf66	1415260	274	58	21924	6006	0	0	0	0	50	0	325906	1	1	
C11orf67	577731	361	35	6258	1785	0	0	0	0	50	0	480172	1	1	
C11orf68	3779084	287	42	13951	4697	0	0	0	0	50	1	388185	1	1	
C11orf70	420989	358	-16	11900	3010	0	0	0	0	50	1	419307	1	1	
C11orf71	157610	477	-8	7056	2394	0	0	0	0	50	0	458409	1	1	
C11orf73	366108	283	24	10087	2723	0	0	0	0	50	1	516439	1	1	
C11orf74	96246	531	-26	11767	2681	0	0	0	0	50	0	450317	1	1	
C11orf75	240034	598	-25	2933	931	0	0	0	0	0	0	931	1	1	
C11orf80	1534660	164	38	34377	9723	0	0	0	0	50	0	512820	1	1	
C11orf82	307255	371	0	50099	13174	0	0	0	0	50	0	447657	1	1	
C11orf83	2425755	248	51	4613	1435	0	0	0	0	50	0	393407	1	1	
C11orf84	1320765	201	47	18802	5684	0	0	0	0	50	1	461279	1	1	
C11orf85	3151458	209	52	11606	2800	0	0	0	0	50	0	467068	1	1	
C11orf86	NaN	NaN	NaN	5649	1785	0	0	0	0	50	2	781333	1	1	
C11orf87	32039	927	-12	9205	3269	0	0	0	0	50	2	512505	1	1	
C11orf88	401074	326	18	10325	2590	0	0	0	0	50	0	397383	1	1	
C11orf9	1239228	212	59	58079	17269	0	0	0	0	50	0	505092	1	1	
C11orf90	NaN	NaN	NaN	10059	2856	0	0	0	0	50	2	782404	1	1	
C11orf91	NaN	NaN	NaN	9086	3220	0	0	0	0	50	2	782768	1	1	
C11orf92	209532	617	16	6083	1792	0	0	0	0	50	0	442239	1	1	
C11orf93	NaN	NaN	NaN	7728	2121	0	0	0	0	50	2	781669	1	1	
C11orf94	427820	291	48	4795	1694	0	0	0	0	50	0	409262	1	1	
C11orf95	NaN	NaN	NaN	32319	10836	0	0	0	0	50	2	790384	1	1	
C12orf10	1689542	166	53	18676	5663	0	0	0	0	50	0	416262	1	1	
C12orf11	409433	327	21	36652	9233	0	0	0	0	50	0	416850	1	1	
C12orf12	20238	574	-33	20146	5495	0	0	0	0	50	0	416164	1	1	
C12orf23	156112	473	21	5754	1785	0	0	0	0	50	0	380023	1	1	
C12orf24	922262	206	43	14175	3591	0	0	0	0	50	1	439082	1	1	
C12orf26	54295	1263	-20	30877	8141	0	0	0	0	50	0	400246	1	1	
C12orf29	152325	507	-27	16989	4053	0	0	0	0	50	0	476462	1	1	
C12orf34	786670	423	45	21266	7441	0	0	0	0	50	2	454804	1	1	
C12orf35	230869	442	27	87290	23086	0	0	0	0	50	0	339507	1	1	
C12orf36	548501	509	5	6958	1967	0	0	0	0	50	0	425509	1	1	
C12orf39	518837	836	-23	6160	1673	0	0	0	0	50	1	329175	1	1	
C12orf4	283278	908	27	28854	7077	0	0	0	0	50	0	419916	1	1	
C12orf40	72641	714	-20	34251	7896	0	0	0	0	50	1	464023	1	1	
C12orf41	1696008	421	21	24976	6839	0	0	0	0	50	0	346647	1	1	
C12orf42	568754	897	2	17969	5194	0	0	0	0	50	0	426265	1	1	
C12orf43	1225663	380	40	13335	3696	0	0	0	0	50	1	351155	1	1	
C12orf44	468067	234	41	10794	3171	0	0	0	0	50	1	317296	1	1	
C12orf45	514255	204	37	9590	2464	0	0	0	0	50	0	367556	1	1	
C12orf48	229712	552	12	25571	6622	0	0	0	0	50	0	449057	1	1	
C12orf49	228972	411	-2	10619	2695	0	0	0	0	50	0	402003	1	1	
C12orf5	295315	860	33	13818	3717	0	0	0	0	50	0	336952	1	1	
C12orf50	152672	507	-36	22008	5061	0	0	0	0	50	1	406770	1	1	
C12orf51	704098	239	40	211540	62153	0	0	0	0	7	0	108745	1	1	

C12orf52	417427	252	35	12719	4459	0	0	0	0	50	0	378322	1	1	
C12orf53	2816186	232	48	13426	4823	0	0	0	0	50	1	498071	1	1	
C12orf54	904892	390	11	7112	1624	0	0	0	0	50	1	297423	1	1	
C12orf56	475083	294	-12	31682	8575	0	0	0	0	50	2	388122	1	1	
C12orf57	2704950	211	47	6377	1876	0	0	0	0	10	0	86156	1	1	
C12orf59	397577	398	18	8106	2478	0	0	0	0	50	1	421092	1	1	
C12orf60	340728	578	-4	12460	3122	0	0	0	0	50	0	309561	1	1	
C12orf61	299026	359	3	6027	2331	0	0	0	0	50	0	449407	1	1	
C12orf62	1040456	192	58	2940	798	0	0	0	0	28	1	175154	1	1	
C12orf63	152762	629	-4	61523	16177	0	0	0	0	50	0	430318	1	1	
C12orf64	127493	587	-16	123235	29330	0	0	0	0	50	0	468657	1	1	
C12orf65	1014179	201	29	8344	2345	0	0	0	0	50	0	418572	1	1	
C12orf66	472096	296	-17	22162	6146	0	0	0	0	50	2	461447	1	1	
C12orf68	511392	352	32	9401	2884	0	0	0	0	50	0	368277	1	1	
C12orf69	340728	578	-4	11151	3171	0	0	0	0	50	0	309561	1	1	
C12orf70	NaN	NaN	NaN	17934	4452	0	0	0	0	50	2	784000	1	1	
C12orf71	489310	328	23	13405	3731	0	0	0	0	50	0	390733	1	1	
C12orf72	313930	228	11	13174	3563	0	0	0	0	50	0	401513	1	1	
C12orf73	NaN	NaN	NaN	3668	1036	0	0	0	0	31	2	344519	1	1	
C12orf74	208773	509	-1	9380	3010	0	0	0	0	50	0	425551	1	1	
C12orf75	NaN	NaN	NaN	3549	903	0	0	0	0	30	2	308819	1	1	
C12orf76	1009535	193	57	7007	1813	0	0	0	0	50	1	403200	1	1	
C12orf77	251399	819	7	7350	2100	0	0	0	0	50	0	363748	1	1	
C13orf1	342767	321	50	10192	2555	0	0	0	0	50	1	384160	1	1	
C13orf15	264598	508	43	7161	1869	0	0	0	0	50	0	370314	1	1	
C13orf16	335348	633	41	7994	2002	0	0	0	0	50	0	338380	1	1	
C13orf18	383104	791	50	33726	9051	0	0	0	0	50	1	316659	1	1	
C13orf23	165959	998	5	44758	15785	0	0	0	0	17	0	135492	1	1	
C13orf26	362646	555	39	15148	3668	0	0	0	0	50	0	395472	1	1	
C13orf27	195534	475	24	11802	2982	0	0	0	0	50	0	333669	1	1	
C13orf28	191446	610	-22	10381	2513	0	0	0	0	50	0	520583	1	1	
C13orf30	175913	538	37	7063	2009	0	0	0	0	50	1	352485	1	1	
C13orf31	139965	346	45	21840	5796	0	0	0	0	50	0	370552	1	1	
C13orf33	369916	547	59	15246	4242	0	0	0	0	50	1	280924	1	1	
C13orf34	257535	685	2	28924	7280	0	0	0	0	50	0	361011	1	1	
C13orf35	572556	389	44	5950	1820	0	0	0	0	50	0	418803	1	1	
C13orf36	194859	868	-12	5110	1694	0	0	0	0	27	0	289779	1	1	
C13orf37	257353	685	-9	4158	1239	0	0	0	0	14	0	133903	1	1	
C13orf38	NaN	NaN	NaN	14455	3521	0	0	0	0	50	2	783069	1	1	
C13orf39	195502	521	34	13328	3661	0	0	0	0	50	1	396949	1	1	
C14orf1	639204	372	46	7140	2079	0	0	0	0	50	1	432152	1	1	
C14orf101	137131	961	2	35917	9947	0	0	0	0	50	1	374409	1	1	
C14orf102	318736	622	14	58947	15582	0	0	0	0	50	1	472563	1	1	
C14orf104	587903	318	10	40320	12684	0	0	0	0	50	0	557235	1	1	
C14orf105	150716	939	15	15414	3717	0	0	0	0	50	0	369138	1	1	
C14orf106	234595	448	8	58478	14245	0	0	0	0	50	0	403893	1	1	
C14orf109	325787	222	35	8442	2352	0	0	0	0	50	0	351904	1	1	
C14orf115	604423	384	45	33348	11004	0	0	0	0	50	0	428778	1	1	
C14orf118	251674	586	36	25214	6895	0	0	0	0	50	0	409703	1	1	
C14orf119	1261207	185	41	6916	2030	0	0	0	0	50	0	424186	1	1	

C14orf126	408399	362	20	8442	2415	0	0	0	0	50	2	461622	1	1	
C14orf129	328104	560	12	7084	1883	0	0	0	0	50	0	419636	1	1	
C14orf135	296496	516	2	47005	12908	0	0	0	0	50	0	414512	1	1	
C14orf138	747266	166	51	11704	3248	0	0	0	0	50	1	354683	1	1	
C14orf142	325787	222	35	5117	1414	0	0	0	0	50	0	351904	1	1	
C14orf143	297843	598	3	8708	2086	0	0	0	0	50	0	457191	1	1	
C14orf145	127660	629	-21	56896	14021	0	0	0	0	50	0	444976	1	1	
C14orf147	517820	249	16	3696	966	0	0	0	0	39	0	324352	1	1	
C14orf148	551151	418	50	19089	5418	0	0	0	0	50	0	480298	1	1	
C14orf149	168237	606	12	17283	5460	0	0	0	0	50	0	368830	1	1	
C14orf153	867608	225	39	10808	2590	0	0	0	0	50	1	385175	1	1	
C14orf156	455772	384	47	5845	1505	0	0	0	0	50	0	422198	1	1	
C14orf159	240206	471	35	31059	9135	0	0	0	0	50	0	469770	1	1	
C14orf166	176784	471	22	12873	3150	0	0	0	0	50	0	376803	1	1	
C14orf166B	357783	370	41	25333	6566	0	0	0	0	50	1	435904	1	1	
C14orf169	NaN	NaN	NaN	30492	9933	0	0	0	0	50	2	789481	1	1	
C14orf174	551151	418	50	33789	8904	0	0	0	0	50	0	480298	1	1	
C14orf176	NaN	NaN	NaN	10850	3388	0	0	0	0	50	2	782936	1	1	
C14orf177	157823	938	-42	6384	1722	0	0	0	0	50	0	331548	1	1	
C14orf178	429207	388	37	6433	1757	0	0	0	0	50	0	459676	1	1	
C14orf179	227740	582	35	12684	3276	0	0	0	0	50	0	409318	1	1	
C14orf180	625253	450	20	7735	2744	0	0	0	0	50	0	415926	1	1	
C14orf181	543449	259	46	7567	2954	0	0	0	0	50	0	365694	1	1	
C14orf182	689076	154	46	5579	1477	0	0	0	0	50	3	327782	1	1	
C14orf183	747266	166	51	16170	4620	0	0	0	0	50	1	354683	1	1	
C14orf184	396915	483	32	6818	2569	0	0	0	0	50	0	311045	1	1	
C14orf2	694566	320	33	4137	903	0	0	0	0	22	0	260435	1	1	
C14orf21	915114	220	38	30975	10038	0	0	0	0	50	1	414449	1	1	
C14orf28	228479	577	-32	15939	3969	0	0	0	0	50	1	484141	1	1	
C14orf37	285319	683	3	38318	11095	0	0	0	0	50	0	378714	1	1	
C14orf38	NaN	NaN	NaN	41993	9709	0	0	0	0	50	2	789257	1	1	
C14orf39	325446	618	0	31465	7007	0	0	0	0	50	0	424389	1	1	
C14orf4	429724	206	52	37415	12796	0	0	0	0	50	0	360955	1	1	
C14orf43	535648	191	50	50841	15897	0	0	0	0	50	1	325241	1	1	
C14orf45	469337	158	45	27895	6419	0	0	0	0	50	2	332122	1	1	
C14orf49	202508	475	32	48503	14371	0	0	0	0	50	0	463834	1	1	
C14orf50	662511	188	36	22204	5453	0	0	0	0	50	2	444906	1	1	
C14orf68	412002	237	37	14910	5019	0	0	0	0	50	0	380408	1	1	
C14orf73	956863	211	36	34972	11459	0	0	0	0	50	0	370818	1	1	
C14orf79	854493	205	30	16205	4669	0	0	0	0	50	0	502460	1	1	
C14orf80	689089	298	41	20825	7210	0	0	0	0	50	1	415002	1	1	
C14orf93	1240941	185	38	26341	8036	0	0	0	0	50	0	431368	1	1	
C15orf17	764533	195	46	9758	3115	0	0	0	0	50	2	423304	1	1	
C15orf2	179638	1121	-44	54341	18550	0	0	0	0	50	0	397215	1	1	
C15orf23	872646	184	42	17192	4312	0	0	0	0	50	1	400204	1	1	
C15orf24	409752	384	1	12110	3577	0	0	0	0	50	0	378903	1	1	
C15orf26	266324	650	22	15456	4116	0	0	0	0	50	0	368018	1	1	
C15orf27	374349	405	22	26656	7700	0	0	0	0	50	0	430689	1	1	
C15orf29	431919	242	7	16128	3843	0	0	0	0	50	1	478338	1	1	
C15orf32	288049	578	-30	9065	2380	0	0	0	0	50	1	495397	1	1	

C15orf33	239848	385	-11	27174	6153	0	0	0	0	50	0	388836	1	1	
C15orf38	969942	239	29	11452	3269	0	0	0	0	50	1	397054	1	1	
C15orf39	840096	203	46	48804	17388	0	0	0	0	50	0	461279	1	1	
C15orf40	452169	683	19	17094	4662	0	0	0	0	50	0	483966	1	1	
C15orf41	74456	598	-16	14980	3710	0	0	0	0	50	0	448161	1	1	
C15orf42	804572	319	27	94143	28014	0	0	0	0	50	0	465780	1	1	
C15orf43	706600	569	31	11753	2716	0	0	0	0	50	1	498554	1	1	
C15orf44	552209	185	35	26411	7210	0	0	0	0	50	0	417802	1	1	
C15orf48	214586	299	16	4515	1113	0	0	0	0	50	0	344358	1	1	
C15orf52	872646	184	42	26474	8113	0	0	0	0	50	1	400204	1	1	
C15orf53	98316	561	20	8799	2667	0	0	0	0	50	0	393799	1	1	
C15orf54	251181	384	-14	9093	2499	0	0	0	0	50	0	354865	1	1	
C15orf55	542657	234	22	54551	17332	0	0	0	0	50	0	370531	1	1	
C15orf56	NaN	NaN	NaN	7476	2856	0	0	0	0	50	2	782404	1	1	
C15orf57	892776	192	48	10003	2618	0	0	0	0	50	2	477659	1	1	
C15orf58	876945	154	52	18291	6153	0	0	0	0	50	2	468349	1	1	
C15orf59	313132	435	29	14175	4431	0	0	0	0	50	0	451654	1	1	
C15orf60	294157	472	16	13454	3913	0	0	0	0	50	1	412552	1	1	
C15orf61	NaN	NaN	NaN	7714	2366	0	0	0	0	50	2	781914	1	1	
C15orf62	NaN	NaN	NaN	8281	2807	0	0	0	0	50	2	782355	1	1	
C15orf63	784327	286	37	6636	1806	0	0	0	0	50	0	469203	1	1	
C16orf11	1115707	213	39	26376	9828	0	0	0	0	50	0	333676	1	1	
C16orf13	1115707	213	39	12264	2646	0	0	0	0	50	0	333676	1	1	
C16orf3	NaN	NaN	NaN	5628	1848	0	0	0	0	50	2	781396	1	1	
C16orf42	1181253	215	38	15435	4788	0	0	0	0	50	1	366016	1	1	
C16orf45	544403	200	30	11683	2891	0	0	0	0	50	1	412146	1	1	
C16orf46	259514	284	8	19936	5726	0	0	0	0	50	0	366093	1	1	
C16orf48	1111484	129	46	16940	5425	0	0	0	0	50	0	407155	1	1	
C16orf5	751633	160	39	10353	3150	0	0	0	0	50	1	343014	1	1	
C16orf52	NaN	NaN	NaN	8190	2562	0	0	0	0	50	2	782110	1	1	
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C16orf54	NaN	NaN	NaN	10479	3738	0	0	0	0	50	2	783286	1	1	
C16orf55	1090549	219	38	7091	1939	0	0	0	0	50	0	325458	1	1	
C16orf57	856192	158	9	13559	3745	0	0	0	0	50	0	379778	1	1	
C16orf58	826452	688	-17	23611	7028	0	0	0	0	50	0	496496	1	1	
C16orf59	2085452	321	49	21105	7035	0	0	0	0	50	0	413910	1	1	
C16orf61	231500	284	4	4368	924	0	0	0	0	45	0	336413	1	1	
C16orf62	340032	578	15	50162	13132	0	0	0	0	50	1	571193	1	1	
C16orf63	411695	191	34	9044	2359	0	0	0	0	50	0	421841	1	1	
C16orf68	403747	542	-11	20440	5873	0	0	0	0	50	0	389445	1	1	
C16orf7	1090549	219	38	31080	9912	0	0	0	0	50	0	325458	1	1	
C16orf70	1093307	150	47	22190	5719	0	0	0	0	50	0	441210	1	1	
C16orf71	717235	194	35	25767	7812	0	0	0	0	50	2	451906	1	1	
C16orf72	401555	253	7	13699	3941	0	0	0	0	50	1	527639	1	1	
C16orf73	1685537	214	37	24647	6181	0	0	0	0	50	0	463183	1	1	
C16orf74	390985	250	38	4137	966	0	0	0	0	50	0	370930	1	1	
C16orf75	663123	342	28	7070	2380	0	0	0	0	50	2	377734	1	1	
C16orf78	18490	907	-25	13797	3339	0	0	0	0	50	0	412874	1	1	
C16orf79	2179404	224	39	11277	3570	0	0	0	0	50	0	383964	1	1	
C16orf80	898142	292	14	9982	2660	0	0	0	0	50	0	376887	1	1	

C16orf82	202160	672	-9	7560	2247	0	0	0	0	50	0	606466	1	1	
C16orf86	1157184	136	50	15295	4991	0	0	0	0	50	0	357056	1	1	
C16orf87	469144	217	12	8071	1988	0	0	0	0	50	0	479794	1	1	
C16orf88	320648	639	18	23163	6090	0	0	0	0	50	1	513233	1	1	
C16orf89	594046	302	6	24115	7091	0	0	0	0	50	0	566643	1	1	
C16orf90	805495	246	39	8911	2786	0	0	0	0	50	0	433321	1	1	
C16orf91	1211641	215	40	17332	5453	0	0	0	0	50	0	419181	1	1	
C16orf92	NaN	NaN	NaN	7210	1757	0	0	0	0	50	2	781305	1	1	
C16orf93	1632278	158	61	15162	4095	0	0	0	0	50	0	462980	1	1	
C17orf100	663953	424	9	5306	2128	0	0	0	0	50	0	359919	1	1	
C17orf101	2598845	179	36	19103	5530	0	0	0	0	50	1	401919	1	1	
C17orf102	222789	740	-3	8001	2709	0	0	0	0	50	0	436779	1	1	
C17orf103	416965	517	-27	3640	1232	0	0	0	0	50	0	388101	1	1	
C17orf104	1297937	254	27	47985	12642	0	0	0	0	50	1	389144	1	1	
C17orf105	NaN	NaN	NaN	8750	2065	0	0	0	0	50	2	781613	1	1	
C17orf106	NaN	NaN	NaN	6237	1764	0	0	0	0	50	2	781312	1	1	
C17orf107	NaN	NaN	NaN	9002	3199	0	0	0	0	50	2	782747	1	1	
C17orf108	632198	535	-24	4200	1029	0	0	0	0	50	0	374514	1	1	
C17orf28	1045089	223	25	39515	11704	0	0	0	0	50	0	391125	1	1	
C17orf37	1284992	226	38	5922	1680	0	0	0	0	50	0	412993	1	1	
C17orf39	886959	193	17	14875	4508	0	0	0	0	50	0	393981	1	1	
C17orf42	594135	209	20	18109	4928	0	0	0	0	50	0	377272	1	1	
C17orf46	789809	207	23	19194	5481	0	0	0	0	50	0	414148	1	1	
C17orf47	892839	376	10	27433	8624	0	0	0	0	17	0	92155	1	1	
C17orf48	59041	801	-49	17549	4312	0	0	0	0	50	0	493752	1	1	
C17orf49	1696302	360	24	9681	2898	0	0	0	0	50	1	319648	1	1	
C17orf50	675201	196	3	8631	2604	0	0	0	0	50	0	403795	1	1	
C17orf51	NaN	NaN	NaN	10626	3444	0	0	0	0	50	2	782992	1	1	
C17orf53	930750	175	41	31682	9898	0	0	0	0	50	1	428519	1	1	
C17orf55	2679984	197	27	12516	4263	0	0	0	0	50	0	437878	1	1	
C17orf56	2679984	197	27	25858	8246	0	0	0	0	50	0	437878	1	1	
C17orf57	1135425	196	23	51359	11851	0	0	0	0	50	0	362985	1	1	
C17orf58	854444	293	-12	7021	1988	0	0	0	0	50	1	376663	1	1	
C17orf59	1381225	202	37	16450	6104	0	0	0	0	50	0	554176	1	1	
C17orf60	1306314	184	23	4844	1141	0	0	0	0	50	0	467418	1	1	
C17orf61	1906324	206	33	5761	1757	0	0	0	0	50	1	462924	1	1	
C17orf62	2583801	179	20	9681	2667	0	0	0	0	50	0	523950	1	1	
C17orf63	1694459	152	36	1435	413	0	0	0	0	3	0	27139	1	1	
C17orf64	436889	204	1	12180	3213	0	0	0	0	50	2	378903	1	1	
C17orf65	930750	175	41	11851	371	0	0	0	0	5	0	34440	1	1	
C17orf66	620019	235	8	29421	7728	0	0	0	0	50	0	480788	1	1	
C17orf67	306329	420	-58	5971	1568	0	0	0	0	32	0	192563	1	1	
C17orf68	870950	218	18	59773	18851	0	0	0	0	50	1	365645	1	1	
C17orf70	3665223	205	12	41860	14420	0	0	0	0	50	1	346325	1	1	
C17orf71	834161	507	4	48545	14245	0	0	0	0	50	1	332584	1	1	
C17orf72	NaN	NaN	NaN	9541	2891	0	0	0	0	50	2	782439	1	1	
C17orf74	1906324	206	33	24367	7511	0	0	0	0	50	1	462924	1	1	
C17orf75	679038	286	30	20685	5124	0	0	0	0	50	1	419881	1	1	
C17orf76	829707	254	8	17822	4165	0	0	0	0	50	0	431319	1	1	
C17orf77	698491	504	10	11900	3556	0	0	0	0	50	0	389466	1	1	

C17orf78	498943	171	21	14084	3850	0	0	0	0	50	0	430640	1	1	
C17orf79	668593	374	12	9450	2457	0	0	0	0	50	0	356370	1	1	
C17orf80	205112	251	-15	30772	8519	0	0	0	0	50	0	465521	1	1	
C17orf81	1782958	316	21	17717	5089	0	0	0	0	50	1	326809	1	1	
C17orf82	292199	414	-9	11466	4410	0	0	0	0	50	0	447468	1	1	
C17orf85	505430	215	30	31955	8218	0	0	0	0	50	0	359653	1	1	
C17orf87	1279084	384	24	7686	1890	0	0	0	0	50	0	376999	1	1	
C17orf89	2679984	197	27	3731	1204	0	0	0	0	50	0	437878	1	1	
C17orf90	3745109	205	30	7147	2303	0	0	0	0	50	1	351778	1	1	
C17orf95	827288	206	22	9730	2639	0	0	0	0	50	0	285460	1	1	
C17orf96	NaN	NaN	NaN	17262	6678	0	0	0	0	50	2	786226	1	1	
C17orf97	248876	591	1	4767	1701	0	0	0	0	50	0	356223	1	1	
C17orf98	1198833	207	37	7777	2198	0	0	0	0	50	1	357490	1	1	
C17orf99	NaN	NaN	NaN	13335	3801	0	0	0	0	50	2	783349	1	1	
C18orf1	247407	688	28	16716	4578	0	0	0	0	50	0	418852	1	1	
C18orf10	174235	834	53	15330	4137	0	0	0	0	50	0	326774	1	1	
C18orf19	161398	676	44	13545	3906	0	0	0	0	50	0	306600	1	1	
C18orf21	399000	585	15	11270	2989	0	0	0	0	50	0	433517	1	1	
C18orf22	438786	506	20	18312	3864	0	0	0	0	50	0	455336	1	1	
C18orf25	413073	142	58	19957	5831	0	0	0	0	50	0	412251	1	1	
C18orf26	152164	427	5	10451	3052	0	0	0	0	50	1	361361	1	1	
C18orf32	236267	352	55	4004	1015	0	0	0	0	50	1	333305	1	1	
C18orf34	13428	1050	-27	46088	10360	0	0	0	0	50	0	573153	1	1	
C18orf45	299157	244	65	15687	4200	0	0	0	0	50	1	482160	1	1	
C18orf54	109698	451	33	19229	4858	0	0	0	0	50	1	489370	1	1	
C18orf55	150380	981	4	12628	3479	0	0	0	0	50	1	377615	1	1	
C18orf56	NaN	NaN	NaN	7651	2345	0	0	0	0	50	2	781893	1	1	
C18orf62	63196	1063	-18	5236	1400	0	0	0	0	50	1	363531	1	1	
C18orf8	329604	164	60	34167	8925	0	0	0	0	50	1	445732	1	1	
C19orf10	921603	203	35	8904	2520	0	0	0	0	50	0	421183	1	1	
C19orf12	223109	552	-46	7511	2296	0	0	0	0	50	1	394646	1	1	
C19orf18	1252385	750	-19	11298	2772	0	0	0	0	50	0	470148	1	1	
C19orf2	163583	776	-30	27622	7028	0	0	0	0	50	1	444171	1	1	
C19orf20	NaN	NaN	NaN	13538	4921	0	0	0	0	50	2	784469	1	1	
C19orf21	1914670	200	23	32683	10493	0	0	0	0	50	2	427854	1	1	
C19orf22	2230583	191	36	13454	4123	0	0	0	0	50	0	476840	1	1	
C19orf24	NaN	NaN	NaN	6293	2317	0	0	0	0	50	2	781865	1	1	
C19orf25	2352825	221	38	5789	1876	0	0	0	0	50	0	360416	1	1	
C19orf26	2214581	234	29	21616	7280	0	0	0	0	50	1	402808	1	1	
C19orf28	2160126	269	39	26712	8694	0	0	0	0	50	0	428631	1	1	
C19orf29	2167983	269	31	37884	10815	0	0	0	0	50	0	413672	1	1	
C19orf33	NaN	NaN	NaN	5635	1442	0	0	0	0	31	2	344925	1	1	
C19orf35	1603571	240	27	21763	8351	0	0	0	0	50	0	431256	1	1	
C19orf36	1853815	239	37	12432	3045	0	0	0	0	50	0	464303	1	1	
C19orf38	NaN	NaN	NaN	11683	3416	0	0	0	0	50	2	782964	1	1	
C19orf39	1385739	197	31	10766	3850	0	0	0	0	50	0	437115	1	1	
C19orf40	481910	448	-16	10801	3143	0	0	0	0	50	0	366436	1	1	
C19orf41	1458117	445	27	11368	3206	0	0	0	0	50	0	350749	1	1	
C19orf42	980514	362	41	4242	924	0	0	0	0	50	0	426412	1	1	
C19orf43	1959466	226	29	8659	2702	0	0	0	0	50	2	460684	1	1	

C19orf44	815495	258	44	32522	9583	0	0	0	0	50	0	412454	1	1	
C19orf45	609287	308	36	25144	7448	0	0	0	0	50	0	463288	1	1	
C19orf46	984653	303	21	19656	6489	0	0	0	0	50	0	416234	1	1	
C19orf47	1006719	289	35	17542	5474	0	0	0	0	50	0	431389	1	1	
C19orf48	655673	589	25	5558	1876	0	0	0	0	50	0	484575	1	1	
C19orf50	1394856	259	48	8988	2499	0	0	0	0	50	1	513947	1	1	
C19orf51	1036976	266	-1	28770	9303	0	0	0	0	50	0	289856	1	1	
C19orf52	2009333	193	41	12376	4193	0	0	0	0	50	0	429100	1	1	
C19orf53	767214	289	6	5054	1456	0	0	0	0	16	0	124859	1	1	
C19orf54	1127178	201	27	16940	5656	0	0	0	0	50	0	386421	1	1	
C19orf55	1151198	321	30	20846	6874	0	0	0	0	50	0	375571	1	1	
C19orf56	NaN	NaN	NaN	5803	1358	0	0	0	0	31	2	344841	1	1	
C19orf57	842601	185	32	30940	9842	0	0	0	0	50	0	468188	1	1	
C19orf59	688482	384	31	10038	2352	0	0	0	0	50	1	445354	1	1	
C19orf6	2387949	206	26	30562	9401	0	0	0	0	50	0	637042	1	1	
C19orf60	1395948	185	41	9884	3178	0	0	0	0	50	0	556339	1	1	
C19orf61	452493	192	-2	26327	7588	0	0	0	0	50	2	405692	1	1	
C19orf62	865138	212	38	16989	4557	0	0	0	0	50	1	370937	1	1	
C19orf63	1038277	491	30	14203	4865	0	0	0	0	50	1	410634	1	1	
C19orf66	1615603	272	8	14931	4095	0	0	0	0	15	0	122283	1	1	
C19orf69	NaN	NaN	NaN	6440	1939	0	0	0	0	50	2	781487	1	1	
C19orf70	879991	295	21	6055	1694	0	0	0	0	50	0	396795	1	1	
C19orf71	2160126	269	39	10430	3136	0	0	0	0	50	0	428631	1	1	
C19orf73	2011861	267	47	5866	2324	0	0	0	0	50	0	405790	1	1	
C19orf75	352763	629	1	9989	2821	0	0	0	0	50	0	441238	1	1	
C19orf76	1733181	195	36	7203	2583	0	0	0	0	50	1	446607	1	1	
C19orf77	NaN	NaN	NaN	6797	1750	0	0	0	0	50	2	781298	1	1	
C1D	210519	537	2	7504	1778	0	0	0	0	50	0	426069	1	1	
C1GALT1	357040	748	14	18585	4599	0	0	0	0	50	1	403102	1	1	
C1GALT1C1	388105	NaN	7	16275	3990	0	0	0	0	50	0	393288	1	1	
C1QA	389456	541	29	11851	3815	0	0	0	0	50	1	425012	1	1	
C1QB	389456	541	29	12320	3850	0	0	0	0	50	1	425012	1	1	
C1QBP	1145030	544	24	14168	4123	0	0	0	0	50	1	432817	1	1	
C1QC	389456	541	29	11781	3885	0	0	0	0	50	1	425012	1	1	
C1QL1	1037808	191	34	12348	4053	0	0	0	0	50	0	351505	1	1	
C1QL2	169866	574	10	13720	4508	0	0	0	0	50	0	385462	1	1	
C1QL3	96710	791	-1	12327	3885	0	0	0	0	50	0	495642	1	1	
C1QL4	2137968	175	37	11284	3857	0	0	0	0	50	0	456680	1	1	
C1QTNF1	592461	285	15	14161	3857	0	0	0	0	50	1	397117	1	1	
C1QTNF2	197614	469	27	15897	5166	0	0	0	0	50	0	354207	1	1	
C1QTNF3	273505	817	1	16268	4354	0	0	0	0	50	0	379106	1	1	
C1QTNF4	989876	214	28	15421	5453	0	0	0	0	50	0	457191	1	1	
C1QTNF5	NaN	NaN	NaN	11599	3941	0	0	0	0	50	2	783489	1	1	
C1QTNF6	668971	289	53	13951	3920	0	0	0	0	50	0	340032	1	1	
C1QTNF7	144115	540	20	14553	4326	0	0	0	0	50	0	399140	1	1	
C1QTNF8	1154740	294	20	12082	4109	0	0	0	0	50	0	485373	1	1	
C1QTNF9	270913	589	44	16331	4963	0	0	0	0	50	0	320705	1	1	
C1QTNF9B	314992	678	51	16779	4452	0	0	0	0	50	0	264971	1	1	
C1R	2459343	195	45	30408	8211	0	0	0	0	50	0	411516	1	1	
C1RL	2422791	224	38	24304	6902	0	0	0	0	50	0	348957	1	1	

C1S	2495896	211	52	35035	9296	0	0	0	0	50	0	467243	1	1	
C1orf100	706923	537	-1	7637	2065	0	0	0	0	50	0	467943	1	1	
C1orf101	716278	590	1	49105	12677	0	0	0	0	50	0	483798	1	1	
C1orf103	406255	715	28	37954	10808	0	0	0	0	50	1	415436	1	1	
C1orf104	NaN	NaN	NaN	10934	3997	0	0	0	0	50	2	783545	1	1	
C1orf105	135244	400	11	9681	2415	0	0	0	0	50	0	393120	1	1	
C1orf106	545933	437	12	32053	10577	0	0	0	0	50	0	430367	1	1	
C1orf107	221666	464	7	38633	10024	0	0	0	0	50	0	413175	1	1	
C1orf109	445023	375	27	10248	2940	0	0	0	0	50	1	379841	1	1	
C1orf110	334195	540	-7	15372	3969	0	0	0	0	50	0	332059	1	1	
C1orf111	363646	391	1	13153	3563	0	0	0	0	50	0	385189	1	1	
C1orf112	212980	614	8	44079	11613	0	0	1	0	50	1	440125	1	1	
C1orf113	685495	212	32	37828	11207	0	0	0	0	50	0	371784	1	1	
C1orf114	286300	491	7	26236	6251	0	0	0	0	50	0	418250	1	1	
C1orf115	447403	520	-11	6769	2324	0	0	0	0	50	0	451927	1	1	
C1orf116	451418	155	25	28840	9338	0	0	0	0	50	1	468713	1	1	
C1orf122	445096	375	33	5411	1834	0	0	0	0	50	1	389165	1	1	
C1orf123	527317	391	27	8722	2051	0	0	0	0	50	1	417620	1	1	
C1orf124	377235	569	2	25270	6629	0	0	0	0	50	0	480893	1	1	
C1orf125	495704	593	-2	53998	12887	0	0	0	0	50	1	465150	1	1	
C1orf128	903441	254	32	10864	2912	0	0	0	0	50	2	357042	1	1	
C1orf129	385644	965	-9	46711	11963	0	0	0	0	50	0	373079	1	1	
C1orf130	468063	348	28	5124	1617	0	0	0	0	50	1	394548	1	1	
C1orf131	383866	603	14	15092	4018	0	0	0	0	50	1	466648	1	1	
C1orf135	746382	372	24	17948	4774	0	0	0	0	50	0	568386	1	1	
C1orf14	757638	424	20	32935	9023	0	0	0	0	50	1	440447	1	1	
C1orf141	444524	673	-5	20734	5033	0	0	0	0	50	1	401646	1	1	
C1orf144	783285	176	42	7917	1974	0	0	0	0	50	1	455728	1	1	
C1orf146	304492	524	-3	9457	2366	0	0	0	0	50	0	450646	1	1	
C1orf150	204354	957	-25	7252	1694	0	0	0	0	21	0	183358	1	1	
C1orf151	775439	271	32	4270	1001	0	0	0	0	50	0	430143	1	1	
C1orf156	244851	614	10	18641	4900	0	0	0	0	50	1	416521	1	1	
C1orf158	141239	571	18	9877	2660	0	0	0	0	50	0	346087	1	1	
C1orf159	2134483	234	21	10199	3010	0	0	0	0	50	1	421176	1	1	
C1orf161	591845	538	12	18277	5012	0	0	0	0	50	0	418971	1	1	
C1orf162	397300	348	28	7924	2324	0	0	0	0	50	0	391412	1	1	
C1orf163	678946	261	27	11914	2912	0	0	0	0	50	0	457058	1	1	
C1orf168	39470	514	-6	38073	9450	0	0	0	0	50	0	464576	1	1	
C1orf172	1025094	188	34	19327	6062	0	0	0	0	50	0	363048	1	1	
C1orf173	101813	1070	-14	76706	20923	0	0	0	0	50	1	489013	1	1	
C1orf174	248975	412	20	12131	3493	0	0	0	0	50	0	374304	1	1	
C1orf175	652892	415	15	65772	19530	0	0	0	0	50	0	388241	1	1	
C1orf177	521961	249	25	22477	6125	0	0	0	0	50	0	380674	1	1	
C1orf182	2199280	201	27	6384	1764	0	0	0	0	50	1	484435	1	1	
C1orf183	346154	440	31	14770	4424	0	0	0	0	50	1	470981	1	1	
C1orf185	NaN	NaN	NaN	10297	2639	0	0	0	0	50	2	782187	1	1	
C1orf186	755856	400	10	9051	2268	0	0	0	0	50	0	328496	1	1	
C1orf187	682357	264	32	17269	5285	0	0	0	0	50	0	423017	1	1	
C1orf189	2028928	185	35	5523	1239	0	0	0	0	50	0	333445	1	1	
C1orf190	908945	190	29	11564	3682	0	0	0	0	50	0	504329	1	1	

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C1orf192	751212	293	30	8953	2639	0	0	0	0	50	0	434084	1	1	
C1orf194	989913	215	18	8176	2156	0	0	0	0	50	1	338884	1	1	
C1orf198	446793	592	12	16156	4802	0	0	0	0	50	1	427343	1	1	
C1orf201	748641	197	26	14679	4011	0	0	0	0	50	0	487389	1	1	
C1orf204	NaN	NaN	NaN	11746	3563	0	0	0	0	50	2	783111	1	1	
C1orf21	258985	642	-7	6629	1393	0	0	0	0	11	0	132433	1	1	
C1orf210	1091212	264	30	5516	1834	0	0	0	0	50	0	419965	1	1	
C1orf212	NaN	NaN	NaN	4613	1330	0	0	0	0	31	2	344813	1	1	
C1orf213	1032187	163	25	7476	2352	0	0	0	0	50	0	416934	1	1	
C1orf216	1177566	325	35	11228	3346	0	0	0	0	50	1	396480	1	1	
C1orf223	NaN	NaN	NaN	10122	3003	0	0	0	0	50	2	782551	1	1	
C1orf226	363646	391	1	15274	4886	0	0	0	0	50	0	385189	1	1	
C1orf227	326908	445	13	5194	1253	0	0	0	0	50	0	361564	1	1	
C1orf228	NaN	NaN	NaN	22498	6209	0	0	0	0	50	2	785757	1	1	
C1orf229	NaN	NaN	NaN	10675	4319	0	0	0	0	50	2	783867	1	1	
C1orf230	NaN	NaN	NaN	4956	1239	0	0	0	0	31	2	344722	1	1	
C1orf25	344321	458	-3	37534	9884	0	0	0	0	50	0	465500	1	1	
C1orf26	333911	535	-7	46900	11375	0	0	0	0	50	0	390621	1	1	
C1orf27	277882	399	-14	23765	5992	0	0	0	0	50	0	357546	1	1	
C1orf31	247580	299	10	6503	1645	0	0	0	0	50	0	393295	1	1	
C1orf35	702621	391	5	13587	3675	0	0	0	0	50	0	334551	1	1	
C1orf38	804118	218	23	31927	9107	0	0	0	0	50	0	348257	1	1	
C1orf43	2028928	185	35	12964	3626	0	0	0	0	50	0	333445	1	1	
C1orf49	341211	348	-10	14518	3437	0	0	0	0	50	1	386078	1	1	
C1orf50	820426	426	30	10136	2842	0	0	0	0	50	0	445256	1	1	
C1orf51	1213150	197	38	18837	5817	0	0	0	0	50	1	414330	1	1	
C1orf52	348743	384	3	9345	2394	0	0	0	0	50	0	396235	1	1	
C1orf53	98527	448	-18	7210	2198	0	0	0	0	50	0	356349	1	1	
C1orf54	1213150	197	38	7028	1750	0	0	0	0	50	1	414330	1	1	
C1orf55	923085	239	20	22792	6230	0	0	0	0	50	1	353304	1	1	
C1orf56	1614665	165	40	16191	5481	0	0	0	0	50	0	400533	1	1	
C1orf57	141149	615	-2	9562	2849	0	0	0	0	50	0	399952	1	1	
C1orf58	221959	236	-1	21546	5460	0	0	0	0	50	1	418369	1	1	
C1orf59	679610	225	3	19943	5467	0	0	0	0	50	0	446523	1	1	
C1orf61	2199280	201	27	8015	2296	0	0	0	0	50	1	484435	1	1	
C1orf63	613835	460	36	14119	4550	0	0	0	0	50	0	467894	1	1	
C1orf64	886121	197	43	8113	2723	0	0	0	0	50	0	395206	1	1	
C1orf65	368078	600	-10	30275	9058	0	0	0	0	50	0	276731	1	1	
C1orf66	1750604	179	45	24059	6517	0	0	0	0	50	0	361305	1	1	
C1orf68	NaN	NaN	NaN	12215	3598	0	0	0	0	50	2	783146	1	1	
C1orf69	702358	341	15	16653	6048	0	0	0	0	50	0	338989	1	1	
C1orf70	NaN	NaN	NaN	8813	2443	0	0	0	0	50	2	781991	1	1	
C1orf74	220312	429	18	12880	4214	0	0	0	0	50	0	428169	1	1	
C1orf77	1656449	183	40	12082	4025	0	0	0	0	50	0	418439	1	1	
C1orf83	446494	225	28	10612	2891	0	0	0	0	50	0	397509	1	1	
C1orf84	1088321	252	27	8981	2674	0	0	0	0	50	0	436226	1	1	
C1orf85	2266205	211	33	19593	6510	0	0	0	0	50	0	435456	1	1	
C1orf86	849779	293	25	17045	3661	0	0	0	0	50	0	446194	1	1	
C1orf87	66197	942	-13	28063	7322	0	0	0	0	50	2	529494	1	1	
C1orf88	398726	559	15	10038	2520	0	0	0	0	50	0	414421	1	1	

C1orf89	824719	186	40	12635	4018	0	0	0	0	50	0	344512	1	1	
C1orf9	116362	506	10	64008	16989	0	0	0	0	50	0	487837	1	1	
C1orf91	1460758	218	29	7070	2233	0	0	0	0	50	0	426384	1	1	
C1orf92	1172126	244	39	28182	8274	0	0	0	0	50	0	401562	1	1	
C1orf93	323457	335	30	10038	3045	0	0	0	0	50	3	395955	1	1	
C1orf94	28616	907	16	29442	8799	0	0	0	0	50	0	458521	1	1	
C1orf95	608933	509	12	7077	2121	0	0	0	0	50	0	436737	1	1	
C1orf96	285692	361	9	13440	3885	0	0	0	0	50	0	467306	1	1	
C2	2400153	188	35	42952	11732	0	0	0	0	50	0	375333	1	1	
C20orf103	74540	807	-42	14294	3829	0	0	0	0	50	0	465640	1	1	
C20orf106	264053	455	-17	8736	2352	0	0	0	0	50	1	411824	1	1	
C20orf107	273023	455	-27	8638	2366	0	0	0	0	50	0	487487	1	1	
C20orf108	254679	672	-43	9198	3171	0	0	0	0	50	0	530740	1	1	
C20orf11	961230	336	40	11781	2982	0	0	0	0	50	0	452830	1	1	
C20orf111	515643	367	28	14434	4277	0	0	0	0	50	1	395122	1	1	
C20orf112	677178	310	61	21770	6349	0	0	0	0	50	0	343112	1	1	
C20orf114	478384	482	27	24486	7329	0	0	0	0	50	0	501991	1	1	
C20orf117	802783	231	67	81781	25361	0	0	0	0	50	0	330841	1	1	
C20orf118	817783	225	47	11046	3108	0	0	0	0	50	0	503853	1	1	
C20orf12	414892	436	2	38577	10542	0	0	0	0	50	0	403760	1	1	
C20orf123	NaN	NaN	NaN	26432	9499	0	0	0	0	50	2	789047	1	1	
C20orf132	808071	360	45	53039	14875	0	0	0	0	50	2	502733	1	1	
C20orf134	NaN	NaN	NaN	11480	4018	0	0	0	0	50	2	783566	1	1	
C20orf135	1123741	206	44	21987	7665	0	0	0	0	50	0	411138	1	1	
C20orf141	796251	438	41	7700	2884	0	0	0	0	50	0	374689	1	1	
C20orf144	NaN	NaN	NaN	7350	2520	0	0	0	0	50	2	782068	1	1	
C20orf151	1190462	205	28	32522	10465	0	0	0	0	50	0	393085	1	1	
C20orf152	1308823	144	53	29582	7483	0	0	0	0	50	1	421841	1	1	
C20orf160	1022704	386	29	21259	6797	0	0	0	0	50	0	392266	1	1	
C20orf165	725555	209	59	10927	3605	0	0	0	0	50	1	380828	1	1	
C20orf166	1191147	NaN	20	5978	1666	0	0	0	0	50	0	403592	1	1	
C20orf173	NaN	NaN	NaN	10479	2730	0	0	0	0	50	2	782278	1	1	
C20orf177	73597	856	-36	18711	5565	0	0	0	0	50	0	395423	1	1	
C20orf185	515931	491	46	23373	7896	0	0	0	0	50	1	433923	1	1	
C20orf186	515931	491	46	30254	9793	0	0	0	0	50	1	433923	1	1	
C20orf194	1015129	338	40	61502	15778	0	0	0	0	50	0	419825	1	1	
C20orf195	1262904	298	54	15281	4942	0	0	0	0	50	0	369817	1	1	
C20orf196	365507	199	12	10388	2758	0	0	0	0	50	0	417046	1	1	
C20orf197	73705	930	-58	6349	1736	0	0	0	0	50	0	361473	1	1	
C20orf20	1044503	208	48	10605	2688	0	0	0	0	50	0	396928	1	1	
C20orf201	NaN	NaN	NaN	11172	4137	0	0	0	0	50	2	783685	1	1	
C20orf202	NaN	NaN	NaN	6076	1799	0	0	0	0	50	2	781347	1	1	
C20orf203	NaN	NaN	NaN	9380	3073	0	0	0	0	50	2	782621	1	1	
C20orf24	1019481	176	62	9562	2492	0	0	0	0	50	1	360598	1	1	
C20orf26	228680	750	-3	63952	16898	0	0	0	0	50	0	414792	1	1	
C20orf27	860065	241	43	10101	2919	0	0	0	0	50	0	472983	1	1	
C20orf29	740484	241	42	9541	3290	0	0	0	0	50	2	521675	1	1	
C20orf3	545344	676	-29	20748	6237	0	0	0	0	50	0	378532	1	1	
C20orf30	494904	385	26	9086	2884	0	0	0	0	50	1	393708	1	1	
C20orf4	1278077	449	44	19033	5474	0	0	0	0	50	2	474068	1	1	

C20orf43	255083	551	-7	15911	4102	0	0	0	0	50	0	405419	1	1	
C20orf46	442604	527	22	12054	4221	0	0	0	0	50	0	554414	1	1	
C20orf54	764796	557	31	22414	7532	0	0	0	0	50	0	469175	1	1	
C20orf7	125337	703	-6	18417	4683	0	0	0	0	50	0	458647	1	1	
C20orf70	418196	491	31	12761	3661	0	0	0	0	50	0	344848	1	1	
C20orf71	478384	482	27	13195	3374	0	0	0	0	50	0	501991	1	1	
C20orf72	756104	499	29	17521	4550	0	0	0	0	50	0	458661	1	1	
C20orf79	256301	699	4	7770	2184	0	0	0	0	50	0	440447	1	1	
C20orf85	372863	576	7	7056	1932	0	0	0	0	50	0	470533	1	1	
C20orf94	165910	412	-17	20776	5537	0	0	0	0	50	0	393337	1	1	
C20orf96	1010597	348	24	19145	4627	0	0	0	0	50	0	429198	1	1	
C21orf2	1153513	308	65	12586	4109	0	0	0	0	50	0	374122	1	1	
C21orf29	860604	461	30	33145	10031	0	0	0	0	50	0	434420	1	1	
C21orf33	879237	219	61	13405	4088	0	0	0	0	50	1	372253	1	1	
C21orf45	436753	379	8	11998	3122	0	0	0	0	50	1	477827	1	1	
C21orf56	758870	488	39	16443	5292	0	0	0	0	50	0	371175	1	1	
C21orf57	940047	624	53	8988	2457	0	0	0	0	50	1	412615	1	1	
C21orf58	940047	624	53	15701	5236	0	0	0	0	50	1	412615	1	1	
C21orf59	265057	182	52	15134	3745	0	0	0	0	50	0	350385	1	1	
C21orf63	268842	162	39	22288	6146	0	0	0	0	50	0	323309	1	1	
C21orf7	316263	146	77	12600	3297	0	0	0	0	50	1	426258	1	1	
C21orf70	746455	191	74	11480	3535	0	0	0	0	50	0	386813	1	1	
C21orf91	113501	686	26	15428	3682	0	0	0	0	46	0	361963	1	1	
C22orf13	480889	194	48	12348	3255	0	0	0	0	50	0	360332	1	1	
C22orf15	637355	196	52	7567	2240	0	0	0	0	50	1	403515	1	1	
C22orf23	1370748	203	50	11291	2947	0	0	0	0	50	0	361438	1	1	
C22orf24	531528	344	-1	8099	2212	0	0	0	0	50	0	390684	1	1	
C22orf25	587146	218	50	14280	3843	0	0	0	0	50	2	373996	1	1	
C22orf26	NaN	NaN	NaN	6356	2527	0	0	0	0	50	2	782075	1	1	
C22orf28	392443	401	-6	25865	6937	0	0	0	0	50	0	427042	1	1	
C22orf29	NaN	NaN	NaN	17346	5649	0	0	0	0	50	2	785197	1	1	
C22orf30	547970	268	36	106834	29414	0	0	0	0	50	0	438235	1	1	
C22orf31	759735	335	-19	14434	4109	0	0	0	0	50	1	423122	1	1	
C22orf32	1321127	363	65	5313	1701	0	0	0	0	50	0	309267	1	1	
C22orf33	724899	379	44	14392	3773	0	0	0	0	50	1	534968	1	1	
C22orf36	NaN	NaN	NaN	14868	5334	0	0	0	0	50	2	784882	1	1	
C22orf39	650407	300	16	8001	2289	0	0	0	0	50	1	400344	1	1	
C22orf40	519654	205	31	6335	1687	0	0	0	0	50	0	378287	1	1	
C22orf41	NaN	NaN	NaN	4704	1029	0	0	0	0	31	2	344512	1	1	
C22orf42	426151	580	-16	13272	3360	0	0	0	0	50	0	330344	1	1	
C22orf43	604420	399	31	12558	2856	0	0	0	0	50	1	367465	1	1	
C22orf46	NaN	NaN	NaN	11914	3584	0	0	0	0	50	2	783132	1	1	
C22orf9	417645	225	9	22078	5936	0	0	0	0	50	1	429149	1	1	
C2CD2	251773	366	76	34524	10479	0	0	0	0	50	1	397537	1	1	
C2CD2L	1390854	195	58	34419	11277	0	0	0	0	50	0	338107	1	1	
C2CD3	561035	225	45	98210	28042	0	0	0	0	50	0	391804	1	1	
C2CD4A	125995	446	20	16632	6762	0	0	0	0	50	0	387688	1	1	
C2CD4B	NaN	NaN	NaN	16422	6657	0	0	0	0	50	2	786205	1	1	
C2CD4C	NaN	NaN	NaN	19705	6965	0	0	0	0	50	2	786513	1	1	
C2CD4D	NaN	NaN	NaN	15925	6419	0	0	0	0	50	2	785967	1	1	

C2orf15	NaN	NaN	NaN	6335	1771	0	0	0	0	50	2	781319	1	1	
C2orf16	1192670	306	41	96908	28189	0	0	0	0	50	0	562716	1	1	
C2orf18	1266654	231	40	18193	5705	0	0	0	0	50	0	445242	1	1	
C2orf24	773232	177	36	20174	6307	0	0	0	0	50	1	392553	1	1	
C2orf27A	NaN	NaN	NaN	9870	3150	0	0	0	0	50	2	782698	1	1	
C2orf27B	NaN	NaN	NaN	10066	3248	0	0	0	0	50	2	782796	1	1	
C2orf28	1238919	230	39	14182	4277	0	0	0	0	50	0	358974	1	1	
C2orf29	413646	262	19	25221	7518	0	0	0	0	50	0	416738	1	1	
C2orf3	136392	523	4	40551	10059	0	0	0	0	50	1	329791	1	1	
C2orf34	414128	685	26	16779	4473	0	0	0	0	50	0	499499	1	1	
C2orf39	751542	408	42	38647	9422	0	0	0	0	50	1	445025	1	1	
C2orf40	99910	798	0	7602	2037	0	0	0	0	50	1	416108	1	1	
C2orf42	677043	143	42	28756	8141	0	0	0	0	50	2	412531	1	1	
C2orf43	491470	393	16	16744	4298	0	0	0	0	50	0	418054	1	1	
C2orf44	243145	226	33	35371	10367	0	0	0	0	50	0	355481	1	1	
C2orf47	237591	673	22	14532	4242	0	0	0	0	50	0	431137	1	1	
C2orf48	881918	220	41	8043	2289	0	0	0	0	50	0	482314	1	1	
C2orf49	198223	381	8	11760	3213	0	0	0	0	50	0	370664	1	1	
C2orf50	466103	384	26	8057	2464	0	0	0	0	50	0	403543	1	1	
C2orf51	120457	497	2	9205	2450	0	0	0	0	50	1	332836	1	1	
C2orf53	1214097	238	50	19124	6895	0	0	0	0	50	1	447195	1	1	
C2orf54	1187158	297	30	21805	7049	0	0	0	0	50	1	414890	1	1	
C2orf55	493189	692	29	46305	15120	0	0	0	0	50	1	387268	1	1	
C2orf56	488101	253	42	22414	6230	0	0	0	0	50	1	320054	1	1	
C2orf57	994385	202	43	18921	6069	0	0	0	0	50	2	444402	1	1	
C2orf60	226122	602	18	16611	4095	0	0	0	0	50	0	404313	1	1	
C2orf61	738157	206	39	12943	3563	0	0	0	0	50	0	391013	1	1	
C2orf62	734742	197	37	19803	5439	0	0	0	0	50	1	428834	1	1	
C2orf63	967446	333	25	30485	7420	0	0	0	0	50	0	385161	1	1	
C2orf64	260302	696	39	3969	966	0	0	0	0	8	0	51457	1	1	
C2orf65	996981	278	50	26698	7595	0	0	0	0	50	1	409500	1	1	
C2orf66	404194	370	14	5887	1715	0	0	0	0	50	2	463561	1	1	
C2orf67	190249	712	1	50589	12831	0	0	0	0	50	0	477855	1	1	
C2orf68	1158965	170	43	8456	2359	0	0	0	0	50	0	386631	1	1	
C2orf69	214653	674	14	19208	5194	0	0	0	0	50	0	330456	1	1	
C2orf7	536944	452	20	9583	2702	0	0	0	0	50	0	338401	1	1	
C2orf70	931476	428	35	10129	2891	0	0	0	0	50	0	330092	1	1	
C2orf71	471053	404	28	62405	18886	0	0	0	0	50	0	409878	1	1	
C2orf72	NaN	NaN	NaN	13622	5194	0	0	0	0	50	2	784742	1	1	
C2orf73	659505	429	8	14679	3843	0	0	0	0	50	0	390166	1	1	
C2orf74	NaN	NaN	NaN	9954	2583	0	0	0	0	50	2	782131	1	1	
C2orf76	193588	467	26	6818	1645	0	0	0	0	50	0	344393	1	1	
C2orf77	345692	393	35	29120	6433	0	0	0	0	50	0	415961	1	1	
C2orf78	1124858	404	43	44716	13601	0	0	0	0	50	1	391377	1	1	
C2orf79	299133	374	39	6916	2135	0	0	0	0	50	0	343994	1	1	
C2orf80	321897	440	5	10269	2625	0	0	0	0	50	0	332094	1	1	
C2orf81	NaN	NaN	NaN	27944	9415	0	0	0	0	50	2	788963	1	1	
C2orf82	NaN	NaN	NaN	5775	2163	0	0	0	0	50	2	781711	1	1	
C2orf83	186199	353	25	9191	2569	0	0	0	0	50	0	410809	1	1	
C2orf84	320978	385	35	10773	2688	0	0	0	0	50	0	371714	1	1	

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C2orf85	521265	487	30	27398	8869	0	0	0	0	50	1	486150	1	1	
C2orf86	334800	642	3	38850	10185	0	0	0	0	50	0	354900	1	1	
C2orf88	450974	478	21	4872	1176	0	0	0	0	16	0	110642	1	1	
C2orf89	725789	275	5	22442	6811	0	0	0	0	50	0	554897	1	1	
C3	740979	259	28	84854	23422	0	0	0	0	50	0	460572	1	1	
C3AR1	142724	300	23	23436	7077	0	0	0	0	50	0	403893	1	1	
C3orf1	290702	599	38	14427	4095	0	0	0	0	50	0	380982	1	1	
C3orf10	825905	170	39	3990	1008	0	0	0	0	50	0	343070	1	1	
C3orf14	213716	935	-3	6762	1701	0	0	0	0	50	0	422870	1	1	
C3orf15	368404	568	31	39655	10178	0	0	0	0	50	0	473025	1	1	
C3orf16	NaN	NaN	NaN	27160	7595	0	0	0	0	50	2	787143	1	1	
C3orf17	279709	639	18	29001	7497	0	0	0	0	50	1	475559	1	1	
C3orf18	603887	293	52	8078	2506	0	0	0	0	50	0	300244	1	1	
C3orf19	561517	424	39	24374	5992	0	0	0	0	50	0	527646	1	1	
C3orf20	540760	510	41	45220	12971	0	0	0	0	50	1	477736	1	1	
C3orf21	431673	536	46	19173	5901	0	0	0	0	50	1	404075	1	1	
C3orf22	289633	508	52	7028	2170	0	0	0	0	50	0	458598	1	1	
C3orf23	319459	418	27	26789	6412	0	0	0	0	50	0	424732	1	1	
C3orf24	825905	170	39	8827	2555	0	0	0	0	50	0	343070	1	1	
C3orf26	267848	573	10	15057	3633	0	0	0	0	50	0	396074	1	1	
C3orf27	1046071	282	53	7070	2380	0	0	0	0	50	0	370020	1	1	
C3orf30	197435	589	-3	26761	7280	0	0	0	0	50	1	380198	1	1	
C3orf31	229249	423	35	16261	4256	0	0	0	0	50	0	420105	1	1	
C3orf32	93870	581	8	17983	5075	0	0	0	0	50	0	420427	1	1	
C3orf33	304724	473	0	12887	3325	0	0	0	0	50	1	491708	1	1	
C3orf34	818753	446	45	8715	2037	0	0	0	0	50	2	480760	1	1	
C3orf35	471302	442	16	10493	3220	0	0	0	0	50	1	346773	1	1	
C3orf36	548078	520	28	7658	2800	0	0	0	0	50	2	434693	1	1	
C3orf37	1033808	136	49	18046	4823	0	0	0	0	50	0	397810	1	1	
C3orf38	123481	894	0	16457	4501	0	0	0	0	50	1	387415	1	1	
C3orf39	331914	493	28	27657	8946	0	0	0	0	50	1	429821	1	1	
C3orf43	1180405	156	30	10773	2940	0	0	0	0	50	0	395815	1	1	
C3orf45	843769	206	51	8064	2625	0	0	0	0	50	0	402556	1	1	
C3orf52	268780	440	28	16891	4697	0	0	0	0	50	0	400449	1	1	
C3orf54	1306720	191	39	13825	4445	0	0	0	0	50	0	428225	1	1	
C3orf55	147326	810	-11	9947	1897	0	0	0	0	50	0	427784	1	1	
C3orf57	240601	602	-4	3955	980	0	0	0	0	50	0	360479	1	1	
C3orf58	34520	1009	-6	21483	6510	0	0	0	0	50	0	373359	1	1	
C3orf59	34577	631	8	24297	6783	0	0	0	0	50	0	488551	1	1	
C3orf62	1661046	201	34	13510	3542	0	0	0	0	50	0	405601	1	1	
C3orf63	209166	363	34	86422	22043	0	0	0	0	50	0	365071	1	1	
C3orf64	263737	581	-2	23450	5530	0	0	0	0	50	0	300440	1	1	
C3orf67	146530	837	19	29071	7469	0	0	0	0	50	0	430703	1	1	
C3orf70	760533	598	32	12523	3374	0	0	0	0	50	0	478191	1	1	
C3orf71	1838219	241	33	13188	5145	0	0	0	0	50	1	386267	1	1	
C3orf72	345888	340	21	8288	2968	0	0	0	0	50	0	425803	1	1	
C3orf75	884829	197	44	13531	3794	0	0	0	0	50	0	394205	1	1	
C3orf77	NaN	NaN	NaN	86247	22050	0	0	0	0	50	2	801598	1	1	
C3orf78	NaN	NaN	NaN	3612	987	0	0	0	0	31	2	344470	1	1	
C3orf79	55177	914	-4	5229	1344	0	0	0	0	50	0	381472	1	1	

C4A	NaN	NaN	NaN	164122	48776	0	0	0	0	50	2	828324	1	1	
C4B	NaN	NaN	NaN	164122	48776	0	0	0	0	50	2	828324	1	1	
C4BPA	501293	142	22	30611	7987	0	0	0	0	50	0	374801	1	1	
C4BPB	434877	155	24	13398	3087	0	0	0	0	50	1	520723	1	1	
C4orf14	570731	443	33	34048	10577	0	0	0	0	50	0	410179	1	1	
C4orf17	331308	847	9	18375	4977	0	0	0	0	50	0	365568	1	1	
C4orf19	124686	814	32	15708	4305	0	0	0	0	50	1	450730	1	1	
C4orf21	219601	647	30	107212	27671	0	0	0	0	50	0	318535	1	1	
C4orf22	46363	1141	-4	12005	3199	0	0	0	0	50	0	415877	1	1	
C4orf23	108213	416	43	37758	10920	0	0	0	0	50	1	452410	1	1	
C4orf26	461415	491	19	6573	1806	0	0	0	0	50	0	402066	1	1	
C4orf27	173367	574	17	18088	4403	0	0	0	0	50	0	310961	1	1	
C4orf29	231217	284	16	21427	5558	0	0	0	0	50	1	381472	1	1	
C4orf3	218603	824	-1	9919	2912	0	0	0	0	50	0	385700	1	1	
C4orf31	106601	931	-7	28280	7798	0	0	0	0	50	0	421666	1	1	
C4orf32	167195	334	20	6496	1967	0	0	0	0	50	0	402290	1	1	
C4orf33	98087	645	-2	10535	2485	0	0	0	0	50	0	409101	1	1	
C4orf34	645570	165	40	5229	1407	0	0	0	0	50	0	403214	1	1	
C4orf35	264684	915	25	19257	5733	0	0	0	0	50	0	342755	1	1	
C4orf36	268001	603	36	6111	1659	0	0	0	0	50	0	318542	1	1	
C4orf37	69244	1096	-24	23534	6328	0	0	0	0	50	1	511826	1	1	
C4orf39	NaN	NaN	NaN	7413	2583	0	0	0	0	50	2	782131	1	1	
C4orf40	181352	975	12	10556	3640	0	0	0	0	50	0	353479	1	1	
C4orf41	154470	254	4	58912	14966	0	0	0	0	6	0	44177	1	1	
C4orf43	75022	1136	-3	10920	2436	0	0	0	0	50	0	410711	1	1	
C4orf44	612481	464	32	13713	4032	0	0	0	0	50	1	450282	1	1	
C4orf45	155458	337	10	9786	2373	0	0	0	0	50	0	416710	1	1	
C4orf46	154316	534	-11	5502	1764	0	0	0	0	50	0	485492	1	1	
C4orf47	NaN	NaN	NaN	16086	4074	0	0	0	0	50	2	783622	1	1	
C4orf48	NaN	NaN	NaN	6195	2268	0	0	0	0	50	2	781816	1	1	
C4orf49	384151	208	24	11830	3605	0	0	0	0	50	1	420161	1	1	
C4orf50	109875	686	16	13769	4228	0	0	0	0	50	0	367829	1	1	
C4orf51	221010	1168	26	10493	2716	0	0	0	0	50	0	404425	1	1	
C4orf52	NaN	NaN	NaN	3507	945	0	0	0	0	31	2	344428	1	1	
C4orf6	57657	589	10	4837	1253	0	0	0	0	50	0	503111	1	1	
C4orf7	191457	928	7	4466	1246	0	0	0	0	50	0	426895	1	1	
C5	628273	379	37	86695	22358	0	0	0	0	50	0	418558	1	1	
C5AR1	1132395	232	41	16611	5607	0	0	0	0	50	0	333879	1	1	
C5orf13	118271	617	34	6062	1498	0	0	0	0	50	0	372911	1	1	
C5orf15	568918	269	60	13097	3829	0	0	0	0	50	0	345933	1	1	
C5orf20	625030	509	47	11655	3780	0	0	0	0	50	1	474635	1	1	
C5orf22	235664	649	4	22652	5929	0	0	0	0	50	0	419685	1	1	
C5orf23	477035	487	-15	6013	1673	0	0	0	0	50	0	446642	1	1	
C5orf24	877491	696	39	9268	2723	0	0	0	0	50	1	478366	1	1	
C5orf25	532154	427	25	23093	6433	0	0	0	0	50	1	441350	1	1	
C5orf28	497364	369	1	10661	3115	0	0	0	0	50	0	426538	1	1	
C5orf30	203042	531	16	10052	3073	0	0	0	0	50	0	407330	1	1	
C5orf32	788704	185	45	4956	1386	0	0	0	0	50	2	427231	1	1	
C5orf33	184013	476	2	22442	6391	0	0	0	0	50	1	421015	1	1	
C5orf34	490107	369	10	32732	8533	0	0	0	0	50	0	606193	1	1	

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C5orf35	201203	393	41	15260	4186	0	0	0	0	50	1	434217	1	1	
C5orf36	162976	515	3	65842	16184	0	0	0	0	20	0	159558	1	1	
C5orf38	18983	986	-29	6741	2268	0	0	0	0	50	0	449708	1	1	
C5orf39	488323	520	21	9429	2793	0	0	0	0	50	0	439600	1	1	
C5orf4	525975	293	35	17129	4543	0	0	0	0	50	0	405776	1	1	
C5orf40	NaN	NaN	NaN	11067	3192	0	0	0	0	50	2	782740	1	1	
C5orf41	486042	309	37	33117	8421	0	0	0	0	50	0	353878	1	1	
C5orf42	355603	213	29	163163	42595	0	0	0	0	35	0	381367	1	1	
C5orf43	202017	385	13	3815	994	0	0	0	0	4	0	32193	1	1	
C5orf44	417990	406	31	21840	5565	0	0	0	0	50	0	377902	1	1	
C5orf45	1610057	359	38	17255	4963	0	0	0	0	50	0	355047	1	1	
C5orf46	137041	470	2	4627	1211	0	0	0	0	50	1	355271	1	1	
C5orf47	NaN	NaN	NaN	8897	2590	0	0	0	0	50	2	782138	1	1	
C5orf48	235652	347	15	6965	1792	0	0	0	0	50	0	372225	1	1	
C5orf49	65781	1013	-18	7378	2114	0	0	0	0	50	0	400274	1	1	
C5orf51	113456	795	23	15176	3829	0	0	0	0	50	0	379141	1	1	
C5orf52	NaN	NaN	NaN	8022	2268	0	0	0	0	50	2	781816	1	1	
C5orf53	812666	260	50	2744	658	0	0	0	0	10	0	68824	1	1	
C5orf54	197504	619	30	29764	7805	0	0	0	0	50	0	397110	1	1	
C5orf55	787542	399	37	5670	1890	0	0	0	0	50	0	453404	1	1	
C5orf56	543074	264	63	6664	1589	0	0	0	0	50	0	310569	1	1	
C5orf58	97631	636	31	5418	1323	0	0	0	0	50	1	470596	1	1	
C5orf60	NaN	NaN	NaN	13734	4242	0	0	0	0	50	2	783790	1	1	
C5orf62	NaN	NaN	NaN	2975	952	0	0	0	0	31	2	344435	1	1	
C6	252021	888	-14	48237	12096	0	0	0	0	50	0	378553	1	1	
C6orf1	1074764	233	36	7833	2499	0	0	0	0	50	0	331247	1	1	
C6orf10	1754032	479	27	24934	6230	0	0	0	0	50	0	314258	1	1	
C6orf103	NaN	NaN	NaN	86079	21987	0	0	0	0	50	2	801535	1	1	
C6orf105	117356	372	24	12726	3465	0	0	0	0	50	0	398244	1	1	
C6orf106	920583	132	31	15127	4046	0	0	0	0	50	0	361676	1	1	
C6orf108	1308754	363	35	9716	3094	0	0	0	0	50	1	439250	1	1	
C6orf114	NaN	NaN	NaN	6832	1799	0	0	0	0	50	2	781347	1	1	
C6orf115	289502	640	16	4186	1148	0	0	0	0	24	1	245231	1	1	
C6orf118	31222	466	-31	23842	6482	0	0	0	0	50	0	406994	1	1	
C6orf120	233648	447	3	9191	2905	0	0	0	0	50	1	462595	1	1	
C6orf125	1551477	328	40	6657	1680	0	0	0	0	50	0	473613	1	1	
C6orf126	621095	404	34	5194	1421	0	0	0	0	50	0	437409	1	1	
C6orf127	621095	404	34	6314	1624	0	0	0	0	50	0	437409	1	1	
C6orf129	498007	434	43	5110	1358	0	0	0	0	10	1	69545	1	1	
C6orf130	145501	611	37	8064	1995	0	0	0	0	50	0	397600	1	1	
C6orf132	NaN	NaN	NaN	55328	19915	0	0	0	0	50	2	799463	1	1	
C6orf134	2097865	171	37	16800	5124	0	0	0	0	50	0	448812	1	1	
C6orf136	2115149	171	41	23562	8169	0	0	0	0	50	0	454741	1	1	
C6orf138	100851	907	-18	41608	11963	0	0	0	0	50	0	486794	1	1	
C6orf141	NaN	NaN	NaN	11487	3948	0	0	0	0	50	2	783496	1	1	
C6orf142	104005	635	-1	23415	6510	0	0	0	0	50	0	419636	1	1	
C6orf145	336205	311	17	11732	3220	0	0	0	0	50	1	490497	1	1	
C6orf146	182705	353	18	25837	6734	0	0	0	0	50	0	376488	1	1	
C6orf15	2992134	283	23	15449	5173	0	0	0	0	50	0	431998	1	1	
C6orf150	723493	232	21	25984	7343	0	0	0	0	50	0	402409	1	1	

C6orf153	1200368	259	40	13314	3612	0	0	0	0	50	0	446481	1	1	
C6orf154	1278255	230	56	15379	5012	0	0	0	0	50	0	392392	1	1	
C6orf162	222902	596	14	5019	1323	0	0	0	0	44	0	300881	1	1	
C6orf163	NaN	NaN	NaN	17150	4018	0	0	0	0	50	2	783566	1	1	
C6orf165	222811	556	26	31906	8351	0	0	0	0	50	0	394653	1	1	
C6orf167	91667	1258	2	63819	16569	0	0	0	0	5	0	46564	1	1	
C6orf168	259352	595	-11	20951	5299	0	0	0	0	50	0	352961	1	1	
C6orf170	60566	895	-10	65674	16226	0	0	0	0	50	1	626024	1	1	
C6orf174	157237	811	-9	46193	14035	0	0	0	0	50	1	402416	1	1	
C6orf182	390388	492	33	24304	5579	0	0	0	0	50	0	338793	1	1	
C6orf186	183030	586	22	18221	5236	0	0	0	0	50	0	411614	1	1	
C6orf191	72955	603	26	6797	1750	0	0	0	0	50	0	475580	1	1	
C6orf192	129252	443	10	23065	6818	0	0	0	0	50	0	427777	1	1	
C6orf195	467575	342	25	6195	1869	0	0	0	0	50	0	384986	1	1	
C6orf201	181759	353	22	7273	1862	0	0	0	0	50	0	408149	1	1	
C6orf203	214917	417	22	12544	3290	0	0	0	0	50	0	389256	1	1	
C6orf204	129707	1029	8	43855	10871	0	0	0	0	50	1	482251	1	1	
C6orf211	336608	468	30	22512	5670	0	0	0	0	50	1	384377	1	1	
C6orf221	732413	446	18	10689	3255	0	0	0	0	50	1	397712	1	1	
C6orf222	891439	192	38	32844	9219	0	0	0	0	50	1	441469	1	1	
C6orf223	1407986	199	47	13076	3430	0	0	0	0	50	0	457317	1	1	
C6orf225	145073	296	-5	4102	1169	0	0	0	0	50	0	429632	1	1	
C6orf226	1086050	203	41	4697	1771	0	0	0	0	50	0	330211	1	1	
C6orf25	2517236	193	20	13447	3164	0	0	0	0	50	0	540043	1	1	
C6orf26	2509866	183	32	9079	2576	0	0	0	0	50	0	441721	1	1	
C6orf27	2509866	183	32	43197	14322	0	0	0	0	50	0	441721	1	1	
C6orf35	213310	374	21	7091	2107	0	0	0	0	50	0	420091	1	1	
C6orf47	2517236	193	20	13748	4837	0	0	0	0	50	0	540043	1	1	
C6orf48	2485614	188	36	3955	1043	0	0	0	0	50	0	418222	1	1	
C6orf52	NaN	NaN	NaN	8106	1911	0	0	0	0	50	2	781459	1	1	
C6orf57	119480	618	15	5523	1554	0	0	0	0	43	0	308504	1	1	
C6orf58	169285	807	-9	17024	4291	0	0	0	0	50	1	414624	1	1	
C6orf62	422850	362	40	11865	2961	0	0	0	0	50	1	474488	1	1	
C6orf64	188770	730	34	8778	2898	0	0	0	0	50	0	412223	1	1	
C6orf70	233648	447	3	34916	9373	0	0	0	0	50	1	462595	1	1	
C6orf72	435829	150	41	16884	4641	0	0	0	0	50	2	344456	1	1	
C6orf81	621095	404	34	18179	5509	0	0	0	0	50	0	437409	1	1	
C6orf89	836025	244	43	18214	4739	0	0	0	0	50	0	455224	1	1	
C6orf94	NaN	NaN	NaN	11564	3073	0	0	0	0	50	2	782621	1	1	
C6orf97	301605	535	7	36603	9387	0	0	0	0	50	1	460152	1	1	
C7	211302	644	5	43393	11207	0	0	0	0	50	0	400281	1	1	
C7orf10	120126	802	-13	22365	6258	0	0	0	0	50	0	470246	1	1	
C7orf11	221361	636	20	8666	2800	0	0	0	0	50	0	353556	1	1	
C7orf16	26433	889	1	8190	1974	0	0	0	0	50	0	408751	1	1	
C7orf23	182644	1011	28	6104	1645	0	0	0	0	50	0	344715	1	1	
C7orf25	163131	744	-6	23387	6979	0	0	0	0	50	0	382193	1	1	
C7orf26	NaN	NaN	NaN	22015	6755	0	0	0	0	50	2	786303	1	1	
C7orf27	783535	226	47	39655	13223	0	0	0	0	50	0	408933	1	1	
C7orf28A	2208864	358	32	25683	5964	0	0	0	0	50	0	411369	1	1	
C7orf28B	700380	514	57	25683	5964	0	0	0	0	50	1	355383	1	1	

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C7orf29	NaN	NaN	NaN	11473	3458	0	0	0	0	50	2	783006	1	1	
C7orf30	500943	169	27	11704	3437	0	0	0	0	50	1	452620	1	1	
C7orf31	254281	319	21	30226	7763	0	0	0	0	50	0	422226	1	1	
C7orf33	473795	593	-4	8666	2716	0	0	0	0	50	1	406770	1	1	
C7orf34	294033	676	2	7378	2072	0	0	0	0	50	0	342202	1	1	
C7orf36	221842	487	5	11522	2989	0	0	0	0	50	1	469539	1	1	
C7orf41	656945	411	31	6839	1645	0	0	0	0	50	1	343630	1	1	
C7orf42	490088	228	41	15953	4396	0	0	0	0	50	1	324730	1	1	
C7orf43	1299015	205	52	28105	9338	0	0	0	0	50	1	409815	1	1	
C7orf44	654530	310	38	7742	1939	0	0	0	0	50	0	435554	1	1	
C7orf45	414437	266	34	12670	2975	0	0	0	0	50	0	370594	1	1	
C7orf46	378677	441	19	15358	4025	0	0	0	0	50	1	456848	1	1	
C7orf47	1479297	186	60	12103	4235	0	0	0	0	50	0	348467	1	1	
C7orf49	464513	594	20	7840	2282	0	0	0	0	50	0	295855	1	1	
C7orf50	769674	346	35	9618	2982	0	0	0	0	50	0	372799	1	1	
C7orf51	1479297	186	60	39655	13895	0	0	0	0	50	0	348467	1	1	
C7orf52	1022626	258	39	17444	6118	0	0	0	0	50	0	387464	1	1	
C7orf53	171853	470	-5	6685	1883	0	0	0	0	50	0	364609	1	1	
C7orf55	522451	339	35	5544	1764	0	0	0	0	50	0	402955	1	1	
C7orf57	127890	364	24	15225	4074	0	0	0	0	50	0	395472	1	1	
C7orf58	99302	534	-3	53431	13958	0	0	0	0	50	0	452284	1	1	
C7orf59	1299015	205	52	4991	1603	0	0	0	0	50	1	409815	1	1	
C7orf60	157620	814	-14	20468	5446	0	0	0	0	50	0	463225	1	1	
C7orf61	1479297	186	60	10136	3073	0	0	0	0	50	0	348467	1	1	
C7orf63	134871	1140	2	49091	12103	0	0	0	0	50	1	378735	1	1	
C7orf64	750974	369	28	18613	4949	0	0	0	0	50	0	400701	1	1	
C7orf65	237253	211	21	7700	2086	0	0	0	0	50	0	392000	1	1	
C7orf66	75279	982	-24	5922	1554	0	0	0	0	2	0	10696	1	1	
C7orf68	902782	246	34	3115	1001	0	0	0	0	50	2	398811	1	1	
C7orf69	NaN	NaN	NaN	6412	1547	0	0	0	0	31	2	345030	1	1	
C7orf70	NaN	NaN	NaN	12495	3969	0	0	0	0	50	2	783517	1	1	
C7orf71	NaN	NaN	NaN	8610	2268	0	0	0	0	50	2	781816	1	1	
C7orf72	NaN	NaN	NaN	22288	6041	0	0	0	0	50	2	785589	1	1	
C8A	39104	713	-15	30044	7651	0	0	0	0	50	1	493045	1	1	
C8B	38776	713	-12	30457	7805	0	0	0	0	50	2	584087	1	1	
C8G	1979517	188	34	10206	3129	0	0	0	0	50	1	413833	1	1	
C8orf22	15071	631	-19	4417	1085	0	0	0	0	50	0	376019	1	1	
C8orf30A	2713803	210	26	37324	12866	0	0	0	0	50	0	460936	1	1	
C8orf31	821065	470	4	6867	1932	0	0	0	0	50	0	331583	1	1	
C8orf33	454161	440	8	11473	3395	0	0	0	0	50	1	473515	1	1	
C8orf34	36554	910	-22	22372	5600	0	0	0	0	50	0	360066	1	1	
C8orf37	313002	375	45	10927	2639	0	0	0	0	50	2	363811	1	1	
C8orf38	409865	395	57	17024	4732	0	0	0	0	50	0	428659	1	1	
C8orf4	10573	360	3	5327	1456	0	0	0	0	50	1	406875	1	1	
C8orf40	627586	464	26	5740	1316	0	0	0	0	50	0	390943	1	1	
C8orf41	91648	507	12	24934	7721	0	0	0	0	50	0	484890	1	1	
C8orf42	152113	904	-20	9226	2660	0	0	0	0	50	0	426097	1	1	
C8orf44	372262	213	38	8071	2177	0	0	0	0	50	0	383313	1	1	
C8orf45	392325	393	22	35224	9380	0	0	0	0	50	0	434847	1	1	
C8orf46	285889	151	36	10388	3136	0	0	0	0	50	0	363979	1	1	

C8orf47	630526	229	39	18487	5306	0	0	0	0	50	1	499534	1	1	
C8orf48	NaN	NaN	NaN	15834	4326	0	0	0	0	50	2	783874	1	1	
C8orf55	427585	373	34	9660	3591	0	0	0	0	50	0	345541	1	1	
C8orf58	757216	224	45	17745	5817	0	0	0	0	50	1	430206	1	1	
C8orf59	99038	1463	13	5299	1232	0	0	0	0	50	0	386386	1	1	
C8orf73	2183482	235	37	34020	12474	0	0	0	0	50	0	386120	1	1	
C8orf74	110362	481	9	14581	4298	0	0	0	0	50	0	440510	1	1	
C8orf76	545561	171	22	19460	5005	0	0	0	0	50	0	397152	1	1	
C8orf79	111627	643	-11	22925	5971	0	0	0	0	50	0	489055	1	1	
C8orf80	409228	222	34	40985	10738	0	0	0	0	50	0	335328	1	1	
C8orf83	NaN	NaN	NaN	4585	1211	0	0	0	0	31	2	344694	1	1	
C8orf84	161465	570	18	13342	3689	0	0	0	0	50	0	334992	1	1	
C8orf85	495171	346	16	7644	2310	0	0	0	0	50	0	466242	1	1	
C8orf86	840384	454	46	10885	3437	0	0	0	0	50	1	481894	1	1	
C9	168073	424	-8	28833	7329	0	0	0	0	50	0	395136	1	1	
C9orf100	1202125	248	37	16814	5026	0	0	0	0	50	1	408730	1	1	
C9orf102	260804	471	25	36372	9639	0	0	0	0	50	0	389641	1	1	
C9orf103	493702	567	-8	7217	1981	0	0	0	0	50	0	322742	1	1	
C9orf106	1220935	283	48	11207	3598	0	0	0	0	50	0	493626	1	1	
C9orf11	116649	454	-34	15386	3871	0	0	0	0	50	0	445480	1	1	
C9orf114	1768145	201	34	19341	5418	0	0	0	0	50	1	405104	1	1	
C9orf116	298554	539	14	7238	1603	0	0	0	0	50	1	408366	1	1	
C9orf117	1098647	172	32	26446	7133	0	0	0	0	50	0	354669	1	1	
C9orf119	1813435	201	46	11599	3605	0	0	0	0	50	1	409983	1	1	
C9orf123	73228	1033	-33	5474	1771	0	0	0	0	49	0	426020	1	1	
C9orf125	112814	872	-15	19488	6048	0	0	0	0	50	0	571494	1	1	
C9orf128	847663	227	54	20405	5446	0	0	0	0	50	0	406126	1	1	
C9orf129	439538	426	41	9779	2968	0	0	0	0	50	1	510727	1	1	
C9orf131	782447	350	42	52241	16261	0	0	0	0	50	1	488740	1	1	
C9orf135	243260	478	-8	11991	3003	0	0	0	0	50	0	384097	1	1	
C9orf139	1951939	202	40	9016	3101	0	0	0	0	50	0	420637	1	1	
C9orf140	1951939	202	40	18711	6594	0	0	0	0	50	0	420637	1	1	
C9orf142	1979517	188	34	10192	3269	0	0	0	0	50	1	413833	1	1	
C9orf144B	NaN	NaN	NaN	64904	19516	0	0	0	0	50	2	799064	1	1	
C9orf150	77482	482	-32	11214	3297	0	0	0	0	50	0	386260	1	1	
C9orf152	203263	245	32	11732	3472	0	0	0	0	50	0	351421	1	1	
C9orf153	311398	417	8	5383	1337	0	0	0	0	50	1	418047	1	1	
C9orf156	468629	276	38	21910	6314	0	0	0	0	50	0	386806	1	1	
C9orf16	1762678	201	44	4221	1155	0	0	0	0	27	0	189105	1	1	
C9orf163	1413299	233	44	9541	3311	0	0	0	0	50	0	463337	1	1	
C9orf167	1724821	399	43	19656	7140	0	0	0	0	50	0	327124	1	1	
C9orf169	NaN	NaN	NaN	7161	2058	0	0	0	0	50	2	781606	1	1	
C9orf170	123702	421	-8	6013	1799	0	0	0	0	50	0	414701	1	1	
C9orf171	1522970	492	36	15967	4802	0	0	0	0	50	1	514150	1	1	
C9orf172	1921909	176	44	44933	16597	0	0	1	0	50	1	408821	1	1	
C9orf173	1724821	399	43	15351	4578	0	0	0	0	50	0	327124	1	1	
C9orf21	322237	430	26	11417	3346	0	0	0	0	50	0	443597	1	1	
C9orf23	731413	298	51	7630	2786	0	0	0	0	50	0	319746	1	1	
C9orf24	478815	302	38	15666	3675	0	0	0	0	50	0	341495	1	1	
C9orf25	629612	302	40	9646	2492	0	0	0	0	50	0	376369	1	1	

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C9orf3	250013	432	35	36624	9891	0	0	0	0	50	0	389977	1	1	
C9orf30	245284	516	0	14063	3493	0	0	0	0	50	0	376523	1	1	
C9orf37	1197708	478	45	8372	2821	0	0	0	0	50	2	550627	1	1	
C9orf4	338668	272	18	16730	5341	0	0	0	0	50	1	497889	1	1	
C9orf40	95383	649	-18	9359	3010	0	0	0	0	50	0	541114	1	1	
C9orf41	95299	649	-13	20993	5425	0	0	0	0	50	0	449869	1	1	
C9orf43	390186	297	36	24178	6020	0	0	0	0	50	0	381297	1	1	
C9orf46	373599	629	18	7910	1750	0	0	0	0	50	1	415583	1	1	
C9orf47	248480	646	4	9870	3129	0	0	0	0	50	0	406140	1	1	
C9orf5	337902	387	13	43505	13405	0	0	0	0	50	0	450128	1	1	
C9orf50	886775	205	39	20748	6972	0	0	0	0	50	1	411418	1	1	
C9orf57	NaN	NaN	NaN	8449	2135	0	0	0	0	50	2	781683	1	1	
C9orf6	337389	433	12	9499	2429	0	0	0	0	50	0	432663	1	1	
C9orf64	460176	343	2	17031	4767	0	0	0	0	50	0	369432	1	1	
C9orf66	219110	462	-10	13643	5005	0	0	0	0	50	0	373562	1	1	
C9orf68	226049	673	17	17409	4515	0	0	0	0	50	0	315119	1	1	
C9orf69	799089	244	42	6328	2324	0	0	0	0	50	0	455364	1	1	
C9orf7	1858670	315	39	8715	2562	0	0	0	0	50	0	406028	1	1	
C9orf71	127057	578	-20	8344	2555	0	0	0	0	50	0	466900	1	1	
C9orf72	93979	434	-12	24570	6678	0	0	0	0	50	2	476231	1	1	
C9orf78	600401	187	44	15260	3724	0	0	0	0	50	1	421176	1	1	
C9orf79	206257	613	8	69748	21686	0	0	0	0	50	1	411894	1	1	
C9orf80	525036	382	18	5516	1435	0	0	0	0	50	0	391874	1	1	
C9orf82	104669	632	-28	18396	4830	0	0	0	0	50	1	483826	1	1	
C9orf84	540873	264	17	76916	19054	0	0	0	0	50	1	368018	1	1	
C9orf85	284245	358	5	8463	1743	0	0	0	0	50	0	403571	1	1	
C9orf86	1921909	176	44	40453	11858	0	0	0	0	50	1	408821	1	1	
C9orf89	504920	448	61	9247	2765	0	0	0	0	50	1	382585	1	1	
C9orf9	1952019	575	33	8806	2219	0	0	0	0	50	0	365351	1	1	
C9orf91	285717	202	14	17150	5131	0	0	0	0	50	1	351722	1	1	
C9orf93	150665	600	-9	68803	16856	0	0	0	0	50	0	445515	1	1	
C9orf95	95091	623	0	10892	2380	0	0	0	0	50	0	428680	1	1	
C9orf96	1827885	416	28	34629	9744	0	0	0	0	50	0	337127	1	1	
C9orf98	1939494	575	33	24626	6622	0	0	0	0	50	0	373212	1	1	
CA1	99296	1463	15	13566	3570	0	0	0	0	50	0	354466	1	1	
CA10	36963	832	-68	17087	4312	0	0	0	0	50	0	446768	1	1	
CA11	1597109	242	31	16352	5047	0	0	0	0	50	0	408625	1	1	
CA12	449769	275	47	18228	4977	0	0	0	0	50	0	437871	1	1	
CA13	99038	1463	13	13447	3626	0	0	0	0	50	0	386386	1	1	
CA14	1213150	197	38	17367	4767	0	0	0	0	50	1	414330	1	1	
CA2	100997	1460	-18	13412	3535	0	0	0	0	50	1	394639	1	1	
CA3	100997	1460	-18	13412	3577	0	0	0	0	50	1	394639	1	1	
CA4	973133	347	10	15911	4438	0	0	0	0	50	1	260582	1	1	
CA5A	612550	133	27	15568	4256	0	0	0	0	50	1	380856	1	1	
CA5B	170565	NaN	42	16240	4382	0	0	0	0	50	0	432460	1	1	
CA6	840956	264	31	15897	4200	0	0	0	0	50	1	403907	1	1	
CA7	868790	142	24	13510	3689	0	0	0	0	50	0	382473	1	1	
CA8	206353	885	-14	15015	3990	0	0	0	0	50	0	456001	1	1	
CA9	1202125	248	37	22687	7175	0	0	0	0	50	1	408730	1	1	
CAB39	503356	395	29	17934	4284	0	0	0	0	50	1	460866	1	1	

CAB39L	373856	343	50	17619	4347	0	0	0	0	50	1	378168	1	1	
CABC1	411156	481	5	32753	9247	0	0	0	0	50	0	381150	1	1	
CABIN1	749515	202	40	110418	32529	0	0	0	0	50	0	383761	1	1	
CABLES1	270708	198	72	31885	9947	0	0	0	0	50	1	434812	1	1	
CABLES2	1190359	252	33	23422	7553	0	0	0	0	50	3	315392	1	1	
CABP1	1678287	311	38	21616	7112	0	0	0	0	50	0	399028	1	1	
CABP2	1392213	215	53	11193	3276	0	0	0	0	50	0	303898	1	1	
CABP4	1392213	215	53	13643	4207	0	0	0	0	50	0	303898	1	1	
CABP5	993450	433	26	9079	2303	0	0	0	0	50	0	487389	1	1	
CABP7	848649	195	37	11053	2933	0	0	0	0	50	1	376551	1	1	
CABYR	233052	360	52	34041	10185	0	0	0	0	50	0	402318	1	1	
CACHD1	213591	581	-6	62629	16667	0	0	0	0	50	0	400568	1	1	
CACNA1A	1604988	497	12	127694	36505	0	0	0	0	50	0	487907	1	1	
CACNA1B	286606	675	29	116746	34454	0	0	0	0	50	0	459277	1	1	
CACNA1C	457513	765	26	119665	33845	0	0	0	0	3	0	47775	1	1	
CACNA1D	514645	578	42	113673	30093	0	0	0	0	50	2	405048	1	1	
CACNA1E	111356	832	10	114926	32011	0	0	0	0	50	0	434007	1	1	
CACNA1G	1559131	196	19	121569	36918	0	0	0	0	50	0	463596	1	1	
CACNA1I	725838	466	60	109725	33411	0	0	0	0	0	0	33411	1	1	
CACNA1S	522609	490	31	95305	26369	0	0	0	0	50	1	500528	1	1	
CACNA2D1	58044	982	4	57918	14070	0	0	0	0	26	0	264943	1	1	
CACNA2D2	639042	259	57	59738	16135	0	0	0	0	50	0	419209	1	1	
CACNA2D3	29637	816	12	57477	14469	0	0	0	0	50	0	431697	1	1	
CACNA2D4	240778	593	28	58968	15834	0	0	1	0	50	1	447286	1	1	
CACNB1	1426821	212	31	34195	10136	0	0	0	0	50	0	386533	1	1	
CACNB2	74282	408	4	38689	10430	0	0	0	0	50	1	404761	1	1	
CACNB3	1655612	214	57	24619	6944	0	0	0	0	50	0	392147	1	1	
CACNB4	279730	592	21	27678	7539	0	0	0	0	50	0	417403	1	1	
CACNG1	300354	491	-30	11200	3143	0	0	0	0	50	1	439334	1	1	
CACNG2	1202913	359	42	16058	4606	0	0	0	0	50	1	448147	1	1	
CACNG3	360425	348	8	15687	4473	0	0	0	0	50	0	411320	1	1	
CACNG4	293409	491	-23	16163	4795	0	0	0	0	50	1	576919	1	1	
CACNG5	284959	536	-39	18767	5593	0	0	0	0	50	1	395535	1	1	
CACNG6	806175	338	-40	12383	4312	0	0	0	0	50	0	375585	1	1	
CACNG7	813774	360	-33	13825	3941	0	0	0	0	50	1	440979	1	1	
CACNG8	813774	360	-33	20111	7042	0	0	0	0	50	1	440979	1	1	
CACYBP	176818	828	4	11956	2891	0	0	0	0	50	1	388654	1	1	
CAD	1238919	230	39	109711	34139	0	0	0	0	50	0	358974	1	1	
CADM1	29879	993	5	22302	6363	0	0	0	0	50	1	560994	1	1	
CADM2	8467	1155	-19	23205	6468	0	0	0	0	50	0	407155	1	1	
CADM3	99569	785	14	21819	6216	0	0	0	0	50	0	363223	1	1	
CADM4	441738	209	6	19355	5866	0	0	1	0	14	1	80892	1	1	
CADPS	76552	1010	3	70686	18585	0	0	0	0	10	1	130347	1	1	
CADPS2	61224	1046	-3	67704	17367	0	0	0	0	50	0	331457	1	1	
CAGE1	761240	283	15	45612	10626	0	0	0	0	50	0	412195	1	1	
CALB1	272948	534	25	14063	3283	0	0	0	0	50	0	372596	1	1	
CALB2	402231	648	0	14847	3171	0	0	0	0	50	0	352128	1	1	
CALCA	344274	627	-9	9856	2828	0	0	0	0	50	0	337008	1	1	
CALCB	277848	692	-18	6461	1939	0	0	0	0	50	0	398713	1	1	
CALCOCO1	1501666	272	56	35007	9765	0	0	0	0	50	0	403305	1	1	

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CALCOCO2	757963	239	29	23947	5222	0	0	0	0	50	0	457212	1	1	
CALCR	197869	823	-10	26600	6643	0	0	0	0	50	1	451171	1	1	
CALCRL	61297	453	1	24213	5901	0	0	0	0	50	1	344610	1	1	
CALD1	390559	513	17	42056	10213	0	0	0	0	50	0	441539	1	1	
CALHM1	542721	170	51	16611	5334	0	0	0	0	50	1	357371	1	1	
CALHM2	542721	170	51	15512	4984	0	0	0	0	50	1	357371	1	1	
CALHM3	NaN	NaN	NaN	16506	5397	0	0	0	0	50	2	784945	1	1	
CALM1	323571	599	21	8071	1799	0	0	0	0	50	0	406973	1	1	
CALM2	811122	132	35	8099	1771	0	0	0	0	50	0	387184	1	1	
CALM3	1139694	347	28	8043	1827	0	0	0	0	50	0	420014	1	1	
CALML3	769552	446	17	7378	2072	0	0	0	0	50	1	419720	1	1	
CALML4	375804	365	28	10122	2625	0	0	0	0	50	1	382235	1	1	
CALML5	769552	446	17	7133	2128	0	0	0	0	50	1	419720	1	1	
CALML6	1434423	233	27	9702	2226	0	0	0	0	50	0	395129	1	1	
CALN1	17685	956	-29	13587	3423	0	0	0	0	50	0	460488	1	1	
CALR	1886809	335	40	22001	5047	0	0	0	0	50	0	357672	1	1	
CALR3	808967	218	35	20293	4718	0	0	0	0	50	1	337015	1	1	
CALU	852821	304	33	20209	4361	0	0	0	0	50	0	478058	1	1	
CALY	386585	472	13	10913	3241	0	0	0	0	50	0	387611	1	1	
CAMK1	954590	264	39	21336	5061	0	0	0	0	50	0	517916	1	1	
CAMK1D	326642	556	35	20643	5208	0	0	0	0	50	0	387716	1	1	
CAMK1G	204559	405	-3	24535	6524	0	0	0	0	50	0	419433	1	1	
CAMK2A	978175	220	47	25613	6769	0	0	0	0	50	2	404215	1	1	
CAMK2B	1467518	412	65	34335	9681	0	0	0	0	50	0	320201	1	1	
CAMK2D	166680	632	21	28168	6839	0	0	0	0	50	0	453852	1	1	
CAMK2G	998685	191	42	30849	8106	0	0	0	0	50	2	482160	1	1	
CAMK2N1	573203	429	30	3948	1113	0	0	0	0	50	1	426783	1	1	
CAMK2N2	NaN	NaN	NaN	3983	1141	0	0	0	0	31	2	344624	1	1	
CAMK4	192731	767	29	24080	6664	0	0	0	0	50	0	426013	1	1	
CAMKK1	505430	215	30	27783	7875	0	0	0	0	50	0	359653	1	1	
CAMKK2	981640	258	42	30380	8239	0	0	0	0	50	0	467572	1	1	
CAMKV	1298303	170	38	25165	7301	0	0	0	0	50	0	426013	1	1	
CAMLG	910140	193	33	14651	4312	0	0	0	0	50	0	551033	1	1	
CAMP	1113209	193	40	8568	2499	0	0	0	0	50	0	312788	1	1	
CAMSAP1	721697	446	46	79779	22554	0	0	0	0	50	2	459319	1	1	
CAMSAP1L1	492001	374	12	74900	19621	0	0	0	0	50	0	481166	1	1	
CAMTA1	289717	462	23	83867	23443	0	0	0	0	50	0	459207	1	1	
CAMTA2	1416161	231	30	62216	18781	0	0	0	0	50	0	367325	1	1	
CAND1	237289	810	-13	61572	17157	0	0	0	0	50	0	361221	1	1	
CAND2	508965	269	39	59647	19502	0	0	0	0	50	0	401933	1	1	
CANT1	612708	177	22	19684	5894	0	0	0	0	50	0	366639	1	1	
CANX	1624288	256	44	31010	7525	0	0	0	0	50	0	495103	1	1	
CAP1	873408	387	23	24311	6685	0	0	0	0	50	0	547267	1	1	
CAP2	249798	454	-8	24577	6524	0	0	0	0	50	0	403746	1	1	
CAPG	1067736	180	39	17738	5005	0	0	0	0	50	0	464870	1	1	
CAPN1	3317462	168	54	36799	9989	0	0	0	0	50	0	384888	1	1	
CAPN10	837485	485	35	35483	11053	0	0	0	0	50	0	373352	1	1	
CAPN11	1176811	216	49	38850	9660	0	0	0	0	50	1	456442	1	1	
CAPN12	1697047	322	45	36379	10661	0	0	0	0	50	0	437045	1	1	
CAPN13	131345	692	5	35112	8946	0	0	0	0	50	1	472815	1	1	

CAPN14	NaN	NaN	NaN	35763	9156	0	0	0	0	50	2	788704	1	1	
CAPN2	528883	407	2	36540	9408	0	0	0	0	50	0	403032	1	1	
CAPN3	592239	284	38	44051	10801	0	0	0	0	50	0	352632	1	1	
CAPN5	403200	395	38	32340	9051	0	0	0	0	50	0	479304	1	1	
CAPN6	132204	NaN	23	32844	8610	0	0	0	0	50	0	331548	1	1	
CAPN7	511283	367	30	42273	10689	0	0	0	0	50	1	436380	1	1	
CAPN8	NaN	NaN	NaN	30800	8092	0	0	0	0	50	2	787640	1	1	
CAPN9	438898	550	7	35987	9184	0	0	0	0	50	0	390369	1	1	
CAPNS1	978272	326	6	14084	3766	0	0	0	0	50	1	296975	1	1	
CAPNS2	NaN	NaN	NaN	12229	3500	0	0	0	0	50	2	783048	1	1	
CAPRIN1	770116	279	28	36904	9674	0	0	0	0	50	0	470974	1	1	
CAPRIN2	286973	420	-8	57064	15428	0	0	0	0	50	0	442477	1	1	
CAPS	1166723	392	36	9576	2814	0	0	0	0	50	1	353248	1	1	
CAPS2	110847	692	-32	29533	7049	0	0	0	0	50	0	471772	1	1	
CAPSL	138289	614	0	10780	2681	0	0	0	0	50	0	377468	1	1	
CAPZA1	560292	325	23	15225	3612	0	0	0	0	50	0	445648	1	1	
CAPZA2	503859	185	8	15225	3633	0	0	0	0	50	1	415639	1	1	
CAPZA3	82407	911	-29	15022	3920	0	0	0	0	50	0	334607	1	1	
CAPZB	811050	429	41	14203	3668	0	0	0	0	50	0	385161	1	1	
CARD10	985853	176	51	50750	15967	0	0	0	0	50	1	391930	1	1	
CARD11	635400	558	24	58653	16044	0	0	0	0	50	0	418285	1	1	
CARD14	674340	219	22	52948	15470	0	0	0	0	50	0	493584	1	1	
CARD16	NaN	NaN	NaN	10598	2674	0	0	0	0	50	2	782222	1	1	
CARD17	NaN	NaN	NaN	5663	1582	0	0	0	0	31	2	345065	1	1	
CARD18	46073	568	-18	4774	1148	0	0	0	0	50	1	384601	1	1	
CARD6	212186	526	19	51380	14224	0	0	0	0	50	0	380786	1	1	
CARD8	1052191	391	32	27622	7238	0	0	0	0	50	0	311906	1	1	
CARHSP1	401329	247	5	7196	2380	0	0	0	0	50	2	452585	1	1	
CARKD	504689	278	33	19264	6167	0	0	0	0	50	0	404761	1	1	
CARM1	2031768	193	35	30884	8743	0	0	0	0	50	0	338807	1	1	
CARNS1	1269888	177	51	44765	15904	0	0	0	0	50	1	407001	1	1	
CARS	547495	237	43	44499	10962	0	0	0	0	50	1	370986	1	1	
CARS2	532346	216	42	28630	8183	0	0	0	0	50	2	359261	1	1	
CARTPT	456944	601	19	5761	1778	0	0	0	0	50	0	346367	1	1	
CASC1	255116	633	18	40453	10157	0	0	0	0	50	0	406819	1	1	
CASC3	1537878	156	32	34874	10570	0	0	0	0	50	0	424452	1	1	
CASC4	973993	493	37	22617	5670	0	0	0	0	50	0	487543	1	1	
CASC5	958415	139	47	120162	29631	0	0	0	0	50	0	454468	1	1	
CASD1	446033	469	3	41328	10374	0	0	0	0	50	0	369054	1	1	
CASK	531097	NaN	45	48307	12320	0	0	0	0	50	0	491260	1	1	
CASKIN1	2179404	224	39	68572	23282	0	0	0	0	50	0	383964	1	1	
CASKIN2	1918292	195	25	57792	19509	0	0	0	0	50	2	437654	1	1	
CASP1	45435	622	-19	20930	5383	0	0	0	0	50	0	381094	1	1	
CASP10	590374	386	39	28910	8008	0	0	0	0	50	0	420168	1	1	
CASP14	990597	524	16	12404	3367	0	0	0	0	50	1	381976	1	1	
CASP2	379804	372	21	23247	6132	0	0	0	0	50	0	437374	1	1	
CASP3	281208	471	28	14553	3465	0	0	0	0	50	1	346752	1	1	
CASP4	45234	626	-20	19579	4949	0	0	0	0	50	0	420847	1	1	
CASP5	45234	626	-20	23128	5894	0	0	0	0	50	0	420847	1	1	
CASP6	211934	473	25	15211	3857	0	0	0	0	50	0	318878	1	1	

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CASP7	200770	587	0	19859	3598	0	0	0	0	50	0	411600	1	1	
CASP8	571730	386	37	29953	6776	0	0	0	0	50	0	429646	1	1	
CASP8AP2	326497	580	22	99491	25186	0	0	0	0	50	0	497679	1	1	
CASP9	636573	188	34	20874	6111	0	0	0	0	50	1	403487	1	1	
CASQ1	841605	386	29	20713	5138	0	0	0	0	50	0	374353	1	1	
CASQ2	287179	639	8	21168	4872	0	0	0	0	50	0	390866	1	1	
CASR	557700	602	41	53585	15442	0	0	0	0	50	2	446992	1	1	
CASS4	254881	551	-25	38521	11480	0	0	0	0	50	0	491281	1	1	
CAST	394245	345	33	43589	11515	0	0	0	0	50	0	353024	1	1	
CASZ1	809310	433	27	86625	25809	0	0	0	0	37	0	418103	1	1	
CAT	653478	256	23	27195	7119	0	0	0	0	50	0	393148	1	1	
CATSPER1	3854361	208	57	39459	10668	0	0	0	0	50	1	425138	1	1	
CATSPER2	774279	286	51	27818	7420	0	0	0	0	50	0	379449	1	1	
CATSPER3	725156	226	27	20580	5229	0	0	0	0	50	0	481299	1	1	
CATSPER4	896535	217	30	24031	6503	0	0	0	0	50	1	519274	1	1	
CATSPERB	394439	483	26	57771	14742	0	0	0	0	50	0	555842	1	1	
CATSPERG	1467279	253	0	59703	15729	0	0	0	0	8	0	71617	1	1	
CAV1	554882	159	0	9121	2366	0	0	0	0	50	1	346059	1	1	
CAV2	548426	187	-5	9478	1757	0	0	0	0	50	0	421127	1	1	
CAV3	99517	555	-9	7728	2100	0	0	0	0	50	0	384748	1	1	
CBARA1	473220	212	33	24752	6328	0	0	0	0	50	0	386225	1	1	
CBFA2T2	613808	148	52	30828	8883	0	0	0	0	50	1	343504	1	1	
CBFA2T3	967879	252	41	32109	10017	0	0	0	0	50	0	459914	1	1	
CBFB	1068656	125	48	10353	2562	0	0	0	0	50	0	400162	1	1	
CBL	1172813	183	53	45332	13069	0	0	0	0	50	1	445830	1	1	
CBLB	169365	628	0	49532	13909	0	0	0	0	50	0	422737	1	1	
CBLC	866184	178	-12	23646	7161	0	0	0	0	50	1	376579	1	1	
CBLL1	513169	515	28	24465	6951	0	0	0	0	50	1	394079	1	1	
CBLN1	6672	907	-33	9457	2933	0	0	0	0	50	0	362425	1	1	
CBLN2	12878	1030	-35	10836	3507	0	0	0	0	50	0	447979	1	1	
CBLN3	897133	265	40	9632	3514	0	0	0	0	50	0	507787	1	1	
CBLN4	236365	941	-74	9751	3143	0	0	0	0	50	0	376481	1	1	
CBR1	219580	318	66	13587	4095	0	0	0	0	50	2	408751	1	1	
CBR3	261889	232	56	13783	3941	0	0	0	0	50	1	388122	1	1	
CBR4	174340	258	16	11935	3395	0	0	0	0	50	0	320341	1	1	
CBS	428442	156	63	28105	8015	0	0	0	0	50	1	423780	1	1	
CBWD1	230380	398	-4	21833	5383	0	0	0	0	50	0	412188	1	1	
CBWD2	553274	555	22	21000	5124	0	0	0	0	50	0	365113	1	1	
CBWD3	114607	887	-9	41979	10290	0	0	0	0	50	0	598850	1	1	
CBWD5	176193	NaN	-8	18466	4487	0	0	0	0	50	1	455693	1	1	
CBWD6	NaN	NaN	NaN	20972	5152	0	0	0	0	50	2	784700	1	1	
CBX1	1205950	255	20	9695	2359	0	0	0	0	50	0	517496	1	1	
CBX2	633863	209	31	31283	9940	0	0	0	0	50	1	377916	1	1	
CBX3	915230	445	43	9765	2247	0	0	0	0	50	0	455077	1	1	
CBX4	647412	242	-2	27447	8232	0	0	0	0	50	0	426993	1	1	
CBX5	753625	205	59	10101	2331	0	0	0	0	50	1	392749	1	1	
CBX7	1063921	223	78	12558	3780	0	0	0	0	50	0	421316	1	1	
CBX8	633863	209	31	18844	6104	0	0	0	0	50	1	377916	1	1	
CBY1	1056349	262	45	6545	1792	0	0	0	0	18	0	163492	1	1	
CBY3	NaN	NaN	NaN	11704	3773	0	0	0	0	50	2	783321	1	1	

CC2D1A	930314	231	32	47866	14462	0	0	0	0	50	2	363461	1	1	
CC2D1B	815523	448	26	43260	12789	0	0	0	0	50	0	461433	1	1	
CC2D2A	163271	420	27	86947	22421	0	0	0	0	50	0	397516	1	1	
CC2D2B	515809	798	33	21091	5075	0	0	0	0	50	1	301112	1	1	
CCAR1	859993	256	45	59549	14980	0	0	0	0	50	0	478261	1	1	
CCBE1	257439	491	24	20608	5915	0	0	0	0	50	0	398552	1	1	
CCBL1	1706086	201	24	21910	5747	0	0	0	0	50	0	490693	1	1	
CCBL2	316278	598	5	23681	6055	0	0	0	0	50	0	394373	1	1	
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CCDC101	NaN	NaN	NaN	15057	4263	0	0	0	0	50	2	783811	1	1	
CCDC102A	771506	159	45	26915	8386	0	0	0	0	50	3	367283	1	1	
CCDC102B	70753	1048	-8	26607	6363	0	0	0	0	50	1	422310	1	1	
CCDC103	1101543	172	28	11942	3619	0	0	0	0	50	0	340074	1	1	
CCDC104	618209	382	27	18235	4172	0	0	0	0	50	2	383621	1	1	
CCDC105	990597	524	16	24661	7385	0	0	0	0	50	1	381976	1	1	
CCDC106	1077402	254	-10	14070	4053	0	0	0	0	50	0	335076	1	1	
CCDC107	1202125	248	37	13881	4368	0	0	0	0	50	1	408730	1	1	
CCDC108	872634	324	36	99477	27741	0	0	0	0	50	0	500675	1	1	
CCDC109A	635147	218	34	17654	5152	0	0	0	0	50	0	416353	1	1	
CCDC109B	211934	479	26	17304	4515	0	0	0	0	50	0	335629	1	1	
CCDC11	211344	300	35	26978	6097	0	0	0	0	50	0	371329	1	1	
CCDC110	173409	422	20	43120	9968	0	0	0	0	50	0	377538	1	1	
CCDC111	290265	471	30	29309	7042	0	0	0	0	50	1	421631	1	1	
CCDC112	273705	493	20	27741	6405	0	0	0	0	50	0	435708	1	1	
CCDC113	785059	347	15	19537	4991	0	0	0	0	50	0	368046	1	1	
CCDC114	1265470	217	34	33831	9534	0	0	0	0	50	1	365561	1	1	
CCDC115	360632	593	5	8946	2793	0	0	0	0	50	0	399840	1	1	
CCDC116	521773	194	37	29911	9107	0	0	0	0	50	0	382774	1	1	
CCDC117	571394	219	-10	14007	3969	0	0	0	0	50	1	449022	1	1	
CCDC12	489602	371	43	9387	2499	0	0	0	0	50	1	385091	1	1	
CCDC120	833689	NaN	41	31619	11263	0	0	0	0	50	0	426979	1	1	
CCDC121	1192074	306	43	21854	6013	0	0	0	0	50	0	566580	1	1	
CCDC122	139965	346	45	14469	3129	0	0	0	0	50	0	370552	1	1	
CCDC123	478721	448	-20	40565	10381	0	0	0	0	50	0	416332	1	1	
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CCDC126	389945	361	23	7014	1953	0	0	0	0	50	0	407890	1	1	
CCDC127	1040169	530	24	13111	3500	0	0	0	0	50	1	366863	1	1	
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CCDC130	767214	289	6	20181	5502	0	0	0	0	50	0	547666	1	1	
CCDC132	260737	785	8	51289	12656	0	0	0	0	50	0	467082	1	1	
CCDC134	1384410	199	52	11844	3150	0	0	0	0	50	0	368865	1	1	
CCDC135	712945	168	34	45059	11494	0	0	0	0	50	2	419853	1	1	
CCDC136	830283	310	35	59717	14476	0	0	0	0	50	0	451465	1	1	
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CCDC14	242712	450	20	45843	12642	0	0	0	0	50	0	452466	1	1	
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CCDC144A	1101297	499	-18	73948	17486	0	0	0	0	38	0	244440	1	1	
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CCDC147	281526	415	2	45605	10822	0	0	0	0	50	0	441357	1	1	
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CCDC150	165315	393	3	57932	13762	0	0	0	0	21	0	176421	1	1	
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CCDC155	2178574	290	37	28651	8414	0	0	0	0	50	0	422821	1	1	
CCDC157	696089	214	57	36967	11354	0	0	0	0	50	1	447454	1	1	
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CCDC160	217139	NaN	19	16653	3927	0	0	0	0	50	0	408324	1	1	
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CCDC18	657064	412	9	74263	17339	0	0	0	0	50	0	390453	1	1	
CCDC19	803074	403	7	28595	7147	0	0	0	0	50	0	295806	1	1	
CCDC21	958818	217	26	38717	10444	0	0	0	0	50	0	399000	1	1	
CCDC22	635975	NaN	35	31185	9723	0	0	0	0	50	0	440041	1	1	
CCDC23	820426	426	30	3591	798	0	0	0	0	21	0	194467	1	1	
CCDC24	875223	214	39	15337	4739	0	0	0	0	50	1	391258	1	1	
CCDC25	380493	229	27	11473	2366	0	0	0	0	50	0	517034	1	1	
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CCDC28A	402265	482	22	13839	3906	0	0	0	0	50	0	561267	1	1	
CCDC28B	1460758	218	29	10164	2919	0	0	0	0	50	0	426384	1	1	
CCDC3	202131	444	13	13258	3983	0	0	0	0	50	0	420448	1	1	
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CCDC33	604483	222	45	42497	12166	0	0	0	0	50	0	376887	1	1	
CCDC34	336836	378	-21	20692	5054	0	0	0	0	50	0	429296	1	1	
CCDC36	1812695	203	45	30296	7777	0	0	0	0	50	0	392385	1	1	
CCDC37	295496	600	35	31794	8106	0	0	0	0	50	0	383159	1	1	
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CCDC39	182757	1031	2	49476	11466	0	0	0	0	50	2	384573	1	1	
CCDC40	663665	237	27	57939	15708	0	0	0	0	50	0	460614	1	1	
CCDC41	181169	690	25	36820	8645	0	0	0	0	19	0	132951	1	1	
CCDC42	473874	604	17	16366	4109	0	0	0	0	50	0	379596	1	1	
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CCDC46	138097	778	-38	53382	12474	0	0	0	0	50	0	476581	1	1	
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CCDC50	100733	768	12	25249	6104	0	0	0	0	50	0	418754	1	1	
CCDC51	1401411	263	32	19922	6286	0	0	0	0	50	0	430773	1	1	
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CCDC55	605144	298	24	29260	6503	0	0	0	0	50	0	425964	1	1	
CCDC56	1633092	190	33	5075	1792	0	0	0	0	50	0	400561	1	1	
CCDC57	3405115	181	31	45682	13370	0	0	0	0	50	1	356258	1	1	
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CCDC59	53465	1263	-24	12572	2968	0	0	0	0	50	0	402668	1	1	
CCDC6	137718	555	0	24087	6510	0	0	0	0	50	2	395486	1	1	
CCDC60	151508	727	1	28483	7322	0	0	0	0	50	1	388031	1	1	
CCDC61	931670	261	36	26488	8204	0	0	0	0	50	1	401646	1	1	
CCDC62	1009828	184	40	36274	8939	0	0	0	0	50	0	477134	1	1	
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CCDC65	1696692	214	56	24976	6167	0	0	0	0	50	0	375977	1	1	
CCDC66	178940	477	24	49623	11718	0	0	0	0	50	0	352618	1	1	
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CCDC7	602870	482	2	26103	6006	0	0	0	0	50	0	322420	1	1	
CCDC70	353099	349	69	12047	2779	0	0	0	0	50	1	406651	1	1	
CCDC71	1855373	203	40	21700	7868	0	0	0	0	50	0	461853	1	1	
CCDC72	1401411	263	32	3640	749	0	0	0	0	2	0	13356	1	1	
CCDC73	408431	441	4	56588	12880	0	0	0	0	50	0	382732	1	1	
CCDC74A	455705	540	29	18893	5614	0	0	0	0	50	1	392469	1	1	
CCDC74B	348702	548	13	18970	5663	0	0	0	0	50	0	386659	1	1	
CCDC75	603425	281	27	14049	3003	0	0	0	0	50	1	376873	1	1	
CCDC76	293698	518	8	24990	6300	0	0	0	0	50	0	428050	1	1	
CCDC77	409007	372	27	25452	6279	0	0	0	0	50	0	390971	1	1	
CCDC78	1207790	194	33	22127	6622	0	0	0	0	50	2	442589	1	1	
CCDC79	NaN	NaN	NaN	38220	9051	0	0	0	0	50	2	788599	1	1	
CCDC8	1099113	393	25	25837	8120	0	0	0	0	50	0	409479	1	1	
CCDC80	255516	510	24	47145	13356	0	0	0	0	50	0	416773	1	1	
CCDC81	356405	283	12	33901	8414	0	0	0	0	50	0	430367	1	1	
CCDC82	272687	372	14	28539	6384	0	0	0	0	50	1	436674	1	1	
CCDC83	361760	380	3	23597	5362	0	0	0	0	50	0	388122	1	1	
CCDC84	1457410	180	55	17458	4403	0	0	0	0	50	0	368228	1	1	
CCDC85A	63834	739	-15	27391	7931	0	0	0	0	50	1	516985	1	1	
CCDC85B	3779084	287	42	9457	3332	0	0	0	0	50	1	388185	1	1	
CCDC85C	NaN	NaN	NaN	20237	6643	0	0	0	0	50	2	786191	1	1	
CCDC86	794900	522	47	17360	5635	0	0	0	0	50	1	430885	1	1	
CCDC87	1343990	194	62	40859	12733	0	0	0	0	50	0	393302	1	1	
CCDC88A	621554	341	27	97069	23555	0	0	0	0	28	1	203623	1	1	
CCDC88B	1610483	257	51	71911	23366	0	0	0	0	50	0	440104	1	1	
CCDC88C	271632	469	47	101220	29085	0	0	0	0	50	1	475258	1	1	
CCDC89	325720	554	-19	18683	4942	0	0	0	0	50	1	486185	1	1	
CCDC9	1350139	232	33	26635	7805	0	0	0	0	50	0	392287	1	1	
CCDC90A	276494	496	27	17983	5411	0	0	0	0	50	1	368508	1	1	
CCDC90B	308108	414	18	13433	3304	0	0	0	0	50	1	482265	1	1	
CCDC91	96900	922	-5	23205	5607	0	0	0	0	50	0	364595	1	1	
CCDC92	903375	539	36	16499	4753	0	0	0	0	50	0	368452	1	1	
CCDC93	195266	578	-2	33530	8218	0	0	0	0	50	1	369635	1	1	

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CCDC94	2132502	244	39	16520	4522	0	0	0	0	50	0	403298	1	1	
CCDC96	459652	426	70	27139	7931	0	0	0	0	50	1	379974	1	1	
CCDC97	1193025	249	33	17080	4928	0	0	0	0	50	3	324716	1	1	
CCDC99	96768	495	19	31458	7644	0	0	0	0	50	0	396802	1	1	
CCHCR1	3364017	401	19	43435	12929	0	0	0	0	50	0	292061	1	1	
CCIN	858124	257	46	28756	8393	0	0	0	0	50	0	458542	1	1	
CCK	338797	473	29	5670	1806	0	0	0	0	50	1	428169	1	1	
CCKAR	165749	636	36	21154	6209	0	0	0	0	50	0	389942	1	1	
CCKBR	466636	728	4	21070	7490	0	0	0	0	50	0	450765	1	1	
CCL1	40425	871	-32	5047	1274	0	0	0	0	50	0	392616	1	1	
CCL11	40425	871	-32	4949	1393	0	0	0	0	50	0	392616	1	1	
CCL13	40425	871	-32	5082	1365	0	0	0	0	50	0	392616	1	1	
CCL14	779228	525	19	5810	1414	0	0	0	0	50	0	419965	1	1	
CCL15	779228	525	19	5901	1533	0	0	0	0	50	0	419965	1	1	
CCL16	779228	525	19	6062	1771	0	0	0	0	50	0	419965	1	1	
CCL17	749108	159	39	4851	1386	0	0	0	0	50	1	361277	1	1	
CCL18	779228	525	19	4648	1232	0	0	0	0	50	0	419965	1	1	
CCL19	731413	298	51	4998	1491	0	0	0	0	50	0	319746	1	1	
CCL2	26189	889	-12	5159	1351	0	0	0	0	18	2	231721	1	1	
CCL20	161901	296	7	5145	1260	0	0	0	0	50	0	366051	1	1	
CCL21	712216	220	49	6867	1932	0	0	0	0	50	1	363580	1	1	
CCL22	716661	153	38	4781	1351	0	0	0	0	50	1	380786	1	1	
CCL23	779228	525	19	7077	1911	0	0	0	0	50	0	419965	1	1	
CCL24	1013258	255	46	6034	1652	0	0	0	0	50	1	483896	1	1	
CCL25	954819	369	13	7756	2093	0	0	0	0	50	1	302309	1	1	
CCL26	1012112	255	51	4942	1295	0	0	0	0	50	1	333928	1	1	
CCL27	731413	298	51	5789	1624	0	0	0	0	50	0	319746	1	1	
CCL28	500147	320	6	6601	1673	0	0	0	0	50	0	493437	1	1	
CCL3	744143	565	28	4802	1267	0	0	0	0	1	0	2576	1	1	
CCL3L1	NaN	NaN	NaN	9772	2576	0	0	0	0	50	2	782124	1	1	
CCL3L3	691971	684	13	9772	2576	0	0	0	0	50	0	408205	1	1	
CCL4	744143	565	28	4760	1309	0	0	0	0	1	0	2576	1	1	
CCL4L1	NaN	NaN	NaN	9436	2702	0	0	0	0	50	2	782250	1	1	
CCL4L2	691971	684	13	9436	2702	0	0	0	0	50	0	408205	1	1	
CCL5	661778	235	20	4669	1337	0	0	0	0	50	0	386484	1	1	
CCL7	26189	889	-12	5173	1337	0	0	0	0	18	2	231721	1	1	
CCL8	40425	871	-32	5117	1351	0	0	0	0	50	0	392616	1	1	
CCM2	1090292	235	55	24087	6741	0	0	0	0	50	0	443926	1	1	
CCNA1	197057	880	1	23296	6734	0	0	0	0	50	1	414743	1	1	
CCNA2	324357	506	29	21784	6083	0	0	0	0	50	1	426433	1	1	
CCNB1	420987	273	30	21819	6195	0	0	0	0	50	1	436037	1	1	
CCNB1IP1	393743	401	-18	14070	3696	0	0	0	0	50	0	376698	1	1	
CCNB2	748599	329	34	20363	5446	0	0	0	0	50	0	457947	1	1	
CCNB3	45831	NaN	1	70378	18494	0	0	0	0	50	0	420763	1	1	
CCNC	239824	619	10	15393	3423	0	0	0	0	50	1	430493	1	1	
CCND1	441431	536	41	14805	4179	0	0	0	0	50	1	401597	1	1	
CCND2	305146	860	35	14476	4130	0	0	0	0	50	0	371371	1	1	
CCND3	467876	186	41	14245	4550	0	0	0	0	50	1	358939	1	1	
CCNDBP1	843516	333	42	18676	4949	0	0	0	0	50	0	440139	1	1	
CCNE1	167528	609	-33	21511	5348	0	0	0	0	50	1	489937	1	1	

CCNE2	424520	389	43	21315	5124	0	0	0	0	50	2	394814	1	1	
CCNF	2161773	309	44	39627	11340	0	0	0	0	50	0	399336	1	1	
CCNG1	226025	696	12	15071	4039	0	0	0	0	50	0	363349	1	1	
CCNG2	421623	562	33	17731	4550	0	0	0	0	50	0	371007	1	1	
CCNH	125767	837	8	16870	4214	0	0	0	0	50	0	427658	1	1	
CCNI	394078	520	52	19061	5257	0	0	0	0	50	1	326788	1	1	
CCNI2	717412	356	59	18396	5418	0	0	0	0	50	0	338380	1	1	
CCNJ	518423	857	35	19271	5341	0	0	0	0	50	2	337764	1	1	
CCNJL	197942	448	33	21511	6461	0	0	0	0	50	0	514073	1	1	
CCNK	345332	429	2	28896	8547	0	0	0	0	50	0	404901	1	1	
CCNL1	365148	610	22	26488	7553	0	0	0	0	50	0	403543	1	1	
CCNL2	1736268	273	28	26292	7917	0	0	0	0	50	1	412650	1	1	
CCNO	217401	417	22	16632	5649	0	0	0	0	50	0	396851	1	1	
CCNT1	1705947	328	30	36309	10206	0	0	0	0	50	1	337064	1	1	
CCNT2	288841	434	22	37275	9492	0	0	0	0	50	0	415996	1	1	
CCNY	158899	591	2	17619	4683	0	0	0	0	50	1	380926	1	1	
CCNYL1	330620	210	26	18711	4725	0	0	0	0	50	1	467474	1	1	
CCPG1	267069	396	11	39074	9268	0	0	0	0	50	0	478667	1	1	
CCR1	211405	639	48	17297	5215	0	0	0	0	50	0	311500	1	1	
CCR10	1740597	177	36	16485	6510	0	0	0	0	50	1	431606	1	1	
CCR2	228487	625	39	20531	6202	0	0	0	0	50	0	295141	1	1	
CCR3	212198	634	46	18410	5509	0	0	0	0	50	0	290381	1	1	
CCR4	511282	469	17	17703	5124	0	0	0	0	50	0	330407	1	1	
CCR5	243983	625	36	17332	4991	0	0	0	0	50	0	339521	1	1	
CCR6	149346	696	40	18515	5278	0	0	0	0	50	0	419818	1	1	
CCR7	1130946	203	25	18620	5467	0	0	0	0	50	0	354900	1	1	
CCR8	159083	507	38	17619	4893	0	0	0	0	50	1	428729	1	1	
CCR9	222879	519	54	18501	4977	0	0	0	0	50	0	349363	1	1	
CCRL1	210898	768	21	17381	4816	0	0	0	0	50	0	443513	1	1	
CCRL2	243983	625	36	17528	5047	0	0	0	0	50	0	339521	1	1	
CCRN4L	332509	361	32	20909	6475	0	0	0	0	50	2	371392	1	1	
CCS	1343990	194	62	13895	4060	0	0	0	0	50	0	393302	1	1	
CCT2	484023	382	5	27482	7588	0	0	0	0	50	1	462945	1	1	
CCT3	2232742	187	30	27867	7623	0	0	0	0	50	0	451150	1	1	
CCT4	688730	226	34	27090	8022	0	0	0	0	50	0	403543	1	1	
CCT5	623675	325	5	27545	7441	0	0	0	0	50	0	550753	1	1	
CCT6A	738325	642	4	27083	7525	0	0	0	0	50	0	477064	1	1	
CCT6B	268361	579	-14	27076	7511	0	0	0	0	50	0	365974	1	1	
CCT7	536944	452	20	27321	7875	0	0	0	0	50	0	338401	1	1	
CCT8	316438	178	79	28126	7679	0	0	0	0	50	1	422184	1	1	
CCT8L2	107592	852	-83	26348	8806	0	0	0	0	50	0	370006	1	1	
CD101	765941	540	24	50911	14273	0	0	0	0	50	0	550522	1	1	
CD109	706356	215	15	73941	19845	0	0	0	0	50	0	400470	1	1	
CD14	774470	356	31	17451	6321	0	0	0	0	50	0	408716	1	1	
CD151	1799017	232	51	12943	3647	0	0	0	0	50	0	368949	1	1	
CD160	NaN	NaN	NaN	9289	2513	0	0	0	0	50	2	782061	1	1	
CD163	665695	608	13	58625	15610	0	0	0	0	50	0	422702	1	1	
CD163L1	931883	567	13	73451	19789	0	0	0	0	50	1	404460	1	1	
CD164	347811	446	41	10752	3171	0	0	0	0	50	1	418383	1	1	
CD164L2	847257	188	26	8848	2492	0	0	0	0	50	0	364287	1	1	

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CD177	345698	182	-48	21847	6461	0	0	0	0	50	0	440286	1	1	
CD180	36320	392	14	32865	9009	0	0	0	0	50	0	393043	1	1	
CD19	1189140	257	55	28287	8085	0	0	0	0	50	0	432040	1	1	
CD1A	120861	833	3	16576	4508	0	0	0	0	50	1	354753	1	1	
CD1B	128145	833	4	16695	4767	0	0	0	0	50	1	375508	1	1	
CD1C	120861	833	3	16828	4634	0	0	0	0	50	1	354753	1	1	
CD1D	120333	711	8	16765	4823	0	0	0	0	50	0	530887	1	1	
CD1E	135429	902	5	19852	5075	0	0	0	0	50	1	324499	1	1	
CD2	697845	431	21	17773	4781	0	0	0	0	50	1	461580	1	1	
CD200	260383	621	20	14812	4277	0	0	0	0	50	0	371070	1	1	
CD200R1	245141	639	11	18725	4795	0	0	0	0	50	0	466900	1	1	
CD200R1L	240755	616	6	13706	3850	0	0	0	0	50	1	437514	1	1	
CD207	596622	629	24	16681	4508	0	0	0	0	50	0	330876	1	1	
CD209	719851	329	21	20538	5523	0	0	0	0	50	0	482027	1	1	
CD22	767113	472	9	43043	11473	0	0	0	0	50	0	335783	1	1	
CD226	64726	630	40	17213	4522	0	0	0	0	50	0	320166	1	1	
CD24	NaN	NaN	NaN	3654	1449	0	0	0	0	31	2	344932	1	1	
CD244	1118846	583	28	19061	4984	0	0	0	0	50	1	350504	1	1	
CD247	478690	558	10	8764	2219	0	0	0	0	50	0	414841	1	1	
CD248	2133752	236	53	35721	12075	0	0	0	0	50	0	481383	1	1	
CD27	2702142	198	50	13244	3619	0	0	0	0	50	1	528465	1	1	
CD274	348920	629	23	15015	3822	0	0	0	0	50	0	426979	1	1	
CD276	312591	374	29	26369	8092	0	0	1	0	50	2	395290	1	1	
CD28	320806	477	19	11123	3052	0	0	0	0	50	1	456372	1	1	
CD2AP	203824	554	16	33047	8701	0	0	0	0	50	0	413350	1	1	
CD2BP2	2312884	165	47	17178	4872	0	0	0	0	50	0	374290	1	1	
CD300A	491117	504	7	14987	4417	0	0	0	0	50	0	358050	1	1	
CD300C	698491	504	10	11067	3360	0	0	0	0	50	0	389466	1	1	
CD300E	876565	484	14	10255	3059	0	0	0	0	50	1	348999	1	1	
CD300LB	698491	504	10	12096	3255	0	0	0	0	50	0	389466	1	1	
CD300LD	698491	504	10	13027	3794	0	0	0	0	50	0	389466	1	1	
CD300LF	NaN	NaN	NaN	14686	4172	0	0	0	0	50	2	783720	1	1	
CD300LG	1025836	241	19	18347	5635	0	0	0	0	50	1	427504	1	1	
CD302	361333	405	34	12166	2975	0	0	0	0	50	1	384727	1	1	
CD320	778783	209	14	13699	4508	0	0	0	0	50	0	451171	1	1	
CD33	352763	629	1	18277	5495	0	0	0	0	50	0	441238	1	1	
CD34	320873	450	22	19271	5992	0	0	0	0	50	0	571802	1	1	
CD36	120451	351	-28	24472	6377	0	0	0	0	50	0	375760	1	1	
CD37	2183690	309	30	14273	4081	0	0	0	0	50	0	424781	1	1	
CD38	174323	327	55	15589	3962	0	0	0	0	50	1	354956	1	1	
CD3D	963668	192	48	8694	2520	0	0	0	0	50	1	410221	1	1	
CD3E	805791	211	41	11039	2737	0	0	0	0	50	0	418166	1	1	
CD3EAP	1259254	191	39	24668	7735	0	0	0	0	50	0	428813	1	1	
CD3G	963668	192	48	9702	2373	0	0	0	0	50	1	410221	1	1	
CD4	2819394	232	40	23177	6496	0	0	0	0	50	1	390152	1	1	
CD40	559725	526	55	15092	3136	0	0	0	0	50	1	273672	1	1	
CD40LG	314961	NaN	37	13475	3409	0	0	0	0	50	0	377111	1	1	
CD44	685695	222	28	39130	9107	0	0	0	0	50	0	344456	1	1	
CD46	321738	372	8	22344	5166	0	0	0	0	50	0	392847	1	1	
CD47	288227	650	5	16856	4480	0	0	0	0	50	0	426916	1	1	

CD48	1156068	634	26	12355	3311	0	0	0	0	50	1	346675	1	1	
CD52	1021101	217	22	3192	840	0	0	0	0	44	0	260967	1	1	
CD53	424743	764	24	11354	3094	0	0	0	0	50	1	432775	1	1	
CD55	500581	191	20	22540	6083	0	0	0	0	50	0	357770	1	1	
CD58	692758	418	19	12971	3304	0	0	0	0	50	0	432621	1	1	
CD59	755929	424	15	6636	1743	0	0	0	0	50	1	377237	1	1	
CD5L	116471	778	28	17500	4844	0	0	0	0	50	1	428666	1	1	
CD6	802735	546	56	33418	9737	0	0	0	0	50	1	496265	1	1	
CD63	1814311	384	26	12264	3381	0	0	0	0	50	1	313544	1	1	
CD68	1957426	194	24	17297	5488	0	0	0	0	50	2	432103	1	1	
CD69	226318	648	33	10493	2485	0	0	0	0	50	0	356489	1	1	
CD7	2856070	193	24	11389	4046	0	0	0	0	50	0	390390	1	1	
CD70	836909	212	21	9261	3129	0	0	0	0	50	1	332045	1	1	
CD72	1202125	248	37	18340	5012	0	0	0	0	50	1	408730	1	1	
CD74	949599	212	40	15638	3829	0	0	0	0	50	0	472570	1	1	
CD79A	1360684	454	23	11424	3213	0	0	0	0	50	0	367675	1	1	
CD80	290702	599	38	14728	3899	0	0	0	0	50	0	380982	1	1	
CD81	911893	584	36	12201	3318	0	0	0	0	50	0	368970	1	1	
CD82	211161	551	20	13874	3682	0	0	0	0	50	0	361354	1	1	
CD83	210380	594	40	10367	2947	0	0	0	0	50	0	363321	1	1	
CD84	1164343	634	35	17899	4529	0	0	0	0	50	1	430402	1	1	
CD86	557964	715	39	17101	4193	0	0	0	0	50	1	368592	1	1	
CD8A	330931	543	19	11529	3759	0	0	0	0	50	1	465038	1	1	
CD8B	330931	543	19	15806	3745	0	0	0	0	50	1	465038	1	1	
CD9	2261351	277	32	12005	3010	0	0	0	0	50	0	476581	1	1	
CD93	199022	554	-50	31192	10031	0	0	0	0	50	1	404845	1	1	
CD96	186134	406	-16	30282	7812	0	0	0	0	50	0	402052	1	1	
CD97	996589	183	32	42364	11900	0	0	0	0	50	0	369544	1	1	
CD99	NaN	NaN	NaN	9933	2541	0	0	0	0	50	2	782089	1	1	
CD99L2	287647	NaN	12	13755	3654	0	0	0	0	50	0	387275	1	1	
CDA	631461	208	35	7497	2016	0	0	0	0	50	0	429954	1	1	
CDADC1	329994	399	53	26719	6482	0	0	0	0	50	0	419517	1	1	
CDAN1	610808	453	26	60466	19166	0	0	0	0	50	0	399112	1	1	
CDC123	328303	227	34	18109	4151	0	0	0	0	50	0	352422	1	1	
CDC14A	387265	622	6	32739	8736	0	0	0	0	50	0	383313	1	1	
CDC14B	351543	349	27	26796	6804	0	0	0	0	50	1	432985	1	1	
CDC16	612511	283	46	32746	7889	0	0	0	0	50	0	426573	1	1	
CDC20	1088321	252	27	25095	7287	0	0	0	0	50	0	436226	1	1	
CDC20B	222731	430	2	26446	7238	0	0	0	0	50	0	435183	1	1	
CDC23	1127160	314	50	30898	8078	0	0	0	0	50	0	391545	1	1	
CDC25A	1116598	151	36	27055	7196	0	0	0	0	50	1	467635	1	1	
CDC25B	860065	241	43	29519	8344	0	0	0	0	50	0	472983	1	1	
CDC25C	1312427	273	36	24836	6118	0	0	0	0	50	2	442134	1	1	
CDC26	426351	312	26	4431	1155	0	0	0	0	37	0	250376	1	1	
CDC27	955548	395	18	42672	11193	0	0	0	0	50	0	428631	1	1	
CDC34	1647685	255	-8	11928	3339	0	0	0	0	50	1	369012	1	1	
CDC37	1956832	207	38	19761	4704	0	0	0	0	50	0	462028	1	1	
CDC37L1	228353	608	21	17724	4074	0	0	0	0	50	0	373121	1	1	
CDC40	132627	636	19	30324	7434	0	0	0	0	50	0	405643	1	1	
CDC42	441481	155	28	11256	3192	0	0	0	0	50	1	461524	1	1	

CDC42BPA	290976	481	-2	88767	22533	0	0	0	0	50	1	417634	1	1	
CDC42BPB	824377	286	43	87164	23716	0	0	0	0	50	0	395626	1	1	
CDC42BPG	2740031	204	61	76573	24227	0	0	0	0	50	0	525126	1	1	
CDC42EP1	991778	176	51	18361	6419	0	0	0	0	50	1	395339	1	1	
CDC42EP2	3946871	242	49	9947	3346	0	0	0	0	50	1	407722	1	1	
CDC42EP3	477159	404	31	12439	3626	0	0	0	0	50	1	431739	1	1	
CDC42EP4	193467	212	-15	16996	5495	0	0	0	0	50	0	455707	1	1	
CDC42EP5	NaN	NaN	NaN	6832	2639	0	0	0	0	50	2	782187	1	1	
CDC42SE1	1614665	165	40	4249	1043	0	0	0	0	50	0	400533	1	1	
CDC42SE2	313468	414	34	4536	1071	0	0	0	0	50	1	359247	1	1	
CDC45	710221	298	19	31437	7959	0	0	0	0	50	0	441196	1	1	
CDC5L	958127	443	34	41139	10710	0	0	0	0	50	0	371350	1	1	
CDC6	1480458	191	23	28427	7840	0	0	0	0	50	0	361165	1	1	
CDC7	269978	454	-6	29610	7623	0	0	0	0	50	0	386526	1	1	
CDC73	285984	442	-12	27559	7301	0	0	0	0	50	0	354788	1	1	
CDCA2	178565	618	22	51667	13979	0	0	0	0	50	0	407519	1	1	
CDCA3	2822601	232	32	13258	4109	0	0	0	0	50	1	406280	1	1	
CDCA4	854493	205	30	11753	3661	0	0	0	0	50	0	502460	1	1	
CDCA5	3267059	207	46	12481	3878	0	0	0	0	50	0	402752	1	1	
CDCA7	255854	559	28	23114	6055	0	0	0	0	50	1	425460	1	1	
CDCA7L	687019	581	-1	23345	6076	0	0	0	0	50	0	469322	1	1	
CDCA8	445023	375	27	14546	3997	0	0	0	0	50	1	379841	1	1	
CDCP1	513877	326	46	41419	12110	0	0	0	0	50	1	414869	1	1	
CDCP2	465615	313	26	21840	6762	0	0	0	0	50	0	361431	1	1	
CDH1	924096	240	30	44072	12817	0	0	0	0	50	2	357217	1	1	
CDH10	30232	737	-29	39494	11053	0	0	0	0	50	1	377944	1	1	
CDH11	23628	1085	-56	39921	11130	0	0	0	0	50	0	328867	1	1	
CDH12	127633	1075	-20	39802	11123	0	0	0	0	50	1	404495	1	1	
CDH13	94658	929	-26	35651	10423	0	0	0	0	50	0	471310	1	1	
CDH15	1307930	254	38	39634	12845	0	0	0	0	50	1	407428	1	1	
CDH16	942986	142	34	41160	12558	0	0	0	0	50	0	423577	1	1	
CDH17	474043	543	18	42350	11557	0	0	0	0	50	0	424725	1	1	
CDH18	4731	1195	-17	40096	10577	0	0	0	0	50	1	488726	1	1	
CDH19	6200	1015	-45	39263	10276	0	0	0	0	50	0	403795	1	1	
CDH2	43239	931	-16	45626	12775	0	0	0	0	50	1	409157	1	1	
CDH22	553454	583	44	40243	12824	0	0	0	0	50	2	422289	1	1	
CDH24	1261207	185	41	39578	13006	0	0	0	0	50	0	424186	1	1	
CDH26	73597	856	-36	42322	12005	0	0	0	0	50	0	395423	1	1	
CDH3	777628	299	24	41503	12047	0	0	0	0	50	0	539602	1	1	
CDH4	437973	867	-61	45647	13426	0	0	0	0	50	1	351400	1	1	
CDH5	479049	262	-20	39179	11200	0	0	0	0	50	2	435540	1	1	
CDH6	133952	902	-26	39606	11067	0	0	0	0	50	0	415240	1	1	
CDH7	4645	524	-49	39417	10983	0	0	0	0	50	1	441441	1	1	
CDH8	3859	1301	-48	40054	11186	0	0	0	0	50	0	542255	1	1	
CDH9	39282	1140	-26	40194	10500	0	0	0	0	50	0	446803	1	1	
CDHR1	216191	860	-17	46025	13699	0	0	0	0	50	0	497385	1	1	
CDHR2	593410	318	45	65653	19586	0	0	0	0	50	0	389305	1	1	
CDHR3	337002	408	29	44702	12628	0	0	0	0	50	0	462140	1	1	
CDHR4	1306720	191	39	39480	11823	0	0	0	0	50	0	428225	1	1	
CDIPT	NaN	NaN	NaN	10724	3178	0	0	0	0	50	2	782726	1	1	

CDK1	109701	396	-21	15547	4025	0	0	0	0	50	0	348537	1	1	
CDK11A	NaN	NaN	NaN	41251	10220	0	0	0	0	50	2	789768	1	1	
CDK11B	1569768	214	33	41482	10262	0	0	0	0	50	0	348663	1	1	
CDK12	1409087	239	28	73290	21735	0	0	0	0	50	0	419923	1	1	
CDK13	221361	636	14	74137	22274	0	0	0	0	50	0	550550	1	1	
CDK14	127937	1027	7	23359	6209	0	0	0	0	50	2	456736	1	1	
CDK15	391799	588	32	19971	5376	0	0	0	0	50	1	424690	1	1	
CDK16	819569	NaN	38	29085	8526	0	0	0	0	50	0	325941	1	1	
CDK17	248700	405	26	27986	7126	0	0	0	0	50	0	393120	1	1	
CDK18	679311	268	34	25809	7266	0	0	0	0	50	0	406497	1	1	
CDK19	322538	480	29	26082	6657	0	0	1	0	40	1	325682	1	1	
CDK2	2080397	229	31	14889	4452	0	0	0	0	50	0	399000	1	1	
CDK20	207783	628	5	18970	4298	0	0	0	0	50	1	421057	1	1	
CDK2AP1	1014179	201	29	5887	1673	0	0	0	0	50	0	418572	1	1	
CDK2AP2	1392213	215	53	6258	1995	0	0	0	0	50	0	303898	1	1	
CDK3	1639614	194	22	15393	4473	0	0	0	0	50	0	487046	1	1	
CDK4	1160849	344	39	15050	4690	0	0	0	0	50	1	396711	1	1	
CDK5	622098	373	41	15225	4158	0	0	0	0	50	0	494340	1	1	
CDK5R1	636808	587	14	14721	4683	0	0	0	0	50	0	396830	1	1	
CDK5R2	922162	386	35	17010	6174	0	0	0	0	50	0	365666	1	1	
CDK5RAP1	464431	395	39	29869	8267	0	0	0	0	50	0	452130	1	1	
CDK5RAP2	386697	450	10	97377	25053	0	0	0	0	50	0	452879	1	1	
CDK5RAP3	1183803	203	21	25928	7147	0	0	0	0	50	0	420252	1	1	
CDK6	697669	464	26	16415	4690	0	0	0	0	50	0	416542	1	1	
CDK7	423022	261	47	18067	4718	0	0	0	0	50	0	384272	1	1	
CDK8	96507	578	22	24318	6027	0	0	0	0	50	0	394163	1	1	
CDK9	1194942	179	58	18886	5117	0	0	0	0	50	0	477190	1	1	
CDKAL1	132584	883	10	29848	7868	0	0	0	0	50	0	420483	1	1	
CDKL1	655106	279	33	18585	4788	0	0	0	0	50	0	487816	1	1	
CDKL2	485383	451	31	25627	6419	0	0	0	0	50	0	439551	1	1	
CDKL3	910029	148	49	30870	7539	0	0	0	0	50	2	448042	1	1	
CDKL4	391680	375	16	16380	4116	0	0	0	0	50	2	436772	1	1	
CDKL5	66108	NaN	25	52458	14133	0	0	0	0	50	0	366009	1	1	
CDKN1A	904665	228	37	7938	2625	0	0	0	0	50	1	364161	1	1	
CDKN1B	791330	136	44	9968	2737	0	0	0	0	50	2	399378	1	1	
CDKN1C	552601	256	34	14791	5516	0	0	0	0	50	0	420994	1	1	
CDKN2A	225405	357	-15	16695	4347	0	0	0	0	50	0	432607	1	1	
CDKN2AIP	235218	163	16	28189	8582	0	0	0	0	50	1	363265	1	1	
CDKN2AIPNL	929843	170	46	6006	1575	0	0	0	0	15	0	98938	1	1	
CDKN2B	192919	212	-21	7714	2870	0	0	0	0	50	0	397313	1	1	
CDKN2C	290894	417	2	8316	2499	0	0	0	0	50	0	449176	1	1	
CDKN2D	2036812	226	23	7917	2772	0	0	0	0	50	2	439054	1	1	
CDKN3	332892	474	6	11151	2856	0	0	0	0	50	0	374878	1	1	
CDNF	256031	306	32	9583	2555	0	0	0	0	50	0	386561	1	1	
CDO1	384075	759	1	10437	2562	0	0	0	0	50	0	456806	1	1	
CDON	611194	249	10	63084	18207	0	0	0	0	50	1	532175	1	1	
CDR1	18661	NaN	-31	13265	3304	0	0	0	0	50	0	385595	1	1	
CDR2	483001	235	50	22855	6146	0	0	0	0	50	0	358540	1	1	
CDR2L	1078189	171	28	22764	6930	0	0	0	0	50	0	317884	1	1	
CDRT1	464501	419	-27	38206	10157	0	0	0	0	50	0	378714	1	1	

CDRT15	96214	975	-61	9093	2940	0	0	0	0	50	0	295442	1	1	
CDRT4	405431	452	-68	7665	2079	0	0	0	0	18	0	83993	1	1	
CDS1	94589	895	5	23863	6251	0	0	0	0	50	1	369341	1	1	
CDS2	500170	482	24	22988	6118	0	0	0	0	50	0	357287	1	1	
CDSN	NaN	NaN	NaN	25207	8309	0	0	0	0	50	2	787857	1	1	
CDT1	813333	189	51	26565	8694	0	0	0	0	50	1	405188	1	1	
CDV3	391516	327	36	13412	3619	0	0	0	0	50	0	427651	1	1	
CDX1	1002307	228	49	12670	4298	0	0	0	0	50	1	391069	1	1	
CDX2	309835	614	47	15071	4879	0	0	0	0	50	0	360311	1	1	
CDX4	221528	NaN	-13	14049	4053	0	0	0	0	50	0	317800	1	1	
CDY1	NaN	NaN	NaN	55832	15484	0	0	0	0	50	2	795032	1	1	
CDY1B	NaN	NaN	NaN	55832	15484	0	0	0	0	50	2	795032	1	1	
CDY2A	NaN	NaN	NaN	53606	14854	0	0	0	0	50	2	794402	1	1	
CDY2B	NaN	NaN	NaN	53606	14854	0	0	0	0	50	2	794402	1	1	
CDYL	116037	445	26	27377	7462	0	0	0	0	50	0	434931	1	1	
CDYL2	161731	507	-16	25298	7147	0	0	0	0	50	2	528087	1	1	
CEACAM1	495357	380	5	27881	8029	0	0	0	0	50	1	472997	1	1	
CEACAM16	812266	188	-22	20559	6783	0	0	0	0	50	1	412195	1	1	
CEACAM18	393294	583	17	19824	5649	0	0	0	0	50	0	460614	1	1	
CEACAM19	749323	335	-51	15078	4473	0	0	0	0	50	0	355474	1	1	
CEACAM20	761897	511	-61	29750	8890	0	0	0	0	50	1	576730	1	1	
CEACAM21	1044508	451	31	14784	4242	0	0	0	0	50	0	398755	1	1	
CEACAM3	1360684	454	23	12642	3843	0	0	0	0	50	0	367675	1	1	
CEACAM4	1249321	499	27	12103	3836	0	0	0	0	50	1	469210	1	1	
CEACAM5	1341589	499	16	34776	10269	0	0	0	0	50	0	383355	1	1	
CEACAM6	1341589	499	16	17010	5145	0	0	0	0	50	0	383355	1	1	
CEACAM7	1249321	499	27	13328	3808	0	0	0	0	50	1	469210	1	1	
CEACAM8	495357	380	5	17297	5215	0	0	0	0	50	1	472997	1	1	
CEBPA	355217	510	-9	16856	5761	0	0	0	0	50	0	467530	1	1	
CEBPB	598211	143	41	16289	5509	0	0	0	0	50	0	358596	1	1	
CEBPD	918236	460	15	12712	4340	0	0	0	0	50	1	341831	1	1	
CEBPE	1261207	185	41	13468	4382	0	0	0	0	50	0	424186	1	1	
CEBPG	302640	510	-21	7574	2023	0	0	0	0	50	1	469770	1	1	
CEBPZ	488101	253	42	54705	13104	0	0	0	0	50	1	320054	1	1	
CECR1	305072	574	-55	26642	7000	0	0	0	0	50	1	593138	1	1	
CECR2	424899	390	-46	71708	20671	0	0	0	0	50	0	381864	1	1	
CECR5	305072	574	-55	21539	6643	0	0	0	0	50	1	593138	1	1	
CECR6	244431	574	-79	26320	10157	0	0	0	0	50	0	540281	1	1	
CEL	1828532	402	50	36813	11802	0	0	0	0	50	0	358057	1	1	
CELA1	504747	239	33	13160	3787	0	0	0	0	50	0	375648	1	1	
CELA2A	554165	212	29	13671	4011	0	0	0	0	50	1	482258	1	1	
CELA2B	636573	188	34	13755	3927	0	0	0	0	50	1	403487	1	1	
CELA3A	448600	190	29	13846	3899	0	0	0	0	50	1	433097	1	1	
CELA3B	448600	190	29	13734	3969	0	0	0	0	50	1	433097	1	1	
CELF1	1011926	219	40	26789	6832	0	0	0	0	50	1	468314	1	1	
CELF2	96767	864	5	27937	7490	0	0	0	0	50	1	375725	1	1	
CELF3	1210719	255	29	23996	6496	0	0	0	0	50	2	348173	1	1	
CELF4	55294	588	-11	25144	6545	0	0	0	0	50	2	514591	1	1	
CELF5	903046	241	39	25109	6580	0	0	0	0	50	0	525049	1	1	
CELF6	1128261	260	47	24122	7294	0	0	0	0	50	0	482552	1	1	

CELSR2	994135	287	31	141834	45192	0	0	0	0	50	0	409731	1	1	
CEMP1	2085452	321	49	13489	3710	0	0	0	0	50	0	413910	1	1	
CEND1	1788356	193	48	7098	2436	0	0	0	0	50	0	376684	1	1	
CENPA	1334693	378	40	7000	2219	0	0	0	0	50	2	423598	1	1	
CENPB	860065	241	43	28826	8974	0	0	0	0	50	0	472983	1	1	
CENPBD1	1056657	221	35	9289	2555	0	0	0	0	50	0	322357	1	1	
CENPC1	128864	689	7	48804	12180	0	0	0	0	50	0	507864	1	1	
CENPE	344088	569	3	141806	32494	0	0	0	0	50	0	398902	1	1	
CENPF	457503	186	-7	158753	39088	0	0	0	0	11	0	102102	1	1	
CENPH	422005	232	38	13398	2940	0	0	0	0	50	0	374717	1	1	
CENPI	426524	NaN	26	39648	9765	0	0	0	0	50	0	451885	1	1	
CENPJ	481837	639	18	68726	16975	0	0	0	0	50	0	347207	1	1	
CENPK	424356	444	25	14455	3311	0	0	0	0	50	0	478898	1	1	
CENPL	441912	417	9	19579	5474	0	0	0	0	50	1	545692	1	1	
CENPM	1335011	323	67	9786	2919	0	0	0	0	50	0	314594	1	1	
CENPN	231500	284	4	21518	5257	0	0	0	0	50	0	424613	1	1	
CENPO	299133	374	39	15239	4312	0	0	0	0	50	0	343994	1	1	
CENPP	558433	574	45	14917	3920	0	0	0	0	50	1	398797	1	1	
CENPQ	64168	1198	-6	14252	3367	0	0	0	0	50	1	360759	1	1	
CENPT	1039476	143	49	27615	8799	0	0	0	0	50	0	398153	1	1	
CENPV	881521	169	4	13461	4116	0	0	0	0	50	1	326942	1	1	
CEP110	610711	365	34	120533	29491	0	0	0	0	50	0	555107	1	1	
CEP120	173569	467	12	50624	13237	0	0	0	0	50	0	426216	1	1	
CEP135	585468	376	18	59416	14567	0	0	0	0	50	0	453516	1	1	
CEP152	418237	340	6	85862	20545	0	0	0	0	50	0	438781	1	1	
CEP164	440623	360	35	74214	20433	0	0	0	0	50	0	368795	1	1	
CEP170	180288	1024	0	80010	22071	0	0	0	0	32	0	261716	1	1	
CEP192	326004	417	52	128359	35231	0	0	0	0	49	0	450282	1	1	
CEP250	1521661	167	53	122024	34510	0	0	0	0	50	0	384321	1	1	
CEP290	150984	429	-18	130795	29897	0	0	0	0	50	0	385182	1	1	
CEP350	446036	211	16	158011	41531	0	0	0	0	30	0	228403	1	1	
CEP55	458453	249	17	23961	6006	0	0	0	0	50	0	454867	1	1	
CEP57	298879	467	2	26061	6342	0	0	0	0	50	1	492170	1	1	
CEP63	222647	321	12	38388	9261	0	0	0	0	50	0	408527	1	1	
CEP68	647041	340	38	36505	11753	0	0	0	0	50	0	503104	1	1	
CEP70	198996	515	16	31766	7252	0	0	0	0	50	0	400799	1	1	
CEP72	683895	411	28	32676	9114	0	0	0	0	50	0	393645	1	1	
CEP76	453636	206	41	33173	9331	0	0	0	0	50	1	329574	1	1	
CEP78	249135	554	-32	36771	10038	0	0	1	0	50	1	418019	1	1	
CEP97	547972	421	9	43638	11802	0	0	0	0	50	1	395031	1	1	
CEPT1	388536	627	27	21098	5845	0	0	0	0	50	0	574595	1	1	
CER1	160131	882	-10	13272	3738	0	0	0	0	50	0	593334	1	1	
CERCAM	1928973	188	64	29596	8918	0	0	0	0	50	0	467257	1	1	
CERK	404043	265	-1	27489	7413	0	0	0	0	50	1	479913	1	1	
CERKL	216512	380	20	28735	7616	0	0	0	0	50	0	439558	1	1	
CES1	317734	581	-28	28812	8127	0	0	0	0	50	1	460887	1	1	
CES2	942986	142	34	31108	9128	0	0	0	0	50	0	423577	1	1	
CES3	993495	135	41	28868	8218	0	0	0	0	50	0	520849	1	1	
CES7	348857	581	-30	31703	9079	0	0	0	0	50	1	453922	1	1	
CES8	1044004	135	48	30212	7987	0	0	0	0	50	0	406140	1	1	

CETN1	483873	521	28	8708	2233	0	0	0	0	50	1	400176	1	1	
CETN2	201810	NaN	-3	9156	2121	0	0	0	0	50	1	318815	1	1	
CETN3	83403	824	19	8960	1960	0	0	0	0	50	0	423934	1	1	
CETP	842366	125	52	25452	6972	0	0	0	0	50	1	470547	1	1	
CFB	2314693	203	34	39368	10339	0	0	0	0	50	0	456526	1	1	
CFC1	NaN	NaN	NaN	22358	6790	0	0	0	0	50	2	786338	1	1	
CFC1B	569565	NaN	12	22358	6790	0	0	0	0	50	0	443982	1	1	
CFD	2168802	198	28	12257	4123	0	0	0	0	50	1	443968	1	1	
CFDP1	507054	133	17	15722	3682	0	0	0	0	50	0	399126	1	1	
CFH	198896	941	-26	63924	15792	0	0	0	0	50	0	457492	1	1	
CFHR1	205744	852	-29	16800	4473	0	0	1	0	0	1	4473	1	1	
CFHR2	217857	853	-24	13902	3549	0	0	0	0	50	1	390677	1	1	
CFHR3	200038	941	-27	17038	4277	0	0	0	0	50	0	456351	1	1	
CFHR4	211450	853	-31	17136	4242	0	0	0	0	50	1	401443	1	1	
CFHR5	217857	853	-24	29288	7378	0	0	0	0	50	1	390677	1	1	
CFI	212346	417	26	30485	7315	0	0	0	0	50	0	382648	1	1	
CFL1	3779084	287	42	8533	2240	0	0	0	0	50	1	388185	1	1	
CFL2	573593	145	24	8729	2149	0	0	0	0	50	0	370608	1	1	
CFLAR	617625	205	39	25578	6699	0	0	0	0	50	0	424284	1	1	
CFP	775214	NaN	38	23639	6769	0	0	0	0	50	0	463281	1	1	
CFTR	116609	480	-7	75229	20258	0	0	0	0	50	0	442400	1	1	
CGA	209764	625	-3	6034	1589	0	0	0	0	50	0	407477	1	1	
CGB	2070141	200	35	7952	2716	0	0	0	0	50	0	356741	1	1	
CGB1	2070141	200	35	7476	2562	0	0	0	0	50	0	356741	1	1	
CGB2	2070141	200	35	7805	2737	0	0	0	0	50	0	356741	1	1	
CGB5	2070141	200	35	7952	2716	0	0	0	0	50	0	356741	1	1	
CGB7	2070141	200	35	7952	2716	0	0	0	0	50	0	356741	1	1	
CGB8	2070141	200	35	7952	2716	0	0	0	0	50	0	356741	1	1	
CGGBP1	123235	894	-3	8232	2436	0	0	0	0	50	1	339885	1	1	
CGN	1385164	176	31	59822	17710	0	0	0	0	50	0	449946	1	1	
CGNL1	189519	561	10	66003	17598	0	0	0	0	50	1	455938	1	1	
CGREF1	1214097	238	50	19950	6048	0	0	0	0	50	1	447195	1	1	
CGRRF1	559596	348	34	17150	4291	0	0	0	0	50	0	438263	1	1	
CH25H	255590	367	34	13188	4053	0	0	0	0	50	1	341152	1	1	
CHAC1	1049616	176	50	12803	4102	0	0	0	0	50	0	426468	1	1	
CHAC2	NaN	NaN	NaN	9310	2555	0	0	0	0	50	2	782103	1	1	
CHADL	NaN	NaN	NaN	36162	13566	0	0	0	0	50	2	793114	1	1	
CHAF1A	2078211	278	37	48342	13167	0	0	0	0	50	0	464359	1	1	
CHAF1B	289668	352	52	28371	8001	0	0	0	0	50	1	324912	1	1	
CHAT	NaN	NaN	NaN	38213	11158	0	0	0	0	50	2	790706	1	1	
CHCHD1	1009357	191	42	6034	1673	0	0	0	0	50	2	482986	1	1	
CHCHD10	637355	196	52	6979	2324	0	0	0	0	50	1	403515	1	1	
CHCHD2	738325	642	4	7497	2373	0	0	0	0	50	0	477064	1	1	
CHCHD3	595524	677	11	11921	3031	0	0	0	0	50	0	426440	1	1	
CHCHD4	312564	463	27	8512	1988	0	0	0	0	50	1	393197	1	1	
CHCHD5	590285	166	36	5670	1575	0	0	0	0	50	0	389480	1	1	
CHCHD6	250457	604	39	12180	3318	0	0	0	0	50	0	319683	1	1	
CHCHD7	343112	552	19	7007	1246	0	0	0	0	6	0	38591	1	1	
CHCHD8	555075	214	47	4515	1113	0	0	0	0	50	0	395136	1	1	
CHD1	133125	595	15	89313	21336	0	0	0	0	50	0	384755	1	1	

CHD1L	NaN	NaN	NaN	46214	12250	0	0	0	0	50	2	791798	1	1	
CHD2	243747	332	14	94899	23562	0	0	0	0	50	0	370573	1	1	
CHD3	1971623	337	29	106183	29057	0	0	0	0	50	1	424627	1	1	
CHD4	2790851	179	51	98301	25494	0	0	0	0	50	1	526169	1	1	
CHD5	620866	240	30	100492	26159	0	0	0	0	0	0	26159	1	1	
CHD6	378513	502	-1	137284	36848	0	0	0	0	50	0	420826	1	1	
CHD7	248521	572	45	150892	41006	0	0	0	0	21	0	175889	1	1	
CHD8	710667	380	34	129787	36197	0	0	0	0	50	0	465934	1	1	
CHD9	228561	675	-9	145712	38962	0	0	0	0	43	0	485422	1	1	
CHDH	475623	578	42	29127	8946	0	0	0	0	50	2	409045	1	1	
CHEK1	477807	595	18	25011	6132	0	0	0	0	50	0	368984	1	1	
CHEK2	515703	219	-8	30149	8092	0	0	0	0	50	1	446999	1	1	
CHERP	815495	258	44	46417	12824	0	0	0	0	50	0	412454	1	1	
CHFR	944795	674	10	35525	9835	0	0	0	0	50	0	401128	1	1	
CHGA	325312	387	30	23121	6321	0	0	0	0	50	1	424088	1	1	
CHGB	310620	346	13	34629	8421	0	0	0	0	50	1	418621	1	1	
CHI3L1	507603	453	31	19565	5383	0	0	0	0	50	0	450940	1	1	
CHI3L2	400425	627	41	20230	5285	0	0	0	0	50	2	402794	1	1	
CHIA	398726	559	15	24521	6496	0	0	0	0	50	0	414421	1	1	
CHIC1	319167	NaN	11	11613	2982	0	0	0	0	50	0	455553	1	1	
CHIC2	92904	472	19	8785	2093	0	0	0	0	50	0	375095	1	1	
CHID1	1694280	232	52	21469	6020	0	0	0	0	50	0	389424	1	1	
CHIT1	507603	453	31	23800	6503	0	0	0	0	50	0	450940	1	1	
CHKA	1168866	251	63	23548	6230	0	0	0	0	50	0	406742	1	1	
CHKB	1073094	203	43	20209	5579	0	0	0	0	50	1	455231	1	1	
CHL1	25264	796	9	63098	16261	0	0	0	0	50	0	492198	1	1	
CHM	57906	NaN	-6	34174	8687	0	0	0	0	50	0	405153	1	1	
CHML	NaN	NaN	NaN	32592	8799	0	0	0	0	50	2	788347	1	1	
CHMP1A	1090549	219	38	15001	1106	0	0	0	0	50	0	325458	1	1	
CHMP1B	NaN	NaN	NaN	9926	2674	0	0	0	0	50	2	782222	1	1	
CHMP2A	2673870	276	11	11438	3073	0	0	0	0	50	0	476175	1	1	
CHMP2B	57851	415	-19	11207	2695	0	0	0	0	50	0	348600	1	1	
CHMP4A	974559	220	41	13608	3570	0	0	0	0	50	2	483035	1	1	
CHMP4B	761783	146	53	11592	2919	0	0	0	0	50	0	405769	1	1	
CHMP4C	158801	681	12	11984	3094	0	0	0	0	50	0	360759	1	1	
CHMP5	856503	167	38	11655	2793	0	0	0	0	50	1	417298	1	1	
CHMP6	1660463	211	27	10640	2716	0	0	0	0	50	0	441021	1	1	
CHMP7	490797	288	41	22799	6559	0	0	0	0	50	2	342265	1	1	
CHN1	389626	701	12	23968	6020	0	0	0	0	50	0	409171	1	1	
CHN2	249263	599	5	26950	7091	0	0	0	0	50	0	377272	1	1	
CHODL	272100	981	-58	14035	3647	0	0	0	0	50	0	369096	1	1	
CHORDC1	132433	1152	-21	17661	4158	0	0	0	0	50	0	445305	1	1	
CHP	956634	214	44	10276	2576	0	0	0	0	50	2	432257	1	1	
CHP2	517081	598	33	10199	2716	0	0	0	0	50	0	378567	1	1	
CHPF	548994	487	35	36176	12964	0	0	0	0	50	0	489825	1	1	
CHPF2	610106	290	32	36344	12607	0	0	0	0	50	1	455595	1	1	
CHPT1	347543	338	8	21112	5978	0	0	0	0	50	0	438389	1	1	
CHRAC1	432697	238	39	6762	1722	0	0	0	0	50	0	352646	1	1	
CHRD	1433862	268	46	46816	15260	0	0	0	0	50	1	516719	1	1	
CHRDL1	108458	NaN	14	23968	5873	0	0	0	0	50	0	460096	1	1	

CHRDL2	521541	204	40	23072	6370	0	0	0	0	50	0	294119	1	1	
CHRFAM7A	313450	686	-8	20937	5754	0	0	0	0	50	0	419769	1	1	
CHRM1	2342595	181	71	21903	7224	0	0	0	0	50	0	477421	1	1	
CHRM2	72122	1001	-25	22932	6573	0	0	0	0	50	0	501781	1	1	
CHRM3	52023	1031	-25	28959	8358	0	0	0	0	50	1	554190	1	1	
CHRM4	817153	212	45	22799	7483	0	0	0	0	50	0	441175	1	1	
CHRM5	409900	384	2	26005	7658	0	0	0	0	50	0	383670	1	1	
CHRNA1	414231	577	21	24507	6720	0	0	0	0	50	0	440237	1	1	
CHRNA10	537999	403	23	21420	7371	0	0	0	0	50	2	441329	1	1	
CHRNA2	326685	448	42	25956	7854	0	0	0	0	50	1	419622	1	1	
CHRNA4	1278630	332	62	30303	9681	0	0	0	0	50	0	336343	1	1	
CHRNA5	505832	375	46	23849	6160	0	0	0	0	50	1	407995	1	1	
CHRNA6	594393	454	34	24857	6790	0	0	0	0	50	0	500675	1	1	
CHRNA7	199973	778	-9	25396	7091	0	0	0	0	50	0	365652	1	1	
CHRNA9	442913	347	53	24108	6510	0	0	0	0	50	0	373471	1	1	
CHRNB1	1906324	206	33	25032	7476	0	0	0	0	50	1	462924	1	1	
CHRNB2	1896659	403	41	24647	7462	0	0	0	0	50	0	349181	1	1	
CHRNB3	603002	507	32	22953	6384	0	0	0	0	50	2	533358	1	1	
CHRNB4	485971	455	45	24542	7315	0	0	0	0	50	1	445109	1	1	
CHRND	279084	156	34	26005	7595	0	0	0	0	50	0	407953	1	1	
CHRNE	1416161	231	30	24703	7469	0	0	0	0	50	0	367325	1	1	
CHRNG	286805	211	36	25739	7861	0	0	0	0	50	0	327971	1	1	
CHST1	160913	609	18	19600	6440	0	0	0	0	50	0	307741	1	1	
CHST10	226558	642	9	18172	4739	0	0	0	0	50	1	456309	1	1	
CHST11	1030269	419	34	17626	4781	0	0	0	0	50	0	294168	1	1	
CHST12	792353	251	35	20146	6083	0	0	0	0	50	0	433426	1	1	
CHST14	888588	192	47	17703	6048	0	0	0	0	50	1	410823	1	1	
CHST15	149497	632	19	28490	7420	0	0	0	0	50	0	388710	1	1	
CHST2	319752	591	25	24780	8673	0	0	0	0	50	0	567707	1	1	
CHST3	762207	169	54	23135	7189	0	0	0	0	50	1	415702	1	1	
CHST4	443039	600	18	18977	5488	0	0	0	0	50	0	360430	1	1	
CHST5	488582	225	6	19243	6713	0	0	0	0	50	1	478149	1	1	
CHST6	488582	225	6	18396	6636	0	0	0	0	50	1	478149	1	1	
CHST7	646939	NaN	40	22610	8155	0	0	0	0	50	1	538846	1	1	
CHST8	487426	623	-26	20580	6447	0	0	0	0	50	0	342034	1	1	
CHST9	48644	872	-24	22855	5537	0	0	0	0	50	0	367108	1	1	
CHSY1	409968	290	26	39571	11186	0	0	0	0	50	1	446831	1	1	
CHSY3	12401	1069	-8	43470	12327	0	0	0	0	50	1	507045	1	1	
CHTF18	1187310	273	39	47971	15407	0	0	0	0	50	0	458171	1	1	
CHTF8	1179391	201	24	6069	1869	0	0	0	0	50	0	433573	1	1	
CHUK	1070291	198	25	39081	9639	0	0	0	0	50	0	386218	1	1	
CHURC1	515337	275	41	6104	1372	0	0	0	0	50	2	351596	1	1	
CIAO1	904852	213	43	17220	4704	0	0	0	0	50	1	474096	1	1	
CIAPIN1	749108	159	39	15869	4522	0	0	0	0	50	1	361277	1	1	
CIB1	876945	154	52	9912	2688	0	0	0	0	50	2	468349	1	1	
CIB2	414873	271	56	9863	2401	0	0	0	0	50	1	336525	1	1	
CIB3	761374	298	42	9863	2443	0	0	0	0	50	1	369691	1	1	
CIB4	1039210	428	29	9912	2352	0	0	0	0	50	0	424102	1	1	
CIDEA	428253	350	20	13153	4067	0	0	0	0	50	0	413952	1	1	
CIDEB	915114	220	38	10913	3367	0	0	0	0	50	1	414449	1	1	

CIDEC	950574	170	54	11921	3556	0	0	0	0	50	1	396298	1	1	
CIITA	299383	410	38	55489	17360	0	0	0	0	50	0	396942	1	1	
CILP	720558	183	57	58275	16968	0	0	0	0	50	1	389032	1	1	
CILP2	868278	284	7	54894	18627	0	0	0	0	50	0	376670	1	1	
CINP	1659098	214	32	12117	2856	0	0	0	0	50	0	412552	1	1	
CIR1	385177	419	24	23898	5313	0	0	0	0	50	0	507591	1	1	
CIRBP	2214581	234	29	8946	2457	0	0	0	0	50	1	402808	1	1	
CIRH1A	1175833	201	34	35189	9478	0	0	0	0	50	2	392567	1	1	
CISD1	153256	357	-17	5635	1400	0	0	0	0	50	0	430731	1	1	
CISD2	373094	471	33	7252	1484	0	0	0	0	50	0	365715	1	1	
CISD3	NaN	NaN	NaN	6398	1960	0	0	0	0	50	2	781508	1	1	
CISH	583785	302	50	13720	4382	0	0	0	0	50	0	344302	1	1	
CIT	905544	436	24	103936	27692	0	0	0	0	41	0	417585	1	1	
CITED1	370863	NaN	50	10682	3388	0	0	0	0	50	0	438004	1	1	
CITED2	187396	504	14	13524	3633	0	0	0	0	50	0	398307	1	1	
CITED4	NaN	NaN	NaN	8379	3276	0	0	0	0	50	2	782824	1	1	
CIZ1	1762678	201	44	45178	12803	0	0	0	0	50	0	378700	1	1	
CKAP2	345539	356	45	34531	9233	0	0	0	0	50	0	369880	1	1	
CKAP2L	595832	214	47	37513	10199	0	0	0	0	50	1	416514	1	1	
CKAP4	168486	445	23	29197	8918	0	0	0	0	50	0	347711	1	1	
CKAP5	1075464	145	38	103782	27909	0	0	0	0	50	0	550564	1	1	
CKB	934253	225	36	19180	5474	0	0	0	0	50	1	368816	1	1	
CKLF	688682	214	-1	7896	2268	0	0	0	0	50	0	428085	1	1	
CKM	1280459	215	23	19432	5222	0	0	0	0	50	0	416710	1	1	
CKMT1A	774279	286	51	20622	6384	0	0	0	0	50	0	379449	1	1	
CKMT1B	794398	269	37	20622	6384	0	0	0	0	50	0	455539	1	1	
CKMT2	182569	777	30	21063	6153	0	0	0	0	50	0	428897	1	1	
CKS1B	1612870	224	35	4263	945	0	0	0	0	50	0	363538	1	1	
CKS2	163101	627	15	4340	910	0	0	0	0	10	0	66283	1	1	
CLASP1	238179	612	21	78757	22484	0	0	0	0	50	0	366709	1	1	
CLASP2	463864	393	9	76678	21371	0	0	0	0	50	1	507864	1	1	
CLC	1286220	526	26	7413	1890	0	0	0	0	3	0	47446	1	1	
CLCA1	279518	762	-8	45815	12922	0	0	0	0	50	0	467733	1	1	
CLCA2	248812	762	-13	47530	13034	0	0	0	0	50	0	315756	1	1	
CLCA4	279475	692	-14	46480	12614	0	0	0	0	50	0	380506	1	1	
CLCC1	880200	216	19	28371	7392	0	0	0	0	50	1	369943	1	1	
CLCF1	1269888	177	51	10927	3479	0	0	0	0	50	1	407001	1	1	
CLCN1	379715	379	29	49693	14546	0	0	0	0	50	2	435267	1	1	
CLCN2	1447013	268	44	44905	13664	0	0	0	0	50	1	551999	1	1	
CLCN3	186100	464	12	44107	11606	0	0	0	0	50	0	431004	1	1	
CLCN4	168498	NaN	33	37744	11123	0	0	0	0	50	0	456344	1	1	
CLCN5	75681	NaN	26	40901	11578	0	0	0	0	50	0	428372	1	1	
CLCN6	524980	196	41	46039	10829	0	0	0	0	50	2	316876	1	1	
CLCN7	1232935	209	37	40453	12341	0	0	0	0	50	0	321111	1	1	
CLCNKA	886121	197	43	34524	10416	0	0	0	0	50	0	395206	1	1	
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CLDN1	164468	348	3	10500	3108	0	0	0	0	50	1	418642	1	1	
CLDN10	228898	397	50	14966	4375	0	0	0	0	50	0	420896	1	1	
CLDN11	372782	377	30	9940	3332	0	0	0	0	50	2	400988	1	1	
CLDN12	140224	1085	-8	11753	3766	0	0	0	0	50	0	458752	1	1	

CLDN14	391816	428	78	11340	3864	0	0	0	0	50	1	352114	1	1	
CLDN15	1022626	258	39	11263	3500	0	0	0	0	50	0	387464	1	1	
CLDN16	163494	373	9	15190	4424	0	0	0	0	50	0	409199	1	1	
CLDN17	10231	994	-69	10801	3458	0	0	0	0	50	0	260330	1	1	
CLDN18	160932	572	6	16618	4970	0	0	0	0	50	1	406455	1	1	
CLDN19	735401	426	26	13559	3346	0	0	0	0	50	0	543011	1	1	
CLDN2	148608	NaN	22	10955	3598	0	0	0	0	44	0	268352	1	1	
CLDN20	NaN	NaN	NaN	10556	3304	0	0	0	0	50	2	782852	1	1	
CLDN22	NaN	NaN	NaN	10577	3346	0	0	0	0	50	2	782894	1	1	
CLDN23	174979	307	34	13762	4697	0	0	0	0	50	0	368837	1	1	
CLDN24	NaN	NaN	NaN	10598	3283	0	0	0	0	50	2	782831	1	1	
CLDN25	148947	534	4	10962	3528	0	0	0	0	50	1	341831	1	1	
CLDN3	1082063	214	54	10304	3619	0	0	0	0	50	0	487235	1	1	
CLDN4	1099366	208	37	9891	3339	0	0	0	0	50	0	321020	1	1	
CLDN5	770036	298	22	14091	5145	0	0	0	0	50	0	470386	1	1	
CLDN6	1443513	234	49	10374	3633	0	0	0	0	50	0	372680	1	1	
CLDN7	1782958	316	21	10752	2856	0	0	0	0	50	1	326809	1	1	
CLDN8	10231	994	-69	11025	3213	0	0	0	0	50	0	260330	1	1	
CLDN9	1443513	234	49	9982	3752	0	0	0	0	50	0	372680	1	1	
CLDND1	390532	796	2	14280	3675	0	0	0	0	50	0	383754	1	1	
CLDND2	368509	610	-9	8400	2478	0	0	0	0	50	0	281603	1	1	
CLEC10A	1696302	360	24	16604	4228	0	0	0	0	50	1	319648	1	1	
CLEC11A	652250	593	27	15701	4963	0	0	0	0	50	1	441770	1	1	
CLEC12A	305376	565	19	13909	3269	0	0	0	0	50	1	514437	1	1	
CLEC12B	305376	565	19	14700	3528	0	0	0	0	50	1	514437	1	1	
CLEC14A	13985	544	-50	23058	7875	0	0	0	0	50	1	421603	1	1	
CLEC16A	378690	430	37	53396	14854	0	0	1	0	50	1	428771	1	1	
CLEC17A	1022856	198	29	15330	3906	0	0	0	0	50	0	424081	1	1	
CLEC18A	1511555	162	36	22911	6174	0	0	0	0	50	0	483567	1	1	
CLEC18B	475713	278	44	23457	6279	0	0	0	0	50	2	423416	1	1	
CLEC18C	1353954	139	37	22918	6167	0	0	0	0	50	0	430465	1	1	
CLEC1A	396940	445	-1	14525	3640	0	0	0	0	50	0	387555	1	1	
CLEC1B	305376	565	19	12096	2856	0	0	0	0	50	1	514437	1	1	
CLEC2A	NaN	NaN	NaN	9303	2100	0	0	0	0	50	2	781648	1	1	
CLEC2B	295505	634	25	7973	1813	0	0	0	0	50	0	417319	1	1	
CLEC2D	251092	648	8	11767	2513	0	0	0	0	50	1	440321	1	1	
CLEC2L	557910	522	32	10654	3227	0	0	0	0	50	2	551376	1	1	
CLEC3A	44717	1261	-26	10045	2639	0	0	0	0	50	0	404705	1	1	
CLEC3B	479578	326	41	10157	2842	0	0	0	0	50	2	392294	1	1	
CLEC4A	142724	300	23	12453	2961	0	0	0	0	50	0	403893	1	1	
CLEC4C	206421	467	15	11319	2583	0	0	0	0	50	0	415996	1	1	
CLEC4D	321790	564	13	11396	2632	0	0	0	0	50	1	426762	1	1	
CLEC4E	321790	564	13	11564	2716	0	0	0	0	50	1	426762	1	1	
CLEC4F	596622	629	24	29939	7777	0	0	0	0	50	0	330876	1	1	
CLEC4G	688482	384	31	15036	4200	0	0	0	0	50	1	445354	1	1	
CLEC4M	719851	329	21	20909	5236	0	0	0	0	50	0	482027	1	1	
CLEC5A	198115	856	-6	10101	2310	0	0	0	0	50	2	413063	1	1	
CLEC6A	321790	564	13	11109	2541	0	0	0	0	50	1	426762	1	1	
CLEC7A	396940	445	-1	13699	3101	0	0	0	0	50	0	387555	1	1	
CLEC9A	351158	445	9	12873	2877	0	0	0	0	50	0	412559	1	1	

CLECL1	251092	648	8	8519	2149	0	0	0	0	50	1	440321	1	1	
CLGN	134135	752	4	32200	7469	0	0	0	0	50	1	388325	1	1	
CLIC1	2513551	176	26	12187	3479	0	0	0	0	50	0	506499	1	1	
CLIC2	NaN	NaN	NaN	12768	3276	0	0	0	0	50	2	782824	1	1	
CLIC3	1979517	188	34	11816	3619	0	0	0	0	50	1	413833	1	1	
CLIC4	518507	198	30	13062	3360	0	0	0	0	50	0	467005	1	1	
CLIC5	62331	701	13	21875	5803	0	0	0	0	50	0	404929	1	1	
CLIC6	284989	406	43	33495	10206	0	0	1	0	50	2	455189	1	1	
CLINT1	227687	916	44	32074	8288	0	0	0	0	50	0	355915	1	1	
CLIP1	885125	222	41	73038	18858	0	0	0	0	50	0	481089	1	1	
CLIP2	938020	179	51	51513	15792	0	0	1	0	50	1	394359	1	1	
CLIP3	980636	320	19	27328	8288	0	0	0	0	50	0	364875	1	1	
CLIP4	383097	497	32	35861	9877	0	0	0	0	50	0	351029	1	1	
CLK1	635570	201	31	27769	6440	0	0	0	0	50	1	336567	1	1	
CLK2	1574928	194	45	25648	6755	0	0	0	0	50	0	408905	1	1	
CLK3	635020	206	51	31962	9303	0	0	0	0	50	2	394576	1	1	
CLK4	492630	675	17	25515	5817	0	0	0	0	50	0	441322	1	1	
CLLU1	NaN	NaN	NaN	6153	1533	0	0	0	0	31	2	345016	1	1	
CLLU1OS	168575	582	19	5299	1421	0	0	0	0	50	0	350539	1	1	
CLMN	207561	612	30	50596	13601	0	0	0	0	50	1	374465	1	1	
CLN3	NaN	NaN	NaN	22029	6888	0	0	0	0	50	2	786436	1	1	
CLN5	213768	637	24	20391	5607	0	0	0	0	50	0	399427	1	1	
CLN6	376180	365	33	15582	4578	0	0	0	0	50	1	344036	1	1	
CLN8	100540	544	-13	14035	4130	0	0	0	0	50	1	466676	1	1	
CLNK	214087	1111	17	23156	5383	0	0	0	0	50	1	365393	1	1	
CLNS1A	603969	401	30	12418	3122	0	0	0	0	50	1	388416	1	1	
CLOCK	235221	384	22	43869	11172	0	0	0	0	50	0	446096	1	1	
CLP1	923511	354	15	20545	6461	0	0	0	0	50	0	372386	1	1	
CLPB	755787	258	56	35686	10304	0	0	0	0	50	0	401744	1	1	
CLPP	943949	407	31	13783	4151	0	0	0	0	50	0	355579	1	1	
CLPS	621095	404	34	5733	1596	0	0	0	0	50	0	437409	1	1	
CLPTM1	1003719	196	6	33866	9478	0	0	0	0	50	1	336553	1	1	
CLPTM1L	612621	541	30	27804	7539	0	0	0	0	50	2	484022	1	1	
CLPX	678641	189	61	32060	9016	0	0	0	0	50	1	344057	1	1	
CLRN1	353086	635	10	12495	3402	0	0	0	0	50	1	416577	1	1	
CLRN2	271399	912	37	11473	3458	0	0	0	0	50	0	346122	1	1	
CLRN3	434702	806	-25	11284	3185	0	0	0	0	50	1	340053	1	1	
CLSPN	1224684	303	25	69468	17010	0	0	0	0	50	0	424802	1	1	
CLSTN2	93930	998	9	48678	12894	0	0	0	0	50	0	522949	1	1	
CLSTN3	1872466	224	33	48006	13713	0	0	0	0	50	1	467754	1	1	
CLTA	857985	257	46	12915	3276	0	0	0	0	50	0	458542	1	1	
CLTB	576954	347	45	11858	3052	0	0	0	0	50	0	411243	1	1	
CLTC	1083057	398	23	85694	22498	0	0	0	0	50	0	393253	1	1	
CLTCL1	488349	222	11	83734	22379	0	0	0	0	50	1	521101	1	1	
CLU	346863	361	29	25683	6783	0	0	0	0	50	1	415156	1	1	
CLUAP1	805495	246	39	21833	5173	0	0	0	0	50	0	433321	1	1	
CLUL1	449991	486	23	24465	5712	0	0	0	0	50	0	439649	1	1	
CLVS1	491040	596	1	17836	4865	0	0	0	0	50	0	484512	1	1	
CLVS2	138384	1106	-26	16506	4494	0	0	0	0	50	0	563248	1	1	
CLYBL	308985	612	45	17192	5005	0	0	0	0	50	0	370356	1	1	

CMA1	898202	411	17	12334	3710	0	0	0	0	50	0	349251	1	1	
CMAS	605789	955	-13	21952	6083	0	0	0	0	50	0	369285	1	1	
CMBL	625000	192	9	12768	3150	0	0	0	0	50	0	422282	1	1	
CMC1	84882	793	10	5733	1260	0	0	0	0	50	0	435960	1	1	
CMIP	334492	428	21	39578	11326	0	0	0	0	50	0	439040	1	1	
CMKLR1	437015	597	27	18424	5306	0	0	0	0	50	1	484484	1	1	
CMPK1	257134	210	7	11802	3045	0	0	0	0	50	0	415660	1	1	
CMPK2	41287	1132	-4	21539	7147	0	0	0	0	50	0	445872	1	1	
CMTM1	777342	214	9	14098	4277	0	0	0	0	50	0	422338	1	1	
CMTM2	777342	214	9	12418	3521	0	0	0	0	50	0	422338	1	1	
CMTM3	777342	214	9	9163	2786	0	0	0	0	50	0	422338	1	1	
CMTM4	790767	145	9	11746	3437	0	0	0	0	50	0	416794	1	1	
CMTM5	1220624	456	31	7868	2359	0	0	0	0	50	1	489685	1	1	
CMTM6	436595	592	31	9121	2723	0	0	0	0	50	1	488117	1	1	
CMTM7	306655	592	19	8757	2667	0	0	0	0	50	0	534121	1	1	
CMTM8	306655	590	11	8680	2534	0	0	0	0	50	0	414442	1	1	
CMYA5	263588	684	38	200774	56686	0	0	0	0	6	0	92799	1	1	
CNBD1	148474	1191	-31	23009	5446	0	0	0	0	50	0	409472	1	1	
CNBP	1130979	189	50	9422	2254	0	0	0	0	50	0	398545	1	1	
CNDP1	162886	941	13	25648	7280	0	0	0	0	50	0	491232	1	1	
CNDP2	162468	969	7	24262	6650	0	0	0	0	50	0	382032	1	1	
CNFN	792230	218	42	5775	1596	0	0	0	0	50	0	481950	1	1	
CNGA1	220829	474	40	38717	9877	0	0	0	0	50	1	458486	1	1	
CNGA2	126208	NaN	-2	33082	9317	0	0	0	0	50	0	493164	1	1	
CNGA3	228601	630	29	34510	9863	0	0	0	0	50	0	288456	1	1	
CNGA4	466636	728	4	28308	8442	0	0	0	0	50	0	450765	1	1	
CNGB3	191008	1171	2	41587	10913	0	0	0	0	50	1	327187	1	1	
CNIH	399536	371	17	7602	1890	0	0	0	0	50	2	426559	1	1	
CNIH2	2133752	236	53	8407	2156	0	0	0	0	50	0	481383	1	1	
CNIH3	408298	633	-5	8470	2093	0	0	0	0	50	1	386806	1	1	
CNIH4	628752	256	18	7427	1771	0	0	0	0	50	1	379113	1	1	
CNKSR1	896535	217	30	35945	10759	0	0	0	0	50	1	519274	1	1	
CNKSR2	90158	NaN	-2	53333	13783	0	0	0	0	50	0	577045	1	1	
CNKSR3	109534	588	14	28000	8036	0	0	0	0	50	0	450310	1	1	
CNN1	1152381	272	31	15176	4102	0	0	0	0	50	2	385273	1	1	
CNN3	282666	333	-6	16975	4319	0	0	0	0	50	0	459844	1	1	
CNNM1	270704	575	-6	45843	14973	0	0	0	0	50	0	357966	1	1	
CNNM2	711862	233	38	43428	13188	0	0	0	0	50	0	469525	1	1	
CNNM3	879415	332	48	33460	11774	0	0	0	0	50	1	500290	1	1	
CNNM4	936233	332	49	37842	11592	0	0	0	0	50	1	442001	1	1	
CNO	501020	201	62	10416	3360	0	0	0	0	50	0	396704	1	1	
CNOT1	660382	191	8	124663	33698	0	0	0	0	50	0	433181	1	1	
CNOT10	464002	493	28	38696	9751	0	0	0	0	50	0	420147	1	1	
CNOT2	156657	609	-17	28182	7161	0	0	0	0	50	0	468510	1	1	
CNOT3	735613	439	-53	38276	10654	0	0	0	0	50	0	578004	1	1	
CNOT4	579978	407	19	33859	9464	0	0	0	0	50	0	432803	1	1	
CNOT6	625675	485	17	28588	7490	0	0	0	0	50	0	391888	1	1	
CNOT6L	152352	493	18	28567	7427	0	0	0	0	50	0	356699	1	1	
CNOT7	237338	387	4	14952	3654	0	0	0	0	50	1	398881	1	1	
CNOT8	523671	378	41	15225	3738	0	0	0	0	50	1	353619	1	1	

CNP	2081077	206	23	20601	6237	0	0	0	0	50	2	452221	1	1	
CNPY1	267612	599	-5	5026	1085	0	0	0	0	50	0	390873	1	1	
CNPY2	2869106	184	52	9436	2513	0	0	0	0	50	1	498204	1	1	
CNPY3	1143209	203	41	14105	3892	0	0	0	0	50	0	348600	1	1	
CNPY4	1299015	205	52	12831	3297	0	0	0	0	50	1	409815	1	1	
CNR1	172187	799	37	23065	6818	0	0	0	0	50	0	404894	1	1	
CNR2	923316	254	23	17241	5586	0	0	0	0	50	1	380324	1	1	
CNRIP1	204433	586	15	9212	2590	0	0	0	0	50	0	348705	1	1	
CNST	416573	346	4	37058	9793	0	0	0	0	50	0	383068	1	1	
CNTD1	1633092	190	33	16527	4830	0	0	0	0	50	0	400561	1	1	
CNTD2	1005838	400	30	14567	5215	0	0	0	0	50	0	354305	1	1	
CNTF	284768	644	2	9947	2842	0	0	0	0	50	0	358743	1	1	
CNTFR	843127	370	55	18494	5656	0	0	0	0	50	1	320376	1	1	
CNTLN	31539	761	-22	73395	17976	0	0	0	0	50	0	379148	1	1	
CNTN1	22448	1105	-22	52353	13776	0	0	0	0	50	1	414967	1	1	
CNTN2	655446	431	37	51863	15568	0	0	0	0	50	0	388794	1	1	
CNTN3	5646	949	-21	52311	14322	0	0	0	0	50	1	405293	1	1	
CNTN4	52413	1215	-22	52248	14301	0	0	0	0	50	0	430206	1	1	
CNTN5	3647	1135	-26	55727	15568	0	0	0	0	50	0	550165	1	1	
CNTN6	6599	831	-23	52570	14105	0	0	0	0	50	0	368991	1	1	
CNTNAP1	1740597	177	36	68726	20461	0	0	0	0	29	1	271019	1	1	
CNTNAP2	4892	1115	-31	68124	17724	0	0	0	0	50	0	480172	1	1	
CNTNAP3	51498	1010	-36	64449	18690	0	0	0	0	50	0	468356	1	1	
CNTNAP4	11522	975	-26	66885	17787	0	0	0	0	50	0	469553	1	1	
CNTNAP5	1260	1308	-14	66479	17794	0	0	0	0	50	2	463855	1	1	
CNTROB	1794630	337	33	46242	13650	0	0	0	0	50	1	386694	1	1	
COASY	1884163	177	38	29085	9177	0	0	0	0	50	0	468503	1	1	
COBL	133439	509	-22	61586	18928	0	0	0	0	50	1	530250	1	1	
COBLL1	76781	413	-4	58499	16114	0	0	0	0	50	0	399343	1	1	
COBRA1	1724821	399	43	28875	8736	0	0	0	0	50	0	327124	1	1	
COCH	428678	454	11	27902	7735	0	0	0	0	50	0	435169	1	1	
COG1	221646	251	-11	48755	14266	0	0	0	0	50	1	487501	1	1	
COG2	379098	568	3	37933	10052	0	0	0	0	50	0	426195	1	1	
COG3	763957	379	50	42938	11179	0	0	0	0	50	1	431270	1	1	
COG4	925955	131	47	40446	10878	0	0	0	0	50	0	465906	1	1	
COG5	492317	753	18	43862	12187	0	0	0	0	50	0	334985	1	1	
COG6	73269	761	11	34251	9261	0	0	0	0	50	0	454846	1	1	
COG7	521590	611	28	39137	10780	0	0	0	0	50	1	396655	1	1	
COG8	1202748	125	20	29659	9464	0	0	0	0	22	0	159467	1	1	
COIL	333715	254	-10	28700	8197	0	0	0	0	50	1	399175	1	1	
COL10A1	NaN	NaN	NaN	31556	11515	0	0	0	0	50	2	791063	1	1	
COL11A1	37620	742	-20	94262	28420	0	0	0	0	50	0	441665	1	1	
COL11A2	1474628	377	24	87143	29281	0	0	0	0	50	0	463036	1	1	
COL12A1	359824	486	-8	154350	44142	0	0	0	0	38	0	356363	1	1	
COL13A1	591993	561	26	36869	11641	0	0	0	0	50	0	435554	1	1	
COL14A1	262056	839	-5	91350	25809	0	0	0	0	50	2	399266	1	1	
COL15A1	199434	148	18	69398	21553	0	0	0	0	50	0	384895	1	1	
COL16A1	1126016	197	37	81459	25536	0	0	0	0	50	1	351589	1	1	
COL17A1	455010	271	19	76153	22841	0	0	0	0	50	0	397894	1	1	
COL18A1	513400	481	41	86786	29470	0	0	0	0	50	1	455973	1	1	

COL19A1	93520	947	15	58975	17234	0	0	0	0	50	0	388360	1	1	
COL1A1	1277832	210	26	72093	24402	0	0	0	0	50	0	469189	1	1	
COL1A2	461036	499	-14	67550	22855	0	0	0	0	50	0	457443	1	1	
COL20A1	1278630	332	62	62482	20195	0	0	0	0	50	0	336343	1	1	
COL21A1	263671	483	-11	48713	14077	0	0	0	0	50	0	373135	1	1	
COL22A1	5667	846	-22	81676	26201	0	0	0	0	50	0	373576	1	1	
COL23A1	533179	634	18	27419	9016	0	0	0	0	50	0	352464	1	1	
COL24A1	263693	863	-12	87346	25697	0	0	0	0	50	0	417389	1	1	
COL25A1	157338	437	-5	35350	10661	0	0	0	0	50	0	407841	1	1	
COL27A1	224550	425	3	91882	30380	0	0	0	0	50	0	375613	1	1	
COL28A1	220971	682	6	57330	16506	0	0	0	0	50	0	491449	1	1	
COL2A1	374433	246	47	73584	24612	0	0	0	0	50	0	350287	1	1	
COL3A1	205492	515	-5	72611	24010	0	0	0	0	50	0	383705	1	1	
COL4A1	429137	434	12	83006	26488	0	0	0	0	50	0	532791	1	1	
COL4A2	521715	478	32	84476	27391	0	0	0	0	50	0	489237	1	1	
COL4A3	253951	211	10	84462	26649	0	0	0	0	50	0	372057	1	1	
COL4A3BP	253484	500	37	38507	10528	0	0	0	0	50	1	416143	1	1	
COL4A4	248623	465	5	83335	27125	0	0	0	0	50	1	417228	1	1	
COL4A5	118458	NaN	19	83594	27055	0	0	0	0	50	0	409990	1	1	
COL4A6	171617	NaN	31	83251	27335	0	0	0	0	50	0	418558	1	1	
COL5A1	229207	421	31	92239	29078	0	0	0	0	50	0	525728	1	1	
COL5A2	237205	422	1	74648	24304	0	0	0	0	50	0	438151	1	1	
COL5A3	1386309	413	1	86751	28833	0	0	0	0	9	0	83671	1	1	
COL6A1	764197	590	23	52206	15519	0	0	0	0	50	0	534198	1	1	
COL6A2	742075	538	10	56448	16926	0	0	0	0	50	1	417585	1	1	
COL6A3	423594	399	10	156919	47894	0	0	0	0	37	0	425446	1	1	
COL6A5	202934	533	11	128128	34349	0	0	0	0	50	0	464744	1	1	
COL6A6	198659	527	16	113778	31836	0	0	0	0	50	0	403578	1	1	
COL8A1	226950	419	-2	34727	12376	0	0	0	0	50	0	397565	1	1	
COL8A2	853740	282	27	31899	12579	0	0	0	0	50	0	464597	1	1	
COL9A1	126322	633	5	47887	14861	0	0	0	0	17	0	127995	1	1	
COL9A2	627703	373	18	34636	11480	0	0	0	0	50	0	422688	1	1	
COL9A3	1044503	208	48	34034	11767	0	0	0	0	50	0	396928	1	1	
COLEC10	180181	380	2	14350	3626	0	0	0	0	50	1	476952	1	1	
COLEC11	253814	371	14	15750	3633	0	0	0	0	50	1	458416	1	1	
COLEC12	587478	572	14	37324	10241	0	0	0	0	50	0	419531	1	1	
COLQ	507200	256	40	24493	7217	0	0	0	0	50	0	337379	1	1	
COMMD1	563800	420	26	9548	2695	0	0	0	0	50	2	455322	1	1	
COMMD10	312789	981	8	10570	2765	0	0	0	0	50	0	401128	1	1	
COMMD2	449009	263	21	10234	2744	0	0	0	0	50	0	385861	1	1	
COMMD3	195915	462	23	10318	2660	0	0	0	0	50	0	346003	1	1	
COMMD4	814680	296	43	10262	2968	0	0	0	0	50	0	389816	1	1	
COMMD5	1454261	384	20	10696	3563	0	0	0	0	50	0	458885	1	1	
COMMD6	197100	362	35	5264	1351	0	0	0	0	50	0	419573	1	1	
COMMD7	661510	132	45	10752	2583	0	0	0	0	50	2	373681	1	1	
COMMD8	87789	528	23	9562	2408	0	0	0	0	50	0	394548	1	1	
COMMD9	222571	248	-8	10031	2968	0	0	0	0	50	1	440237	1	1	
COMP	1351321	189	26	38934	10374	0	0	0	0	50	0	431081	1	1	
COMT	645345	217	24	13342	4088	0	0	0	0	50	0	567007	1	1	
COMTD1	208687	275	38	12803	4354	0	0	0	0	50	0	381073	1	1	

COPA	939853	358	27	63238	17192	0	0	0	0	50	0	383159	1	1	
COPB1	365537	228	11	48888	12978	0	0	0	0	50	0	421365	1	1	
COPB2	246935	671	15	46844	12061	0	0	0	0	50	1	470624	1	1	
COPE	1390116	198	20	15799	4466	0	0	0	0	50	0	374535	1	1	
COPG	1119201	189	55	44961	12138	0	0	0	0	50	0	491792	1	1	
COPG2	298918	433	16	21077	5320	0	0	0	0	50	1	385413	1	1	
COPS2	317456	528	8	24010	5453	0	0	0	0	50	0	424319	1	1	
COPS3	910162	218	11	22141	5537	0	0	0	0	50	0	427553	1	1	
COPS4	556523	169	47	21077	5320	0	0	0	0	50	1	339976	1	1	
COPS5	393936	518	12	17353	4340	0	0	0	0	50	0	427637	1	1	
COPS6	1503181	254	41	16968	4494	0	0	0	0	50	0	535297	1	1	
COPS7A	2816186	232	48	13769	4207	0	0	0	0	50	1	498071	1	1	
COPS7B	955894	365	41	13461	3738	0	0	0	0	50	0	419139	1	1	
COPZ1	664708	190	45	9506	2422	0	0	0	0	50	2	438641	1	1	
COPZ2	1205950	255	20	11039	2884	0	0	0	0	50	0	517496	1	1	
COQ10A	2878071	171	46	12936	3906	0	0	0	0	50	1	480760	1	1	
COQ10B	681973	428	29	11984	3451	0	0	0	0	50	1	379785	1	1	
COQ2	344601	218	40	20496	6594	0	0	0	0	50	0	372120	1	1	
COQ3	259457	638	13	18655	5201	0	0	0	0	50	0	610442	1	1	
COQ4	1813435	201	46	12985	4277	0	0	0	0	50	1	409983	1	1	
COQ5	1552470	216	46	16800	4410	0	0	0	0	50	0	437829	1	1	
COQ6	443041	158	51	24283	6230	0	0	0	0	50	1	376985	1	1	
COQ7	861035	199	8	11102	3094	0	0	0	0	50	0	377650	1	1	
COQ9	749108	159	39	16233	4620	0	0	0	0	50	1	361277	1	1	
CORIN	113961	622	44	54236	13279	0	0	0	0	50	0	305529	1	1	
CORO1A	NaN	NaN	NaN	22974	6951	0	0	0	0	50	2	786499	1	1	
CORO1B	1392213	215	53	24465	7245	0	0	0	0	50	0	303898	1	1	
CORO1C	451218	217	40	24514	6251	0	0	0	0	50	0	313222	1	1	
CORO2A	494263	272	50	26614	7406	0	0	0	0	50	0	355075	1	1	
CORO2B	396006	603	25	24514	6755	0	0	0	0	50	0	517356	1	1	
CORO6	719319	383	30	23821	6776	0	0	0	0	50	0	393519	1	1	
CORO7	754886	161	41	46151	14455	0	0	0	0	50	1	390824	1	1	
CORT	829921	392	32	7602	2310	0	0	0	0	50	0	456316	1	1	
COTL1	575674	182	24	7322	1939	0	0	0	0	50	0	469091	1	1	
COX10	96214	985	-54	21721	6755	0	0	0	0	50	0	358694	1	1	
COX11	131464	869	-43	15078	4137	0	0	0	0	50	0	358232	1	1	
COX15	422578	304	12	21483	6510	0	0	0	0	50	0	493038	1	1	
COX16	500896	549	32	5600	1393	0	0	0	0	50	1	404376	1	1	
COX17	288657	595	42	3388	854	0	0	0	0	39	0	249333	1	1	
COX18	255276	747	14	16254	5208	0	0	0	0	50	1	430710	1	1	
COX19	765060	346	34	4942	1001	0	0	0	0	50	0	410186	1	1	
COX4I1	381135	298	28	8939	2086	0	0	0	0	50	1	481026	1	1	
COX4I2	837796	213	18	8960	2212	0	0	0	0	50	1	371777	1	1	
COX4NB	381135	298	28	10724	2905	0	0	0	0	50	1	481026	1	1	
COX5A	792240	199	45	7581	2268	0	0	0	0	50	1	423199	1	1	
COX5B	362146	520	25	6587	1939	0	0	0	0	50	0	504014	1	1	
COX6A1	1573849	216	44	5467	1673	0	0	0	0	50	0	422002	1	1	
COX6A2	839076	558	11	4879	1547	0	0	0	0	50	1	444234	1	1	
COX6B1	1162794	390	27	4711	1022	0	0	0	0	50	0	405559	1	1	
COX6B2	1028808	209	19	4781	1078	0	0	0	0	46	0	284277	1	1	

COX6C	282641	537	29	3976	1064	0	0	0	0	15	0	100261	1	1	
COX7A1	978272	326	6	4186	1148	0	0	0	0	50	1	296975	1	1	
COX7A2	394127	423	-3	5929	1673	0	0	0	0	50	0	410620	1	1	
COX7A2L	251919	375	16	5761	1694	0	0	0	0	50	1	379218	1	1	
COX7B	549293	NaN	19	4228	1085	0	0	0	0	50	0	468146	1	1	
COX7B2	86349	938	11	4151	1099	0	0	0	0	50	0	465605	1	1	
COX7C	84088	829	-14	3332	910	0	0	0	0	7	0	49224	1	1	
COX8A	1322584	277	42	3297	1239	0	0	0	0	50	1	526869	1	1	
COX8C	NaN	NaN	NaN	3486	1239	0	0	0	0	31	2	344722	1	1	
CP	388273	312	10	55041	13629	0	0	0	0	50	0	444241	1	1	
CP110	349996	491	21	50687	12901	0	0	0	0	50	0	508886	1	1	
CPA1	419615	298	27	21399	5901	0	0	0	0	50	1	423885	1	1	
CPA2	424934	212	30	21623	5761	0	0	0	0	50	0	475377	1	1	
CPA3	306125	544	-14	21791	5425	0	0	0	0	50	0	427742	1	1	
CPA4	424934	212	30	21756	5712	0	0	0	0	50	0	475377	1	1	
CPA5	422275	212	28	23261	5278	0	0	0	0	50	0	477484	1	1	
CPA6	232126	890	15	22624	5810	0	0	0	0	50	1	423962	1	1	
CPAMD8	947295	386	29	96166	29099	0	0	0	0	50	0	367213	1	1	
CPB1	276750	681	-16	21385	5831	0	0	0	0	50	0	467677	1	1	
CPB2	354901	679	53	22183	5411	0	0	0	0	50	0	341964	1	1	
CPD	491081	265	22	69265	19460	0	0	0	0	50	0	374745	1	1	
CPE	171042	494	-9	24192	6531	0	0	0	0	50	0	471359	1	1	
CPEB1	567143	566	19	28637	8071	0	0	0	0	50	0	364609	1	1	
CPEB2	105433	624	23	50652	15666	0	0	0	0	50	0	428190	1	1	
CPEB3	423765	469	33	35266	10094	0	0	0	0	50	0	330176	1	1	
CPEB4	164298	381	43	36617	10129	0	0	0	0	50	1	423969	1	1	
CPLX1	694849	268	39	7021	1736	0	0	0	0	50	1	516068	1	1	
CPLX2	473039	624	32	7049	1708	0	0	0	0	29	0	210126	1	1	
CPLX3	764533	195	46	8050	2177	0	0	0	0	50	2	423304	1	1	
CPLX4	293564	549	20	8484	1827	0	0	0	0	42	0	370468	1	1	
CPM	645106	228	28	22799	5845	0	0	0	0	50	1	458577	1	1	
CPN1	1067171	188	51	23191	6398	0	0	0	0	50	0	379757	1	1	
CPNE1	1423559	169	53	30968	8743	0	0	0	0	50	0	366597	1	1	
CPNE2	745404	154	48	28252	7595	0	0	0	0	50	3	323946	1	1	
CPNE3	192772	1166	22	28049	7105	0	0	0	0	50	0	425285	1	1	
CPNE4	238347	974	8	28980	7413	0	0	0	0	50	0	417053	1	1	
CPNE5	844979	244	43	30877	8267	0	0	0	0	50	0	454783	1	1	
CPNE7	1094600	211	38	32088	9198	0	0	0	0	50	0	318598	1	1	
CPNE8	87865	674	-4	29687	7546	0	0	0	0	50	0	421022	1	1	
CPNE9	955408	348	34	28742	7756	0	0	0	0	50	0	426629	1	1	
CPO	169586	723	2	19320	5061	0	0	0	0	50	1	467313	1	1	
CPOX	364371	640	6	22540	6629	0	0	0	0	50	0	391734	1	1	
CPPED1	75434	797	-3	15820	4277	0	0	0	0	50	0	460467	1	1	
CPS1	158852	465	-1	76944	21231	0	0	0	0	30	0	247079	1	1	
CPSF1	2043455	200	36	72821	21343	0	0	0	0	50	0	332850	1	1	
CPSF2	337384	415	29	40152	10353	0	0	0	0	50	0	485625	1	1	
CPSF3	658161	278	37	35777	8890	0	0	0	0	50	0	399945	1	1	
CPSF4	1327454	288	60	14161	3437	0	0	0	0	50	0	338653	1	1	
CPSF4L	NaN	NaN	NaN	9660	2184	0	0	0	0	50	2	781732	1	1	
CPSF6	758784	353	3	27013	8519	0	0	0	0	50	0	374934	1	1	

CPSF7	1394229	286	57	25424	7903	0	0	0	0	50	0	352380	1	1	
CPT1B	1073094	203	43	39578	10717	0	0	0	0	50	1	455231	1	1	
CPT1C	1716449	192	41	40166	11998	0	0	0	0	50	0	488019	1	1	
CPT2	527317	391	27	32403	9450	0	0	0	0	50	1	417620	1	1	
CPVL	112083	634	7	24773	6286	0	0	0	0	50	0	451997	1	1	
CPXCR1	1148	NaN	-19	15127	3983	0	0	0	0	50	0	435925	1	1	
CPXM1	796251	438	41	36624	10815	0	0	0	0	50	0	374689	1	1	
CPXM2	147419	771	10	38192	10591	0	0	0	0	50	0	380331	1	1	
CPZ	92046	471	35	32522	9541	0	0	0	0	50	0	426412	1	1	
CR1	442029	361	18	126889	33845	0	0	0	0	50	0	422436	1	1	
CR1L	386490	361	13	29057	7819	0	0	0	0	50	0	466473	1	1	
CR2	447441	354	30	55272	15183	0	0	0	0	50	1	405083	1	1	
CRABP1	505232	435	56	7098	1848	0	0	0	0	50	1	446453	1	1	
CRABP2	1851672	180	37	7140	1869	0	0	0	0	50	0	461594	1	1	
CRADD	375586	385	13	9786	2982	0	0	0	0	50	0	483042	1	1	
CRAT	1428394	206	30	31689	8904	0	0	0	0	50	0	408352	1	1	
CRB1	212549	428	-23	71008	18557	0	0	0	0	50	0	512351	1	1	
CRB2	346407	389	44	61509	20559	0	0	0	0	50	2	441434	1	1	
CRB3	865106	219	33	7000	2429	0	0	0	0	50	2	412020	1	1	
CRBN	61304	1017	-8	23149	5642	0	0	0	0	50	1	418369	1	1	
CRCP	501759	345	35	9380	2317	0	0	0	0	50	0	394730	1	1	
CRCT1	325831	700	20	4844	1540	0	0	0	0	50	1	547736	1	1	
CREB1	184506	198	25	17178	5040	0	0	0	0	50	0	391377	1	1	
CREB3	922448	190	48	18718	5390	0	0	0	0	50	2	430472	1	1	
CREB3L1	801520	158	36	26089	7595	0	0	0	0	50	0	377804	1	1	
CREB3L2	227556	553	20	26082	7665	0	0	0	0	50	0	351757	1	1	
CREB3L3	2256881	244	42	22764	7098	0	0	0	0	50	0	422569	1	1	
CREB3L4	2028800	222	34	19838	5866	0	0	0	0	50	0	359492	1	1	
CREB5	58752	518	26	26894	7084	0	0	0	0	50	1	467362	1	1	
CREBBP	637890	242	39	121835	34594	0	0	0	0	18	0	162981	1	1	
CREBL2	791567	157	32	6335	1540	0	0	0	0	50	0	460271	1	1	
CREBZF	325720	554	-19	16709	5656	0	0	0	0	50	1	486185	1	1	
CREG1	481959	506	15	10717	3500	0	0	0	0	50	0	393211	1	1	
CREG2	475096	278	19	14273	4354	0	0	0	0	50	0	389291	1	1	
CRELD1	950574	170	54	24997	6524	0	0	0	0	50	1	396298	1	1	
CRELD2	842221	271	15	20755	5474	0	0	0	0	50	0	457898	1	1	
CREM	179129	346	15	21973	5873	0	0	0	0	50	0	397558	1	1	
CRH	277437	480	30	9247	3248	0	0	0	0	50	1	389774	1	1	
CRHBP	245514	418	17	16373	4480	0	0	0	0	50	0	401261	1	1	
CRHR1	408198	563	16	22708	6419	0	0	0	0	50	0	473347	1	1	
CRHR2	484075	433	32	21119	5761	0	0	0	0	50	0	430829	1	1	
CRIP1	689089	298	41	4347	987	0	0	0	0	50	1	415002	1	1	
CRIP2	689089	298	41	10906	2891	0	0	0	0	50	1	415002	1	1	
CRIPAK	1018381	507	41	21140	7021	0	0	0	0	50	0	480858	1	1	
CRIPT	603816	252	35	5593	1211	0	0	0	0	50	0	432943	1	1	
CRISP1	70111	1258	-4	13230	3108	0	0	0	0	50	0	341348	1	1	
CRISP2	67596	1248	-6	12845	3115	0	0	0	0	50	1	343924	1	1	
CRISP3	67784	1246	-2	12992	3094	0	0	0	0	50	0	379162	1	1	
CRISPLD1	137515	703	-22	26278	6461	0	0	0	0	50	1	515340	1	1	
CRISPLD2	444452	243	21	25872	6678	0	0	0	0	50	0	384517	1	1	

CRK	1380844	220	18	15071	4312	0	0	0	0	50	0	418908	1	1	
CRKL	523674	192	49	14826	4494	0	0	0	0	50	0	381822	1	1	
CRLF1	1397040	222	33	20776	6545	0	0	0	0	50	0	439453	1	1	
CRLF2	NaN	NaN	NaN	13237	3479	0	0	0	0	50	2	783027	1	1	
CRLF3	617388	264	30	22323	6174	0	0	0	0	50	1	399616	1	1	
CRLS1	301141	290	4	15064	4697	0	0	0	0	50	0	495691	1	1	
CRMP1	101380	643	14	35014	10262	0	0	0	0	50	0	351365	1	1	
CRNKL1	230275	685	10	43617	11088	0	0	0	0	50	0	398209	1	1	
CRNN	387153	671	6	24444	6972	0	0	0	0	50	0	352156	1	1	
CROCC	681579	247	45	98182	32018	0	0	0	0	15	0	189854	1	1	
CROT	222199	876	3	33313	8498	0	0	0	0	50	0	428218	1	1	
CRP	737948	602	-2	11116	3143	0	0	0	0	50	0	454055	1	1	
CRTAC1	530090	369	12	33992	8890	0	0	0	0	50	0	437535	1	1	
CRTAM	651341	416	7	20328	5250	0	0	0	0	50	1	376026	1	1	
CRTAP	513008	372	33	20363	5467	0	0	0	0	50	0	416920	1	1	
CRTC1	1398467	222	29	32088	10143	0	0	0	0	50	0	397488	1	1	
CRTC2	2028800	222	34	33852	11004	0	0	0	0	50	0	359492	1	1	
CRTC3	1079582	204	41	30800	9436	0	0	0	0	50	0	353934	1	1	
CRX	881316	336	39	14483	4669	0	0	0	0	50	0	442512	1	1	
CRY1	169569	473	18	29988	7959	0	0	0	0	50	0	400288	1	1	
CRY2	429658	271	34	31227	9198	0	0	0	0	50	0	373387	1	1	
CRYAA	687433	279	59	8561	2611	0	0	0	0	50	0	373660	1	1	
CRYAB	437513	221	22	8708	2590	0	0	0	0	50	1	366919	1	1	
CRYBA1	1533931	159	32	11487	2583	0	0	0	0	50	0	424452	1	1	
CRYBA2	922162	386	35	10115	2737	0	0	0	0	50	0	365666	1	1	
CRYBA4	161795	547	-4	10164	2667	0	0	0	0	50	1	442302	1	1	
CRYBB1	162003	462	-9	12705	3696	0	0	0	0	50	0	437920	1	1	
CRYBB2	174680	535	-35	10773	2667	0	0	0	0	50	1	390999	1	1	
CRYBB3	247839	525	-31	10920	2856	0	0	0	0	50	1	416752	1	1	
CRYBG3	123806	723	0	52563	13440	0	0	0	0	41	0	308000	1	1	
CRYGA	321897	440	5	8918	2359	0	0	0	0	50	0	332094	1	1	
CRYGB	321897	440	5	9100	2240	0	0	0	0	50	0	332094	1	1	
CRYGC	327858	440	13	8925	2352	0	0	0	0	50	0	419454	1	1	
CRYGD	327858	440	13	8890	2345	0	0	0	0	50	0	419454	1	1	
CRYGN	612907	196	36	9506	2359	0	0	0	0	50	0	429317	1	1	
CRYGS	676664	501	35	9226	2261	0	0	0	0	50	0	494277	1	1	
CRYL1	346767	584	28	16401	4389	0	0	0	0	50	1	483028	1	1	
CRYM	467861	575	37	15827	4690	0	0	0	0	50	1	380548	1	1	
CRYZ	103167	1070	-17	16772	4690	0	0	0	0	50	0	455546	1	1	
CRYZL1	909314	375	58	18403	4655	0	0	0	0	50	0	356699	1	1	
CS	2878071	171	46	23464	6797	0	0	0	0	50	1	480760	1	1	
CSAD	1729009	191	55	26390	7693	0	0	0	0	50	0	359492	1	1	
CSAG1	NaN	NaN	NaN	4074	1155	0	0	0	0	31	2	344638	1	1	
CSAG2	NaN	NaN	NaN	12796	3584	0	0	0	0	50	2	783132	1	1	
CSAG3	202421	NaN	-2	12796	3584	0	0	0	0	50	2	363447	1	1	
CSDA	410051	455	-4	18473	5782	0	0	0	0	50	0	494606	1	1	
CSDC2	1467336	183	66	7483	2387	0	0	0	0	50	0	407708	1	1	
CSDE1	600480	472	3	43239	11592	0	0	0	0	50	0	378014	1	1	
CSE1L	862939	155	50	50309	12943	0	0	0	0	50	2	484596	1	1	
CSF1	785919	216	30	27510	8127	0	0	0	0	50	0	432383	1	1	

CSF1R	1127889	228	50	49245	13734	0	0	0	0	50	0	424207	1	1	
CSF2	362855	407	21	7392	2037	0	0	0	0	50	0	426356	1	1	
CSF2RA	NaN	NaN	NaN	26572	6503	0	0	0	0	50	2	786051	1	1	
CSF2RB	750264	469	44	43974	13608	0	0	0	0	50	2	437248	1	1	
CSF3	1652518	216	28	10241	3199	0	0	0	0	50	0	446271	1	1	
CSF3R	581032	347	31	46914	11067	0	0	0	0	50	1	498512	1	1	
CSGALNACT1	171847	356	17	26943	7140	0	0	0	0	50	0	370699	1	1	
CSGALNACT2	450604	563	-9	27615	7098	0	0	0	0	50	0	280210	1	1	
CSH1	1446139	380	27	15260	4039	0	0	0	0	50	0	368599	1	1	
CSH2	1446139	380	27	11711	3325	0	0	0	0	50	0	368599	1	1	
CSHL1	1446139	380	27	11473	3038	0	0	0	0	50	0	368599	1	1	
CSK	746043	199	41	23065	6356	0	0	0	0	50	0	431480	1	1	
CSMD1	10896	1290	-36	178052	48412	0	0	0	0	50	0	508949	1	1	
CSMD2	137660	907	16	176127	49455	0	0	0	0	50	0	372330	1	1	
CSMD3	9197	1295	-29	190113	50715	0	0	0	0	41	0	403004	1	1	
CSN1S1	9744	991	0	10822	2177	0	0	0	0	50	0	342160	1	1	
CSN2	9753	991	-4	11452	3395	0	0	0	0	50	0	367164	1	1	
CSN3	201562	928	3	9086	2779	0	0	0	0	50	1	415065	1	1	
CSNK1A1	607110	152	32	19243	4655	0	0	0	0	50	2	394891	1	1	
CSNK1A1L	156140	631	31	16877	4417	0	0	0	0	50	0	437374	1	1	
CSNK1D	2856070	193	24	21560	6139	0	0	0	0	50	0	390390	1	1	
CSNK1E	1550040	181	63	21098	6013	0	0	0	0	50	0	375382	1	1	
CSNK1G1	743794	263	43	21819	5670	0	0	0	0	50	1	429891	1	1	
CSNK1G2	1944774	239	36	21238	5810	0	0	0	0	50	0	438879	1	1	
CSNK1G3	121115	474	23	23912	5824	0	0	0	0	50	0	389011	1	1	
CSNK2A1	671817	229	40	20440	5180	0	0	0	0	50	1	450415	1	1	
CSNK2A2	862670	292	15	18459	4578	0	0	0	0	50	0	423633	1	1	
CSNK2B	2517236	193	20	11431	2681	0	0	0	0	50	0	540043	1	1	
CSPG4	578030	231	39	109333	37814	0	0	0	0	30	0	291739	1	1	
CSPG5	888051	200	35	26138	8218	0	0	0	0	50	1	452214	1	1	
CSPP1	353616	640	25	65429	16324	0	0	0	0	50	0	464604	1	1	
CSRNP1	213514	500	30	28735	8771	0	0	0	0	50	0	414883	1	1	
CSRNP2	564607	155	40	26593	8015	0	0	0	0	50	0	385154	1	1	
CSRNP3	104412	947	2	29323	7931	0	0	0	0	50	1	460712	1	1	
CSRP1	842013	209	26	10262	2653	0	0	0	0	50	0	337533	1	1	
CSRP2	182028	705	-11	10066	2555	0	0	0	0	50	0	543081	1	1	
CSRP2BP	782027	479	-6	39298	10787	0	0	0	0	50	1	313306	1	1	
CSRP3	132848	504	16	10101	2604	0	0	0	0	50	0	365463	1	1	
CST1	160568	881	-48	7161	1995	0	0	0	0	50	0	312326	1	1	
CST11	188567	750	-16	7343	1666	0	0	0	0	50	0	433853	1	1	
CST2	159399	889	-45	7161	1995	0	0	0	0	50	0	330869	1	1	
CST3	189028	819	-21	7203	2268	0	0	0	0	50	0	336714	1	1	
CST4	189028	819	-21	7168	1988	0	0	0	0	50	0	336714	1	1	
CST5	159399	889	-45	7322	1897	0	0	0	0	50	0	330869	1	1	
CST6	3854361	208	57	7413	2247	0	0	0	0	50	1	425138	1	1	
CST7	545344	676	-29	7413	2037	0	0	0	0	50	0	378532	1	1	
CST8	188567	750	-16	7252	1925	0	0	0	0	50	0	433853	1	1	
CST9	189307	772	-47	8106	2058	0	0	0	0	50	0	458731	1	1	
CST9L	189307	772	-47	7546	1946	0	0	0	0	50	0	458731	1	1	
CSTA	534078	602	44	5110	1295	0	0	0	0	50	2	439845	1	1	

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CSTB	919787	170	68	5096	1309	0	0	0	0	50	1	382837	1	1	
CSTF1	254679	672	-43	21658	5978	0	0	0	0	50	0	530740	1	1	
CSTF2	341945	NaN	21	29036	8512	0	0	0	0	50	0	489300	1	1	
CSTF2T	NaN	NaN	NaN	29435	9478	0	0	0	0	50	2	789026	1	1	
CSTF3	588753	326	16	39081	9702	0	0	0	0	50	1	414351	1	1	
CSTL1	188567	750	-16	7504	1904	0	0	0	0	50	0	433853	1	1	
CT45A1	NaN	NaN	NaN	9821	2485	0	0	0	0	50	2	782033	1	1	
CT45A2	NaN	NaN	NaN	9856	2450	0	0	0	0	50	2	781998	1	1	
CT45A3	NaN	NaN	NaN	9835	2471	0	0	0	0	50	2	782019	1	1	
CT45A4	NaN	NaN	NaN	19698	4914	0	0	0	0	50	2	784462	1	1	
CT45A5	246199	NaN	26	9849	2457	0	0	0	0	50	0	499149	1	1	
CT45A6	NaN	NaN	NaN	9842	2464	0	0	0	0	50	2	782012	1	1	
CT47A1	NaN	NaN	NaN	139930	43820	0	0	0	0	50	2	823368	1	1	
CT47A10	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A11	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A2	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A3	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A4	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A5	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A6	NaN	NaN	NaN	139930	43820	0	0	0	0	50	2	823368	1	1	
CT47A7	NaN	NaN	NaN	13993	4382	0	0	0	0	50	2	783930	1	1	
CT47A8	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47A9	NaN	NaN	NaN	125937	39438	0	0	0	0	50	2	818986	1	1	
CT47B1	NaN	NaN	NaN	14567	4501	0	0	0	0	50	2	784049	1	1	
CT62	276800	462	10	6846	1953	0	0	0	0	50	0	446677	1	1	
CTAG1A	NaN	NaN	NaN	17038	6188	0	0	0	0	50	2	785736	1	1	
CTAG1B	NaN	NaN	NaN	17038	6188	0	0	0	0	50	2	785736	1	1	
CTAG2	2090264	NaN	31	12068	4270	0	0	0	0	50	0	401149	1	1	
CTAGE1	162557	417	-9	37002	9996	0	0	0	0	50	0	409234	1	1	
CTAGE4	215477	711	-8	76832	21280	0	0	0	0	50	0	537565	1	1	
CTAGE5	314800	300	16	42532	10724	0	0	0	0	50	1	430486	1	1	
CTAGE6P	453170	544	-7	38451	10605	0	0	0	0	50	0	312242	1	1	
CTAGE9	NaN	NaN	NaN	38416	10598	0	0	0	0	50	2	790146	1	1	
CTBP1	858194	391	33	21875	6769	0	0	0	0	50	0	420315	1	1	
CTBP2	283236	508	20	48237	15876	0	0	0	0	50	0	446999	1	1	
CTBS	245445	585	-1	19684	5180	0	0	0	0	50	0	326711	1	1	
CTCF	1074126	147	45	37408	9296	0	0	0	0	50	0	441931	1	1	
CTCFL	181464	562	10	34132	8540	0	0	0	0	50	1	439950	1	1	
CTDP1	275544	498	-3	48146	13468	0	0	0	0	50	0	395808	1	1	
CTDSP1	734742	197	37	13132	3878	0	0	0	0	50	1	428834	1	1	
CTDSP2	1051368	243	40	13804	3920	0	0	0	0	50	0	378448	1	1	
CTDSPL	408788	457	22	14252	3829	0	0	0	0	50	0	457590	1	1	
CTDSPL2	697417	534	37	24038	6391	0	0	0	0	50	0	541884	1	1	
CTF1	1508459	247	46	9352	3584	0	0	0	0	50	0	404719	1	1	
CTGF	169902	699	-4	17563	4823	0	0	0	0	50	0	383271	1	1	
CTH	339263	379	-3	20902	5600	0	0	0	0	50	0	400813	1	1	
CTHRC1	428438	615	23	12047	3619	0	0	0	0	50	0	317562	1	1	
CTLA4	148748	632	18	11445	2919	0	0	0	0	50	0	333844	1	1	
CTNNA1	1432876	380	39	46053	12516	0	0	0	0	50	1	399700	1	1	
CTNNA2	10595	1614	-24	42350	11788	0	0	0	0	50	0	339920	1	1	

CTNNA3	14523	1168	-41	45654	12222	0	0	0	0	50	0	408625	1	1	
CTNNAL1	337834	433	14	37877	9982	0	0	0	0	50	1	358092	1	1	
CTNNB1	305811	448	8	39172	11354	0	0	0	0	50	0	365071	1	1	
CTNNBIP1	770684	193	34	4291	1127	0	0	0	0	50	0	381976	1	1	
CTNNBL1	720832	507	48	29372	7462	0	0	0	0	50	2	439880	1	1	
CTNND1	921177	497	8	48881	13762	0	0	0	0	50	1	338366	1	1	
CTNND2	15425	1060	-13	60760	18242	0	0	0	0	50	2	475132	1	1	
CTPS	341851	171	29	30723	8085	0	0	0	0	50	0	490931	1	1	
CTPS2	295447	NaN	30	30625	7868	0	0	0	0	50	1	446089	1	1	
CTR9	794670	261	20	60781	15197	0	0	0	0	50	0	331653	1	1	
CTRB1	612638	171	16	13237	3983	0	0	0	0	50	0	382319	1	1	
CTRB2	612638	171	16	13223	3997	0	0	0	0	50	0	382319	1	1	
CTRC	554165	212	29	13741	3878	0	0	0	0	50	1	482258	1	1	
CTRL	879834	158	50	13195	4046	0	0	0	0	50	2	467285	1	1	
CTSA	725555	209	59	25634	7105	0	0	0	0	50	1	380828	1	1	
CTSB	470951	301	42	17668	4508	0	0	0	0	50	2	412223	1	1	
CTSC	148974	526	-10	25634	6811	0	0	0	0	50	0	511266	1	1	
CTSD	NaN	NaN	NaN	20426	6265	0	0	0	0	50	2	785813	1	1	
CTSE	468286	400	32	21903	4683	0	0	0	0	50	1	383754	1	1	
CTSF	1343990	194	62	24528	7077	0	0	0	0	50	0	393302	1	1	
CTSG	897577	582	3	12600	3906	0	0	0	0	50	1	435834	1	1	
CTSH	421272	488	45	17738	4396	0	0	0	0	50	1	449652	1	1	
CTSK	1818753	188	35	16954	4403	0	0	0	0	50	1	459641	1	1	
CTSL1	122983	577	26	17402	4228	0	0	0	0	50	0	388122	1	1	
CTSL2	339842	464	24	17395	4298	0	0	0	0	50	0	564165	1	1	
CTSO	44515	745	-2	16569	4347	0	0	0	0	50	0	513478	1	1	
CTSS	1818753	188	35	17087	4396	0	0	0	0	50	1	459641	1	1	
CTSW	3779084	287	42	19271	5278	0	0	0	0	50	1	388185	1	1	
CTSZ	1009250	152	30	15267	4305	0	0	0	0	50	0	403900	1	1	
CTTN	511118	530	43	35532	9135	0	0	0	0	50	1	475391	1	1	
CTTNBP2	96915	674	-11	83146	23576	0	0	0	0	50	1	567742	1	1	
CTTNBP2NL	559406	335	23	31388	9268	0	0	0	0	50	0	421666	1	1	
CTU1	NaN	NaN	NaN	15946	6209	0	0	0	0	50	2	785757	1	1	
CTU2	802673	189	41	26152	7616	0	0	0	0	50	0	408009	1	1	
CTXN1	952640	320	27	3955	1358	0	0	0	0	50	0	411586	1	1	
CTXN2	NaN	NaN	NaN	4144	1106	0	0	0	0	31	2	344589	1	1	
CTXN3	284904	682	29	4025	1225	0	0	0	0	50	0	445431	1	1	
CUBN	529248	641	-4	184940	48958	0	0	1	0	50	1	433762	1	1	
CUEDC1	873797	222	6	19579	5558	0	0	0	0	50	0	380625	1	1	
CUEDC2	975992	178	39	14770	4046	0	0	0	0	50	0	510860	1	1	
CUL1	517446	532	0	40691	9940	0	0	0	0	50	0	442554	1	1	
CUL2	209586	319	7	39564	9114	0	0	0	0	50	0	375354	1	1	
CUL3	255624	463	20	39746	9961	0	0	0	0	50	0	494438	1	1	
CUL4A	787509	214	46	39725	9793	0	0	0	0	50	1	408212	1	1	
CUL4B	416744	NaN	14	47901	11676	0	0	0	0	50	0	453131	1	1	
CUL5	421044	572	14	41013	9702	0	0	0	0	50	0	380947	1	1	
CUL7	1239021	301	42	88074	26523	0	0	0	0	22	0	288099	1	1	
CUL9	1308754	363	35	125020	36974	0	0	0	0	50	1	439250	1	1	
CUTA	1441897	236	31	10535	3451	0	0	0	0	50	0	390558	1	1	
CUTC	709789	139	18	13951	3983	0	0	0	0	50	0	432859	1	1	

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CUX1	554381	461	45	89768	25669	0	0	0	0	50	1	513191	1	1	
CUX2	493539	608	39	72905	22540	0	0	1	0	50	2	413217	1	1	
CUZD1	301441	588	12	30737	8239	0	0	0	0	50	0	379218	1	1	
CWC15	305262	504	-10	12019	2954	0	0	0	0	50	0	477932	1	1	
CWC22	35642	927	7	47362	11417	0	0	0	0	50	0	498141	1	1	
CWC25	1198833	207	37	22036	5558	0	0	0	0	50	1	357490	1	1	
CWC27	132018	601	8	24990	5901	0	0	0	0	50	1	405727	1	1	
CWF19L1	1070791	198	40	27909	7182	0	0	0	0	50	0	350847	1	1	
CWF19L2	147499	853	-10	46970	10885	0	0	0	0	50	1	553322	1	1	
CWH43	246165	439	49	35658	9702	0	0	0	0	50	1	506527	1	1	
CX3CL1	749108	159	39	19068	6216	0	0	0	0	50	1	361277	1	1	
CX3CR1	159083	507	38	19145	5425	0	0	0	0	50	1	428729	1	1	
CXADR	100910	366	-17	18466	5096	0	0	0	0	50	0	378462	1	1	
CXCL1	233432	444	6	5376	1722	0	0	0	0	50	0	422849	1	1	
CXCL10	489826	399	43	5180	1351	0	0	0	0	50	1	410424	1	1	
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CXCL12	33976	922	-34	9163	2492	0	0	0	0	50	0	379960	1	1	
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CXCL17	704668	235	34	6258	1554	0	0	0	0	50	0	366135	1	1	
CXCL2	199590	368	13	5362	1694	0	0	0	0	50	0	420196	1	1	
CXCL3	199590	368	13	5362	1694	0	0	0	0	50	0	420196	1	1	
CXCL5	230379	408	2	5747	1750	0	0	0	0	50	0	465437	1	1	
CXCL6	233432	444	6	5614	1883	0	0	0	0	50	0	422849	1	1	
CXCL9	489826	399	43	6531	1701	0	0	0	0	50	1	410424	1	1	
CXCR1	718028	301	27	16856	5341	0	0	0	0	50	1	528402	1	1	
CXCR2	694517	301	27	17262	5565	0	0	0	0	50	1	481782	1	1	
CXCR3	947642	NaN	52	19712	6916	0	0	0	0	50	2	406693	1	1	
CXCR4	431866	406	42	17738	5152	0	0	0	0	50	2	400932	1	1	
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CXCR6	NaN	NaN	NaN	16933	4760	0	0	0	0	50	2	784308	1	1	
CXCR7	121886	599	10	17780	5173	0	0	0	0	50	0	375641	1	1	
CXXC1	247194	379	68	33628	9191	0	0	0	0	50	1	426090	1	1	
CXXC4	18498	982	18	9737	2926	0	0	0	0	50	0	436898	1	1	
CXXC5	659730	244	42	15540	4893	0	0	0	0	50	1	463631	1	1	
CXorf1	1641	NaN	-34	5607	1449	0	0	0	0	28	0	199318	1	1	
CXorf21	81961	NaN	21	15092	3997	0	0	0	0	50	0	438627	1	1	
CXorf23	339910	NaN	56	35343	8526	0	0	0	0	50	1	261940	1	1	
CXorf26	102519	NaN	16	12187	2975	0	0	0	0	50	0	470008	1	1	
CXorf27	106141	NaN	28	5985	1491	0	0	0	0	50	0	536312	1	1	
CXorf30	NaN	NaN	NaN	32816	8302	0	0	0	0	50	2	787850	1	1	
CXorf36	72853	NaN	50	22211	6622	0	0	0	0	50	0	366205	1	1	
CXorf38	467563	NaN	63	16310	4375	0	0	0	0	50	0	367619	1	1	
CXorf40A	187616	NaN	16	8078	2338	0	0	0	0	50	0	406749	1	1	
CXorf40B	280868	NaN	34	7868	2317	0	0	0	0	50	0	348761	1	1	
CXorf41	229024	NaN	26	11333	2716	0	0	0	0	50	0	415205	1	1	
CXorf48	228366	NaN	23	13412	3745	0	0	0	0	50	0	381311	1	1	
CXorf49	NaN	NaN	NaN	50162	15526	0	0	0	0	50	2	795074	1	1	
CXorf49B	NaN	NaN	NaN	50162	15526	0	0	0	0	50	2	795074	1	1	

CXorf51	NaN	NaN	NaN	10906	3164	0	0	0	0	50	2	782712	1	1	
CXorf56	617823	NaN	30	11739	2898	0	0	1	0	3	1	25193	1	1	
CXorf57	148900	NaN	12	43442	11578	0	0	0	0	50	0	347494	1	1	
CXorf58	528624	NaN	37	17269	4382	0	0	0	0	50	0	432943	1	1	
CXorf59	3834	NaN	-17	26061	6468	0	0	0	0	50	0	437549	1	1	
CXorf61	82720	NaN	4	5649	1659	0	0	0	0	16	0	116795	1	1	
CXorf64	NaN	NaN	NaN	14357	4606	0	0	0	0	50	2	784154	1	1	
CXorf65	759088	NaN	27	9681	2373	0	0	0	0	50	0	509495	1	1	
CXorf66	66755	NaN	14	18060	4956	0	0	0	0	50	0	432572	1	1	
CYB561	874574	267	-20	12320	3976	0	0	0	0	50	1	403809	1	1	
CYB561D1	1056159	272	37	14700	3885	0	0	0	0	50	0	353479	1	1	
CYB561D2	843769	206	51	10493	3808	0	0	0	0	50	0	402556	1	1	
CYB5A	152675	989	26	7399	1757	0	0	0	0	50	0	379890	1	1	
CYB5B	1161561	NaN	46	7854	2037	0	0	0	0	50	0	407624	1	1	
CYB5D1	2148615	337	24	11424	3255	0	0	0	0	50	0	550480	1	1	
CYB5D2	753798	357	30	12901	4046	0	0	0	0	50	0	418558	1	1	
CYB5R1	421206	389	30	15344	4648	0	0	0	0	50	1	405342	1	1	
CYB5R2	100503	853	13	14392	3731	0	0	0	0	50	0	394716	1	1	
CYB5R3	858524	189	74	17591	4711	0	0	0	0	50	0	427070	1	1	
CYB5R4	87867	870	-12	27440	6706	0	0	0	0	50	1	621642	1	1	
CYB5RL	465615	313	26	16009	4403	0	0	0	0	50	0	361431	1	1	
CYBA	802673	189	41	9758	3094	0	0	0	0	50	0	408009	1	1	
CYBASC3	1394229	286	57	12901	3899	0	0	0	0	50	0	352380	1	1	
CYBB	105298	NaN	9	29176	7847	0	0	0	0	50	0	485457	1	1	
CYBRD1	486534	352	34	15533	2800	0	0	0	0	50	0	345345	1	1	
CYC1	2720766	211	27	15988	5096	0	0	0	0	50	0	518427	1	1	
CYCS	254010	319	11	5509	1337	0	0	0	0	50	0	399973	1	1	
CYFIP1	352283	539	-19	70581	18900	0	0	0	0	50	1	537348	1	1	
CYFIP2	266925	1129	33	64610	16912	0	0	0	0	50	0	426734	1	1	
CYGB	1016866	197	24	9541	2744	0	0	0	0	50	0	404348	1	1	
CYHR1	2043455	200	36	22974	7182	0	0	0	0	50	0	332850	1	1	
CYLC1	19326	NaN	-45	33460	8036	0	0	0	0	50	0	427028	1	1	
CYLC2	13384	1215	-31	18214	4151	0	0	0	0	50	0	504952	1	1	
CYLD	279624	792	2	48895	12740	0	0	0	0	50	0	404103	1	1	
CYP11A1	641004	222	46	26201	7357	0	0	0	0	50	1	445788	1	1	
CYP11B1	447193	438	36	25116	7350	0	0	0	0	50	1	410473	1	1	
CYP11B2	447193	438	36	25081	7385	0	0	0	0	50	1	410473	1	1	
CYP17A1	883280	188	44	25424	7231	0	0	0	0	50	0	375508	1	1	
CYP19A1	263003	535	17	25907	6601	0	0	0	0	50	1	456589	1	1	
CYP1A1	746043	199	41	25431	7392	0	0	0	0	50	0	431480	1	1	
CYP1A2	746043	199	41	25452	7623	0	0	0	0	50	0	431480	1	1	
CYP1B1	716797	384	25	26194	8225	0	0	0	0	50	0	583513	1	1	
CYP20A1	417679	298	23	23940	6237	0	0	0	0	50	0	400610	1	1	
CYP21A2	NaN	NaN	NaN	48790	15155	0	0	0	0	50	2	794703	1	1	
CYP24A1	158398	386	-31	26292	7077	0	0	0	0	50	0	433895	1	1	
CYP26A1	558273	470	18	24661	7343	0	0	0	0	50	0	378427	1	1	
CYP26B1	72898	411	-5	24920	7819	0	0	0	0	50	0	403144	1	1	
CYP26C1	558273	470	18	24605	8743	0	0	0	0	50	0	378427	1	1	
CYP27A1	1077853	296	40	26334	7854	0	0	0	0	50	0	491456	1	1	
CYP27B1	1160849	344	39	24535	8204	0	0	0	0	50	1	396711	1	1	

CYP27C1	354277	226	19	18690	5397	0	0	0	0	50	2	427903	1	1	
CYP2A13	1004808	354	10	24941	6958	0	0	0	0	50	1	263221	1	1	
CYP2A6	1187304	275	31	25004	6895	0	0	0	0	50	2	343385	1	1	
CYP2A7	1187304	275	31	25207	6860	0	0	0	0	50	2	343385	1	1	
CYP2B6	1041792	375	14	24682	7028	0	0	0	0	50	1	307958	1	1	
CYP2C18	250078	725	1	25053	6552	0	0	0	0	50	0	459550	1	1	
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CYP2C8	318306	717	-10	24976	6671	0	0	0	0	50	0	436114	1	1	
CYP2D6	1296288	363	43	24332	7798	0	0	0	0	50	1	450072	1	1	
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CYP2F1	1016551	354	11	24493	7259	0	0	0	0	50	1	283395	1	1	
CYP2J2	60418	824	-6	25522	6881	0	0	0	0	50	0	365673	1	1	
CYP2R1	353856	596	-13	25095	6867	0	0	0	0	50	0	306068	1	1	
CYP2S1	1098360	209	13	24318	8211	0	0	0	0	50	0	357868	1	1	
CYP2U1	144587	735	6	26908	7805	0	0	0	0	50	1	490266	1	1	
CYP2W1	765060	346	34	23373	8274	0	0	0	0	50	0	410186	1	1	
CYP39A1	113763	596	0	24395	6139	0	0	0	0	50	0	381255	1	1	
CYP3A4	1430454	438	42	25984	6776	0	0	0	0	50	0	455763	1	1	
CYP3A43	1535089	438	36	26278	6566	0	0	0	0	50	0	427399	1	1	
CYP3A5	1395063	430	34	25816	6923	0	0	0	0	50	0	357644	1	1	
CYP3A7	1430454	438	42	25886	6895	0	0	0	0	50	0	455763	1	1	
CYP46A1	375738	250	21	25312	7427	0	0	0	0	50	1	422653	1	1	
CYP4A11	492091	578	5	26376	7350	0	0	0	0	50	0	440671	1	1	
CYP4A22	364960	414	3	26418	7350	0	0	0	0	50	0	400848	1	1	
CYP4B1	658240	475	8	26187	7098	0	0	0	0	50	0	373527	1	1	
CYP4F11	843515	575	12	26768	7294	0	0	0	0	50	1	426342	1	1	
CYP4F12	865205	605	21	26782	7322	0	0	0	0	50	0	437794	1	1	
CYP4F2	825892	575	15	26474	7336	0	0	0	0	50	1	435736	1	1	
CYP4F22	772367	543	20	26803	7700	0	0	0	0	50	0	481327	1	1	
CYP4F3	852124	605	29	26474	7336	0	0	0	0	50	0	506842	1	1	
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CYP4V2	371112	606	-2	26971	7007	0	0	0	0	50	0	436163	1	1	
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CYP4Z1	366455	479	4	26313	6531	0	0	0	0	50	0	390789	1	1	
CYP51A1	691564	461	26	25809	7077	0	0	0	0	50	0	428267	1	1	
CYP7A1	200469	608	11	25564	6713	0	0	0	0	50	1	450359	1	1	
CYP7B1	8894	1018	22	25543	6818	0	0	0	0	50	0	416010	1	1	
CYP8B1	301212	447	21	24486	7140	0	0	0	0	50	0	483644	1	1	
CYR61	296507	345	13	19138	5264	0	0	0	0	50	1	437360	1	1	
CYS1	863812	214	44	7497	2688	0	0	0	0	50	0	442561	1	1	
CYSLTR1	486217	NaN	-9	16835	4585	0	0	0	0	50	0	401023	1	1	
CYSLTR2	404943	430	46	16905	4998	0	0	0	0	50	1	462287	1	1	
CYTH1	986469	250	32	21182	5005	0	0	0	0	50	2	441763	1	1	
CYTH2	1418188	209	41	20741	5446	0	0	0	0	50	0	640500	1	1	
CYTH3	NaN	NaN	NaN	21140	5068	0	0	0	0	50	2	784616	1	1	
CYTH4	902502	201	61	20769	5124	0	0	0	0	50	2	329490	1	1	
CYTIP	79169	895	18	18459	4851	0	0	0	0	50	0	446691	1	1	
CYTL1	76400	557	36	6762	2163	0	0	0	0	50	0	417130	1	1	
CYTSA	702019	200	38	56371	15323	0	0	0	0	50	1	434476	1	1	
CYTSB	302887	339	-13	54488	15421	0	0	0	0	50	1	362670	1	1	

CYYR1	345442	626	-75	7784	2233	0	0	0	0	21	0	158599	1	1	
CYorf15A	0	0	0	6902	1666	0	0	0	0	50	1	416332	1	1	
CYorf15B	0	0	0	9338	2380	0	0	0	0	50	1	416332	1	1	
D2HGDH	960711	380	30	25396	8246	0	0	0	0	50	0	386890	1	1	
D4S234E	143657	525	46	9415	2639	0	0	0	0	50	0	509943	1	1	
DAAM1	156241	405	32	55979	14098	0	0	0	0	50	0	432971	1	1	
DAAM2	53428	914	26	54481	14819	0	0	0	0	50	1	435708	1	1	
DAB1	22463	1004	-12	28462	7658	0	0	0	0	50	2	469042	1	1	
DAB2	167695	374	-7	38647	11081	0	0	0	0	50	0	433531	1	1	
DAB2IP	448984	475	22	57428	17332	0	0	0	0	50	0	460166	1	1	
DACH1	30451	1135	-22	34895	10612	0	0	0	0	50	0	410620	1	1	
DACH2	49531	NaN	-32	30422	8533	0	0	0	0	50	0	429583	1	1	
DACT1	303507	489	32	40425	12558	0	0	0	0	50	1	393344	1	1	
DACT2	NaN	NaN	NaN	36778	12341	0	0	0	0	50	2	791889	1	1	
DAD1	975314	380	49	5656	1736	0	0	0	0	50	1	473669	1	1	
DAG1	1657622	236	28	42371	14161	0	0	0	0	50	0	452564	1	1	
DAGLA	1235604	208	58	51275	16030	0	0	0	0	50	0	497329	1	1	
DAGLB	NaN	NaN	NaN	34279	9296	0	0	0	0	50	2	788844	1	1	
DAK	1394229	286	57	28301	9331	0	0	0	0	50	0	352380	1	1	
DALRD3	1799657	241	41	26635	8645	0	0	0	0	50	0	446040	1	1	
DAND5	1886809	335	40	8946	3150	0	0	0	0	50	0	357672	1	1	
DAO	494991	393	49	17745	5019	0	0	0	0	50	0	474761	1	1	
DAOA	13092	1235	-28	10367	2044	0	0	0	0	50	0	448777	1	1	
DAP	630950	435	29	5362	1379	0	0	0	0	50	1	409542	1	1	
DAP3	2240116	152	32	20769	5376	0	0	0	0	50	0	465374	1	1	
DAPK1	141078	494	26	71897	20272	0	0	0	0	50	0	420868	1	1	
DAPK2	678778	261	45	19369	4928	0	0	0	0	50	1	432418	1	1	
DAPK3	2173603	207	30	22715	6580	0	0	0	0	50	1	416745	1	1	
DAPL1	270644	361	14	5579	1519	0	0	0	0	50	1	421323	1	1	
DAPP1	204991	693	19	14609	3808	0	0	0	0	50	0	353311	1	1	
DARC	99569	785	14	16233	5691	0	0	0	0	50	0	363223	1	1	
DARS	440321	410	30	26348	6538	0	0	0	0	50	0	419020	1	1	
DARS2	442819	385	11	33103	8939	0	0	0	0	50	0	527317	1	1	
DAXX	1456953	262	30	37324	11207	0	0	0	0	50	0	411845	1	1	
DAZ1	NaN	NaN	NaN	38626	10577	0	0	0	0	50	2	790125	1	1	
DAZ2	NaN	NaN	NaN	57463	15239	0	0	0	0	50	2	794787	1	1	
DAZ3	NaN	NaN	NaN	67879	18053	0	0	0	0	50	2	797601	1	1	
DAZ4	NaN	NaN	NaN	78442	21119	0	0	0	0	50	2	800667	1	1	
DAZAP1	2352825	221	38	22267	6314	0	0	0	0	50	0	360416	1	1	
DAZAP2	494861	194	40	15582	3297	0	0	0	0	50	0	344659	1	1	
DAZL	140687	470	24	15414	4074	0	0	0	0	50	0	380128	1	1	
DBC1	3696	1010	-25	38367	10227	0	0	0	0	50	0	448287	1	1	
DBF4	202733	758	14	34986	8463	0	0	0	0	50	0	434343	1	1	
DBF4B	1261173	175	29	31759	9044	0	0	0	0	50	0	425817	1	1	
DBH	765804	481	31	30912	8988	0	0	0	0	50	0	506828	1	1	
DBI	203559	497	35	9772	2534	0	0	0	0	50	1	409080	1	1	
DBN1	1079488	261	50	34139	9877	0	0	0	0	50	0	324793	1	1	
DBNDD1	1056657	221	35	9443	2821	0	0	0	0	50	0	322357	1	1	
DBNDD2	1037999	382	35	9191	2611	0	0	0	0	50	0	342685	1	1	
DBNL	1096873	226	52	22771	5999	0	0	0	0	50	0	448161	1	1	

DBP	1597109	242	31	15232	5558	0	0	0	0	50	0	408625	1	1	
DBR1	190056	464	9	27783	7140	0	0	0	0	50	0	438935	1	1	
DBT	314135	495	9	24591	6720	0	0	0	0	50	0	411355	1	1	
DBX1	175444	453	-5	18249	6132	0	0	0	0	50	0	379589	1	1	
DBX2	126551	805	-18	16401	5271	0	0	0	0	50	0	441896	1	1	
DCAF10	477149	524	35	27209	8617	0	0	0	0	50	0	408282	1	1	
DCAF11	992350	355	19	28049	7588	0	0	0	0	50	0	418383	1	1	
DCAF12	779457	142	39	22680	6594	0	0	0	0	50	0	413119	1	1	
DCAF12L1	11311	NaN	-16	22106	7210	0	0	0	0	50	1	491071	1	1	
DCAF12L2	11596	NaN	-29	21973	7259	0	0	0	0	50	0	454167	1	1	
DCAF13	430771	673	28	31017	8526	0	0	0	0	50	0	451759	1	1	
DCAF15	930314	231	32	30121	8792	0	0	0	0	50	2	363461	1	1	
DCAF16	271201	1073	21	10500	3171	0	0	0	0	50	1	414239	1	1	
DCAF17	514096	271	38	26845	7112	0	0	0	0	50	0	384853	1	1	
DCAF4	354097	341	41	26103	6300	0	0	0	0	50	0	415877	1	1	
DCAF4L1	272281	261	25	19166	5887	0	0	0	0	50	1	440965	1	1	
DCAF4L2	26672	994	-27	19061	5929	0	0	0	0	50	0	502551	1	1	
DCAF5	680338	289	33	46501	13580	0	0	0	0	50	0	476231	1	1	
DCAF6	505920	417	13	45052	12089	0	0	0	0	50	0	387142	1	1	
DCAF7	934619	247	-1	17304	4830	0	0	0	0	50	0	348152	1	1	
DCAF8	866729	355	27	30499	8183	0	0	0	0	50	0	427455	1	1	
DCAF8L1	10501	NaN	25	29603	8260	0	0	0	0	50	0	401331	1	1	
DCAF8L2	NaN	NaN	NaN	31402	8498	0	0	0	0	50	2	788046	1	1	
DCAKD	831501	191	28	11319	3549	0	0	0	0	50	0	468370	1	1	
DCBLD1	189294	465	9	30212	8134	0	0	0	0	50	0	445809	1	1	
DCBLD2	337232	411	6	39123	11025	0	0	0	0	50	1	338282	1	1	
DCC	2849	995	-34	72618	20958	0	0	0	0	50	0	486549	1	1	
DCD	615189	494	31	5733	1638	0	0	0	0	50	1	496139	1	1	
DCDC1	84163	938	-25	18109	4844	0	0	0	0	50	0	459830	1	1	
DCDC2	362257	711	-12	26327	6622	0	0	0	0	50	0	390887	1	1	
DCDC2B	1460758	218	29	17318	5404	0	0	0	0	50	0	426384	1	1	
DCHS1	424523	491	17	153762	55671	0	0	0	0	7	0	102879	1	1	
DCHS2	63258	1024	3	179606	52969	0	0	1	0	14	1	158858	1	1	
DCI	2199935	194	42	14903	4732	0	0	0	0	50	0	422310	1	1	
DCK	267678	690	22	13741	3206	0	0	0	0	48	0	461258	1	1	
DCLK1	82515	1033	-14	36918	10500	0	0	0	0	50	0	427875	1	1	
DCLK2	88181	409	-4	38465	11158	0	0	0	0	50	0	416024	1	1	
DCLK3	374894	617	-14	32326	8813	0	0	0	0	50	0	304136	1	1	
DCLRE1A	264051	515	7	52472	13783	0	0	0	0	50	0	433307	1	1	
DCLRE1B	335231	545	13	26061	7770	0	0	0	0	50	0	388913	1	1	
DCLRE1C	255711	396	38	35623	9170	0	0	0	0	50	0	405195	1	1	
DCN	24351	591	-19	18256	5012	0	0	0	0	50	0	354228	1	1	
DCP1A	782208	167	43	28896	8589	0	0	0	0	50	2	458598	1	1	
DCP1B	232517	618	29	30702	8946	0	0	0	0	50	1	373212	1	1	
DCP2	274112	439	25	22155	5208	0	0	0	0	50	0	396158	1	1	
DCPS	367696	426	30	16814	4900	0	0	0	0	50	1	486171	1	1	
DCST1	1696720	214	44	35679	10248	0	0	0	0	50	0	471681	1	1	
DCST2	1654795	214	40	38332	11732	0	0	0	0	50	0	486906	1	1	
DCT	123751	906	0	28028	7567	0	0	0	0	50	1	358722	1	1	
DCTD	204483	431	-12	10108	2282	0	0	0	0	50	0	413231	1	1	

DCTN1	1086740	343	42	64575	18816	0	0	0	0	50	0	361529	1	1	
DCTN2	1347795	303	44	20615	5824	0	0	0	0	50	2	582323	1	1	
DCTN3	731413	298	51	11340	3024	0	0	0	0	50	0	319746	1	1	
DCTN4	1015949	211	43	24241	6377	0	0	1	0	50	2	464457	1	1	
DCTN5	544239	561	38	9520	2471	0	0	0	0	50	1	465031	1	1	
DCTN6	452029	297	47	9982	2597	0	0	0	0	50	0	422926	1	1	
DCTPP1	2338593	142	59	8316	2667	0	0	0	0	50	0	432796	1	1	
DCUN1D1	232043	574	13	13902	3024	0	0	0	0	50	0	345352	1	1	
DCUN1D2	806605	318	46	13699	3227	0	0	0	0	50	1	480116	1	1	
DCUN1D3	252367	503	32	15148	4151	0	0	0	0	50	0	405342	1	1	
DCUN1D4	70055	766	17	15855	3444	0	0	0	0	50	0	387345	1	1	
DCUN1D5	166625	585	-9	12719	2863	0	0	0	0	50	0	418439	1	1	
DCX	131531	NaN	13	22561	6104	0	0	0	0	50	0	405776	1	1	
DCXR	3814891	211	28	12208	3899	0	0	0	0	50	1	350889	1	1	
DDA1	842088	211	43	5439	1386	0	0	0	0	50	0	425502	1	1	
DDAH1	309815	308	0	14336	4102	0	0	0	0	50	0	520387	1	1	
DDAH2	2517236	193	20	13671	4851	0	0	0	0	50	0	540043	1	1	
DDB1	1259416	286	50	58163	15904	0	0	0	0	50	0	404117	1	1	
DDB2	1274054	198	38	21749	5971	0	0	0	0	50	0	361858	1	1	
DDC	180088	561	11	24675	6804	0	0	0	0	50	0	403494	1	1	
DDHD1	306643	448	20	45626	12670	0	0	0	0	50	0	482825	1	1	
DDHD2	734603	277	44	37828	9716	0	0	0	0	50	1	417256	1	1	
DDI1	NaN	NaN	NaN	19215	5796	0	0	0	0	50	2	785344	1	1	
DDI2	677127	162	28	20356	5642	0	0	0	0	50	1	330337	1	1	
DDIT3	1347795	303	44	8449	2429	0	0	0	0	50	2	582323	1	1	
DDIT4	808655	145	40	11130	3717	0	0	0	0	50	0	355698	1	1	
DDIT4L	193061	795	-8	9660	2730	0	0	0	0	50	1	387639	1	1	
DDN	1737773	214	55	33250	11732	0	0	0	0	50	0	365197	1	1	
DDO	248863	469	20	18193	5495	0	0	0	0	50	0	449379	1	1	
DDOST	631461	208	35	22988	6643	0	0	0	0	50	0	429954	1	1	
DDR1	2223866	223	25	45367	14021	0	0	0	0	50	1	455560	1	1	
DDR2	322980	293	9	43561	11711	0	0	0	0	50	0	444178	1	1	
DDRGK1	909603	255	55	15862	4697	0	0	0	0	50	0	336644	1	1	
DDT	NaN	NaN	NaN	5908	1883	0	0	0	0	50	2	781431	1	1	
DDTL	NaN	NaN	NaN	6608	2107	0	0	0	0	50	2	781655	1	1	
DDX1	186504	1386	10	39228	9555	0	0	0	0	50	0	436849	1	1	
DDX10	250455	616	2	45493	11165	0	0	0	0	50	0	411859	1	1	
DDX11	335562	591	-4	50925	12537	0	0	0	0	50	0	307741	1	1	
DDX17	1313632	177	31	36652	10493	0	0	0	0	50	0	422562	1	1	
DDX18	194969	760	-7	34349	9058	0	0	0	0	50	0	466347	1	1	
DDX19A	1126886	134	44	24738	6405	0	0	0	0	50	0	439103	1	1	
DDX19B	1317982	139	47	24752	6412	0	0	0	0	50	0	461279	1	1	
DDX20	333198	440	25	41601	11214	0	0	0	0	50	0	416563	1	1	
DDX21	860888	246	52	39998	10612	0	0	0	0	50	0	363587	1	1	
DDX23	1655612	214	57	41566	11459	0	0	0	0	50	0	392147	1	1	
DDX24	200295	605	47	42889	11963	0	0	0	0	50	0	378406	1	1	
DDX25	611330	414	14	24955	6461	0	0	0	0	50	0	399581	1	1	
DDX26B	236195	NaN	25	43652	11998	0	0	0	0	50	0	432068	1	1	
DDX27	886628	261	50	40992	10941	0	0	0	0	50	1	473354	1	1	
DDX28	863919	158	54	25095	9030	0	0	0	0	50	1	449218	1	1	

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DDX31	1546589	581	42	42994	12425	0	0	0	0	50	1	570381	1	1	
DDX39	954144	204	43	21987	5817	0	0	0	0	50	2	438277	1	1	
DDX3X	627364	NaN	54	34356	8757	0	0	0	0	50	1	414337	1	1	
DDX3Y	0	0	0	34230	8841	0	0	0	0	50	1	416332	1	1	
DDX4	331341	486	34	38409	9891	0	0	0	0	50	0	355551	1	1	
DDX41	1120311	347	41	31927	8708	0	0	0	0	50	1	391951	1	1	
DDX42	1259976	346	12	47740	12845	0	0	0	0	50	0	497035	1	1	
DDX43	723493	232	21	33509	8722	0	0	0	0	50	0	402409	1	1	
DDX46	893816	193	36	53214	13650	0	0	0	0	50	1	454664	1	1	
DDX47	742991	129	27	23121	6573	0	0	0	0	50	0	438585	1	1	
DDX49	1390116	198	20	24311	7231	0	0	0	0	30	0	234598	1	1	
DDX5	1171555	184	15	31514	8239	0	0	0	0	11	0	86107	1	1	
DDX50	897697	246	45	37415	10255	0	0	0	0	50	0	474180	1	1	
DDX51	608356	528	26	32697	10542	0	0	0	0	50	2	444164	1	1	
DDX52	585337	340	23	30912	8106	0	0	0	0	50	0	426223	1	1	
DDX53	86947	NaN	6	31262	8596	0	0	0	0	50	0	379358	1	1	
DDX54	468053	252	35	43904	13363	0	0	0	0	50	0	416549	1	1	
DDX55	929791	224	44	30849	8148	0	0	0	0	50	1	510636	1	1	
DDX56	1462615	191	56	27321	8295	0	0	0	0	50	0	378770	1	1	
DDX58	426359	362	-12	48237	11529	0	0	0	0	50	1	432957	1	1	
DDX59	371965	276	13	31129	8519	0	0	0	0	50	1	484260	1	1	
DDX6	1493911	154	36	24955	6545	0	0	0	0	50	0	505869	1	1	
DDX60	83741	350	-10	88725	22218	0	0	0	0	50	2	475524	1	1	
DDX60L	134820	238	-11	88634	21931	0	0	0	0	50	2	506457	1	1	
DEAF1	1774224	236	57	28049	8533	0	0	0	0	50	0	351330	1	1	
1-Dec	117692	604	-17	3857	952	0	0	0	0	35	0	342454	1	1	
DECR1	272948	534	25	17059	4907	0	0	0	0	50	0	372596	1	1	
DECR2	1549307	207	37	14511	4578	0	0	0	0	50	0	510363	1	1	
DEDD	NaN	NaN	NaN	15820	4613	0	0	0	0	50	2	784161	1	1	
DEDD2	790787	299	37	15428	5509	0	0	0	0	50	0	501109	1	1	
DEF6	682809	264	39	31934	8764	0	0	0	0	50	1	497224	1	1	
DEF8	1056657	221	35	27426	7539	0	0	0	0	50	0	322357	1	1	
DEFA1	NaN	NaN	NaN	14357	4102	0	0	0	0	50	2	783650	1	1	
DEFA1B	132154	699	-1	14357	4102	0	0	0	0	50	0	421155	1	1	
DEFA3	132154	699	-1	4795	1358	0	0	0	0	50	0	421155	1	1	
DEFA4	131884	628	11	4865	1477	0	0	0	0	50	0	392308	1	1	
DEFA5	124400	715	-3	4648	1463	0	0	0	0	50	0	358400	1	1	
DEFA6	131884	628	11	5068	1421	0	0	0	0	50	0	392308	1	1	
DEFB1	131884	628	11	3507	924	0	0	0	0	50	0	392308	1	1	
DEFB103A	NaN	NaN	NaN	7084	1904	0	0	0	0	50	2	781452	1	1	
DEFB103B	NaN	NaN	NaN	7084	1904	0	0	0	0	50	2	781452	1	1	
DEFB104A	NaN	NaN	NaN	7616	1918	0	0	0	0	50	2	781466	1	1	
DEFB104B	NaN	NaN	NaN	7616	1918	0	0	0	0	50	2	781466	1	1	
DEFB105A	NaN	NaN	NaN	8330	1918	0	0	0	0	50	2	781466	1	1	
DEFB105B	NaN	NaN	NaN	8330	1918	0	0	0	0	50	2	781466	1	1	
DEFB106A	NaN	NaN	NaN	7028	1624	0	0	0	0	31	2	345107	1	1	
DEFB106B	NaN	NaN	NaN	7028	1624	0	0	0	0	31	2	345107	1	1	
DEFB107A	NaN	NaN	NaN	7462	1820	0	0	0	0	50	2	781368	1	1	
DEFB107B	NaN	NaN	NaN	7462	1820	0	0	0	0	50	2	781368	1	1	
DEFB108B	727046	465	37	3780	945	0	0	0	0	36	0	310814	1	1	

DEFB110	70183	1258	-7	6062	1162	0	0	0	0	45	1	301308	1	1	
DEFB112	65301	1242	-3	5824	1421	0	0	0	0	50	0	365302	1	1	
DEFB113	70183	1258	-7	4186	959	0	0	0	0	45	1	301308	1	1	
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DEFB115	562665	594	-29	4522	1169	0	0	0	0	50	0	337358	1	1	
DEFB116	562665	594	-29	5292	1260	0	0	0	0	50	0	337358	1	1	
DEFB118	591819	594	-83	6216	1722	0	0	0	0	21	1	139482	1	1	
DEFB119	591819	594	-83	8757	2058	0	0	0	0	21	1	139482	1	1	
DEFB121	598822	450	-79	4340	1141	0	0	0	0	23	1	134414	1	1	
DEFB123	605825	450	-76	3598	854	0	0	0	0	16	1	98630	1	1	
DEFB124	605825	450	-76	3612	1008	0	0	0	0	16	1	98630	1	1	
DEFB125	86	430	NaN	7693	2282	0	0	0	0	50	2	364035	1	1	
DEFB126	215351	430	25	5649	1575	0	0	0	0	50	0	339647	1	1	
DEFB127	215351	430	25	5047	1337	0	0	0	0	50	0	339647	1	1	
DEFB128	215351	430	25	4781	1225	0	0	0	0	50	0	339647	1	1	
DEFB129	1010597	348	24	9212	2506	0	0	0	0	50	0	429198	1	1	
DEFB130	475312	625	0	8036	2212	0	0	0	0	50	1	444920	1	1	
DEFB131	176573	885	12	3731	805	0	0	0	0	34	0	250502	1	1	
DEFB132	1010597	348	24	4865	1309	0	0	0	0	50	0	429198	1	1	
DEFB133	NaN	NaN	NaN	3255	735	0	0	0	0	28	2	256991	1	1	
DEFB134	467502	451	22	3486	798	0	0	0	0	19	0	111034	1	1	
DEFB135	467502	451	22	3920	1078	0	0	0	0	19	0	111034	1	1	
DEFB136	467502	451	22	4004	1015	0	0	0	0	19	0	111034	1	1	
DEFB4A	69060	693	-5	3325	896	0	0	0	0	50	0	417550	1	1	
DEGS1	638932	174	13	16394	4186	0	0	0	0	50	0	417186	1	1	
DEGS2	405420	237	39	15680	4942	0	0	0	0	50	0	363685	1	1	
DEK	467694	497	4	20076	4452	0	0	0	0	50	0	377440	1	1	
DEM1	701723	457	31	18277	5369	0	0	0	0	50	1	473956	1	1	
DENND1A	314875	517	32	51849	15750	0	0	0	0	50	0	477505	1	1	
DENND1B	206539	480	-21	41048	10549	0	0	0	0	50	1	502803	1	1	
DENND1C	865106	219	33	40243	12173	0	0	0	0	50	2	412020	1	1	
DENND2A	356082	503	31	50421	14637	0	0	0	0	50	1	386890	1	1	
DENND2C	626568	394	8	44716	11564	0	0	0	0	50	1	379680	1	1	
DENND2D	400425	627	41	24185	6475	0	0	0	0	50	2	402794	1	1	
DENND3	360825	204	51	60711	16674	0	0	0	0	50	0	380450	1	1	
DENND4A	522427	240	42	97209	25536	0	0	0	0	50	1	310758	1	1	
DENND4B	2028800	222	34	72499	24080	0	0	0	0	50	0	359492	1	1	
DENND4C	499163	277	13	85218	22554	0	0	0	0	50	1	444801	1	1	
DENND5A	672390	330	31	65254	17738	0	0	0	0	11	0	75390	1	1	
DENND5B	300830	361	17	64701	17304	0	0	0	0	50	3	474187	1	1	
DENR	1042095	227	42	10696	2429	0	0	0	0	50	1	404551	1	1	
DEPDC1	196163	601	-18	41552	10528	0	0	0	0	50	0	477120	1	1	
DEPDC1B	166902	679	13	27272	7000	0	0	0	0	50	0	357308	1	1	
DEPDC4	184616	650	3	15099	3864	0	0	0	0	50	1	400764	1	1	
DEPDC5	557139	336	19	82628	21763	0	0	0	0	50	0	434273	1	1	
DEPDC6	244861	712	8	21105	5397	0	0	0	0	50	0	418509	1	1	
DEPDC7	415951	215	25	27118	6860	0	0	0	0	50	0	336161	1	1	
DERA	328516	534	10	16254	4515	0	0	0	0	50	0	376117	1	1	
DERL1	470881	412	33	13006	3458	0	0	0	0	50	0	402332	1	1	
DERL2	1145030	544	24	12376	3290	0	0	0	0	50	1	432817	1	1	

DERL3	637355	196	52	13608	4116	0	0	0	0	50	1	403515	1	1	
DES	604261	335	38	23492	6895	0	0	0	0	50	0	374094	1	1	
DET1	212296	630	4	27832	7994	0	0	0	0	50	0	421232	1	1	
DEXI	339622	430	41	4501	1547	0	0	0	0	50	2	476448	1	1	
DFFA	829921	392	32	16919	4921	0	0	0	0	50	0	456316	1	1	
DFFB	249345	412	26	17157	4704	0	0	0	0	50	0	407554	1	1	
DFNA5	254601	464	21	24836	7231	0	0	0	0	50	0	449015	1	1	
DFNB31	260520	290	19	43218	14910	0	0	0	0	50	0	390887	1	1	
DFNB59	170323	555	37	17864	4879	0	0	0	0	50	1	359611	1	1	
DGAT1	2525749	200	28	25074	7077	0	0	0	0	50	0	514801	1	1	
DGAT2	534135	418	46	19495	5600	0	0	0	0	50	0	443555	1	1	
DGAT2L6	163833	NaN	14	17024	4816	0	0	0	0	50	0	451465	1	1	
DGCR14	487560	277	18	23800	7049	0	0	0	0	50	0	393302	1	1	
DGCR2	474521	277	16	27643	7826	0	0	0	0	50	0	393260	1	1	
DGCR6	621867	545	-1	10955	3304	0	0	0	0	50	0	446628	1	1	
DGCR6L	605373	292	43	10962	3339	0	0	0	0	50	0	427931	1	1	
DGCR8	587146	218	50	39046	10724	0	0	0	0	50	2	373996	1	1	
DGKA	2080397	229	31	38311	9989	0	0	0	0	50	0	399000	1	1	
DGKB	24487	1141	-13	42427	10577	0	0	0	0	50	2	532784	1	1	
DGKD	397457	227	33	62321	17206	0	0	0	0	50	0	381017	1	1	
DGKE	320339	324	-38	28987	7721	0	0	0	0	50	0	482846	1	1	
DGKG	664709	533	32	41433	10395	0	0	0	0	50	1	437115	1	1	
DGKH	191275	407	57	62867	16534	0	0	0	0	50	0	412188	1	1	
DGKK	43036	NaN	7	65002	17465	0	0	0	0	50	0	507122	1	1	
DGKQ	675007	256	45	46529	14770	0	0	0	0	50	2	418131	1	1	
DGKZ	811789	212	44	63364	19019	0	0	0	0	50	0	467873	1	1	
DGUOK	1036341	284	45	14224	3836	0	0	0	0	50	0	485968	1	1	
DHCR24	465622	249	27	26012	7231	0	0	0	0	50	1	357686	1	1	
DHCR7	507631	626	51	23653	6923	0	0	0	0	50	0	316190	1	1	
DHDDS	1046693	181	33	17073	4704	0	0	0	0	50	0	356629	1	1	
DHDH	1927185	211	43	16688	5005	0	0	0	0	50	1	404320	1	1	
DHDPSL	564805	169	40	16254	4914	0	0	0	0	50	1	397852	1	1	
DHFR	319054	626	35	9863	2401	0	0	0	0	50	0	355439	1	1	
DHFRL1	85529	1378	-18	9450	2478	0	0	0	0	50	0	396060	1	1	
DHH	1770671	214	65	18529	6650	0	0	0	0	50	0	479556	1	1	
DHODH	438866	372	19	19362	6300	0	0	0	0	50	0	413091	1	1	
DHPS	1975767	409	1	18816	5250	0	0	0	0	50	0	547204	1	1	
DHRS1	915114	220	38	15687	4767	0	0	0	0	50	1	414449	1	1	
DHRS11	468055	548	23	13076	3871	0	0	0	0	50	0	369733	1	1	
DHRS12	252271	384	33	16898	4438	0	0	0	0	50	1	373338	1	1	
DHRS13	1834230	220	37	18004	6146	0	0	0	0	50	0	467439	1	1	
DHRS2	1299548	595	26	15701	3934	0	0	0	0	50	1	407225	1	1	
DHRS3	340106	294	27	14861	4648	0	0	0	0	50	1	528479	1	1	
DHRS4	984811	442	23	13923	4284	0	0	0	0	50	0	507871	1	1	
DHRS4L1	992350	355	19	14259	4263	0	0	0	0	50	0	418383	1	1	
DHRS4L2	984811	442	23	11634	3633	0	0	0	0	50	0	507871	1	1	
DHRS7	277355	547	4	17052	4872	0	0	0	0	50	1	438235	1	1	
DHRS7B	409501	382	-18	16100	4984	0	0	0	0	50	1	439236	1	1	
DHRS7C	77786	204	-62	15610	4508	0	0	0	0	50	0	423892	1	1	
DHRS9	303546	646	12	15911	4585	0	0	0	0	50	0	506821	1	1	

DHRSX	NaN	NaN	NaN	16548	4893	0	0	0	0	50	2	784441	1	1	
DHTKD1	341646	227	25	46382	12964	0	0	0	0	50	1	516803	1	1	
DHX15	194657	491	35	40222	11018	0	0	0	0	50	1	408394	1	1	
DHX16	2115149	171	41	52367	15568	0	0	0	0	50	0	454741	1	1	
DHX29	280901	417	31	70049	18445	0	0	0	0	50	0	450163	1	1	
DHX30	843941	197	34	59010	18270	0	0	0	0	50	0	344302	1	1	
DHX32	206845	738	-4	37898	9814	0	0	0	0	50	0	385861	1	1	
DHX33	1145030	544	24	35105	10465	0	0	0	0	50	1	432817	1	1	
DHX34	1132395	232	41	55895	17437	0	0	0	0	50	0	333879	1	1	
DHX35	262965	581	31	36176	9982	0	0	0	0	50	1	414813	1	1	
DHX36	94558	921	-11	52409	13216	0	0	0	0	50	1	517797	1	1	
DHX37	1085697	229	46	57953	17227	0	0	0	0	50	0	407575	1	1	
DHX38	414449	479	9	62412	17136	0	0	0	0	50	0	395948	1	1	
DHX40	1081217	417	25	40089	10479	0	0	0	0	50	0	473711	1	1	
DHX57	850010	297	25	70063	19250	0	0	0	0	50	0	446194	1	1	
DHX58	2171374	206	37	34062	9702	0	0	0	0	50	0	350637	1	1	
DHX8	1124329	147	20	61726	17087	0	0	0	0	50	0	338499	1	1	
DHX9	673873	517	23	64694	17647	0	0	0	0	50	0	449302	1	1	
DIABLO	846994	187	29	12194	3346	0	0	0	0	50	0	529557	1	1	
DIAPH2	56713	NaN	30	58177	14567	0	0	1	0	50	1	469784	1	1	
DIAPH3	80757	890	22	62496	15414	0	0	0	0	50	0	475069	1	1	
DICER1	215900	674	16	97440	25893	0	0	0	0	50	0	314517	1	1	
DIDO1	961230	336	40	110782	34223	0	0	0	0	50	0	452830	1	1	
DIMT1L	176808	575	33	16331	4375	0	0	0	0	50	0	421456	1	1	
DIO1	505734	319	24	12733	3311	0	0	0	0	50	0	376208	1	1	
DIO2	47674	533	-44	15295	4529	0	0	0	0	50	1	417802	1	1	
DIO3	1315103	577	-26	14581	4634	0	0	0	0	50	0	374122	1	1	
DIP2A	895243	477	47	79513	24878	0	0	0	0	50	1	446299	1	1	
DIP2B	736380	262	49	79023	23436	0	0	0	0	47	0	324863	1	1	
DIP2C	406596	632	12	78050	23107	0	0	1	0	50	1	439271	1	1	
DIRAS1	1354357	291	25	9807	2814	0	0	0	0	50	0	423101	1	1	
DIRAS2	94332	706	13	10024	2660	0	0	0	0	50	0	389389	1	1	
DIRAS3	331080	524	-25	11256	3318	0	0	0	0	50	1	496678	1	1	
DIRC1	124843	739	-7	5208	1491	0	0	0	0	50	0	447440	1	1	
DIS3	257535	685	2	50449	13160	0	0	0	0	50	0	361011	1	1	
DIS3L	530074	307	44	53585	14266	0	0	0	0	50	1	426181	1	1	
DIS3L2	497951	464	30	44975	12523	0	0	0	0	50	0	446215	1	1	
DISC1	236101	622	-3	57449	14791	0	0	0	0	50	0	381934	1	1	
DISP1	236778	210	5	76279	20426	0	0	0	0	50	0	413056	1	1	
DISP2	872646	184	42	66360	22596	0	0	0	0	49	1	399833	1	1	
DIXDC1	416878	221	22	35987	9205	0	0	0	0	50	1	382963	1	1	
DKC1	1739324	NaN	7	26607	7014	0	0	0	0	37	0	395787	1	1	
DKFZP 781G0119	NaN	NaN	NaN	35343	8967	0	0	0	0	50	2	788515	1	1	
DKFZp 761E198	3834148	287	55	37317	14511	0	0	0	0	50	1	416493	1	1	
DKK1	94567	519	-8	13251	3822	0	0	0	0	50	0	436044	1	1	
DKK2	48475	1014	-18	13048	3584	0	0	0	0	50	0	401751	1	1	
DKK3	324993	243	11	17745	4998	0	0	0	0	50	0	417732	1	1	
DKK4	535273	459	37	11291	3178	0	0	0	0	50	0	418726	1	1	
DKKL1	2183690	309	30	11963	3724	0	0	0	0	50	0	424781	1	1	

DLAT	403342	179	27	32018	9898	0	0	0	0	50	1	469875	1	1	
DLC1	73786	559	-28	77896	21476	0	0	0	0	50	0	405223	1	1	
DLD	470337	486	12	25956	7266	0	0	0	0	50	0	381808	1	1	
DLEC1	310440	411	28	92078	25669	0	0	0	0	50	0	504518	1	1	
DLEU7	136985	649	31	7497	2751	0	0	0	0	50	1	418166	1	1	
DLG1	751489	417	36	48713	12586	0	0	0	0	50	0	496209	1	1	
DLG2	57955	1000	-20	53928	14007	0	0	0	0	50	1	444773	1	1	
DLG3	306369	NaN	30	46291	12761	0	0	0	0	50	2	468440	1	1	
DLG4	1732485	316	18	39767	11053	0	0	0	0	17	0	107345	1	1	
DLG5	364785	259	27	95865	27741	0	0	0	0	50	1	535591	1	1	
DLGAP1	368461	215	24	49455	14112	0	0	0	0	50	1	411985	1	1	
DLGAP2	99986	671	-37	48517	13895	0	0	0	0	50	0	481229	1	1	
DLGAP3	603922	534	28	47383	15113	0	0	0	0	50	2	470358	1	1	
DLGAP4	874457	360	46	50771	15169	0	0	0	0	50	1	542332	1	1	
DLGAP5	764452	146	54	45269	11578	0	0	0	0	50	1	432299	1	1	
DLK1	383705	323	2	19033	5495	0	0	0	0	50	0	484967	1	1	
DLK2	1278255	230	56	18865	5747	0	0	0	0	50	0	392392	1	1	
DLL1	374629	631	-23	36246	10206	0	0	0	0	50	0	389130	1	1	
DLL3	1410725	230	39	29708	10087	0	0	0	0	50	0	544768	1	1	
DLL4	1049616	176	50	34265	9793	0	0	0	0	50	0	426468	1	1	
DLST	884998	232	41	23037	6783	0	0	0	0	50	0	516810	1	1	
DLX1	534370	295	34	12915	3381	0	0	0	0	50	0	428197	1	1	
DLX2	534370	295	34	15953	4942	0	0	0	0	50	0	428197	1	1	
DLX3	1160590	191	12	14035	4277	0	0	0	0	50	0	325073	1	1	
DLX4	1160590	191	12	12572	4144	0	0	0	0	50	0	325073	1	1	
DLX5	99426	991	-15	14252	4186	0	0	0	0	50	1	400050	1	1	
DLX6	99426	991	-15	14686	4004	0	0	0	0	50	1	400050	1	1	
DMAP1	962892	211	29	23548	6902	0	0	0	0	50	1	414771	1	1	
DMBT1	335358	404	2	121793	34657	0	0	0	0	50	0	395689	1	1	
DMBX1	592811	255	23	18529	5894	0	0	0	0	50	0	366310	1	1	
DMC1	1160654	238	38	18018	4557	0	0	0	0	50	0	357203	1	1	
DMD	31871	NaN	-12	195783	48720	0	0	0	0	50	2	535227	1	1	
DMGDH	215159	434	45	43701	12222	0	0	0	0	50	2	482146	1	1	
DMKN	954618	367	35	29498	8470	0	0	0	0	50	0	390726	1	1	
DMP1	500313	623	-7	26719	6083	0	0	0	0	50	1	344953	1	1	
DMPK	929036	203	43	35616	9345	0	0	0	0	50	1	444647	1	1	
DMRT1	85434	622	8	18473	5425	0	0	0	0	50	0	480123	1	1	
DMRT2	71695	845	4	28476	8421	0	0	0	0	50	1	425222	1	1	
DMRT3	83374	703	9	22638	7287	0	0	0	0	50	0	613935	1	1	
DMRTA1	160489	448	-26	23884	8015	0	0	0	0	50	0	505764	1	1	
DMRTA2	147973	639	-7	16289	6223	0	0	0	0	50	0	500563	1	1	
DMRTB1	552240	385	25	16401	5502	0	0	1	0	50	2	383495	1	1	
DMRTC1	NaN	NaN	NaN	19054	6188	0	0	0	0	50	2	785736	1	1	
DMRTC1B	NaN	NaN	NaN	19054	6188	0	0	0	0	50	2	785736	1	1	
DMRTC2	1360684	454	23	17983	5873	0	0	0	0	50	0	367675	1	1	
DMTF1	169233	1011	4	38969	10318	0	0	0	0	50	2	431067	1	1	
DMWD	929036	203	43	31955	10948	0	0	0	0	50	1	444647	1	1	
DMXL1	305800	381	28	153111	41181	0	0	0	0	1	0	45731	1	1	
DMXL2	380843	422	11	153475	41447	0	0	0	0	50	0	515942	1	1	
DNA2	761140	294	29	58464	15477	0	0	0	0	50	0	493801	1	1	

DNAH1	1095946	229	55	216139	59129	0	0	0	0	33	0	347221	1	1	
DNAH10	1032254	482	39	227353	60893	0	0	0	0	10	0	191716	1	1	
DNAH12	455990	454	29	159929	40705	0	0	0	0	1	0	43470	1	1	
DNAH14	NaN	NaN	NaN	233366	58996	0	0	0	0	4	0	84651	1	1	
DNAH17	999172	188	25	225736	62153	0	0	0	0	2	0	69804	1	1	
DNAH2	2107779	232	25	224091	61971	0	0	0	0	2	0	76321	1	1	
DNAH3	335315	549	29	209160	55314	0	0	0	0	11	0	130004	1	1	
DNAH5	148607	674	-17	235984	61985	0	0	0	0	44	0	566594	1	1	
DNAH6	NaN	NaN	NaN	212576	55825	0	0	0	0	4	0	81480	1	1	
DNAH7	105357	518	-3	205716	53277	0	0	0	0	32	0	333207	1	1	
DNAH8	229301	845	25	231336	59073	0	0	0	0	24	0	263886	1	1	
DNAH9	42730	859	-75	226142	62293	0	0	0	0	3	0	77014	1	1	
DNAI1	811768	370	49	36561	9135	0	0	0	0	50	1	505827	1	1	
DNAI2	341939	427	-2	31283	8050	0	0	0	0	50	0	414204	1	1	
DNAJA1	953054	286	0	20643	5103	0	0	0	0	50	0	346045	1	1	
DNAJA2	498873	362	13	21287	5404	0	0	0	0	50	0	450030	1	1	
DNAJA3	753259	148	40	24843	6951	0	0	0	0	50	0	365169	1	1	
DNAJA4	447425	371	54	22904	5740	0	0	0	0	50	0	383040	1	1	
DNAJB1	1008795	204	26	16884	4809	0	0	0	0	50	0	404012	1	1	
DNAJB11	592490	436	40	18473	4900	0	0	0	0	50	0	577227	1	1	
DNAJB12	822407	145	45	20566	5936	0	0	0	0	50	2	453705	1	1	
DNAJB13	533576	196	41	16282	4277	0	0	0	0	50	1	316183	1	1	
DNAJB14	202808	682	36	19733	4795	0	0	0	0	50	0	414932	1	1	
DNAJB2	694442	193	44	16625	4795	0	0	0	0	50	3	450387	1	1	
DNAJB3	NaN	NaN	NaN	7266	1974	0	0	0	0	50	2	781522	1	1	
DNAJB4	373296	256	1	16905	4557	0	0	0	0	50	1	501515	1	1	
DNAJB5	676166	394	23	20685	6090	0	0	0	0	50	0	598395	1	1	
DNAJB6	318088	174	22	17465	4585	0	0	0	0	50	0	514696	1	1	
DNAJB7	NaN	NaN	NaN	15638	3892	0	0	0	0	50	2	783440	1	1	
DNAJB8	829484	317	50	11452	3227	0	0	0	0	50	1	386484	1	1	
DNAJB9	171249	838	6	11557	2723	0	0	0	0	50	0	362915	1	1	
DNAJC1	197451	608	2	28210	7679	0	0	0	0	50	0	425222	1	1	
DNAJC10	332624	421	7	41699	10087	0	0	0	0	50	1	349006	1	1	
DNAJC11	623016	259	34	28623	7959	0	0	0	0	50	0	361291	1	1	
DNAJC12	286530	441	-5	10794	2604	0	0	0	0	50	0	425208	1	1	
DNAJC13	210456	538	14	116102	29890	0	0	0	0	50	0	477421	1	1	
DNAJC14	1909014	256	38	34580	10213	0	0	0	0	50	0	457919	1	1	
DNAJC15	56984	249	51	7777	2156	0	0	0	0	50	0	382340	1	1	
DNAJC16	636573	188	34	39914	10591	0	0	0	0	50	1	403487	1	1	
DNAJC17	1011507	172	46	15981	4158	0	0	0	0	50	0	455287	1	1	
DNAJC18	832127	177	48	18536	4711	0	0	0	0	50	1	408387	1	1	
DNAJC19	182678	1094	-4	6230	1603	0	0	0	0	50	0	366254	1	1	
DNAJC2	375620	620	8	32963	7609	0	0	0	0	50	0	399399	1	1	
DNAJC21	241905	675	21	30555	6804	0	0	0	0	50	0	401338	1	1	
DNAJC22	2137968	175	37	16415	5215	0	0	0	0	50	0	456680	1	1	
DNAJC24	83554	879	-19	7945	1841	0	0	0	0	50	0	415779	1	1	
DNA-JC25-GNG10	513721	212	17	7329	2625	0	0	0	0	50	0	411173	1	1	
DNAJC27	270621	296	35	14189	3619	0	0	0	0	50	0	361319	1	1	
DNAJC28	884788	182	63	19775	4816	0	0	0	0	50	2	323372	1	1	

DNAJC3	204387	552	41	26362	6377	0	0	0	0	50	0	416752	1	1	
DNAJC30	1197825	214	52	10696	3647	0	0	0	0	50	1	437409	1	1	
DNAJC4	1608193	179	61	12124	3584	0	0	0	0	50	0	397271	1	1	
DNAJC5	1157316	206	36	10227	2646	0	0	0	0	50	1	365995	1	1	
DNAJC5B	270769	377	45	10304	2632	0	0	0	0	50	1	362278	1	1	
DNAJC5G	1242113	182	45	9961	2429	0	0	0	0	50	0	415100	1	1	
DNAJC6	269422	441	0	46284	12810	0	0	0	0	50	1	438102	1	1	
DNAJC7	2081077	206	23	26026	6251	0	0	0	0	50	2	452221	1	1	
DNAJC8	779314	213	33	13622	3094	0	0	0	0	50	0	361074	1	1	
DNAJC9	829738	249	44	13335	3486	0	0	0	0	50	0	451955	1	1	
DNAL1	600464	191	47	10192	2429	0	0	0	0	50	1	410711	1	1	
DNAL4	1291659	272	73	5488	1358	0	0	0	0	50	0	330708	1	1	
DNALI1	445473	274	30	14175	3990	0	0	0	0	50	1	412832	1	1	
DNASE1	611617	242	43	14420	4102	0	0	0	0	50	1	467068	1	1	
DNASE1L1	2277674	NaN	40	15113	4564	0	0	0	0	50	0	404474	1	1	
DNASE1L2	2179404	224	39	14868	4536	0	0	0	0	50	0	383964	1	1	
DNASE1L3	685716	150	45	16009	3983	0	0	0	0	50	2	354613	1	1	
DNASE2	1937827	226	32	17976	5187	0	0	0	0	50	1	414729	1	1	
DNASE2B	235919	769	-13	18543	4767	0	0	0	0	50	0	359191	1	1	
DND1	774470	356	31	17017	5579	0	0	0	0	50	0	408716	1	1	
DNER	253305	456	-3	37198	10304	0	0	0	0	50	0	403151	1	1	
DNHD1	425139	491	23	231819	71232	0	0	0	0	0	0	71232	1	1	
DNLZ	1194160	258	28	8533	2954	0	0	0	0	50	1	330967	1	1	
DNM1	1788057	201	45	44254	12530	0	0	0	0	50	0	371392	1	1	
DNM1L	307288	308	-5	37520	10507	0	0	0	0	50	1	503027	1	1	
DNM2	2114424	208	31	46326	13230	0	0	0	0	50	0	403697	1	1	
DNM3	435280	643	6	43967	12145	0	0	0	0	50	0	333165	1	1	
DNMBP	1100254	221	32	78379	22379	0	0	0	0	50	1	389158	1	1	
DNMT1	1702441	200	23	83993	22246	0	0	0	0	50	0	510937	1	1	
DNMT3A	330147	286	43	48671	13321	0	0	0	0	50	1	396683	1	1	
DNMT3B	675780	173	42	44303	12103	0	0	0	0	50	2	464436	1	1	
DNMT3L	1128093	219	76	19964	5446	0	0	0	0	50	0	403158	1	1	
DNPEP	604261	335	38	24591	7203	0	0	0	0	50	0	374094	1	1	
DNTT	780047	804	30	26187	6783	0	0	0	0	50	1	476882	1	1	
DNTTIP1	742720	180	48	17178	4704	0	0	0	0	50	2	302897	1	1	
DNTTIP2	558028	275	9	38395	9884	0	0	0	0	50	0	496195	1	1	
DOC2A	NaN	NaN	NaN	20104	5999	0	0	0	0	50	2	785547	1	1	
DOC2B	NaN	NaN	NaN	15176	4627	0	0	0	0	50	2	784175	1	1	
DOCK1	97878	856	-32	97405	24479	0	0	0	0	27	0	212289	1	1	
DOCK10	123941	521	11	113575	28826	0	0	0	0	50	0	507577	1	1	
DOCK11	207684	NaN	38	108101	26971	0	0	0	0	50	1	363216	1	1	
DOCK2	94542	680	33	96103	23576	0	0	0	0	50	1	481306	1	1	
DOCK3	395621	756	25	104923	27440	0	0	0	0	50	0	455504	1	1	
DOCK4	133354	718	-18	101801	26404	0	0	0	0	50	0	497035	1	1	
DOCK5	178665	512	14	97384	24773	0	0	0	0	50	0	467691	1	1	
DOCK7	222018	474	4	108297	28707	0	0	0	0	50	1	456442	1	1	
DOCK8	193637	462	2	110845	29645	0	0	0	0	50	1	454643	1	1	
DOCK9	435646	494	27	110544	28476	0	0	0	0	47	0	418726	1	1	
DOHH	2172733	210	36	14595	4830	0	0	0	0	50	0	473844	1	1	
DOK1	1019591	315	50	23366	7378	0	0	0	0	50	0	429359	1	1	

DOK2	402326	470	12	20020	6377	0	0	0	0	50	0	443051	1	1	
DOK3	1120311	347	41	29127	9996	0	0	0	0	50	1	391951	1	1	
DOK4	771506	159	45	16611	4578	0	0	0	0	50	3	367283	1	1	
DOK5	139298	847	-37	15841	4088	0	0	0	0	50	1	394814	1	1	
DOK6	50550	968	-4	17255	4249	0	0	0	0	50	0	368816	1	1	
DOK7	547964	412	46	25550	6811	0	0	0	0	50	0	442974	1	1	
DOLK	1517799	203	29	25249	8708	0	0	0	0	50	0	375144	1	1	
DOLPP1	1428394	206	30	12152	3535	0	0	0	0	50	0	408352	1	1	
DOM3Z	2314693	203	34	19621	5936	0	0	0	0	50	0	456526	1	1	
DONSON	908921	375	68	28077	8442	0	0	0	0	50	0	414876	1	1	
DOPEY1	151511	697	7	124929	33537	0	0	0	0	50	0	534016	1	1	
DOPEY2	267887	232	65	114646	33215	0	0	1	0	50	1	463120	1	1	
DOT1L	1658089	199	28	75845	23359	0	0	0	0	50	0	406525	1	1	
DPAGT1	1390854	195	58	20377	6062	0	0	0	0	50	0	338107	1	1	
DPCD	843302	421	19	10675	2681	0	0	0	0	50	1	421701	1	1	
DPCR1	2483101	261	36	66787	21203	0	0	0	0	50	0	401436	1	1	
DPEP1	1092575	211	38	20601	6111	0	0	0	0	50	0	304003	1	1	
DPEP2	863919	158	54	24038	7483	0	0	0	0	50	1	449218	1	1	
DPEP3	863919	158	54	25067	8155	0	0	0	0	50	1	449218	1	1	
DPF1	1410213	301	-1	22078	5663	0	0	0	0	50	1	345849	1	1	
DPF2	4112809	242	50	20356	5222	0	0	0	0	50	1	406875	1	1	
DPF3	317807	599	41	18431	4837	0	0	0	0	50	0	348215	1	1	
DPH1	1415256	294	27	22225	6797	0	0	0	0	50	0	423479	1	1	
DPH2	875223	214	39	23177	8113	0	0	0	0	50	1	391258	1	1	
DPH3	205091	437	26	4396	1001	0	0	0	0	50	0	361529	1	1	
DPH3B	NaN	NaN	NaN	3990	987	0	0	0	0	31	2	344470	1	1	
DPH5	153041	727	-6	14742	3864	0	0	0	0	50	0	419517	1	1	
DPM1	386595	367	36	13524	3591	0	0	0	0	50	0	420938	1	1	
DPM2	1441525	201	56	4284	1323	0	0	0	0	50	0	340844	1	1	
DPM3	1801444	194	32	5796	2037	0	0	0	0	50	0	392000	1	1	
DPP10	7721	1178	-22	44814	11088	0	0	0	0	50	0	419650	1	1	
DPP3	1941577	194	51	37023	10962	0	0	0	0	50	1	395647	1	1	
DPP4	153730	528	9	40670	9751	0	0	0	0	50	0	497308	1	1	
DPP6	32056	1019	-25	46809	12201	0	0	0	0	50	0	442561	1	1	
DPP7	1722012	202	36	24668	7441	0	0	0	0	50	1	445893	1	1	
DPP8	620582	187	39	46452	11865	0	0	0	0	50	0	399224	1	1	
DPP9	860250	203	29	45563	12376	0	0	0	0	50	0	469329	1	1	
DPPA2	22565	1096	-19	15561	3948	0	0	0	0	50	1	374353	1	1	
DPPA3	237142	672	14	8162	2212	0	0	0	0	38	0	260561	1	1	
DPPA4	22565	1096	-19	15456	4305	0	0	0	0	50	1	374353	1	1	
DPPA5	732413	446	18	5957	1624	0	0	0	0	50	1	397712	1	1	
DPRX	737115	684	-48	9709	2639	0	0	0	0	50	0	350168	1	1	
DPT	358217	440	9	10584	2436	0	0	0	0	50	0	415520	1	1	
DPY19L1	112453	935	0	35189	9163	0	0	0	0	50	0	448861	1	1	
DPY19L2	195841	681	-28	39249	10332	0	0	0	0	50	1	452326	1	1	
DPY19L3	308903	531	-54	36806	9877	0	0	0	0	50	1	546105	1	1	
DPY19L4	449158	380	32	37653	9471	0	0	0	0	50	1	351281	1	1	
DPY30	375703	295	27	5285	1351	0	0	0	0	50	1	542199	1	1	
DPYD	64696	807	-6	52724	14623	0	0	0	0	50	0	405874	1	1	
DPYS	39710	972	15	25963	7553	0	0	0	0	50	0	437332	1	1	

DPYSL2	207566	520	26	28973	8218	0	0	0	0	50	0	386568	1	1	
DPYSL3	97519	827	-10	29085	7980	0	0	0	0	50	1	525525	1	1	
DPYSL4	147055	416	-6	28861	8330	0	0	0	0	50	0	426013	1	1	
DQX1	1019591	315	50	35126	11032	0	0	0	0	50	0	429359	1	1	
DR1	699815	223	13	8995	2324	0	0	0	0	50	0	455651	1	1	
DRAM1	340236	238	17	12173	3388	0	0	0	0	50	1	460747	1	1	
DRAM2	376648	708	13	13664	3745	0	0	0	0	50	1	436499	1	1	
DRAP1	3779084	287	42	10640	2842	0	0	0	0	50	1	388185	1	1	
DRD1	178213	729	14	21532	6629	0	0	0	0	50	0	428484	1	1	
DRD2	108041	610	5	22239	6321	0	0	0	0	50	1	364483	1	1	
DRD3	418141	589	23	19817	5992	0	0	0	0	50	0	414743	1	1	
DRD4	1774224	236	57	19502	7252	0	0	0	0	50	0	351330	1	1	
DRD5	207324	923	30	23072	7042	0	0	0	0	50	0	353801	1	1	
DRG1	737051	237	38	18648	5208	0	0	0	0	50	0	444675	1	1	
DRG2	899154	183	23	18823	5222	0	0	0	0	50	0	278803	1	1	
DRGX	NaN	NaN	NaN	13377	3969	0	0	0	0	50	2	783517	1	1	
DRP2	417357	NaN	26	49056	13146	0	0	0	0	50	1	489041	1	1	
DSC1	214084	492	-7	46277	12250	0	0	0	0	50	0	392980	1	1	
DSC2	213526	521	-12	46165	12803	0	0	0	0	50	0	464534	1	1	
DSC3	204823	521	-25	45843	12621	0	0	0	0	50	1	592977	1	1	
DSCAM	25449	971	-72	100646	28861	0	0	0	0	18	0	134904	1	1	
DSCAML1	413931	624	44	104573	31339	0	0	0	0	50	1	363986	1	1	
DSCC1	294228	677	12	20426	5068	0	0	0	0	50	0	380814	1	1	
DSCR3	349267	263	58	15148	4214	0	0	0	0	50	2	405811	1	1	
DSCR4	78525	448	1	5943	1722	0	0	0	0	50	1	358694	1	1	
DSCR6	414773	378	76	9359	2926	0	0	0	0	50	1	384797	1	1	
DSE	261273	541	30	47761	13076	0	0	0	0	50	0	426335	1	1	
DSEL	18159	527	-33	60879	16170	0	0	0	0	50	0	394443	1	1	
DSG1	255599	412	15	52507	14819	0	0	0	0	50	1	427287	1	1	
DSG2	284905	450	1	55678	15995	0	0	0	0	50	1	485121	1	1	
DSG3	275713	450	-18	49609	14651	0	0	0	0	50	1	445795	1	1	
DSG4	260152	412	-4	54271	15113	0	0	0	0	50	0	401639	1	1	
DSN1	794301	231	64	18676	4655	0	0	0	0	50	0	348439	1	1	
DSP	825560	218	12	144774	38094	0	0	0	0	41	0	345632	1	1	
DSPP	500313	623	-7	70126	12236	0	0	0	0	50	1	344953	1	1	
DST	403209	446	23	343168	87080	0	0	0	0	7	0	146559	1	1	
DSTN	568191	347	-5	8603	2107	0	0	0	0	50	0	391321	1	1	
DSTYK	715889	277	39	46473	13167	0	0	0	0	50	0	471527	1	1	
DTD1	262495	613	6	10773	2877	0	0	0	0	50	1	376754	1	1	
DTHD1	NaN	NaN	NaN	39837	10542	0	0	0	0	50	2	790090	1	1	
DTL	452008	399	15	37072	10157	0	0	0	0	50	0	339633	1	1	
DTNA	116061	552	-20	39907	10640	0	0	0	0	50	1	479738	1	1	
DTNB	367255	356	44	32760	8463	0	0	0	0	50	1	418250	1	1	
DTNBP1	118453	750	24	19964	5131	0	0	0	0	45	0	380758	1	1	
DTWD1	206183	390	-22	15729	3822	0	0	0	0	50	0	493766	1	1	
DTWD2	305376	554	8	15029	4270	0	0	0	0	50	1	473725	1	1	
DTX1	562320	387	44	30093	9702	0	0	0	0	50	0	429331	1	1	
DTX2	876888	220	58	30716	9289	0	0	0	0	50	1	363202	1	1	
DTX3	1338867	303	48	16758	5523	0	0	0	0	50	2	518504	1	1	
DTX3L	410045	404	35	37296	9849	0	0	0	0	50	0	396424	1	1	

DTX4	542222	686	9	30331	9401	0	0	0	0	50	0	461167	1	1	
DTYMK	1323203	406	32	10682	3073	0	0	0	0	50	1	411649	1	1	
DULLARD	1782958	316	21	12509	3514	0	0	0	0	50	1	326809	1	1	
DUOX1	667418	544	27	77924	22624	0	0	0	0	34	0	384853	1	1	
DUOX2	695711	544	23	77763	22596	0	0	0	0	50	0	527604	1	1	
DUOXA2	667418	544	27	19180	5705	0	0	0	0	50	1	542409	1	1	
DUPD1	231745	298	44	10990	3101	0	0	0	0	50	0	388101	1	1	
DUS1L	3850694	197	34	24290	6664	0	0	0	0	50	1	370034	1	1	
DUS2L	859239	138	55	25193	7189	0	0	0	0	50	0	439726	1	1	
DUS3L	990266	225	26	32235	9870	0	0	0	0	50	0	420105	1	1	
DUS4L	512690	753	26	16422	4116	0	0	0	0	50	1	414134	1	1	
DUSP1	537128	180	44	17787	5649	0	0	0	0	50	2	361858	1	1	
DUSP10	37303	599	2	23723	6958	0	0	0	0	50	1	522228	1	1	
DUSP11	1051432	404	37	19530	4998	0	0	0	0	50	0	330589	1	1	
DUSP12	447958	504	29	17269	4676	0	0	0	0	50	1	412237	1	1	
DUSP13	223189	298	40	23653	7364	0	0	0	0	50	0	396179	1	1	
DUSP14	541310	201	29	9667	2954	0	0	0	0	50	0	530341	1	1	
DUSP15	1015946	241	37	11718	3654	0	0	0	0	50	0	337841	1	1	
DUSP16	748543	157	30	32914	9464	0	0	0	0	50	0	468629	1	1	
DUSP18	723012	330	56	9359	2632	0	0	0	0	50	0	301462	1	1	
DUSP19	350474	524	20	11060	2926	0	0	0	0	50	0	448658	1	1	
DUSP2	850399	251	48	14980	5159	0	0	0	0	50	0	479493	1	1	
DUSP21	66992	NaN	15	9296	2737	0	0	0	0	50	0	447419	1	1	
DUSP22	224772	684	46	9800	2443	0	0	0	0	50	0	282996	1	1	
DUSP23	801453	497	6	7175	2506	0	0	0	0	50	1	375459	1	1	
DUSP26	91655	610	11	10346	3262	0	0	0	0	50	0	425733	1	1	
DUSP27	287664	611	-1	57400	15953	0	0	0	0	50	0	380457	1	1	
DUSP28	645026	485	28	8372	2947	0	0	0	0	50	1	461839	1	1	
DUSP3	1081050	192	35	9324	2604	0	0	0	0	50	1	361809	1	1	
DUSP4	307440	267	42	21700	6839	0	0	0	0	50	0	344309	1	1	
DUSP5	493408	157	51	18564	5943	0	0	0	0	50	0	395745	1	1	
DUSP6	236331	448	-23	18739	5495	0	0	0	0	50	1	600586	1	1	
DUSP7	1045639	224	36	20237	6433	0	0	0	0	50	0	350021	1	1	
DUSP8	NaN	NaN	NaN	29645	10213	0	0	0	0	50	2	789761	1	1	
DUSP9	1716845	NaN	44	18319	6188	0	0	0	0	50	0	375634	1	1	
DUT	333686	381	-34	12901	4004	0	0	0	0	50	0	476679	1	1	
DUX4	NaN	NaN	NaN	44800	16520	0	0	0	0	50	2	796068	1	1	
DUXA	311003	924	-64	10766	2611	0	0	0	0	50	1	369817	1	1	
DVL1	1744013	273	28	33488	10003	0	0	0	0	50	1	448280	1	1	
DVL2	1782958	316	21	36477	11130	0	0	0	0	50	1	326809	1	1	
DVL3	1453689	334	42	36008	10339	0	0	0	0	50	2	509187	1	1	
DYDC1	352963	598	18	9597	2163	0	0	0	0	50	1	509152	1	1	
DYDC2	340132	598	-7	9282	2184	0	0	0	0	50	0	305760	1	1	
DYM	241451	414	57	34391	9163	0	0	0	0	50	0	430787	1	1	
DYNC1H1	1456679	196	38	234794	64435	0	0	0	0	50	0	592893	1	1	
DYNC1I1	184459	747	-7	33278	8764	0	0	0	0	50	0	442099	1	1	
DYNC1I2	354433	344	33	33152	8533	0	0	0	0	50	1	362327	1	1	
DYNC1LI1	434251	568	35	26656	7406	0	0	0	0	50	0	437353	1	1	
DYNC1LI2	804191	145	10	25137	6972	0	0	0	0	50	0	440090	1	1	
DYNC2H1	134215	883	-19	222285	57036	0	0	0	0	50	0	425614	1	1	

DYNC2LI1	544941	480	35	20475	4998	0	0	0	0	50	0	483770	1	1	
DYNLL1	1552470	216	46	4830	1092	0	0	0	0	44	0	350819	1	1	
DYNLL2	857807	352	11	4774	1064	0	0	0	0	50	0	324135	1	1	
DYNLRB1	990458	214	54	5110	1295	0	0	0	0	35	0	207515	1	1	
DYNLRB2	149480	465	-30	5110	1295	0	0	0	0	50	0	448791	1	1	
DYNLT1	623771	306	49	6167	1393	0	0	0	0	50	0	356678	1	1	
DYNLT3	105234	NaN	28	6272	1435	0	0	0	0	50	0	536312	1	1	
DYRK1A	314682	366	47	40306	10577	0	0	0	0	50	0	381423	1	1	
DYRK1B	1289328	526	23	30674	9835	0	0	0	0	50	1	417662	1	1	
DYRK2	232901	596	-9	29421	8673	0	0	0	0	50	0	512624	1	1	
DYRK3	491162	261	34	29470	8288	0	0	0	0	50	0	402493	1	1	
DYRK4	276521	874	24	26859	6888	0	0	0	0	50	0	472087	1	1	
DYSF	324429	533	10	110642	30394	0	0	0	0	50	0	384377	1	1	
DYSFIP1	3733473	NaN	19	7602	2373	0	0	0	0	50	1	359786	1	1	
DYTN	269047	832	14	29400	8001	0	0	0	0	50	1	333753	1	1	
DYX1C1	298473	405	1	23961	5355	0	0	0	0	50	0	399574	1	1	
DZIP1	229772	438	45	45143	11137	0	0	0	0	50	2	453859	1	1	
DZIP1L	175494	464	8	38941	10850	0	0	0	0	50	0	408968	1	1	
DZIP3	172270	941	0	63532	15323	0	0	0	0	50	0	451465	1	1	
E2F1	710350	161	55	21154	6944	0	0	0	0	50	2	410375	1	1	
E2F2	1050775	159	32	21476	6622	0	0	0	0	50	0	358603	1	1	
E2F3	138711	568	7	22848	7014	0	0	0	0	50	1	411124	1	1	
E2F4	1109491	150	46	20811	6069	0	0	0	0	50	0	375074	1	1	
E2F5	99174	1450	3	17696	4795	0	0	0	0	50	1	416731	1	1	
E2F6	342110	196	26	14413	3857	0	0	0	0	50	0	513289	1	1	
E2F7	106320	887	-11	45073	13349	0	0	0	0	50	0	665357	1	1	
E2F8	132848	504	16	43169	12439	0	0	0	0	50	0	365463	1	1	
E4F1	2179404	224	39	38682	11907	0	0	0	0	50	0	383964	1	1	
EAF1	507426	256	49	13699	3668	0	0	0	0	50	0	368263	1	1	
EAF2	474007	550	30	13531	3374	0	0	0	0	50	2	389893	1	1	
EAPP	517394	165	13	14938	3500	0	0	0	0	50	0	351029	1	1	
EARS2	528849	628	48	25886	7840	0	0	0	0	50	1	335244	1	1	
EBAG9	134329	623	8	11214	2772	0	0	0	0	50	1	399595	1	1	
EBF1	123440	728	39	30233	8323	0	0	0	0	50	0	371616	1	1	
EBF2	277181	616	-1	29498	8092	0	0	0	0	50	0	373660	1	1	
EBF3	85621	947	-28	28371	7707	0	0	0	0	50	0	423178	1	1	
EBF4	NaN	NaN	NaN	30037	9128	0	0	0	0	50	2	788676	1	1	
EBI3	2132502	244	39	11333	3535	0	0	0	0	50	0	403298	1	1	
EBLN2	NaN	NaN	NaN	13510	3689	0	0	0	0	50	2	783237	1	1	
EBNA1BP2	1068006	294	30	18830	4816	0	0	0	0	50	0	399147	1	1	
EBP	726793	NaN	2	11508	3381	0	0	0	0	50	0	443898	1	1	
EBPL	425192	296	62	10262	3073	0	0	0	0	50	0	362054	1	1	
ECD	653488	233	44	34762	9170	0	0	0	0	50	2	459949	1	1	
ECE1	744763	196	27	41797	11417	0	0	0	0	50	0	496664	1	1	
ECE2	1453600	241	47	53536	15470	0	0	0	0	50	0	431543	1	1	
ECEL1	271362	191	32	38857	11438	0	0	0	0	50	0	343742	1	1	
ECH1	1989663	219	30	16758	4767	0	0	0	0	50	1	429506	1	1	
ECHDC1	120722	889	-4	16002	3864	0	0	0	0	50	1	431676	1	1	
ECHDC2	626387	311	30	12992	4228	0	0	0	0	50	2	426573	1	1	
ECHDC3	371900	163	15	14819	4669	0	0	0	0	50	1	431655	1	1	

ECHS1	386585	472	13	15029	3934	0	0	0	0	50	0	387611	1	1	
ECM1	1532790	163	43	27139	7700	0	0	0	0	50	0	458143	1	1	
ECM2	579226	474	38	35574	9282	0	0	0	0	50	0	489958	1	1	
ECSCR	806824	NaN	41	3836	1078	0	0	0	0	43	0	309281	1	1	
ECSIT	1152381	272	31	21847	5957	0	0	0	0	50	2	385273	1	1	
ECT2	301474	239	11	45780	11802	0	0	0	0	50	0	411565	1	1	
ECT2L	336688	610	20	46718	11914	0	0	0	0	50	0	381409	1	1	
EDA	135563	NaN	-2	21441	6615	0	0	0	0	50	0	497238	1	1	
EDA2R	28261	NaN	-6	15155	4081	0	0	0	0	50	0	420609	1	1	
EDAR	358833	424	14	22890	6321	0	0	0	0	50	2	406371	1	1	
EDARADD	482656	589	11	11907	2856	0	0	0	0	50	0	428638	1	1	
EDC3	635020	206	51	25375	7196	0	0	0	0	50	2	394576	1	1	
EDC4	879834	158	50	69692	20986	0	0	0	0	50	2	467285	1	1	
EDDM3A	956361	577	8	7658	1750	0	0	0	0	50	1	459137	1	1	
EDDM3B	956361	577	8	7693	1715	0	0	0	0	50	1	459137	1	1	
EDEM1	260923	447	14	32928	9450	0	0	0	0	50	0	397208	1	1	
EDEM2	1346435	168	46	29141	8260	0	0	0	0	50	0	457527	1	1	
EDEM3	370601	493	4	48048	12327	0	0	0	0	50	0	393351	1	1	
EDF1	1921909	176	44	8211	2289	0	0	0	0	50	1	408821	1	1	
EDIL3	161019	764	-20	24829	6314	0	0	0	0	50	0	433076	1	1	
EDN1	198728	410	27	11032	2723	0	0	0	0	50	0	405013	1	1	
EDN2	220093	381	32	8869	2786	0	0	0	0	50	0	419699	1	1	
EDN3	831202	402	-9	12691	3605	0	0	0	0	50	1	352254	1	1	
EDNRA	71235	430	-6	21917	5635	0	0	0	0	50	0	399511	1	1	
EDNRB	63780	954	31	24206	6790	0	0	0	0	50	1	427945	1	1	
EEA1	296393	427	17	73864	17444	0	0	0	0	50	1	419055	1	1	
EED	443833	159	26	23240	5572	0	0	0	0	50	1	505085	1	1	
EEF1A1	716887	139	38	23156	6601	0	0	0	0	50	1	414827	1	1	
EEF1A2	1262904	298	54	23086	6734	0	0	0	0	50	0	369817	1	1	
EEF1B2	332753	487	25	11907	2961	0	0	0	0	50	0	432110	1	1	
EEF1D	2183482	235	37	31843	9653	0	0	0	0	50	0	386120	1	1	
EEF1E1	566741	368	9	9506	2611	0	0	0	0	50	0	490154	1	1	
EEF2	2173603	207	30	43015	12320	0	0	0	0	50	1	416745	1	1	
EEF2K	522343	235	44	37450	9716	0	0	0	0	50	1	388339	1	1	
EEFSEC	858998	410	48	29190	8967	0	0	0	0	50	1	454461	1	1	
EEPD1	357816	522	18	28021	8393	0	0	0	0	50	1	423535	1	1	
EFCAB1	16699	533	-28	11270	2590	0	0	0	0	50	0	396011	1	1	
EFCAB2	675692	505	10	9303	2205	0	0	0	0	50	0	409787	1	1	
EFCAB3	344431	362	8	25746	6153	0	0	0	0	50	0	419846	1	1	
EFCAB4A	1799017	232	51	14609	4564	0	0	0	0	50	0	368949	1	1	
EFCAB4B	241693	793	18	40705	10829	0	0	0	0	50	1	388563	1	1	
EFCAB5	652131	303	15	80017	20048	0	0	0	0	50	1	414967	1	1	
EFCAB6	306296	627	2	77357	19831	0	0	0	0	50	0	387317	1	1	
EFCAB7	133143	401	7	32732	8029	0	0	0	0	50	0	376362	1	1	
EFCAB9	NaN	NaN	NaN	10346	2401	0	0	0	0	50	2	781949	1	1	
EFEMP1	376977	264	-15	25410	6552	0	0	0	0	50	2	385308	1	1	
EFEMP2	3779084	287	42	22708	6104	0	0	0	0	50	1	388185	1	1	
EFHA1	345194	422	31	22806	5565	0	0	0	0	50	1	469161	1	1	
EFHA2	191406	621	-37	27265	7364	0	0	0	0	50	1	473872	1	1	
EFHB	103479	720	-15	42259	11291	0	0	0	0	50	0	451199	1	1	

EFHC1	396934	431	34	32781	8610	0	0	0	0	50	2	393197	1	1	
EFHC2	75979	NaN	21	38857	9611	0	0	0	0	50	0	411446	1	1	
EFHD1	301517	211	37	11900	3472	0	0	0	0	50	0	321783	1	1	
EFHD2	554165	212	29	12145	3332	0	0	0	0	50	1	482258	1	1	
EFNA1	1801444	194	32	10584	2730	0	0	0	0	50	0	392000	1	1	
EFNA2	2214581	234	29	10486	3248	0	0	0	0	50	1	402808	1	1	
EFNA3	1696720	214	44	11942	3493	0	0	0	0	50	0	471681	1	1	
EFNA4	1696720	214	44	13111	3626	0	0	0	0	50	0	471681	1	1	
EFNA5	78424	628	21	11732	3031	0	0	0	0	50	0	416717	1	1	
EFNB1	141847	NaN	19	17115	5082	0	0	0	0	50	0	325647	1	1	
EFNB2	167697	1267	2	16842	4578	0	0	0	0	50	1	348397	1	1	
EFNB3	2066943	232	27	16212	5607	0	0	0	0	50	1	461153	1	1	
EFR3A	99296	999	6	42483	11151	0	0	0	0	50	2	464576	1	1	
EFR3B	NaN	NaN	NaN	41881	11501	0	0	0	0	50	2	791049	1	1	
EFS	1220624	456	31	26369	9457	0	0	0	0	50	1	489685	1	1	
EFTUD1	373597	701	13	57190	15029	0	0	0	0	50	1	438088	1	1	
EFTUD2	1101543	172	28	50064	13503	0	0	0	0	50	0	340074	1	1	
EGF	215298	503	9	61901	16135	0	0	0	0	50	0	439390	1	1	
EGFL6	196762	NaN	49	28721	7168	0	0	0	0	50	0	439117	1	1	
EGFL7	1918290	190	56	13867	4067	0	0	0	0	50	0	385973	1	1	
EGFL8	2119974	392	28	14889	4305	0	0	0	0	50	0	467467	1	1	
EGFLAM	159917	497	-12	51303	14343	0	0	0	0	50	0	447636	1	1	
EGFR	423489	336	-13	66437	17542	0	0	1	0	50	2	378217	1	1	
EGLN1	362960	518	3	21007	6230	0	0	0	0	50	0	425467	1	1	
EGLN2	1187304	275	31	19719	6321	0	0	0	0	50	2	343385	1	1	
EGLN3	163649	564	0	12019	3437	0	0	0	0	50	1	388724	1	1	
EGR1	1202314	205	51	25998	8358	0	0	0	0	50	1	426923	1	1	
EGR2	176901	852	32	22589	7630	0	0	0	0	50	0	458710	1	1	
EGR3	765839	325	52	18928	5600	0	0	0	0	50	1	303401	1	1	
EGR4	582263	454	36	27678	9618	0	0	0	0	50	0	444318	1	1	
EHBP1	160013	618	8	63518	16030	0	0	0	0	50	1	410438	1	1	
EHBP1L1	3945819	202	45	73738	23786	0	0	0	0	50	1	407722	1	1	
EHD1	3218288	209	61	26404	7637	0	0	0	0	50	0	492569	1	1	
EHD2	812020	262	36	26677	8015	0	0	0	0	50	0	456687	1	1	
EHD3	102236	884	15	26691	7497	0	0	0	0	50	0	401513	1	1	
EHD4	830035	224	39	27027	7581	0	0	0	0	50	1	394688	1	1	
EHF	1039672	320	12	16037	3598	0	0	0	0	50	0	331492	1	1	
EHHADH	775543	587	35	35595	10563	0	0	0	0	50	0	410165	1	1	
EHMT1	977227	583	38	66626	18424	0	0	0	0	50	0	368305	1	1	
EHMT2	2485614	188	36	60767	17836	0	0	0	0	50	0	418222	1	1	
EI24	391073	595	23	18116	4186	0	0	0	0	50	0	430500	1	1	
EID1	NaN	NaN	NaN	9422	2464	0	0	0	0	50	2	782012	1	1	
EID2	1148741	322	25	11144	3787	0	0	0	0	50	0	373254	1	1	
EID2B	1148741	322	25	7616	2632	0	0	0	0	50	0	373254	1	1	
EID3	NaN	NaN	NaN	16618	4424	0	0	0	0	50	2	783972	1	1	
EIF1	1617880	323	9	5943	1491	0	0	0	0	33	0	269717	1	1	
EIF1AD	3854361	208	57	8743	2135	0	0	0	0	50	1	425138	1	1	
EIF1AX	262207	NaN	37	7938	1701	0	0	0	0	50	0	380429	1	1	
EIF1AY	0	0	0	7945	1694	0	0	0	0	50	1	416332	1	1	
EIF1B	195546	675	10	5964	1470	0	0	0	0	50	0	411166	1	1	

EIF2A	436939	347	24	30205	7847	0	0	0	0	50	0	372323	1	1	
EIF2AK1	NaN	NaN	NaN	32242	8687	0	0	0	0	50	2	788235	1	1	
EIF2AK2	603425	281	27	28854	7182	0	0	0	0	50	1	376873	1	1	
EIF2AK3	118199	366	9	56343	15372	0	0	0	0	50	0	442666	1	1	
EIF2AK4	806826	256	26	84777	22407	0	0	0	0	50	0	486962	1	1	
EIF2B1	871640	315	40	15575	4375	0	0	0	0	50	0	419664	1	1	
EIF2B2	875817	222	53	17752	5054	0	0	0	0	50	0	357721	1	1	
EIF2B3	839426	185	24	23828	6370	0	0	0	0	50	0	296303	1	1	
EIF2B4	1245306	182	52	27447	8589	0	0	0	0	50	1	445158	1	1	
EIF2B5	1453689	334	42	36603	10143	0	0	0	0	50	2	509187	1	1	
EIF2C1	973030	273	12	43449	12117	0	0	0	0	50	0	362341	1	1	
EIF2C2	451419	238	46	43645	12089	0	0	0	0	50	1	354291	1	1	
EIF2C3	966499	282	25	43603	12152	0	0	0	0	50	0	451234	1	1	
EIF2C4	1098857	273	19	43631	12103	0	0	0	0	50	0	443380	1	1	
EIF2S1	484235	291	32	16338	4137	0	0	0	0	50	0	349433	1	1	
EIF2S2	898361	357	55	17661	4053	0	0	0	0	50	1	319144	1	1	
EIF2S3	528219	NaN	41	23975	6790	0	0	0	0	50	0	554127	1	1	
EIF3A	701340	194	9	70483	18410	0	0	0	0	50	0	431739	1	1	
EIF3B	795806	251	43	42063	10836	0	0	0	0	50	0	413182	1	1	
EIF3C	NaN	NaN	NaN	94122	24465	0	0	0	0	50	2	804013	1	1	
EIF3CL	1139917	269	56	94122	24465	0	0	0	0	50	0	427182	1	1	
EIF3D	1184089	359	38	28749	7014	0	0	0	0	50	2	413903	1	1	
EIF3E	187290	965	6	23534	5614	0	0	0	0	50	1	410214	1	1	
EIF3F	135129	587	4	17619	5565	0	0	0	0	50	1	458388	1	1	
EIF3G	1675365	272	15	16730	4459	0	0	0	0	1	0	11879	1	1	
EIF3H	483437	504	11	18291	4578	0	0	0	0	50	0	395843	1	1	
EIF3I	1460758	218	29	17143	4277	0	0	0	0	50	0	426384	1	1	
EIF3J	667670	534	30	13720	3185	0	0	0	0	50	1	455000	1	1	
EIF3K	1496245	363	27	11634	2793	0	0	0	0	50	0	383061	1	1	
EIF3L	1385064	203	66	29526	7119	0	0	0	0	50	0	364224	1	1	
EIF3M	408431	613	7	19726	4823	0	0	0	0	50	0	375571	1	1	
EIF4A1	1957426	194	24	20916	5586	0	0	0	0	50	2	432103	1	1	
EIF4A2	449980	384	25	21161	5425	0	0	0	0	50	0	393316	1	1	
EIF4A3	674340	219	22	21217	5663	0	0	0	0	50	0	493584	1	1	
EIF4B	1726226	177	38	31129	8603	0	0	0	0	50	1	433209	1	1	
EIF4E	225403	415	11	14378	3619	0	0	0	0	50	0	439516	1	1	
EIF4E1B	579630	359	40	12502	3395	0	0	0	0	50	0	423822	1	1	
EIF4E2	286805	211	36	12908	3136	0	0	0	0	50	0	327971	1	1	
EIF4E3	74213	527	3	11417	3304	0	0	0	0	50	1	359296	1	1	
EIF4EBP1	672015	258	29	5964	1743	0	0	0	0	50	1	432649	1	1	
EIF4EBP2	551720	338	46	6104	1687	0	0	0	0	50	0	450730	1	1	
EIF4EBP3	706371	319	29	5894	679	0	0	0	0	10	0	57351	1	1	
EIF4ENIF1	750597	313	19	49350	14343	0	0	0	0	50	0	426153	1	1	
EIF4G1	1447013	268	44	79688	23716	0	0	0	0	50	1	551999	1	1	
EIF4G2	793205	266	21	46970	11998	0	0	0	0	50	0	357574	1	1	
EIF4G3	661924	406	22	80423	22015	0	0	0	0	50	1	527870	1	1	
EIF4H	1022182	190	51	12754	3479	0	0	0	0	50	1	345548	1	1	
EIF5	941484	175	37	22512	5460	0	0	0	0	50	0	462644	1	1	
EIF5A	1911735	206	36	9548	2569	0	0	0	0	50	1	434000	1	1	
EIF5A2	199827	640	26	7945	2093	0	0	0	0	50	0	376719	1	1	

EIF5AL1	342919	284	39	7658	2149	0	0	0	0	50	0	337092	1	1	
EIF5B	387331	612	25	63700	15155	0	0	0	0	50	0	475538	1	1	
EIF6	1290513	170	45	14588	3829	0	0	0	0	50	0	456393	1	1	
ELAC1	189022	332	51	17976	5208	0	0	0	0	50	1	351106	1	1	
ELAC2	93345	606	-52	42315	11718	0	0	1	0	50	1	438375	1	1	
ELANE	2168802	198	28	12929	4375	0	0	0	0	50	1	443968	1	1	
ELAVL1	967479	369	19	16485	4536	0	0	0	0	50	0	401121	1	1	
ELAVL2	7648	719	-40	18214	4970	0	0	0	0	50	0	552076	1	1	
ELAVL3	1255985	265	32	18326	5362	0	0	0	0	50	2	364000	1	1	
ELAVL4	93599	824	-20	20986	5558	0	0	0	0	50	0	382046	1	1	
ELF1	291800	476	39	30744	8904	0	0	0	0	50	0	380926	1	1	
ELF2	358887	261	30	30338	8932	0	0	0	0	50	1	537341	1	1	
ELF3	751933	168	31	19103	5005	0	0	0	0	50	1	396781	1	1	
ELF4	384451	NaN	48	32095	10325	0	0	0	0	50	0	471079	1	1	
ELF5	685229	295	5	14070	3192	0	0	0	0	22	0	148274	1	1	
ELFN1	NaN	NaN	NaN	39137	13090	0	0	0	0	50	2	792638	1	1	
ELFN2	969938	179	53	39172	12551	0	0	0	0	50	1	386806	1	1	
ELK1	772893	NaN	41	20447	7000	0	0	0	0	50	0	476910	1	1	
ELK3	267884	525	23	19747	6293	0	0	0	0	50	0	420693	1	1	
ELK4	721075	230	34	23373	7035	0	0	0	0	50	0	369061	1	1	
ELL	1389540	259	45	30870	9282	0	0	0	0	50	1	430493	1	1	
ELL2	316216	247	51	32508	8799	0	0	0	0	50	1	399063	1	1	
ELL3	784327	286	37	20349	5565	0	0	0	0	50	0	469203	1	1	
ELMO1	63863	859	16	38262	9366	0	0	0	0	50	0	396102	1	1	
ELMO2	543201	612	48	37534	9653	0	0	0	0	50	1	399056	1	1	
ELMO3	1109491	150	46	38885	11515	0	0	0	0	50	0	375074	1	1	
ELMOD1	300861	676	-3	17794	4235	0	0	0	0	50	0	314048	1	1	
ELMOD2	125708	752	7	15757	3437	0	0	0	0	50	0	471177	1	1	
ELMOD3	1021843	180	29	23177	6580	0	0	0	0	50	0	417858	1	1	
ELN	1047492	240	54	35847	12873	0	0	0	0	50	0	378210	1	1	
ELOF1	1152381	272	31	4445	1099	0	0	0	0	50	2	385273	1	1	
ELOVL1	1088321	252	27	14441	3787	0	0	0	0	50	0	436226	1	1	
ELOVL2	270200	422	22	15442	3857	0	0	0	0	50	0	397894	1	1	
ELOVL3	1041024	187	45	13748	3577	0	0	0	0	50	1	565012	1	1	
ELOVL4	151698	913	-14	16212	4053	0	0	0	0	50	0	386652	1	1	
ELOVL5	379445	287	27	15540	3948	0	0	0	0	50	1	508655	1	1	
ELOVL6	204465	522	23	13692	3402	0	0	0	0	50	0	388703	1	1	
ELOVL7	188782	596	4	14798	3556	0	0	0	0	50	0	351435	1	1	
ELP2	390096	591	41	42868	11081	0	0	0	0	50	0	418768	1	1	
ELP3	417570	338	41	28098	7602	0	0	0	0	50	1	434854	1	1	
ELP4	165949	879	-7	21476	6097	0	0	0	0	50	2	465444	1	1	
ELSPBP1	881809	433	29	12026	2590	0	0	0	0	50	0	445592	1	1	
ELTD1	74049	903	-17	35539	9170	0	0	0	0	50	0	446859	1	1	
EMB	72996	1229	-3	17045	4291	0	0	0	0	50	0	376432	1	1	
EMCN	231787	807	-5	13685	3745	0	0	0	0	50	1	377391	1	1	
EMD	2277674	NaN	40	12838	3647	0	0	0	0	50	0	404474	1	1	
EME1	1335838	196	24	29197	8267	0	0	0	0	50	0	451458	1	1	
EME2	1604603	288	36	21329	7315	0	0	0	0	50	0	407358	1	1	
EMG1	2704950	211	47	12285	3549	0	0	0	0	50	1	523068	1	1	
EMID1	854820	251	51	22134	7056	0	0	0	0	50	1	412111	1	1	

EMID2	653305	280	43	21476	7189	0	0	0	0	50	2	443891	1	1	
EMILIN1	1214097	238	50	47964	16695	0	0	0	0	50	1	447195	1	1	
EMILIN2	564910	468	37	51800	15190	0	0	0	0	50	0	472437	1	1	
EMILIN3	383021	309	5	36113	12460	0	0	0	0	50	0	495558	1	1	
EML1	528390	354	10	42749	11746	0	0	0	0	50	0	533687	1	1	
EML2	950605	194	45	32949	9555	0	0	0	0	50	1	373975	1	1	
EML3	2695768	217	42	44331	13944	0	0	0	0	49	1	465934	1	1	
EML4	251363	292	17	50330	13384	0	0	0	0	50	1	352534	1	1	
EML5	161619	704	1	101500	26642	0	0	0	0	39	0	350532	1	1	
EML6	NaN	NaN	NaN	99834	26985	0	0	0	0	50	2	806533	1	1	
EMP1	636324	203	-3	8036	2254	0	0	0	0	50	0	427742	1	1	
EMP2	228675	175	8	8645	2275	0	0	0	0	50	0	395766	1	1	
EMP3	1478750	217	36	8330	2380	0	0	0	0	50	0	615027	1	1	
EMR1	748613	383	27	45710	11893	0	0	0	0	50	0	544880	1	1	
EMR2	1032767	448	29	41853	11655	0	0	0	0	50	0	473683	1	1	
EMR3	1036916	384	31	33390	9009	0	0	0	0	50	0	318325	1	1	
EMX1	450159	421	23	13839	4662	0	0	0	0	50	0	463771	1	1	
EMX2	130702	632	4	12719	3388	0	0	0	0	50	1	352212	1	1	
EN1	154049	576	-8	18557	6286	0	0	0	0	50	0	391692	1	1	
EN2	267699	599	-4	15855	5271	0	0	0	0	50	0	384601	1	1	
ENAH	744021	207	2	29988	8484	0	0	0	0	50	0	416115	1	1	
ENAM	262250	609	16	57302	15379	0	0	0	0	50	1	432558	1	1	
ENC1	293932	567	26	28966	8372	0	0	0	0	50	0	479129	1	1	
ENDOD1	273779	513	16	24185	7462	0	0	0	0	50	1	444367	1	1	
ENDOG	1768145	201	34	14126	4858	0	0	0	0	50	1	405104	1	1	
ENDOU	395089	320	14	21574	5075	0	0	0	0	50	0	446138	1	1	
ENG	1236941	179	55	33138	10059	0	0	0	0	50	1	452893	1	1	
ENGASE	592461	285	15	36827	11179	0	0	1	0	50	1	397117	1	1	
ENHO	843127	370	55	3647	1204	0	0	0	0	50	1	320376	1	1	
ENKUR	159854	276	8	13398	3213	0	0	0	0	50	0	378049	1	1	
ENO1	800628	171	28	22211	6118	0	0	0	0	50	0	413028	1	1	
ENO2	2704950	211	47	22050	6279	0	0	0	0	50	1	523068	1	1	
ENO3	1416161	231	30	22162	6209	0	0	0	0	50	0	367325	1	1	
ENOPH1	684394	387	46	13272	3654	0	0	0	0	50	1	432796	1	1	
ENOSF1	418492	425	32	25928	6370	0	0	0	0	50	1	383397	1	1	
ENOX1	99614	523	36	33327	8421	0	0	0	0	50	1	395983	1	1	
ENOX2	138723	NaN	23	31808	7777	0	0	0	0	50	0	344309	1	1	
ENPEP	81828	684	-3	49084	12866	0	0	0	0	50	0	356027	1	1	
ENPP1	168112	699	-5	48531	11865	0	0	0	0	50	0	412405	1	1	
ENPP2	255492	552	7	49399	12110	0	0	0	0	50	1	443429	1	1	
ENPP3	127852	852	9	46060	11186	0	0	0	0	50	0	421869	1	1	
ENPP4	64703	791	12	22904	5950	0	0	0	0	50	0	399749	1	1	
ENPP5	62118	819	16	24080	6286	0	0	0	0	50	0	385819	1	1	
ENPP6	256949	424	-5	22267	6104	0	0	0	0	50	0	403998	1	1	
ENSA	1543587	149	37	10283	2611	0	0	0	0	50	0	457121	1	1	
ENTHD1	818387	503	24	30387	8337	0	0	0	0	50	0	384503	1	1	
ENTPD1	370896	631	30	27881	7063	0	0	0	0	50	0	513296	1	1	
ENTPD2	1951939	202	40	24129	7833	0	0	0	0	50	0	420637	1	1	
ENTPD3	195830	611	18	26929	7301	0	0	0	0	50	0	288022	1	1	
ENTPD4	476980	332	37	31227	8652	0	0	0	0	50	0	377293	1	1	

ENTPD5	443041	158	51	22183	5936	0	0	0	0	50	1	376985	1	1	
ENTPD6	605543	305	-18	24815	7021	0	0	0	0	50	1	443254	1	1	
ENTPD7	422578	304	12	30408	8715	0	0	0	0	50	0	493038	1	1	
ENTPD8	1591716	213	30	24374	7630	0	0	0	0	50	0	399203	1	1	
ENY2	135626	732	20	5544	1260	0	0	0	0	44	0	383257	1	1	
EOMES	165387	429	1	33439	10262	0	0	0	0	50	1	422688	1	1	
EP300	1167197	154	42	121261	33404	0	0	0	0	50	0	454797	1	1	
EP400	408569	269	27	154203	46914	0	0	1	0	50	1	481453	1	1	
EPAS1	375634	213	28	44191	11942	0	0	0	0	50	0	480844	1	1	
EPB41	619053	227	30	44877	11739	0	0	0	0	50	1	391895	1	1	
EPB41L1	1300256	235	50	44800	12530	0	0	0	0	50	1	428785	1	1	
EPB41L2	122847	707	17	51275	13699	0	0	0	0	50	0	395976	1	1	
EPB41L4A	164575	671	28	36029	9100	0	0	0	0	50	0	361438	1	1	
EPB41L4B	337644	371	15	48314	13699	0	0	0	0	50	3	420189	1	1	
EPB41L5	218487	406	27	41496	10605	0	0	0	0	50	0	403487	1	1	
EPB42	834640	330	43	36057	10479	0	0	0	0	50	0	444325	1	1	
EPB49	584373	219	34	21035	5866	0	0	0	0	50	0	419412	1	1	
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EPC2	91724	642	7	41244	10794	0	0	0	0	50	0	512939	1	1	
EPCAM	806315	246	37	16296	4221	0	0	0	0	50	0	402906	1	1	
EPDR1	100826	683	10	16814	5131	0	0	0	0	50	0	523712	1	1	
EPGN	172790	402	18	6951	1785	0	0	0	0	50	0	351309	1	1	
EPHA1	375488	379	15	48356	14665	0	0	0	0	50	3	458395	1	1	
EPHA10	445060	375	30	49763	15946	0	0	1	0	50	1	361018	1	1	
EPHA2	866090	197	37	48867	14028	0	0	0	0	50	1	441161	1	1	
EPHA3	27204	NaN	-18	50386	13454	0	0	0	0	50	0	414246	1	1	
EPHA4	54488	1025	5	49973	13594	0	0	0	0	32	1	315945	1	1	
EPHA5	57073	706	-19	52423	14399	0	0	0	0	50	0	451220	1	1	
EPHA6	89830	1046	-18	59087	16051	0	0	0	0	50	0	414477	1	1	
EPHA7	18346	1054	-25	50911	13370	0	0	0	0	50	1	562023	1	1	
EPHA8	407931	541	25	52325	15988	0	0	0	0	50	1	469966	1	1	
EPHB1	74866	856	9	49420	13895	0	0	0	0	50	0	471737	1	1	
EPHB2	568787	464	29	49630	13874	0	0	0	0	50	1	489335	1	1	
EPHB3	1325702	411	47	49364	14833	0	0	0	0	50	0	421841	1	1	
EPHB4	1339207	433	48	48482	15106	0	0	0	0	50	0	470988	1	1	
EPHB6	284406	645	18	49938	15771	0	0	0	0	50	1	475125	1	1	
EPHX1	925960	168	8	23149	6251	0	0	0	0	50	1	370657	1	1	
EPHX2	336774	361	36	29022	7560	0	0	0	0	50	0	373576	1	1	
EPHX3	557083	381	20	17780	5551	0	0	0	0	50	0	431907	1	1	
EPHX4	260329	242	1	18445	4928	0	0	0	0	50	1	427553	1	1	
EPM2AIP1	392784	473	21	29806	8498	0	0	0	0	50	0	588105	1	1	
EPN1	1050871	254	-11	33397	10871	0	0	0	0	50	1	350805	1	1	
EPN2	658567	227	6	31248	9870	0	0	0	0	50	0	473242	1	1	
EPN3	1532661	200	20	30604	9947	0	0	0	0	50	0	444269	1	1	
EPO	1483965	336	46	9450	3108	0	0	0	0	50	1	551152	1	1	
EPOR	1385739	197	31	24696	7959	0	0	0	0	50	0	437115	1	1	
EPPK1	2376841	247	22	113659	38906	0	0	0	0	50	0	573580	1	1	
EPRS	630371	608	-8	77833	20090	0	0	0	0	50	1	417830	1	1	
EPS15	568927	251	11	48293	12292	0	0	0	0	50	1	537971	1	1	
EPS15L1	793775	258	19	44401	11984	0	0	0	0	50	0	359443	1	1	

EPS8	259826	496	11	42413	11116	0	0	0	0	50	0	391146	1	1	
EPS8L1	1125216	432	-26	36974	11326	0	0	0	0	50	0	370972	1	1	
EPS8L2	1788356	193	48	36659	10129	0	0	0	0	50	0	376684	1	1	
EPS8L3	933010	190	27	30401	8596	0	0	0	0	50	0	445312	1	1	
EPSTI1	109052	417	33	21546	5397	0	0	0	0	50	1	436870	1	1	
EPT1	698050	346	36	21882	6090	0	0	0	0	50	0	474467	1	1	
EPYC	20238	574	-33	16352	4501	0	0	0	0	50	0	416164	1	1	
ERAL1	1693126	177	31	21959	6433	0	0	0	0	50	0	383012	1	1	
ERAP1	394409	345	36	48678	12831	0	0	0	0	50	0	421932	1	1	
ERAP2	393863	469	58	49154	12817	0	0	0	0	50	1	289310	1	1	
ERAS	823539	NaN	29	11193	3549	0	0	0	0	50	0	481992	1	1	
ERBB2	1284992	226	38	62685	18627	0	0	0	0	50	0	412993	1	1	
ERBB2IP	400865	189	32	70259	18109	0	0	0	0	50	0	381661	1	1	
ERBB3	2693176	215	38	69741	19845	0	0	0	0	50	1	356629	1	1	
ERBB4	20702	1173	-5	67165	17612	0	0	0	0	50	1	387842	1	1	
ERC1	516677	470	25	57141	14658	0	0	0	0	50	0	381829	1	1	
ERC2	121781	694	17	48944	12544	0	0	0	0	50	0	392308	1	1	
ERCC1	1259254	191	39	17115	5082	0	0	0	0	50	0	428813	1	1	
ERCC2	1280459	215	23	39571	11459	0	0	0	0	50	0	416710	1	1	
ERCC3	428616	175	23	39977	10570	0	0	0	0	50	0	509985	1	1	
ERCC4	125854	251	11	45892	12761	0	0	0	0	50	0	429436	1	1	
ERCC5	196444	475	33	59948	16051	0	0	0	0	50	0	473774	1	1	
ERCC6	NaN	NaN	NaN	75390	20412	0	0	0	0	50	2	799960	1	1	
ERCC6L	NaN	NaN	NaN	62069	16870	0	0	0	0	50	2	796418	1	1	
ERCC8	199321	599	6	20706	5271	0	0	0	0	50	1	400750	1	1	
EREG	174005	402	7	8757	2289	0	0	0	0	50	0	365372	1	1	
ERF	790787	299	37	25998	8841	0	0	0	0	50	0	501109	1	1	
ERG	162262	418	4	25305	6636	0	0	0	0	50	1	347130	1	1	
ERGIC1	502164	179	47	15190	3899	0	0	0	0	50	0	377181	1	1	
ERGIC2	100875	599	-3	19985	4921	0	0	0	0	50	0	417284	1	1	
ERGIC3	1515751	169	58	20454	5187	0	0	0	0	50	0	422947	1	1	
ERH	911402	431	39	5614	1295	0	0	0	0	50	0	366415	1	1	
ERI1	147910	440	44	18060	4494	0	0	0	0	50	1	426475	1	1	
ERI2	211686	580	23	41482	10535	0	0	0	0	50	0	398867	1	1	
ERI3	758083	308	29	17178	4788	0	0	0	0	50	0	478590	1	1	
ERICH1	106263	889	-34	22575	5859	0	0	0	0	50	0	321664	1	1	
ERLEC1	NaN	NaN	NaN	25123	6461	0	0	0	0	50	2	786009	1	1	
ERLIN1	1070291	198	25	18256	4655	0	0	0	0	50	0	386218	1	1	
ERLIN2	619400	326	9	18452	4669	0	0	0	0	50	0	567322	1	1	
ERMAP	811934	327	28	23779	7049	0	0	0	0	50	0	443527	1	1	
ERMN	78933	837	8	15463	3563	0	0	0	0	50	0	466872	1	1	
ERMP1	314189	313	25	45262	12971	0	0	0	0	50	0	432068	1	1	
ERN1	1464674	379	16	49476	13902	0	0	0	0	50	0	480242	1	1	
ERN2	517081	598	33	48055	15134	0	0	0	0	50	0	378567	1	1	
ERO1L	314095	313	11	24990	5817	0	0	0	0	50	0	387219	1	1	
ERO1LB	498153	632	9	24696	6048	0	0	0	0	50	1	432901	1	1	
ERP27	341752	426	8	14133	3675	0	0	0	0	50	0	378546	1	1	
ERP29	812811	317	45	13020	3654	0	0	0	0	50	1	532287	1	1	
ERP44	246986	681	19	21434	5131	0	0	0	0	50	0	414505	1	1	
ERRFI1	387339	207	26	22666	6755	0	0	0	0	50	0	489853	1	1	

ERV3	216422	994	-9	29680	8435	0	0	0	0	50	0	419405	1	1	
ERVFRDE1	NaN	NaN	NaN	25949	8008	0	0	0	0	50	2	787556	1	1	
ESCO1	333266	221	35	42861	10794	0	0	0	0	50	0	359583	1	1	
ESCO2	406636	229	23	30877	7889	0	0	0	0	50	1	398209	1	1	
ESD	272205	820	63	14861	3640	0	0	0	0	50	0	403039	1	1	
ESF1	123437	617	-10	44954	9814	0	0	0	0	50	0	425950	1	1	
ESM1	205256	603	13	9373	2492	0	0	0	0	50	0	376215	1	1	
ESPL1	1677275	191	49	103460	32683	0	0	0	0	50	0	393820	1	1	
ESPN	644193	198	33	41377	13496	0	0	0	0	46	0	377846	1	1	
ESPNL	428658	356	29	47705	16345	0	0	0	0	50	1	436268	1	1	
ESR1	221347	568	0	29792	8428	0	0	0	0	50	1	392427	1	1	
ESR2	528074	387	46	28175	7714	0	0	0	0	50	0	435960	1	1	
ESRP1	467699	426	31	34951	9758	0	0	0	0	50	0	436807	1	1	
ESRP2	910198	281	30	34916	11494	0	0	0	0	50	0	377685	1	1	
ESRRA	1613996	257	65	20370	6846	0	0	0	0	50	0	419300	1	1	
ESRRB	243524	616	39	25396	7343	0	0	0	0	50	0	310695	1	1	
ESRRG	15599	1132	-28	23240	6181	0	0	0	0	50	0	544859	1	1	
ESYT1	2878044	171	40	55937	16828	0	0	0	0	2	0	21819	1	1	
ESYT2	286663	344	1	44954	13174	0	0	0	0	50	0	505911	1	1	
ESYT3	201756	408	19	44562	13167	0	0	0	0	50	0	335846	1	1	
ETAA1	36002	401	-3	46830	11991	0	0	0	0	50	0	427119	1	1	
ETF1	1202314	205	51	22638	5796	0	0	0	0	50	1	426923	1	1	
ETFA	307633	186	35	17129	4879	0	0	0	0	50	0	313047	1	1	
ETFB	368509	610	-9	17654	5866	0	0	0	0	50	0	281603	1	1	
ETFDH	171388	429	1	31430	8512	0	0	0	0	50	0	422590	1	1	
ETHE1	416043	209	-10	12740	3871	0	0	0	0	50	1	419860	1	1	
ETNK1	206703	644	2	24339	6846	0	0	0	0	50	0	410942	1	1	
ETNK2	557652	370	34	19649	5320	0	0	0	0	50	0	433209	1	1	
ETS1	215125	644	28	26439	6699	0	0	0	0	50	0	360262	1	1	
ETS2	382323	151	5	24199	6125	0	0	0	0	50	1	363937	1	1	
ETV1	46434	989	-16	26145	6300	0	0	0	0	50	1	427679	1	1	
ETV2	1162794	390	27	17003	5152	0	0	0	0	50	0	405559	1	1	
ETV3	895723	423	31	25683	7602	0	0	0	0	50	0	374192	1	1	
ETV3L	934232	423	32	17738	5404	0	0	0	0	50	0	386372	1	1	
ETV4	1093430	148	21	24724	6839	0	0	0	0	50	0	365302	1	1	
ETV5	780547	397	36	26145	7056	0	0	0	0	50	0	474166	1	1	
ETV6	233493	629	31	22869	6258	0	0	0	0	50	0	310191	1	1	
ETV7	942911	192	46	17332	4802	0	0	0	0	50	1	423976	1	1	
EVC2	69455	688	19	65681	18592	0	0	0	0	50	0	397362	1	1	
EVI2A	NaN	NaN	NaN	12908	3640	0	0	0	0	50	2	783188	1	1	
EVI2B	NaN	NaN	NaN	21805	6566	0	0	0	0	50	2	786114	1	1	
EVI5	488549	506	4	42161	10402	0	0	0	0	50	0	421463	1	1	
EVI5L	836245	270	24	40775	11641	0	0	0	0	50	0	404264	1	1	
EVL	453415	234	27	21588	5943	0	0	0	0	50	0	392931	1	1	
EVPL	1611239	218	22	99729	30177	0	0	0	0	50	0	473452	1	1	
EVPLL	NaN	NaN	NaN	15554	4312	0	0	0	0	50	2	783860	1	1	
EVX1	473864	394	13	19229	6643	0	0	0	0	50	0	503846	1	1	
EVX2	242935	874	15	22323	7854	0	0	0	0	50	1	383033	1	1	
EWSR1	854820	251	51	35315	9835	0	0	0	0	50	1	412111	1	1	
EXD1	933164	175	39	26131	7070	0	0	0	0	50	1	437535	1	1	

EXD2	821714	373	39	24913	6986	0	0	0	0	50	0	414582	1	1	
EXD3	1632320	208	30	43505	13552	0	0	0	0	50	0	426552	1	1	
EXO1	173100	325	-16	42889	11564	0	0	0	0	50	0	443457	1	1	
EXOC1	579538	452	12	46431	11466	0	0	0	0	50	0	386309	1	1	
EXOC2	157724	679	36	48202	12341	0	0	0	0	50	0	490931	1	1	
EXOC3	787542	399	37	37744	10262	0	0	0	0	50	0	453404	1	1	
EXOC3L	1109491	150	46	35903	12292	0	0	0	0	50	0	375074	1	1	
EXOC3L2	1356264	243	38	19817	6769	0	0	0	0	50	0	491036	1	1	
EXOC4	618702	965	12	49686	13356	0	0	0	0	50	0	403711	1	1	
EXOC5	176601	944	13	37254	8841	0	0	0	0	50	0	467467	1	1	
EXOC6	557904	421	36	43855	10556	0	0	0	0	50	0	436625	1	1	
EXOC6B	148260	625	-1	42301	10661	0	0	0	0	50	0	401520	1	1	
EXOC7	1611239	218	22	37898	10108	0	0	0	0	50	0	473452	1	1	
EXOC8	377235	569	2	35336	10444	0	0	0	0	50	0	480893	1	1	
EXOG	373229	578	28	18578	5131	0	0	0	0	50	2	502838	1	1	
EXOSC1	724294	188	40	10241	2737	0	0	0	0	50	0	429352	1	1	
EXOSC10	577167	408	34	46046	11872	0	0	0	0	50	0	423899	1	1	
EXOSC2	505506	211	24	15015	4221	0	0	0	0	50	0	403732	1	1	
EXOSC3	489340	453	23	13650	4074	0	0	0	0	50	0	346416	1	1	
EXOSC4	2720766	211	27	11662	4046	0	0	0	0	50	0	518427	1	1	
EXOSC5	1148529	249	36	11620	3710	0	0	0	0	50	0	316232	1	1	
EXOSC6	1353954	139	37	12320	4921	0	0	0	0	50	0	430465	1	1	
EXOSC7	479578	326	41	14896	4172	0	0	0	0	50	2	392294	1	1	
EXOSC8	176745	650	16	14553	3780	0	0	0	0	50	0	379379	1	1	
EXOSC9	324357	506	29	23604	6195	0	0	0	0	50	1	426433	1	1	
EXPH5	369515	500	13	98889	26901	0	0	0	0	50	0	424095	1	1	
EXT1	190467	586	18	37877	10024	0	0	0	0	50	0	309050	1	1	
EXT2	291324	616	7	39704	10843	0	0	0	0	50	1	449323	1	1	
EXTL1	748547	221	31	32928	10563	0	0	0	0	50	0	343378	1	1	
EXTL2	193606	859	-3	16786	4403	0	0	0	0	50	1	409437	1	1	
EXTL3	403198	327	42	44737	13559	0	0	0	0	50	2	395325	1	1	
EYA1	50979	967	-3	31059	8295	0	0	0	0	50	0	415625	1	1	
EYA2	306082	522	36	27559	7658	0	0	0	0	50	0	343553	1	1	
EYA3	827177	316	28	29764	7826	0	0	0	0	50	0	413350	1	1	
EYA4	97438	409	-8	34902	9219	0	0	0	0	50	0	404383	1	1	
EYS	28896	1167	-23	159334	41237	0	0	0	0	9	0	124838	1	1	
EZH1	1740597	177	36	39109	9611	0	0	0	0	50	1	431606	1	1	
EZH2	564321	434	13	39452	9520	0	0	0	0	50	0	411915	1	1	
EZR	564251	163	55	30478	7595	0	0	0	0	50	1	384503	1	1	
F10	774267	229	26	24983	6496	0	0	0	0	50	0	429968	1	1	
F11	364737	606	-12	32277	8316	0	0	0	0	50	0	313159	1	1	
F11R	777836	441	19	15302	4354	0	0	0	0	50	1	433888	1	1	
F12	1038665	261	59	30933	9009	0	0	0	0	50	1	460180	1	1	
F13A1	44522	696	22	37324	10031	0	0	0	0	50	0	417865	1	1	
F2	965022	176	48	31717	8708	0	0	0	0	50	1	360472	1	1	
F2R	257923	372	46	20678	6244	0	0	0	0	50	1	399140	1	1	
F2RL1	248362	418	25	19201	5957	0	0	0	0	50	0	371273	1	1	
F2RL2	NaN	NaN	NaN	18354	5355	0	0	0	0	50	2	784903	1	1	
F2RL3	901964	305	31	17556	6846	0	0	0	0	50	0	441399	1	1	
F3	411634	258	-7	15484	3584	0	0	0	0	50	1	468041	1	1	

F7	789162	285	14	23366	6769	0	0	0	0	50	0	420224	1	1	
F8	1741051	NaN	4	119462	31360	0	0	0	0	43	0	436520	1	1	
F8A1	NaN	NaN	NaN	17052	6426	0	0	0	0	50	2	785974	1	1	
F8A2	NaN	NaN	NaN	51198	19278	0	0	0	0	50	2	798826	1	1	
F8A3	NaN	NaN	NaN	17052	6426	0	0	0	0	50	2	785974	1	1	
F9	69360	NaN	0	23751	5985	0	0	0	0	50	0	438081	1	1	
FA2H	612822	173	27	18662	5383	0	0	0	0	50	1	332563	1	1	
FAAH	597667	255	28	28819	8939	0	0	0	0	50	1	444822	1	1	
FAAH2	91305	NaN	-6	26901	7518	0	0	0	0	50	0	423360	1	1	
FABP1	180956	612	6	6776	1624	0	0	0	0	50	1	349076	1	1	
FABP12	186546	595	0	7266	1827	0	0	0	0	50	0	394856	1	1	
FABP2	218603	824	-1	6965	1708	0	0	0	0	50	0	385700	1	1	
FABP3	708176	262	29	6895	1841	0	0	0	0	50	0	477974	1	1	
FABP4	191177	595	1	6944	1729	0	0	0	0	50	0	401667	1	1	
FABP5	231632	463	42	7126	1736	0	0	0	0	50	1	431816	1	1	
FABP6	198270	448	38	9520	2282	0	0	0	0	50	1	454265	1	1	
FABP7	138284	1073	-1	6930	1701	0	0	0	0	50	1	309939	1	1	
FABP9	191177	595	1	7000	1610	0	0	0	0	50	0	401667	1	1	
FADD	765202	286	34	10024	3227	0	0	0	0	50	0	519610	1	1	
FADS1	1239228	212	59	25508	7042	0	0	0	0	50	0	505092	1	1	
FADS2	1618824	212	64	23156	5803	0	0	0	0	50	0	465696	1	1	
FADS3	1998419	212	69	22785	6237	0	0	0	0	50	0	542794	1	1	
FADS6	1027517	320	20	17213	5362	0	0	0	0	50	0	390796	1	1	
FAF1	237738	691	-5	33810	8715	0	0	0	0	50	0	435519	1	1	
FAF2	592072	239	47	22911	6069	0	0	0	0	50	1	428848	1	1	
FAH	201157	561	32	21763	5831	0	0	0	0	50	0	422471	1	1	
FAHD1	1604603	288	36	15561	4431	0	0	0	0	50	0	407358	1	1	
FAHD2A	255441	536	19	15785	4648	0	0	0	0	50	0	368522	1	1	
FAHD2B	515149	535	38	15827	4606	0	0	0	0	50	0	439215	1	1	
FAIM	198181	515	26	11942	2926	0	0	0	0	50	0	397796	1	1	
FAIM2	1291800	231	45	16149	4746	0	0	0	0	50	0	525308	1	1	
FAIM3	467839	385	39	19257	6048	0	0	0	0	50	0	445522	1	1	
FAM100A	742112	160	46	8799	2583	0	0	0	0	50	3	358169	1	1	
FAM100B	1678166	209	19	8288	2275	0	0	0	0	50	0	524811	1	1	
FAM101A	1197100	504	34	6699	2037	0	0	0	0	23	1	229369	1	1	
FAM101B	248876	591	1	7014	2226	0	0	0	0	50	0	356223	1	1	
FAM102A	1604109	201	61	19376	5719	0	0	0	0	50	0	391139	1	1	
FAM102B	615760	313	-3	18669	4956	0	0	0	0	50	0	486136	1	1	
FAM103A1	452169	683	19	6650	1057	0	0	0	0	25	0	236159	1	1	
FAM104A	205112	251	-15	10304	3094	0	0	0	0	50	0	465521	1	1	
FAM104B	214019	NaN	18	8603	1897	0	0	0	0	50	0	409283	1	1	
FAM105A	514082	380	28	18438	4641	0	0	0	0	50	0	389431	1	1	
FAM105B	511502	422	16	17955	4788	0	0	0	0	50	0	352891	1	1	
FAM107A	534993	383	31	7343	2044	0	0	0	0	50	0	385567	1	1	
FAM107B	256093	327	36	15596	4081	0	0	0	0	50	0	380492	1	1	
FAM108A1	2226995	214	26	17563	5579	0	0	0	0	50	1	475622	1	1	
FAM108B1	284075	358	4	14966	4102	0	0	0	0	50	0	448385	1	1	
FAM108C1	334777	313	7	15981	4977	0	0	0	0	50	0	485940	1	1	
FAM109A	473383	479	42	12313	4424	0	0	0	0	50	1	432726	1	1	
FAM109B	1321127	363	65	12523	3941	0	0	0	0	50	0	309267	1	1	

FAM110A	824412	579	36	13545	5187	0	0	0	0	50	0	384118	1	1	
FAM110B	190462	601	15	17969	5404	0	0	0	0	50	0	349475	1	1	
FAM110C	123809	705	NaN	14980	5390	0	0	0	0	50	0	465206	1	1	
FAM111A	542222	686	9	31108	7700	0	0	0	0	50	0	461167	1	1	
FAM111B	437114	741	-6	37338	9135	0	0	0	0	50	0	370881	1	1	
FAM113A	766497	396	44	22491	6762	0	0	0	0	50	1	462042	1	1	
FAM113B	261073	398	0	20755	6608	0	0	0	0	50	0	490175	1	1	
FAM114A1	370538	352	63	28777	7847	0	0	0	0	50	0	409108	1	1	
FAM114A2	171379	592	5	25879	7091	0	0	0	0	50	1	364252	1	1	
FAM115A	453936	618	-5	45073	13685	0	0	0	0	50	1	426272	1	1	
FAM115C	433430	463	-7	50568	15330	0	0	0	0	50	0	466767	1	1	
FAM116A	718677	332	30	31689	8316	0	0	0	0	50	1	402094	1	1	
FAM116B	939384	257	70	27237	7518	0	0	0	0	50	1	385217	1	1	
FAM117A	993241	361	26	22043	7189	0	0	0	0	50	0	392784	1	1	
FAM117B	549913	515	26	28665	9135	0	0	0	0	50	1	350273	1	1	
FAM118A	461688	277	26	18333	4893	0	0	0	0	50	1	397908	1	1	
FAM118B	493677	341	28	17997	4767	0	0	0	0	50	0	378126	1	1	
FAM119A	183578	198	24	10899	3150	0	0	0	0	50	0	401632	1	1	
FAM119B	1160849	344	39	13517	3955	0	0	0	0	50	1	396711	1	1	
FAM120A	421454	547	35	57442	16625	0	0	0	0	50	0	354886	1	1	
FAM120AOS	422600	547	26	14315	4144	0	0	0	0	50	1	362719	1	1	
FAM120B	366503	600	-4	45906	12327	0	0	0	0	50	0	320845	1	1	
FAM120C	610328	NaN	28	54208	16625	0	0	0	0	50	0	324044	1	1	
FAM122A	NaN	NaN	NaN	13846	4298	0	0	0	0	50	2	783846	1	1	
FAM122B	293030	NaN	27	15316	3836	0	0	0	0	50	0	526099	1	1	
FAM122C	293030	NaN	27	19397	5194	0	0	0	0	50	0	526099	1	1	
FAM123A	331169	650	34	31969	10409	0	0	0	0	50	0	304724	1	1	
FAM123B	57924	NaN	2	55258	16394	0	0	0	0	50	1	517622	1	1	
FAM123C	607528	203	17	40943	13510	0	0	0	0	50	0	381794	1	1	
FAM124A	175682	518	37	28322	8743	0	0	0	0	50	1	366380	1	1	
FAM124B	310772	460	12	23702	7063	0	0	0	0	50	0	379169	1	1	
FAM125A	899127	211	26	13734	4242	0	0	0	0	50	0	356048	1	1	
FAM125B	112775	646	33	16429	4571	0	0	0	0	50	1	449981	1	1	
FAM126A	1063802	413	26	26537	7189	0	0	0	0	50	0	511378	1	1	
FAM126B	646602	167	33	26579	7714	0	0	0	0	50	2	409500	1	1	
FAM127A	304745	NaN	42	5551	1673	0	0	0	0	50	1	404138	1	1	
FAM127B	304745	NaN	42	6531	1995	0	0	0	0	50	1	404138	1	1	
FAM127C	304745	NaN	42	5558	1666	0	0	0	0	50	1	404138	1	1	
FAM128A	455705	540	29	7658	2569	0	0	0	0	50	1	392469	1	1	
FAM128B	349797	593	22	7637	2590	0	0	0	0	50	0	434924	1	1	
FAM129A	349492	479	3	47075	12544	0	0	0	0	50	1	423710	1	1	
FAM129B	857814	182	46	37877	10696	0	0	0	0	50	1	408142	1	1	
FAM131A	1447013	268	44	17857	5684	0	0	0	0	50	1	551999	1	1	
FAM131C	876105	197	40	14203	4004	0	0	0	0	50	1	419972	1	1	
FAM132A	2356409	196	27	14707	5054	0	0	0	0	50	0	525952	1	1	
FAM133A	33770	NaN	-11	12740	2968	0	0	0	0	50	1	692279	1	1	
FAM133B	744909	334	24	13594	2912	0	0	0	0	50	0	540988	1	1	
FAM134A	773232	177	36	26313	8631	0	0	0	0	50	1	392553	1	1	
FAM134B	203311	553	-11	25795	7070	0	0	0	0	50	0	414309	1	1	
FAM134C	1884163	177	38	23149	7007	0	0	0	0	50	0	468503	1	1	

FAM135A	114193	606	11	78477	20349	0	0	0	0	50	0	381584	1	1	
FAM135B	6187	989	-37	70147	20090	0	0	0	0	50	0	462700	1	1	
FAM136A	671278	370	38	7224	1743	0	0	0	0	13	0	124964	1	1	
FAM136B	NaN	NaN	NaN	7000	1715	0	0	0	0	31	2	345198	1	1	
FAM13A	160978	576	8	53326	13769	0	0	0	0	50	1	407729	1	1	
FAM13B	992763	396	39	49434	12033	0	0	0	0	50	0	306782	1	1	
FAM13C	121813	707	-15	30177	7875	0	0	0	0	50	0	518021	1	1	
FAM149A	373525	536	-13	24185	7168	0	0	0	0	50	0	419160	1	1	
FAM149B1	NaN	NaN	NaN	29575	8246	0	0	0	0	50	2	787794	1	1	
FAM150A	105913	682	-11	6566	1960	0	0	0	0	50	1	547680	1	1	
FAM150B	304765	624	-18	7658	2401	0	0	0	0	50	0	348838	1	1	
FAM151A	723136	415	20	28532	9058	0	0	0	0	50	1	455182	1	1	
FAM151B	320158	516	35	14357	3514	0	0	0	0	50	0	334019	1	1	
FAM153A	1267336	553	18	17073	4116	0	0	0	0	50	1	405965	1	1	
FAM153B	592877	609	19	21189	5061	0	0	0	0	50	0	406805	1	1	
FAM153C	961008	363	32	6391	1526	0	0	0	0	50	0	368718	1	1	
FAM154A	500270	450	-18	23716	6461	0	0	0	0	50	0	393484	1	1	
FAM154B	382946	701	18	20132	5215	0	0	0	0	50	1	564053	1	1	
FAM155A	73040	1144	-37	22680	6405	0	0	0	0	50	0	443744	1	1	
FAM155B	74378	NaN	23	22855	7154	0	0	0	0	50	0	363867	1	1	
FAM156A	NaN	NaN	NaN	20720	6244	0	0	0	0	50	2	785792	1	1	
FAM156B	NaN	NaN	NaN	20720	6244	0	0	0	0	50	2	785792	1	1	
FAM157A	NaN	NaN	NaN	19005	5691	0	0	0	0	50	2	785239	1	1	
FAM157B	NaN	NaN	NaN	18984	5775	0	0	0	0	50	2	785323	1	1	
FAM158A	974559	220	41	10570	3080	0	0	0	0	50	2	483035	1	1	
FAM159A	663153	261	19	9611	2674	0	0	0	0	50	0	351148	1	1	
FAM159B	NaN	NaN	NaN	8169	2142	0	0	0	0	50	2	781690	1	1	
FAM160A1	NaN	NaN	NaN	51821	14602	0	0	0	0	50	2	794150	1	1	
FAM160A2	466636	728	4	47019	16002	0	0	0	0	50	0	450765	1	1	
FAM160B1	208967	183	16	39508	10661	0	0	0	0	50	0	308182	1	1	
FAM160B2	584373	219	34	33894	10143	0	0	0	0	50	0	419412	1	1	
FAM161A	758678	249	34	33558	8547	0	0	0	0	50	0	376775	1	1	
FAM161B	443041	158	51	32305	9233	0	0	0	0	38	0	308658	1	1	
FAM162A	416095	478	34	8134	2009	0	0	0	0	50	0	318857	1	1	
FAM162B	244987	581	14	7980	2541	0	0	0	0	50	0	427406	1	1	
FAM163A	458564	479	-8	8190	2562	0	0	0	0	50	0	442113	1	1	
FAM163B	NaN	NaN	NaN	8085	2499	0	0	0	0	50	2	782047	1	1	
FAM164A	49383	969	2	16639	4613	0	0	0	0	50	1	442414	1	1	
FAM164C	919043	222	47	22701	6258	0	0	0	0	50	1	510867	1	1	
FAM165B	410767	518	61	3213	756	0	0	0	0	50	1	269045	1	1	
FAM166A	1724821	399	43	16254	4326	0	0	0	0	50	0	327124	1	1	
FAM166B	1108352	300	27	10941	3192	0	0	0	0	50	0	367157	1	1	
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FAM167B	1427362	210	43	7798	2618	0	0	0	0	50	0	506744	1	1	
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FAM168B	461529	331	16	9779	3073	0	0	0	0	50	0	397873	1	1	
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FAM170A	296413	644	-2	16716	4410	0	0	0	0	50	0	344022	1	1	
FAM170B	NaN	NaN	NaN	14154	3864	0	0	0	0	50	2	783412	1	1	

FAM171A1	211657	716	8	43743	13020	0	0	0	0	50	0	480319	1	1	
FAM171A2	NaN	NaN	NaN	38801	13888	0	0	0	0	50	2	793436	1	1	
FAM171B	264318	538	-9	41062	11627	0	0	0	0	50	0	418271	1	1	
FAM172A	264052	622	6	21749	5362	0	0	0	0	50	1	367962	1	1	
FAM173A	1207790	194	33	11172	4116	0	0	0	0	50	2	442589	1	1	
FAM173B	623675	325	5	11732	3388	0	0	0	0	50	0	550753	1	1	
FAM174A	23650	1030	13	9114	3087	0	0	0	0	50	0	487424	1	1	
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FAM175A	275241	378	29	21350	5194	0	0	0	0	50	2	448427	1	1	
FAM175B	290823	200	36	21497	5425	0	0	0	0	50	0	326977	1	1	
FAM176A	224734	608	8	7602	2205	0	0	0	0	50	1	456673	1	1	
FAM176B	685495	212	32	7931	2695	0	0	0	0	50	0	371784	1	1	
FAM177A1	640994	321	45	12173	3136	0	0	0	0	50	1	392875	1	1	
FAM177B	221712	236	-4	8400	1953	0	0	0	0	50	0	443121	1	1	
FAM178A	1007780	247	35	60935	16198	0	0	0	0	50	0	332318	1	1	
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FAM179A	471053	404	28	50085	15687	0	0	0	0	50	0	409878	1	1	
FAM179B	231363	490	1	85162	24773	0	0	0	0	50	1	426979	1	1	
FAM180A	470926	386	-1	8540	2590	0	0	0	0	50	0	326354	1	1	
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FAM181B	303563	599	-7	19628	7273	0	0	0	0	50	0	350399	1	1	
FAM183A	1068006	294	30	7126	1715	0	0	0	0	50	0	399147	1	1	
FAM184A	115280	856	-1	59297	14014	0	0	0	0	50	0	452935	1	1	
FAM184B	NaN	NaN	NaN	53893	14378	0	0	0	0	50	2	793926	1	1	
FAM185A	NaN	NaN	NaN	19586	5761	0	0	0	0	50	2	785309	1	1	
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FAM190A	104011	1180	-4	45465	12684	0	0	0	0	50	0	396172	1	1	
FAM190B	215927	942	1	42504	10941	0	0	0	0	50	0	410592	1	1	
FAM192A	731638	149	48	13202	3367	0	0	0	0	50	3	339472	1	1	
FAM193A	637151	209	46	61964	16639	0	0	0	0	50	1	397810	1	1	
FAM193B	1120311	347	41	38745	11676	0	0	0	0	50	1	391951	1	1	
FAM194A	359484	397	30	34286	8722	0	0	0	0	50	0	471107	1	1	
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FAM195A	1115707	213	39	8022	2457	0	0	0	0	50	0	333676	1	1	
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FAM200B	NaN	NaN	NaN	33019	8435	0	0	0	0	50	2	787983	1	1	
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FAM22G	309543	582	27	36148	12005	0	0	0	0	50	1	471058	1	1	
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FAM24A	290558	619	14	5425	1421	0	0	0	0	18	0	142170	1	1	
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FAM35A	403850	144	27	42147	11109	0	0	0	0	50	1	514885	1	1	
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FAM38B	90278	610	30	141281	36442	0	0	0	0	50	1	430010	1	1	
FAM3A	2163759	NaN	42	12138	3171	0	0	0	0	50	0	434609	1	1	
FAM3B	224593	506	24	12327	3129	0	0	0	0	50	0	391650	1	1	
FAM3C	100604	535	-1	12194	2926	0	0	0	0	50	1	474446	1	1	
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FAM40A	660515	373	29	42917	11599	0	0	0	0	50	1	405601	1	1	
FAM40B	625985	286	38	43064	11704	0	0	0	0	50	0	381829	1	1	
FAM43A	406498	421	39	20020	6692	0	0	0	0	50	1	440804	1	1	
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FAM46A	121389	396	-18	21882	6195	0	0	0	0	50	0	380009	1	1	
FAM46B	929681	336	34	19950	6972	0	0	0	0	50	0	459683	1	1	
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FAM47B	6541	NaN	-14	31199	9541	0	0	0	0	50	1	496307	1	1	
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FAM63A	1621279	172	30	25949	7525	0	0	0	0	50	0	381178	1	1	
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FAM71E1	1038277	491	30	11340	3654	0	0	0	0	50	1	410634	1	1	
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FAM72D	NaN	NaN	NaN	7777	1925	0	0	0	0	50	2	781473	1	1	
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FAM83D	263385	581	30	29680	9422	0	0	0	0	50	1	431046	1	1	
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FAM90A13	NaN	NaN	NaN	67109	21469	0	0	0	0	50	2	801017	1	1	
FAM90A14	NaN	NaN	NaN	67109	21469	0	0	0	0	50	2	801017	1	1	
FAM90A18	NaN	NaN	NaN	44786	14266	0	0	0	0	50	2	793814	1	1	
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FAM90A7	NaN	NaN	NaN	44744	14350	0	0	0	0	50	2	793898	1	1	
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FAM90A9	NaN	NaN	NaN	22379	7147	0	0	0	0	50	2	786695	1	1	
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FAM92A1	221692	552	-4	14966	3913	0	0	0	0	50	1	382347	1	1	
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FAM96A	740524	234	48	8295	2184	0	0	0	0	50	1	423563	1	1	
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FAM98A	116876	865	5	25900	7427	0	0	0	0	50	1	346493	1	1	
FAM98B	97405	643	-15	23331	6657	0	0	0	0	50	0	484757	1	1	
FAM98C	1467279	253	0	16898	5782	0	0	0	0	50	1	393015	1	1	
FAM9A	13530	NaN	-19	17605	4130	0	0	0	0	50	0	426482	1	1	
FAM9B	47340	NaN	-11	10374	2037	0	0	0	0	50	1	615244	1	1	

FAM9C	209806	NaN	58	9205	1904	0	0	0	0	50	0	483910	1	1	
FANCA	1234390	219	41	74207	21217	0	0	0	0	50	0	455595	1	1	
FANCB	111662	NaN	21	43575	11277	0	0	0	0	50	0	416647	1	1	
FANCC	165520	457	38	28511	7882	0	0	0	0	50	1	490875	1	1	
FANCD2	885389	170	41	77819	20188	0	0	1	0	50	1	442274	1	1	
FANCE	683460	280	36	26243	8344	0	0	0	0	50	0	473249	1	1	
FANCF	52076	970	-4	17752	5915	0	0	0	0	50	0	368816	1	1	
FANCG	782447	350	42	30723	9618	0	0	0	0	50	1	488740	1	1	
FANCI	642890	400	25	69013	17864	0	0	0	0	50	2	484757	1	1	
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FANCM	234454	565	8	104440	26537	0	0	0	0	50	1	451682	1	1	
FANK1	207005	738	-8	17850	4788	0	0	0	0	50	0	477239	1	1	
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FAR1	171781	639	-7	26523	6909	0	0	0	0	50	0	502824	1	1	
FAR2	104924	674	-4	26516	6916	0	0	0	0	50	0	442267	1	1	
FARP1	494775	574	35	57295	15428	0	0	0	0	50	0	365372	1	1	
FARP2	1221130	383	31	53802	14847	0	0	0	0	50	1	375578	1	1	
FARS2	127934	845	28	22834	6146	0	0	0	0	50	1	510734	1	1	
FARSA	1886809	335	40	25816	7301	0	0	0	0	50	0	357672	1	1	
FARSB	267637	308	18	30429	8127	0	0	0	0	50	1	404537	1	1	
FAS	187494	375	39	17689	4235	0	0	0	0	50	0	371504	1	1	
FASLG	116331	506	7	13930	4088	0	0	0	0	50	0	422079	1	1	
FASTK	622098	373	41	26390	9058	0	0	0	0	50	0	494340	1	1	
FASTKD1	358154	404	30	43365	11193	0	0	0	0	50	0	473158	1	1	
FASTKD2	206970	816	1	36281	9436	0	0	0	0	50	0	425355	1	1	
FASTKD3	65781	1013	-18	33047	9142	0	0	0	0	50	0	400274	1	1	
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FAT1	351973	513	-13	226618	64673	0	0	0	0	43	0	430500	1	1	
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FAU	3267059	207	46	6741	2079	0	0	0	0	50	0	402752	1	1	
FBF1	1667990	194	22	56910	16884	0	0	0	0	50	0	535101	1	1	
FBL	1289328	526	23	16086	4914	0	0	0	0	50	1	417662	1	1	
FBLIM1	752403	174	29	22281	6762	0	0	0	0	50	0	449435	1	1	
FBLN1	448796	195	3	43918	11774	0	0	0	0	50	2	397411	1	1	
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FBLN5	333910	440	29	23135	5992	0	0	0	0	50	0	457604	1	1	
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FBN1	399245	304	-1	149919	36393	0	0	0	0	50	0	481887	1	1	
FBN2	226750	605	9	151795	37100	0	0	0	0	50	1	464674	1	1	
FBN3	914975	258	15	143577	38703	0	0	0	0	17	0	147714	1	1	
FBP1	260812	350	38	17052	4893	0	0	0	0	50	0	342867	1	1	
FBP2	261413	427	41	16905	5061	0	0	0	0	50	2	428197	1	1	
FBRS	2255010	158	60	22176	7707	0	0	0	0	50	0	455609	1	1	
FBRSL1	NaN	NaN	NaN	50029	17213	0	0	0	0	50	2	796761	1	1	
FBXL12	1069900	579	-26	15498	5271	0	0	0	0	50	0	403130	1	1	
FBXL13	720636	510	30	38157	9681	0	0	0	0	50	1	425096	1	1	
FBXL14	333350	216	28	19964	6559	0	0	0	0	50	0	506590	1	1	

FBXL15	975992	178	39	14105	5110	0	0	0	0	50	0	510860	1	1	
FBXL16	1207790	194	33	22967	7693	0	0	0	0	50	2	442589	1	1	
FBXL17	73947	913	4	34363	10535	0	0	0	0	50	1	356916	1	1	
FBXL18	1906749	195	34	34419	11256	0	0	0	0	50	1	447398	1	1	
FBXL19	1508459	247	46	33271	11354	0	0	0	0	50	0	404719	1	1	
FBXL2	496632	352	15	21931	6041	0	0	0	0	50	0	475538	1	1	
FBXL20	1467668	179	20	22561	6146	0	0	0	0	50	0	371518	1	1	
FBXL21	489402	443	19	21763	5999	0	0	0	0	50	0	320915	1	1	
FBXL22	754243	197	47	11543	3829	0	0	0	0	50	1	371833	1	1	
FBXL3	218827	551	34	21511	5831	0	0	0	0	50	1	402822	1	1	
FBXL4	237914	891	-6	31122	8652	0	0	0	0	50	1	401016	1	1	
FBXL5	190822	327	37	35462	8995	0	0	0	0	50	0	354158	1	1	
FBXL6	2525749	200	28	25893	8883	0	0	0	0	50	0	514801	1	1	
FBXL7	13845	956	-27	23793	7455	0	0	0	0	50	0	469133	1	1	
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FBXO10	511883	338	34	47369	13762	0	0	0	0	50	0	383075	1	1	
FBXO11	486669	587	27	49651	12509	0	0	0	0	50	1	447524	1	1	
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FBXO17	1794625	282	21	14133	4431	0	0	0	0	37	1	278355	1	1	
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FBXO2	682357	264	32	15015	4158	0	0	0	0	50	0	423017	1	1	
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FBXO28	638932	174	13	18417	5208	0	0	0	0	50	0	417186	1	1	
FBXO3	755929	424	15	24507	6258	0	0	0	0	50	1	377237	1	1	
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FBXO4	113456	795	23	20174	5320	0	0	0	0	50	0	379141	1	1	
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FBXO42	788646	186	42	35532	10458	0	0	0	0	50	0	390754	1	1	
FBXO43	810757	396	25	35490	9597	0	0	0	0	50	0	564578	1	1	
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FBXW10	752804	391	-6	53277	14133	0	0	0	0	50	1	338835	1	1	
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FBXW12	1401411	263	32	24633	6321	0	0	0	0	50	0	430773	1	1	
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FBXW7	117295	501	51	42728	11452	0	0	0	0	50	0	472073	1	1	
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FCAMR	467960	385	26	28847	8239	0	0	0	0	50	0	403543	1	1	
FCAR	914047	573	-19	16114	3815	0	0	0	0	50	0	406308	1	1	
FCER1A	285980	737	-6	13363	3311	0	0	0	0	50	0	486934	1	1	
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FCER2	688482	384	31	16758	4368	0	0	0	0	50	1	445354	1	1	
FCF1	886320	184	43	10710	2499	0	0	0	0	50	1	376110	1	1	
FCGBP	1312608	522	29	262080	81480	0	0	0	0	0	0	81480	1	1	
FCGR1A	NaN	NaN	NaN	19404	5355	0	0	0	0	50	2	784903	1	1	
FCGR1B	285005	NaN	8	14301	3780	0	0	0	0	50	0	450968	1	1	
FCGR2A	741254	448	41	16247	4333	0	0	0	0	50	1	443037	1	1	
FCGR2B	598281	504	20	15939	4284	0	0	0	0	50	0	367717	1	1	
FCGR2C	693228	503	23	16429	4529	0	0	0	0	50	0	420749	1	1	
FCGR3A	693228	503	23	14721	3948	0	0	0	0	50	0	420749	1	1	
FCGR3B	645754	503	22	11886	3192	0	0	0	0	50	0	372911	1	1	
FCGRT	2080142	210	41	17934	5628	0	0	0	0	50	0	429324	1	1	
FCHO1	1181745	246	21	45087	13461	0	0	0	0	50	0	492289	1	1	
FCHO2	449417	440	18	42259	10934	0	0	0	0	50	1	326837	1	1	
FCHSD1	771583	353	25	34734	10437	0	0	0	0	50	0	452095	1	1	
FCHSD2	475608	318	46	38472	9807	0	0	0	0	50	1	417753	1	1	
FCN1	237562	489	35	16737	4578	0	0	0	0	50	1	414078	1	1	
FCN2	229567	450	26	15904	4508	0	0	0	0	50	0	328881	1	1	
FCN3	866116	188	28	15246	4284	0	0	0	0	50	0	512365	1	1	
FCRL1	113186	829	26	23044	6272	0	0	0	0	50	0	385917	1	1	
FCRL2	113186	829	26	25865	7168	0	0	0	0	50	0	385917	1	1	
FCRL3	180228	829	21	36848	10633	0	0	0	0	50	0	385588	1	1	
FCRL4	232460	820	28	25984	7448	0	0	0	0	50	0	465626	1	1	
FCRL5	234921	764	25	48237	14721	0	0	0	0	50	0	372841	1	1	
FCRL6	801453	497	6	21882	6321	0	0	0	0	50	1	375459	1	1	
FCRLA	598281	504	20	18858	5691	0	0	0	0	50	0	367717	1	1	
FCRLB	598281	504	20	20559	6804	0	0	0	0	50	0	367717	1	1	
FDFT1	470737	360	34	21329	5593	0	0	0	0	50	0	343322	1	1	
FDPS	1574928	194	45	21371	5950	0	0	0	0	50	0	408905	1	1	
FDX1	137098	403	6	8995	2912	0	0	0	0	50	1	345387	1	1	
FDX1L	1802015	191	21	9114	2856	0	0	0	0	50	2	507017	1	1	
FDXACB1	437513	221	22	31108	8645	0	0	0	0	50	1	366919	1	1	
FDXR	1027517	320	20	24514	7826	0	0	0	0	50	0	390796	1	1	
FECH	304947	352	38	22008	5922	0	0	0	0	50	0	328377	1	1	
FEM1A	798897	203	23	31822	10388	0	0	0	0	50	0	397040	1	1	
FEM1B	376557	437	37	30898	8792	0	0	0	0	50	1	373926	1	1	

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FEM1C	352735	498	23	30457	8561	0	0	0	0	50	0	568848	1	1	
FEN1	1239228	212	59	18697	5390	0	0	0	0	50	0	505092	1	1	
FER	140251	741	20	43176	10227	0	0	0	0	50	0	414407	1	1	
FER1L5	906473	234	41	108059	28231	0	0	0	0	50	0	597667	1	1	
FER1L6	453048	561	15	95431	24983	0	0	0	0	50	0	392602	1	1	
FERD3L	103347	812	-15	8148	2457	0	0	0	0	50	0	460103	1	1	
FERMT1	302334	351	-16	34979	8911	0	0	0	0	50	1	395710	1	1	
FERMT2	309280	188	12	35973	8883	0	0	0	0	50	1	357777	1	1	
FERMT3	1602391	278	57	33600	9660	0	0	0	0	50	0	410249	1	1	
FES	833957	291	42	41405	11956	0	0	0	0	50	0	426916	1	1	
FETUB	508316	436	45	19061	5614	0	0	0	0	50	1	550095	1	1	
FEV	922162	386	35	11571	3654	0	0	0	0	50	0	365666	1	1	
FEZ1	363322	629	21	20482	5075	0	0	0	0	50	0	371861	1	1	
FEZ2	451487	318	-3	19691	5026	0	0	0	0	50	0	415716	1	1	
FEZF1	61242	1007	-15	23443	6839	0	0	0	0	50	1	436779	1	1	
FEZF2	213716	935	-3	22421	6895	0	0	0	0	50	0	422870	1	1	
FFAR1	767113	472	9	13727	5320	0	0	0	0	50	0	335783	1	1	
FFAR2	827597	367	29	15603	5250	0	0	0	0	50	0	378784	1	1	
FFAR3	767113	472	9	16555	5390	0	0	0	0	50	0	335783	1	1	
FGA	59962	1036	-4	43694	12271	0	0	0	0	50	0	348124	1	1	
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FGD1	299313	NaN	18	47579	14455	0	0	0	0	50	0	416549	1	1	
FGD2	832054	220	41	33131	9457	0	0	0	0	50	0	434042	1	1	
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FGD4	357808	378	-9	39438	10143	0	0	0	0	50	0	424620	1	1	
FGD5	489640	490	39	72660	21105	0	0	0	0	50	1	448945	1	1	
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FGF10	107231	886	-39	10542	2793	0	0	0	0	50	0	326886	1	1	
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FGF12	34070	937	0	12628	3395	0	0	0	0	50	0	432684	1	1	
FGF13	14292	NaN	-5	16856	4333	0	0	0	0	50	0	373891	1	1	
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FGF16	547612	NaN	-7	5775	1638	0	0	0	0	50	1	392462	1	1	
FGF17	584373	219	34	11011	3038	0	0	0	0	50	0	419412	1	1	
FGF18	300840	347	30	10486	2954	0	0	0	0	50	3	395003	1	1	
FGF19	465152	561	38	10570	3269	0	0	0	0	50	0	396991	1	1	
FGF2	139927	184	18	13552	4865	0	0	0	0	50	0	375417	1	1	
FGF20	176882	719	-38	10374	3150	0	0	0	0	50	0	485653	1	1	
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FGF22	1832767	218	10	8043	2877	0	0	0	0	29	0	334362	1	1	
FGF23	295315	860	33	12341	3703	0	0	0	0	50	0	336952	1	1	
FGF3	783792	561	37	11389	3899	0	0	0	0	50	0	364035	1	1	
FGF4	465152	561	38	9856	3353	0	0	0	0	50	0	396991	1	1	
FGF5	61128	903	-3	13356	3759	0	0	0	0	50	0	386029	1	1	
FGF6	291341	908	23	10150	3269	0	0	0	0	50	0	408170	1	1	
FGF7	273513	370	-7	9989	2464	0	0	0	0	50	0	395388	1	1	
FGF8	817474	335	37	12243	3612	0	0	0	0	50	0	397292	1	1	
FGF9	298481	648	37	10395	2940	0	0	0	0	50	0	345611	1	1	
FGFBP1	175145	435	33	11634	3255	0	0	0	0	50	0	480571	1	1	

FGFBP2	175145	435	33	10969	3227	0	0	0	0	50	0	480571	1	1	
FGFBP3	355265	331	24	12124	4277	0	0	0	0	50	0	424956	1	1	
FGFR1	841062	381	47	48097	13769	0	0	0	0	50	1	539903	1	1	
FGFR1OP	169081	639	35	20741	5509	0	0	0	0	50	0	366044	1	1	
FGFR1OP2	408842	320	24	13412	3241	0	0	0	0	50	0	441623	1	1	
FGFR2	204200	386	-9	45941	12481	0	0	0	0	50	0	430017	1	1	
FGFR3	859388	222	42	42378	13104	0	0	0	0	50	0	440741	1	1	
FGFR4	1070874	201	46	40509	12978	0	0	0	0	50	1	450149	1	1	
FGFRL1	689217	247	58	24374	7987	0	0	0	0	50	0	401219	1	1	
FGG	59962	1036	-4	23898	5733	0	0	0	0	50	0	348124	1	1	
FGGY	60575	728	4	29519	8113	0	0	0	0	50	1	485156	1	1	
FGL1	399891	253	-16	16555	3752	0	0	0	0	50	2	399560	1	1	
FGL2	312362	639	30	22169	5677	0	0	0	0	50	0	433104	1	1	
FGR	732210	217	24	26943	7371	0	0	0	0	50	0	519526	1	1	
FH	171676	533	-20	25641	7350	0	0	0	0	50	1	564249	1	1	
FHAD1	NaN	NaN	NaN	73451	18088	0	0	0	0	50	2	797636	1	1	
FHDC1	227983	342	25	55741	17213	0	0	0	0	50	1	398335	1	1	
FHIT	36866	1126	5	7756	2072	0	0	0	0	50	1	386316	1	1	
FHL1	248739	NaN	23	20279	4543	0	0	0	0	50	0	442169	1	1	
FHL2	198241	215	13	14714	3346	0	0	0	0	50	0	361662	1	1	
FHL3	445132	232	42	14399	3724	0	0	0	0	50	1	352450	1	1	
FHL5	116593	1376	3	15085	3290	0	0	0	0	50	1	441084	1	1	
FHOD1	1109491	150	46	56658	18501	0	0	0	0	50	0	375074	1	1	
FHOD3	336896	728	61	72205	20573	0	0	0	0	50	0	365575	1	1	
FIBCD1	764789	241	29	22596	7098	0	0	0	0	50	0	473522	1	1	
FIBIN	176115	648	-17	10374	2982	0	0	0	0	50	0	502593	1	1	
FIBP	3779084	287	42	18648	5103	0	0	0	0	50	1	388185	1	1	
FICD	437636	399	40	22323	6762	0	0	0	0	50	1	480235	1	1	
FIG4	335902	637	29	46991	12061	0	0	0	0	50	0	453033	1	1	
FIGF	200632	NaN	40	18291	4578	0	0	0	0	50	1	397572	1	1	
FIGLA	596622	629	24	11004	3276	0	0	0	0	50	0	330876	1	1	
FIGN	20376	586	-11	36771	11193	0	0	0	0	50	2	465864	1	1	
FIGNL1	177267	585	25	33159	9450	0	0	0	0	50	0	405748	1	1	
FIGNL2	570716	438	22	29841	11403	0	0	0	0	50	0	380674	1	1	
FILIP1	441614	325	19	60333	16569	0	0	0	0	50	0	369369	1	1	
FILIP1L	267848	573	10	57470	14959	0	0	0	0	50	0	396074	1	1	
FIP1L1	120581	470	32	31339	8225	0	0	0	0	50	1	477379	1	1	
FIS1	1022626	258	39	7819	2198	0	0	0	0	50	0	387464	1	1	
FITM1	974559	220	41	13783	4844	0	0	0	0	50	2	483035	1	1	
FITM2	813168	376	10	12901	3836	0	0	0	0	50	0	315406	1	1	
FIZ1	1077402	254	-10	23324	8155	0	0	0	0	50	0	335076	1	1	
FJX1	629751	396	-15	20097	7497	0	0	0	0	50	0	389200	1	1	
FKBP10	1760409	175	35	28854	8631	0	0	0	0	50	1	412223	1	1	
FKBP11	1737773	214	55	11004	3339	0	0	0	0	50	0	365197	1	1	
FKBP14	661477	560	23	10941	2667	0	0	0	0	50	0	511182	1	1	
FKBP15	448462	456	9	61887	17241	0	0	0	0	50	0	383614	1	1	
FKBP1A	394062	427	40	5677	1526	0	0	0	0	50	1	513016	1	1	
FKBP1B	243145	226	33	6363	1701	0	0	0	0	50	0	355481	1	1	
FKBP2	1613996	257	65	7301	2128	0	0	0	0	19	0	126756	1	1	
FKBP3	234268	565	11	11802	2919	0	0	0	0	50	0	413546	1	1	

FKBP4	495532	443	28	23555	6181	0	0	0	0	50	0	427791	1	1	
FKBP5	668286	238	27	25102	5768	0	0	0	0	50	0	454055	1	1	
FKBP6	902769	422	52	17339	4921	0	0	0	0	50	1	466893	1	1	
FKBP7	170323	555	37	11536	2765	0	0	0	0	50	1	359611	1	1	
FKBP8	1394856	259	48	20419	6335	0	0	0	0	50	1	513947	1	1	
FKBP9	375055	235	13	28553	8176	0	0	0	0	50	1	487109	1	1	
FKBPL	2170336	224	32	16807	5369	0	0	0	0	50	0	498204	1	1	
FKRP	1166804	224	36	22967	8365	0	0	0	0	50	1	371315	1	1	
FKSG83	161388	645	24	9541	2429	0	0	0	0	50	0	407379	1	1	
FKTN	215248	637	-5	23884	5978	0	0	0	0	50	0	487396	1	1	
FLAD1	1612870	224	35	30863	9667	0	0	0	0	50	0	363538	1	1	
FLCN	910162	218	11	31773	8967	0	0	0	0	50	0	427553	1	1	
FLG2	387153	671	6	115759	35105	0	0	0	0	50	0	352156	1	1	
FLI1	187976	647	20	23212	5999	0	0	0	0	50	0	333858	1	1	
FLII	925111	223	18	64652	17836	0	0	0	0	50	1	395185	1	1	
FLJ10357	937278	320	20	73108	24626	0	0	0	0	50	0	382935	1	1	
FLJ25363	NaN	NaN	NaN	5061	1344	0	0	0	0	31	2	344827	1	1	
FLJ35220	748790	222	29	15652	4865	0	0	0	0	50	0	411782	1	1	
FLJ36031	276499	628	22	10892	3976	0	0	0	0	50	0	340564	1	1	
FLJ37543	166738	437	-1	6706	1799	0	0	0	0	50	0	456351	1	1	
FLJ43859	NaN	NaN	NaN	44723	13405	0	0	0	0	50	2	792953	1	1	
FLJ43860	153254	382	38	66850	18725	0	0	0	0	50	0	422632	1	1	
FLJ44082	NaN	NaN	NaN	44723	13405	0	0	0	0	50	2	792953	1	1	
FLJ44606	NaN	NaN	NaN	10206	2562	0	0	0	0	50	2	782110	1	1	
FLJ44635	582710	NaN	53	7238	1729	0	0	0	0	50	1	368186	1	1	
FLJ46321	37702	928	-45	76923	22764	0	0	0	0	50	0	348208	1	1	
FLNA	2356905	NaN	27	131516	39172	0	0	0	0	50	0	574770	1	1	
FLNB	760236	182	43	131768	38038	0	0	0	0	11	1	175483	1	1	
FLNC	830283	310	35	134995	40691	0	0	0	0	33	0	319515	1	1	
FLOT1	2157341	147	43	21854	6118	0	0	0	0	50	0	370853	1	1	
FLOT2	1834230	220	37	21700	6167	0	0	0	0	50	0	467439	1	1	
FLRT1	NaN	NaN	NaN	31990	10619	0	0	0	0	50	2	790167	1	1	
FLRT2	18925	671	-45	31969	9674	0	0	0	0	50	1	555471	1	1	
FLRT3	NaN	NaN	NaN	31710	9324	0	0	0	0	50	2	788872	1	1	
FLT1	198131	693	41	72954	19236	0	0	0	0	50	0	392469	1	1	
FLT3	346092	614	42	51674	12922	0	0	0	0	50	0	377125	1	1	
FLT3LG	2173457	290	44	11711	3829	0	0	0	0	50	0	390320	1	1	
FLT4	855370	515	13	68978	19558	0	0	0	0	50	1	375893	1	1	
FLVCR1	326908	445	13	27286	8498	0	0	0	0	50	0	361564	1	1	
FLVCR2	656924	248	50	26159	7798	0	0	0	0	50	1	448112	1	1	
FLYWCH1	1490697	189	48	34867	10997	0	0	0	0	50	0	424550	1	1	
FLYWCH2	1537882	210	47	6867	2184	0	0	0	0	50	0	401779	1	1	
FMN1	238197	520	5	60060	16695	0	0	0	0	50	0	391237	1	1	
FMN2	55160	851	-26	82698	27279	0	0	0	0	50	0	429527	1	1	
FMNL1	798310	207	28	55293	16254	0	0	0	0	50	0	484246	1	1	
FMNL2	289066	611	8	56154	14805	0	0	0	0	50	1	476217	1	1	
FMNL3	1919377	265	60	52255	14609	0	0	0	0	50	0	439670	1	1	
FMO1	427825	968	-4	26936	7315	0	0	0	0	50	0	436548	1	1	
FMO2	440278	1004	-6	24157	6251	0	0	0	0	50	0	457408	1	1	
FMO3	395042	1004	-11	27174	7077	0	0	0	0	50	0	420546	1	1	

FMO4	421557	891	-1	28385	7504	0	0	0	0	50	0	431424	1	1	
FMO5	NaN	NaN	NaN	29589	7686	0	0	0	0	50	2	787234	1	1	
FMOD	552574	325	40	18424	5495	0	0	0	0	50	0	349405	1	1	
FMR1	96476	NaN	-6	34258	6965	0	0	0	0	50	0	449120	1	1	
FMR1NB	96935	NaN	-13	13244	3346	0	0	0	0	50	0	420140	1	1	
FN1	585272	533	13	125286	35259	0	0	0	0	50	0	395941	1	1	
FN3K	783773	243	18	15533	4459	0	0	0	0	50	0	373989	1	1	
FN3KRP	855855	243	21	15680	4312	0	0	0	0	50	1	351316	1	1	
FNBP1	559377	228	38	32669	7609	0	0	0	0	50	0	423549	1	1	
FNBP1L	621313	224	2	32424	7476	0	0	0	0	50	0	403193	1	1	
FNBP4	979103	158	19	50932	14546	0	0	0	0	50	0	362215	1	1	
FNDC1	805575	596	23	91679	29554	0	0	0	0	50	0	537600	1	1	
FNDC3A	321392	424	47	61327	16541	0	0	0	0	50	2	522179	1	1	
FNDC3B	327135	466	25	61152	16863	0	0	0	0	50	0	465563	1	1	
FNDC4	1193266	306	39	11683	3626	0	0	0	0	50	0	451192	1	1	
FNDC5	1019374	232	15	8323	2156	0	0	0	0	50	1	415233	1	1	
FNDC7	743461	225	9	36743	10507	0	0	0	0	50	0	474257	1	1	
FNDC8	516190	504	23	16121	4648	0	0	0	0	50	0	423276	1	1	
FNIP1	346839	637	27	59570	15379	0	0	0	0	50	0	479906	1	1	
FNIP2	171083	428	10	56028	15561	0	0	0	0	50	0	398762	1	1	
FNTA	304258	559	12	19831	4823	0	0	0	0	50	0	417193	1	1	
FNTB	501431	387	39	22351	6167	0	0	0	0	50	0	469819	1	1	
FOLH1	11046	1009	-19	38640	10185	0	0	0	0	50	0	420609	1	1	
FOLH1B	116674	1062	-16	23058	5859	0	0	0	0	50	0	491421	1	1	
FOLR1	744547	182	58	13321	3311	0	0	0	0	50	1	370783	1	1	
FOLR2	744547	182	58	13321	3227	0	0	0	0	50	1	370783	1	1	
FOLR3	715293	267	62	12719	3115	0	0	0	0	50	0	355775	1	1	
FOLR4	424538	765	-12	12383	3220	0	0	0	0	50	0	350203	1	1	
FOS	855880	154	51	18424	5831	0	0	0	0	50	2	431095	1	1	
FOSB	1259254	191	39	16226	5383	0	0	0	0	50	0	428813	1	1	
FOSL1	3779084	287	42	13153	4235	0	0	0	0	50	1	388185	1	1	
FOSL2	465927	197	30	15757	5096	0	0	0	0	50	0	429282	1	1	
FOXA1	67481	487	-58	22792	7091	0	0	0	0	50	1	342923	1	1	
FOXA2	49625	627	-66	22582	6734	0	0	0	0	50	1	412195	1	1	
FOXA3	883734	203	39	16625	5572	0	0	0	0	50	1	387730	1	1	
FOXB1	573015	427	14	15645	5019	0	0	0	0	50	0	393519	1	1	
FOXB2	180535	713	-10	20447	6832	0	0	0	0	50	0	566867	1	1	
FOXC1	145123	487	20	26320	8582	0	0	0	0	50	0	412202	1	1	
FOXC2	47545	445	10	24038	7672	0	0	0	0	50	0	437192	1	1	
FOXD1	476449	473	34	21224	8071	0	0	0	0	50	0	422625	1	1	
FOXD2	190214	478	16	22687	8561	0	0	0	0	50	0	366366	1	1	
FOXD3	146780	565	-4	22246	7931	0	0	0	0	50	1	426475	1	1	
FOXD4	230380	398	-4	20559	7161	0	0	0	0	50	0	412188	1	1	
FOXD4L1	528113	595	15	19103	6664	0	0	0	0	50	0	389417	1	1	
FOXD4L2	NaN	NaN	NaN	39340	13202	0	0	0	0	50	2	792750	1	1	
FOXD4L3	118303	887	1	19733	6643	0	0	0	0	50	1	399084	1	1	
FOXD4L4	0	1096	-26	39340	13202	0	0	0	0	50	0	550144	1	1	
FOXD4L5	NaN	NaN	NaN	19684	6587	0	0	0	0	50	2	786135	1	1	
FOXD4L6	NaN	NaN	NaN	19698	6636	0	0	0	0	50	2	786184	1	1	
FOXE1	468629	276	38	17276	6286	0	0	0	0	50	0	386806	1	1	

FOXE3	193133	347	8	14525	5635	0	0	0	0	50	0	394184	1	1	
FOXF1	70370	416	3	18312	5754	0	0	0	0	50	1	340823	1	1	
FOXF2	114944	481	14	21280	6839	0	0	0	0	50	0	399840	1	1	
FOXG1	52980	1173	-46	23436	7434	0	0	0	0	50	0	429485	1	1	
FOXH1	1899637	200	22	17283	5943	0	0	0	0	50	2	480676	1	1	
FOXI1	94287	650	24	18578	5425	0	0	0	0	50	0	406854	1	1	
FOXI2	447201	806	-35	15015	5166	0	0	0	0	50	2	343707	1	1	
FOXI3	NaN	NaN	NaN	19600	6986	0	0	0	0	50	2	786534	1	1	
FOXJ1	1796815	218	28	20006	6664	0	0	0	0	50	1	429758	1	1	
FOXJ2	139049	167	22	28910	8155	0	0	0	0	50	0	424382	1	1	
FOXJ3	541904	579	23	32018	8239	0	0	0	0	50	0	374108	1	1	
FOXK1	436950	446	18	34713	12243	0	0	0	0	50	1	341145	1	1	
FOXK2	2114072	155	26	31759	10556	0	0	0	0	50	1	488698	1	1	
FOXL1	47545	445	10	16219	5579	0	0	0	0	50	0	437192	1	1	
FOXL2	345888	340	21	17731	6020	0	0	0	0	50	0	425803	1	1	
FOXM1	495532	443	28	39410	11872	0	0	0	0	50	0	427791	1	1	
FOXN1	1517567	225	24	31493	10024	0	0	0	0	50	0	346136	1	1	
FOXN2	254318	752	23	21805	5831	0	0	0	0	50	0	498309	1	1	
FOXN3	111760	684	20	24752	6685	0	0	0	0	50	0	412454	1	1	
FOXN4	438714	519	35	25550	7840	0	0	0	0	50	0	389690	1	1	
FOXO1	237876	449	55	32018	9478	0	0	0	0	50	0	452949	1	1	
FOXO3	346225	428	34	32494	10136	0	0	0	0	50	2	423983	1	1	
FOXO4	759088	NaN	27	24171	7875	0	0	0	0	50	0	509495	1	1	
FOXP1	99202	675	-1	37667	9940	0	0	0	0	50	0	405657	1	1	
FOXP2	42204	828	-13	39858	10101	0	0	0	0	50	2	553028	1	1	
FOXP3	547555	NaN	25	21609	6531	0	0	0	0	50	3	404873	1	1	
FOXQ1	114944	481	14	18550	6902	0	0	0	0	50	0	399840	1	1	
FOXR1	1457410	180	55	14798	4123	0	0	0	0	50	0	368228	1	1	
FOXR2	89607	NaN	10	15687	3969	0	0	0	0	50	0	414736	1	1	
FOXRED1	385871	426	29	24346	7217	0	0	0	0	50	0	449155	1	1	
FOXRED2	1191841	195	30	33600	10206	0	0	0	0	50	1	368725	1	1	
FOXS1	1015946	241	37	15631	5264	0	0	0	0	50	0	337841	1	1	
FPGS	1194942	179	58	29141	9121	0	0	0	0	50	0	477190	1	1	
FPGT	NaN	NaN	NaN	29820	8043	0	0	0	0	50	2	787591	1	1	
FPR1	436280	690	-24	16807	5390	0	0	0	0	50	0	325801	1	1	
FPR2	436280	690	-24	16856	5404	0	0	0	0	50	0	325801	1	1	
FPR3	435870	690	-35	17262	5124	0	0	0	0	50	0	404117	1	1	
FRA10AC1	471978	399	17	17535	3423	0	0	0	0	50	1	393596	1	1	
FRAS1	244829	726	0	205219	55307	0	0	0	0	50	0	492310	1	1	
FRAT1	903121	397	31	12649	4991	0	0	0	0	50	0	327523	1	1	
FRAT2	903121	397	31	10598	4144	0	0	0	0	50	0	327523	1	1	
FREM1	254826	882	-17	110999	30373	0	0	0	0	50	0	428568	1	1	
FREM2	173964	1042	-10	155337	46305	0	0	0	0	46	0	433909	1	1	
FREM3	NaN	NaN	NaN	104188	31220	0	0	0	0	50	2	810768	1	1	
FRG1	49764	1059	-15	13888	3143	0	0	0	0	50	1	513751	1	1	
FRG2	59973	1059	-12	14000	3871	0	0	0	0	50	2	500129	1	1	
FRG2B	50016	525	-16	13958	3892	0	0	1	0	8	1	56420	1	1	
FRG2C	NaN	NaN	NaN	14140	3983	0	0	0	0	50	2	783531	1	1	
FRK	230837	693	-4	25788	6678	0	0	0	0	50	0	396144	1	1	
FRMD1	142012	702	-17	27853	7910	0	0	0	0	50	0	562226	1	1	

FRMD3	494570	610	-26	30905	7861	0	0	0	0	50	0	349811	1	1	
FRMD4A	212541	732	24	52696	14840	0	0	0	0	50	0	938910	1	1	
FRMD4B	222480	432	12	53067	13986	0	0	0	0	50	0	483098	1	1	
FRMD5	929260	504	33	29155	7910	0	0	0	0	50	0	342083	1	1	
FRMD6	238905	442	22	31717	8036	0	0	0	0	50	0	410116	1	1	
FRMD7	151115	NaN	25	36526	9443	0	0	0	0	50	0	330610	1	1	
FRMD8	4112809	242	50	22967	7126	0	0	0	0	50	1	406875	1	1	
FRMPD1	498002	434	27	77833	22904	0	0	0	0	50	0	447958	1	1	
FRMPD2	112127	451	35	66185	18697	0	0	0	0	50	0	444220	1	1	
FRMPD4	191024	NaN	22	65891	18802	0	0	0	0	50	0	898100	1	1	
FRRS1	276548	540	-5	32312	8407	0	0	0	0	50	0	391867	1	1	
FRS2	540769	350	7	25347	7140	0	0	0	0	50	0	438011	1	1	
FRS3	429684	341	47	24003	7476	0	0	0	0	50	0	385560	1	1	
FRY	221552	488	40	153097	41825	0	0	0	0	50	1	407456	1	1	
FRYL	287083	428	52	154161	40845	0	0	0	0	29	0	287329	1	1	
FRZB	330424	450	6	16331	4627	0	0	0	0	50	0	347039	1	1	
FSCB	131880	932	-58	39452	12586	0	0	0	0	50	0	356006	1	1	
FSCN1	1965381	192	56	24255	7203	0	0	0	0	50	0	416654	1	1	
FSCN2	3623687	204	19	22428	7140	0	0	0	0	50	1	345828	1	1	
FSCN3	411207	619	-7	24808	7091	0	0	0	0	50	0	295897	1	1	
FSD1	2122615	220	27	25361	6958	0	0	0	0	50	1	469105	1	1	
FSD1L	NaN	NaN	NaN	29386	7112	0	0	0	0	50	2	786660	1	1	
FSD2	490130	631	17	38409	9891	0	0	0	0	50	0	373786	1	1	
FSHB	28139	1007	-29	6706	1652	0	0	0	0	33	0	218834	1	1	
FSHR	59778	1096	-9	34979	9625	0	0	0	0	50	2	520891	1	1	
FSIP1	516737	433	0	30310	7280	0	0	0	0	50	0	370559	1	1	
FST	202521	488	-5	17759	4564	0	0	0	0	50	0	362117	1	1	
FSTL1	382340	375	23	16359	3906	0	0	0	0	50	0	406875	1	1	
FSTL3	1832767	218	10	13048	3962	0	0	0	0	29	0	334362	1	1	
FSTL4	599945	623	42	42203	12166	0	0	0	0	50	3	435197	1	1	
FSTL5	9944	1215	-23	43666	11018	0	0	0	0	50	0	406189	1	1	
FTCD	742075	538	10	26782	8582	0	0	0	0	50	1	417585	1	1	
FTH1	2389859	185	53	9499	2345	0	0	0	0	50	0	382746	1	1	
FTHL17	77068	NaN	8	9051	2583	0	0	0	0	50	0	521626	1	1	
FTL	1927185	211	43	8897	2443	0	0	0	0	50	1	404320	1	1	
FTMT	70878	920	-16	11746	3605	0	0	0	0	50	0	402157	1	1	
FTO	215906	604	-13	25816	6734	0	0	0	0	50	0	353304	1	1	
FTSJ1	726793	NaN	2	17087	4753	0	0	0	0	50	0	443898	1	1	
FTSJ2	814176	430	38	12222	3717	0	0	0	0	50	0	345289	1	1	
FTSJ3	1353057	346	20	43400	11704	0	0	0	0	50	0	505785	1	1	
FTSJD1	420704	736	3	38577	10080	0	0	0	0	50	0	385994	1	1	
FTSJD2	498007	434	43	43365	11235	0	0	0	0	50	1	489727	1	1	
FUBP1	373296	256	1	32998	9275	0	0	0	0	50	1	501515	1	1	
FUBP3	529622	192	35	29638	7973	0	0	0	0	50	0	367941	1	1	
FUCA1	903441	254	32	23562	6489	0	0	0	0	50	2	357042	1	1	
FUCA2	338098	401	20	23639	6391	0	0	0	0	50	0	489195	1	1	
FUK	930873	125	44	53074	17213	0	0	0	0	41	1	430822	1	1	
FUNDC1	91432	NaN	20	8043	2121	0	0	0	0	50	0	471947	1	1	
FUNDC2	NaN	NaN	NaN	9541	2765	0	0	0	0	50	2	782313	1	1	
FURIN	833957	291	42	39354	11907	0	0	0	0	50	0	426916	1	1	

FUS	1250318	351	26	27104	7273	0	0	0	0	50	0	432887	1	1	
FUT1	1635420	190	44	17514	5628	0	0	0	0	50	0	414344	1	1	
FUT10	96386	500	5	24017	6475	0	0	0	0	50	1	375081	1	1	
FUT11	1009357	191	42	23912	7357	0	0	0	0	50	2	482986	1	1	
FUT2	1616265	190	38	16667	5089	0	0	0	0	50	0	383614	1	1	
FUT3	1217326	294	35	17500	5390	0	0	0	0	50	2	357665	1	1	
FUT4	341083	589	-7	24836	8617	0	0	0	0	50	0	301147	1	1	
FUT5	1217326	294	35	18165	5544	0	0	0	0	50	2	357665	1	1	
FUT6	1217326	294	35	17542	5222	0	0	0	0	50	2	357665	1	1	
FUT7	1951939	202	40	16289	5488	0	0	0	0	50	0	420637	1	1	
FUT8	412062	875	38	31024	8057	0	0	0	0	50	1	304052	1	1	
FUT9	76115	1328	-21	18102	4662	0	0	0	0	50	0	398944	1	1	
FUZ	1673246	205	37	20335	6944	0	0	0	0	50	0	414190	1	1	
FXC1	425139	491	23	5236	1526	0	0	0	0	0	0	1526	1	1	
FXN	196497	491	27	11683	2870	0	0	0	0	50	0	423185	1	1	
FXR1	182655	1058	-2	32165	8365	0	0	0	0	50	0	331779	1	1	
FXR2	2013497	194	29	32165	9583	0	0	0	0	50	0	411075	1	1	
FXYD1	745516	357	-9	5187	1260	0	0	0	0	50	0	351120	1	1	
FXYD2	516252	624	54	8827	2492	0	0	0	0	50	0	261387	1	1	
FXYD3	745516	357	-9	10521	2835	0	0	0	0	50	0	351120	1	1	
FXYD4	388267	387	-2	5047	1211	0	0	0	0	50	0	373317	1	1	
FXYD5	745516	357	-9	9240	2667	0	0	0	0	50	0	351120	1	1	
FXYD6	473498	601	41	5376	1260	0	0	0	0	50	2	465689	1	1	
FXYD7	745516	357	-9	4431	1134	0	0	0	0	50	0	351120	1	1	
FYB	171734	367	-6	42588	11214	0	0	0	0	50	0	402528	1	1	
FYCO1	224232	519	54	73962	20559	0	0	0	0	50	0	349363	1	1	
FYN	245639	317	21	30121	8057	0	0	0	0	50	0	400911	1	1	
FYTTD1	517022	210	47	16702	4634	0	0	0	0	50	0	360192	1	1	
FZD1	64493	946	-2	30940	9884	0	0	0	0	50	0	425012	1	1	
FZD10	59974	465	-39	28301	8365	0	0	0	0	50	0	407953	1	1	
FZD2	1261037	254	16	27055	8603	0	0	0	0	33	0	320747	1	1	
FZD3	306800	256	45	33292	9149	0	0	0	0	50	0	414092	1	1	
FZD4	195696	281	-12	26320	7658	0	0	0	0	50	0	477029	1	1	
FZD6	428438	615	23	35315	9730	0	0	0	0	50	0	317562	1	1	
FZD7	363643	441	36	27419	8848	0	0	0	0	50	2	388143	1	1	
FZD8	144247	708	-26	32718	11109	0	0	0	0	50	1	426986	1	1	
FZD9	904644	399	48	27972	9324	0	0	0	0	50	1	486710	1	1	
FZR1	2160126	269	39	24962	7441	0	0	0	0	50	0	428631	1	1	
G0S2	218767	300	12	4998	1638	0	0	0	0	50	0	355607	1	1	
G2E3	354135	695	-10	36841	8876	0	0	0	0	50	0	416752	1	1	
G3BP2	485383	451	31	24605	6748	0	0	0	0	50	0	439551	1	1	
G6PC	1629499	190	23	17878	5054	0	0	0	0	50	0	466459	1	1	
G6PC2	173915	724	7	18039	4767	0	0	0	0	50	0	466172	1	1	
G6PC3	916863	198	23	16996	5285	0	0	0	0	50	0	350511	1	1	
G6PD	2163759	NaN	42	27748	7658	0	0	0	0	50	0	434609	1	1	
GAA	663665	237	27	47187	14448	0	0	0	0	50	0	460614	1	1	
GAB1	183119	699	18	36449	10066	0	0	0	0	50	0	364980	1	1	
GAB2	404872	408	19	33803	9646	0	0	0	0	50	1	379379	1	1	
GAB3	1737597	NaN	10	29540	8302	0	0	0	0	27	0	252238	1	1	
GAB4	156217	639	-95	28763	8218	0	0	0	0	50	0	406455	1	1	

GABARAP	1782958	316	21	6153	1533	0	0	0	0	50	1	326809	1	1	
GABARAPL1	397577	398	18	6230	1456	0	0	0	0	50	1	421092	1	1	
GABARAPL2	449343	354	18	6209	1477	0	0	0	0	50	0	419419	1	1	
GABBR1	443970	755	26	50512	14903	0	0	0	0	50	1	404810	1	1	
GABBR2	398895	584	32	47320	13538	0	0	0	0	50	1	431886	1	1	
GABPA	534601	728	31	23366	6055	0	0	0	0	50	2	284361	1	1	
GABPB1	314083	161	5	20601	5943	0	0	0	0	50	1	407393	1	1	
GABPB2	1614665	165	40	22323	6594	0	0	0	0	50	0	400533	1	1	
GABRA1	12179	927	-16	23184	6363	0	0	0	0	50	1	398811	1	1	
GABRA2	69760	992	3	23135	6097	0	0	0	0	50	2	418978	1	1	
GABRA3	237855	NaN	-32	24857	6958	0	0	0	0	50	2	411320	1	1	
GABRA4	104768	839	15	27804	7833	0	0	0	0	50	0	374514	1	1	
GABRA5	22005	1346	-56	23576	6349	0	0	0	0	50	1	520597	1	1	
GABRA6	12083	986	-6	22967	6307	0	0	0	0	50	0	365981	1	1	
GABRB1	106512	689	24	24038	6559	0	0	0	0	35	0	280763	1	1	
GABRB2	11638	1049	7	26026	7049	0	0	0	0	50	1	509908	1	1	
GABRB3	21132	1430	-54	25186	7112	0	0	0	0	50	1	552356	1	1	
GABRD	1252791	279	38	22526	6727	0	0	0	0	50	1	436058	1	1	
GABRE	127993	NaN	-10	25655	7000	0	0	0	0	50	0	517993	1	1	
GABRG1	36353	926	-2	23842	6188	0	0	0	0	50	0	428442	1	1	
GABRG2	8332	869	-14	26383	6965	0	0	0	0	50	2	587510	1	1	
GABRG3	20652	1307	-54	23912	6328	0	0	0	0	50	1	527954	1	1	
GABRP	216977	618	19	22575	5964	0	0	0	0	50	0	317779	1	1	
GABRQ	203033	NaN	-1	31864	8771	0	0	0	0	50	0	468783	1	1	
GABRR1	398929	446	29	24647	6349	0	0	0	0	50	0	498015	1	1	
GABRR2	415409	541	41	25053	6594	0	0	0	0	50	1	391769	1	1	
GABRR3	189744	702	0	24115	6020	0	0	0	0	50	0	448469	1	1	
GAD1	352183	519	31	31472	8176	0	0	0	0	50	0	535073	1	1	
GAD2	101835	680	-1	30555	7707	0	0	0	0	50	0	412811	1	1	
GADD45A	446714	228	-7	8365	2345	0	0	0	0	50	1	423059	1	1	
GADD45B	1604277	267	35	8155	2240	0	0	0	0	50	0	448427	1	1	
GADD45GIP1	1886809	335	40	10794	3423	0	0	0	0	50	0	357672	1	1	
GADL1	78546	487	-12	27391	6713	0	0	0	0	50	2	511182	1	1	
GAGE1	493560	NaN	3	7868	1897	0	0	0	0	50	0	430262	1	1	
GAGE10	547555	NaN	25	6202	1547	0	0	0	0	50	3	404873	1	1	
GAGE12B	NaN	NaN	NaN	19243	4445	0	0	0	0	50	2	783993	1	1	
GAGE12C	NaN	NaN	NaN	37268	8785	0	0	0	0	50	2	788333	1	1	
GAGE12D	NaN	NaN	NaN	38360	8911	0	0	0	0	50	2	788459	1	1	
GAGE12E	NaN	NaN	NaN	38360	8911	0	0	0	0	50	2	788459	1	1	
GAGE12F	NaN	NaN	NaN	17997	4347	0	0	0	0	50	2	783895	1	1	
GAGE12G	NaN	NaN	NaN	32004	7434	0	0	0	0	50	2	786982	1	1	
GAGE12H	NaN	NaN	NaN	25599	5922	0	0	0	0	50	2	785470	1	1	
GAGE12I	NaN	NaN	NaN	6384	1491	0	0	0	0	31	2	344974	1	1	
GAGE12J	547555	NaN	25	6314	1498	0	0	0	0	50	3	404873	1	1	
GAGE13	NaN	NaN	NaN	6342	1512	0	0	0	0	31	2	344995	1	1	
GAGE2A	NaN	NaN	NaN	25137	6069	0	0	0	0	50	2	785617	1	1	
GAGE2B	NaN	NaN	NaN	6209	1519	0	0	0	0	31	2	345002	1	1	
GAGE2C	NaN	NaN	NaN	25123	6062	0	0	0	0	50	2	785610	1	1	
GAGE2D	NaN	NaN	NaN	18872	4543	0	0	0	0	50	2	784091	1	1	
GAGE2E	NaN	NaN	NaN	20664	5061	0	0	0	0	50	2	784609	1	1	

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GAGE4	NaN	NaN	NaN	6384	1491	0	0	0	0	31	2	344974	1	1	
GAGE5	NaN	NaN	NaN	6384	1491	0	0	0	0	31	2	344974	1	1	
GAGE6	NaN	NaN	NaN	12761	2989	0	0	0	0	50	2	782537	1	1	
GAGE7	NaN	NaN	NaN	6384	1491	0	0	0	0	31	2	344974	1	1	
GAGE8	541043	NaN	12	20706	5061	0	0	0	0	50	0	464625	1	1	
GAK	679769	256	41	65667	19257	0	0	0	0	50	1	494732	1	1	
GAL	780720	354	49	6328	1862	0	0	0	0	50	1	421652	1	1	
GAL3ST1	653792	330	28	20538	6342	0	0	0	0	50	2	411670	1	1	
GAL3ST2	598219	487	29	19082	6307	0	0	0	0	50	2	520702	1	1	
GAL3ST3	3581017	208	47	20356	6944	0	0	0	0	50	1	385700	1	1	
GAL3ST4	1299015	205	52	23100	7749	0	0	0	0	50	1	409815	1	1	
GALC	83365	976	-37	36253	9632	0	0	0	0	50	0	483294	1	1	
GALE	903441	254	32	17759	5068	0	0	0	0	50	2	357042	1	1	
GALK1	1885370	198	27	19103	6286	0	0	0	0	50	3	425740	1	1	
GALK2	315919	528	8	23723	6454	0	0	0	0	50	0	431095	1	1	
GALM	860461	176	27	17115	4998	0	0	0	0	50	0	413742	1	1	
GALNS	836710	188	44	26572	7511	0	0	0	0	50	0	375508	1	1	
GALNT1	486812	562	61	28840	7322	0	0	0	0	50	1	267897	1	1	
GALNT10	557034	451	31	30555	8421	0	0	0	0	50	1	437703	1	1	
GALNT11	286605	586	15	30954	8337	0	0	0	0	50	1	527303	1	1	
GALNT12	221241	164	17	28959	8463	0	0	0	0	50	0	326221	1	1	
GALNT13	21842	1035	-13	28672	7259	0	0	0	0	50	2	429758	1	1	
GALNT14	94332	876	6	28434	7581	0	0	0	0	50	1	382907	1	1	
GALNT2	305688	439	16	29624	7714	0	0	0	0	50	1	391790	1	1	
GALNT3	104274	888	-1	32417	8281	0	0	0	0	50	0	424564	1	1	
GALNT4	NaN	NaN	NaN	28518	7959	0	0	0	0	50	2	787507	1	1	
GALNT5	78933	837	8	47313	12768	0	0	0	0	50	0	466872	1	1	
GALNT6	504747	239	33	31262	8764	0	0	0	0	50	0	375648	1	1	
GALNT7	249234	381	15	33747	8673	0	0	0	0	50	1	431452	1	1	
GALNT8	283327	862	24	32235	8841	0	0	0	0	50	0	481026	1	1	
GALNT9	838016	534	14	30016	8876	0	0	0	0	50	1	378434	1	1	
GALNTL1	909703	431	38	28539	7938	0	0	0	0	50	0	371448	1	1	
GALNTL2	221698	444	17	32095	8981	0	0	0	0	50	0	426328	1	1	
GALNTL4	715278	720	16	30737	8407	0	0	0	0	50	0	371301	1	1	
GALNTL5	309129	476	12	22841	5803	0	0	0	0	50	0	405867	1	1	
GALNTL6	5263	1023	-13	30919	7931	0	0	0	0	50	2	436268	1	1	
GALP	500375	480	-61	6335	1456	0	0	0	0	3	0	18893	1	1	
GALR1	90366	614	-14	16912	5306	0	0	0	0	50	0	480557	1	1	
GALR2	1611239	218	22	18158	6454	0	0	0	0	50	0	473452	1	1	
GALR3	1385064	203	66	16975	6440	0	0	0	0	50	0	364224	1	1	
GALT	731413	298	51	19376	5446	0	0	0	0	50	0	319746	1	1	
GAMT	2319333	196	35	15659	4774	0	0	0	0	50	0	427189	1	1	
GAN	316209	160	14	30401	8113	0	0	0	0	50	1	382375	1	1	
GANC	604999	342	37	47439	12138	0	0	0	0	50	0	424851	1	1	
GAP43	43284	622	-2	14161	4004	0	0	0	0	50	0	400932	1	1	
GAPDH	2764720	179	42	17010	4830	0	0	0	0	50	1	509985	1	1	
GAPDHS	1081638	390	41	20475	6132	0	0	0	0	50	1	357574	1	1	
GAPT	125347	446	5	7812	2142	0	0	0	0	50	1	325318	1	1	
GAPVD1	954577	218	46	75390	20538	0	0	0	0	50	1	506023	1	1	
GAR1	212757	462	28	10948	3290	0	0	0	0	50	0	355845	1	1	

GARNL3	673881	270	47	51968	14182	0	0	0	0	50	2	452886	1	1	
GART	896855	182	65	50953	14630	0	0	0	0	50	1	350042	1	1	
GAS1	129795	431	10	16156	5642	0	0	0	0	50	0	418159	1	1	
GAS2	52076	981	1	16135	4277	0	0	0	0	50	1	376537	1	1	
GAS2L1	849693	251	36	32025	11424	0	0	0	0	50	1	424970	1	1	
GAS2L2	675201	196	3	42217	13748	0	0	0	0	50	0	403795	1	1	
GAS2L3	197479	849	-12	34405	10094	0	0	0	0	50	0	420175	1	1	
GAS6	716976	465	45	34034	9919	0	0	0	0	50	2	432873	1	1	
GAS7	91570	604	-30	25648	6629	0	0	0	0	50	0	486591	1	1	
GAS8	939646	221	31	24619	6398	0	0	0	0	50	1	410991	1	1	
GAST	1617880	323	9	5138	1498	0	0	0	0	33	0	269717	1	1	
GATA1	823539	NaN	29	19677	6825	0	0	0	0	50	0	481992	1	1	
GATA2	937778	274	52	23345	7378	0	0	0	0	50	1	397390	1	1	
GATA3	182932	675	-2	21714	6657	0	0	0	0	50	0	414995	1	1	
GATA4	474662	360	27	21238	7091	0	0	0	0	50	0	389949	1	1	
GATA5	1190564	205	22	19187	6391	0	0	0	0	50	0	413448	1	1	
GATA6	230941	437	-1	28378	9674	0	0	0	0	50	0	429317	1	1	
GATAD1	708388	401	27	13405	3941	0	0	0	0	50	0	535612	1	1	
GATAD2A	899226	214	6	31024	9842	0	0	0	0	50	0	331310	1	1	
GATAD2B	1697153	161	36	29624	8617	0	0	0	0	50	1	447664	1	1	
GATC	1563159	216	45	6874	2093	0	0	0	0	50	0	437045	1	1	
GATM	465759	445	4	21602	5782	0	0	0	0	50	0	362362	1	1	
GATS	1382416	198	55	8134	2534	0	0	0	0	50	0	340991	1	1	
GATSL1	NaN	NaN	NaN	16667	4795	0	0	0	0	50	2	784343	1	1	
GATSL2	NaN	NaN	NaN	16667	4795	0	0	0	0	50	2	784343	1	1	
GATSL3	548674	211	43	16443	5019	0	0	0	0	50	2	391706	1	1	
GBA	1574928	194	45	27090	7749	0	0	0	0	50	0	408905	1	1	
GBA2	922448	190	48	46760	13048	0	0	0	0	50	2	430472	1	1	
GBA3	103435	746	22	23828	6160	0	0	0	0	40	0	366884	1	1	
GBAS	760564	642	11	15141	3738	0	0	0	0	50	0	453124	1	1	
GBE1	54244	720	0	36365	9184	0	0	0	0	50	0	387464	1	1	
GBF1	987676	141	41	93401	27055	0	0	0	0	23	0	237671	1	1	
GBGT1	1875784	397	51	17255	5089	0	0	0	0	50	0	361032	1	1	
GBP1	337373	745	2	30345	7854	0	0	0	0	50	0	464849	1	1	
GBP2	337373	745	2	30415	7721	0	0	0	0	50	0	464849	1	1	
GBP3	316278	598	5	30492	7896	0	0	0	0	50	0	394373	1	1	
GBP4	344056	834	-2	32718	8505	0	0	0	0	50	0	428778	1	1	
GBP5	379427	834	-4	30079	7742	0	0	0	0	50	0	385602	1	1	
GBP6	441714	820	-2	32417	8365	0	0	0	0	50	0	390180	1	1	
GBP7	340715	745	0	32669	8428	0	0	0	0	50	0	511553	1	1	
GBX1	611046	337	38	17066	5929	0	0	0	0	50	0	356384	1	1	
GBX2	134179	453	6	16772	5341	0	0	0	0	50	1	334467	1	1	
GC	17296	933	-6	24437	6496	0	0	0	0	50	0	415072	1	1	
GCA	70731	856	-5	11543	2779	0	0	0	0	50	0	417179	1	1	
GCAT	1385064	203	66	21980	6916	0	0	0	0	50	0	364224	1	1	
GCC1	411207	619	-7	37877	11095	0	0	0	0	50	0	295897	1	1	
GCC2	362408	478	6	87437	20566	0	0	0	0	22	0	190197	1	1	
GCDH	1886809	335	40	23268	6783	0	0	0	0	50	0	357672	1	1	
GCET2	268780	440	28	9499	2324	0	0	0	0	50	0	400449	1	1	
GCFC1	389063	482	69	49056	12642	0	0	0	0	50	1	340165	1	1	

GCG	95439	554	7	9541	2282	0	0	0	0	50	0	397467	1	1	
GCH1	673378	380	40	14434	3983	0	0	0	0	50	0	509012	1	1	
GCHFR	1011507	172	46	4354	1211	0	0	0	0	50	0	455287	1	1	
GCK	1321842	282	62	25284	6888	0	0	0	0	50	0	327075	1	1	
GCKR	1193266	306	39	31913	9079	0	0	0	0	50	0	451192	1	1	
GCLC	363341	337	24	33054	8400	0	0	0	0	50	0	451773	1	1	
GCLM	558028	275	9	14042	3787	0	0	0	0	50	0	496195	1	1	
GCM1	414446	329	20	22099	5768	0	0	0	0	50	0	428442	1	1	
GCM2	263829	483	14	25298	7021	0	0	0	0	50	1	373877	1	1	
GCN1L1	1586296	225	52	132881	40285	0	0	0	0	50	0	446110	1	1	
GCNT1	107632	603	-2	21392	5635	0	0	0	0	50	0	442036	1	1	
GCNT2	254228	404	13	50505	13860	0	0	0	0	50	0	464240	1	1	
GCNT3	521844	172	33	21875	5866	0	0	0	0	50	0	417585	1	1	
GCNT4	479847	634	32	22694	5908	0	0	0	0	50	1	420000	1	1	
GCNT7	264053	455	-17	21588	5859	0	0	0	0	50	1	411824	1	1	
GCOM1	171839	487	11	30331	7553	0	0	0	0	50	0	424620	1	1	
GCSH	287527	327	13	8792	2548	0	0	0	0	50	1	419769	1	1	
GDA	285414	207	11	23597	6160	0	0	0	0	50	0	345751	1	1	
GDAP1	230695	529	-14	18284	4837	0	0	0	0	50	0	423696	1	1	
GDAP1L1	664405	367	19	18417	5229	0	0	0	0	50	0	452375	1	1	
GDAP2	204311	596	-6	26285	7084	0	0	0	0	50	0	448294	1	1	
GDE1	349996	491	21	16751	4585	0	0	0	0	50	0	508886	1	1	
GDF1	NaN	NaN	NaN	16940	6685	0	0	0	0	50	2	786233	1	1	
GDF10	NaN	NaN	NaN	22834	7511	0	0	0	0	50	2	787059	1	1	
GDF11	1814311	384	26	19733	6181	0	0	0	0	50	1	313544	1	1	
GDF15	1294357	210	39	14441	5152	0	0	0	0	50	0	433916	1	1	
GDF2	NaN	NaN	NaN	20979	6195	0	0	0	0	50	2	785743	1	1	
GDF3	237142	672	14	17913	5250	0	0	0	0	50	0	445991	1	1	
GDF5	1521661	167	53	23926	7784	0	0	0	0	50	0	384321	1	1	
GDF6	215566	720	-7	21700	7154	0	0	0	0	50	0	430500	1	1	
GDF9	702301	200	62	22386	6363	0	0	0	0	50	1	334292	1	1	
GDI1	2277674	NaN	40	23030	6034	0	0	0	0	50	0	404474	1	1	
GDI2	656468	303	43	23086	5852	0	0	0	0	50	1	410109	1	1	
GDNF	176444	628	4	10514	2989	0	0	0	0	50	1	379659	1	1	
GDPD1	896167	379	4	18613	4718	0	0	0	0	50	1	260288	1	1	
GDPD2	270766	NaN	38	29736	8841	0	0	0	0	50	0	360066	1	1	
GDPD3	NaN	NaN	NaN	16310	4627	0	0	0	0	50	2	784175	1	1	
GDPD4	448138	469	44	27153	6930	0	0	0	0	50	1	439040	1	1	
GDPD5	567353	205	40	30338	9100	0	0	0	0	50	0	386939	1	1	
GEFT	1329939	344	52	32732	9709	0	0	0	0	50	1	484764	1	1	
GEM	518471	543	24	14966	4081	0	0	0	0	50	0	311542	1	1	
GEMIN5	519919	378	40	76587	20790	0	0	0	0	50	0	397845	1	1	
GEMIN6	843382	297	31	8575	2219	0	0	0	0	50	0	403970	1	1	
GEMIN7	1135715	208	25	6272	2128	0	0	0	0	50	0	378119	1	1	
GEMIN8	121538	NaN	35	12481	3080	0	0	0	0	50	0	407589	1	1	
GEN1	135007	1245	10	46669	11690	0	0	0	0	50	0	444353	1	1	
GET4	737267	310	41	16674	4704	0	0	0	0	50	1	423717	1	1	
GFAP	1101543	172	28	23646	7014	0	0	0	0	50	0	340074	1	1	
GFER	1747301	183	46	10213	2975	0	0	0	0	50	0	376299	1	1	
GFI1	370328	580	1	20832	6321	0	0	0	0	50	0	443975	1	1	

GFI1B	1887171	461	34	16814	4543	0	0	0	0	50	0	350098	1	1	
GFM1	197292	890	-9	38311	10535	0	0	0	0	50	0	570976	1	1	
GFM2	418815	581	30	40460	11032	0	0	0	0	50	2	366835	1	1	
GFOD1	258422	407	37	18942	5775	0	0	0	0	50	0	406469	1	1	
GFOD2	1157184	136	50	18613	5873	0	0	0	0	50	0	357056	1	1	
GFPT1	481090	144	17	35385	9093	0	0	0	0	50	0	406882	1	1	
GFPT2	1453124	362	19	35105	9478	0	0	0	0	50	0	473823	1	1	
GFRA1	33734	913	-25	23716	6398	0	0	0	0	50	0	417550	1	1	
GFRA2	333006	607	7	23408	6559	0	0	0	0	50	0	407757	1	1	
GFRA3	1219794	273	43	20027	5824	0	0	0	0	50	1	551257	1	1	
GFRA4	942842	353	32	14805	4431	0	0	0	0	50	0	418922	1	1	
GFRAL	28347	729	-14	20804	4795	0	0	0	0	50	2	581532	1	1	
GGA1	1136064	180	65	33313	9695	0	0	0	0	50	0	379680	1	1	
GGA2	525761	628	36	31276	8792	0	0	0	0	50	1	374528	1	1	
GGA3	1723762	171	31	37681	11165	0	0	0	0	50	0	384559	1	1	
GGCT	624959	400	36	9695	2464	0	0	0	0	50	0	415779	1	1	
GGCX	1241734	170	39	38045	10948	0	0	0	0	50	0	458563	1	1	
GGH	137738	789	-12	16646	4123	0	0	0	0	50	0	446397	1	1	
GGN	1467279	253	0	29792	11557	0	0	0	0	50	1	393015	1	1	
GGNBP2	468055	548	23	36134	8848	0	0	0	0	50	0	369733	1	1	
GGPS1	513285	188	22	15295	3920	0	0	0	0	50	0	380884	1	1	
GGT1	451217	194	36	28252	8729	0	0	0	0	50	0	413175	1	1	
GGT5	729749	200	28	28665	9303	0	0	0	0	50	0	392994	1	1	
GGT6	1252775	318	22	22897	8519	0	0	0	0	50	0	359044	1	1	
GGT7	1040878	205	48	32473	10514	0	0	0	0	50	0	414148	1	1	
GGTLC1	159782	930	-48	11326	3332	0	0	0	0	50	0	338933	1	1	
GGTLC2	179695	641	22	10948	3227	0	0	0	0	50	0	395500	1	1	
GH1	1446139	380	27	11382	2730	0	0	0	0	50	0	368599	1	1	
GH2	1446139	380	27	17325	3990	0	0	0	0	50	0	368599	1	1	
GHDC	2129732	206	30	26992	9002	0	0	0	0	50	1	435169	1	1	
GHITM	216194	860	-26	17325	5145	0	0	0	0	50	1	378266	1	1	
GHR	248127	909	-12	32550	8463	0	0	0	0	50	0	362320	1	1	
GHRHR	390101	631	4	22211	6391	0	0	0	0	50	0	443632	1	1	
GHRL	742508	333	57	7357	2009	0	0	0	0	50	0	293986	1	1	
GHSR	327135	420	17	18746	6034	0	0	0	0	50	2	492821	1	1	
GIF	366560	494	8	21154	5894	0	0	0	0	50	0	384503	1	1	
GIGYF1	1884430	247	60	51975	15225	0	0	0	0	50	0	451815	1	1	
GIGYF2	325071	328	35	68411	17269	0	0	0	0	50	0	360556	1	1	
GIMAP1	734961	689	14	14721	4788	0	0	0	0	50	0	383621	1	1	
GIMAP2	682986	689	20	17045	4417	0	0	0	0	50	0	385588	1	1	
GIMAP5	734961	689	14	15274	4298	0	0	0	0	50	0	383621	1	1	
GIMAP6	682986	689	20	14329	4256	0	0	0	0	50	0	385588	1	1	
GIMAP7	563029	671	24	15197	3850	0	0	0	0	50	1	356139	1	1	
GIMAP8	557261	584	38	33229	9065	0	0	0	0	50	1	472346	1	1	
GIN1	205281	565	14	26740	6797	0	0	0	0	50	0	365246	1	1	
GINS1	611174	335	-5	10297	2618	0	0	0	0	50	0	382018	1	1	
GINS2	390985	250	38	9632	2464	0	0	0	0	50	0	370930	1	1	
GINS3	695011	385	-1	12705	3675	0	0	0	0	50	0	355747	1	1	
GINS4	325055	496	29	11746	2954	0	0	0	0	50	1	419272	1	1	
GIP	793101	174	29	7903	2219	0	0	0	0	50	0	451388	1	1	

GIPC1	981470	204	34	16303	5243	0	0	0	0	50	0	384125	1	1	
GIPC2	412519	265	-6	15806	4522	0	0	0	0	50	2	449008	1	1	
GIPC3	2160126	269	39	15491	4690	0	0	0	0	50	0	428631	1	1	
GIPR	950605	194	45	23331	7182	0	0	0	0	50	1	373975	1	1	
GIT1	719319	383	30	38927	11326	0	0	0	0	50	0	393519	1	1	
GIT2	939215	254	46	39718	10514	0	0	0	0	50	1	530467	1	1	
GIYD1	NaN	NaN	NaN	27118	8666	0	0	0	0	50	2	788214	1	1	
GIYD2	1906000	253	52	27118	8666	0	0	0	0	50	0	372008	1	1	
GJA1	60722	773	-23	18872	5341	0	0	0	0	50	0	392266	1	1	
GJA10	383829	567	24	26845	7385	0	0	0	0	50	1	535010	1	1	
GJA3	405200	472	50	20818	6734	0	0	0	0	50	1	500969	1	1	
GJA4	548013	580	19	15932	5194	0	0	0	0	50	0	345625	1	1	
GJA5	NaN	NaN	NaN	17472	5229	0	0	0	0	50	2	784777	1	1	
GJA8	NaN	NaN	NaN	21077	6391	0	0	0	0	50	2	785939	1	1	
GJA9	524940	458	24	25473	7119	0	0	0	0	50	0	367367	1	1	
GJB1	728738	NaN	25	13678	4298	0	0	0	0	50	0	627151	1	1	
GJB2	405200	472	50	11235	3150	0	0	0	0	50	1	500969	1	1	
GJB3	548013	580	19	13146	4011	0	0	0	0	50	0	345625	1	1	
GJB4	548013	580	19	12845	3976	0	0	0	0	50	0	345625	1	1	
GJB5	548013	580	19	13391	3955	0	0	0	0	50	0	345625	1	1	
GJB6	402703	472	36	13048	3542	0	0	0	0	50	0	354466	1	1	
GJB7	222729	596	22	11235	2961	0	0	0	0	50	0	427644	1	1	
GJC1	1162976	172	29	19698	5397	0	0	0	0	50	0	389872	1	1	
GJC2	702358	341	15	20517	7287	0	0	0	0	50	0	338989	1	1	
GJC3	1584669	391	36	13503	4221	0	0	0	0	50	0	371980	1	1	
GJD2	521214	306	-1	15617	4753	0	0	0	0	50	0	459319	1	1	
GJD3	1220026	191	23	13559	5026	0	0	0	0	50	0	416626	1	1	
GJD4	153189	598	-2	17367	6090	0	0	0	0	50	0	416052	1	1	
GK	82798	NaN	34	29428	7532	0	0	0	0	50	0	385525	1	1	
GK2	112173	875	0	27013	7931	0	0	0	0	50	1	450030	1	1	
GK5	459081	395	25	27692	6958	0	0	0	0	50	0	426657	1	1	
GKAP1	468451	384	5	19439	4606	0	0	0	0	50	1	430381	1	1	
GKN1	338803	222	16	10472	2590	0	0	0	0	50	1	431319	1	1	
GKN2	340835	327	14	9569	2506	0	0	0	0	50	1	444381	1	1	
GLA	374364	NaN	37	21966	5670	0	0	0	0	50	1	424025	1	1	
GLB1	520588	372	29	34664	9310	0	0	0	0	50	1	447328	1	1	
GLB1L	694442	193	44	33194	9415	0	0	0	0	50	3	450387	1	1	
GLB1L2	270422	686	5	32634	9009	0	0	0	0	50	0	413749	1	1	
GLB1L3	270350	623	21	33754	9044	0	0	0	0	50	0	351932	1	1	
GLCCI1	179344	405	24	26733	8379	0	0	0	0	50	0	398454	1	1	
GLCE	367968	218	35	30884	8302	0	0	0	0	50	0	368347	1	1	
GLDC	213479	411	26	52087	14252	0	0	0	0	50	0	401870	1	1	
GLDN	317532	443	10	27580	7952	0	0	0	0	50	0	365211	1	1	
GLE1	1917147	160	39	36015	9576	0	0	0	0	50	1	523537	1	1	
GLG1	499497	209	36	62160	15960	0	0	0	0	50	0	374416	1	1	
GLI1	1347802	194	32	53550	17115	0	0	0	0	50	0	409360	1	1	
GLI2	183735	374	12	76650	24381	0	0	0	0	50	0	428652	1	1	
GLI3	41720	589	-12	77826	22953	0	0	0	0	50	2	504987	1	1	
GLI4	1657385	389	19	18459	5544	0	0	0	0	50	0	397362	1	1	
GLIPR1	513848	606	-10	13608	3633	0	0	0	0	50	1	358904	1	1	

GLIPR1L1	112974	692	-33	12110	3010	0	0	0	0	50	0	506625	1	1	
GLIPR1L2	313411	606	-22	12915	3381	0	0	0	0	50	0	466466	1	1	
GLIPR2	858124	257	46	8183	1960	0	0	0	0	50	0	458542	1	1	
GLIS1	598664	391	27	30093	9702	0	0	0	0	50	3	369411	1	1	
GLIS2	944378	161	33	25123	8414	0	0	0	0	50	0	413756	1	1	
GLIS3	170537	983	-1	45535	13958	0	0	0	0	50	0	478492	1	1	
GLMN	377839	559	-1	31605	7392	0	0	0	0	50	0	403207	1	1	
GLO1	280153	845	28	9751	2324	0	0	0	0	50	0	498218	1	1	
GLOD4	662733	483	10	15582	4011	0	0	0	0	50	0	336147	1	1	
GLOD5	823539	NaN	29	8225	2212	0	0	0	0	45	0	361242	1	1	
GLP1R	188770	730	34	23660	6622	0	0	0	0	50	0	412223	1	1	
GLP2R	76286	212	-53	27937	7973	0	0	0	0	50	0	412090	1	1	
GLRA1	496476	528	28	23310	6216	0	0	0	0	50	1	394051	1	1	
GLRA2	78081	NaN	18	24367	6356	0	0	0	0	50	0	422296	1	1	
GLRA3	62161	797	-15	23891	6160	0	0	0	0	50	1	517867	1	1	
GLRA4	485629	NaN	43	24591	6468	0	0	1	0	50	1	361151	1	1	
GLRB	44131	733	-34	25480	6650	0	0	0	0	50	0	470792	1	1	
GLRX	315156	242	52	5390	1519	0	0	0	0	50	1	407953	1	1	
GLRX2	288840	433	-13	10360	2933	0	0	0	0	50	0	354865	1	1	
GLRX3	84315	854	-23	17500	4550	0	0	0	0	50	0	382375	1	1	
GLRX5	209037	509	35	7623	2415	0	0	0	0	50	1	366765	1	1	
GLS	537377	292	36	34181	9457	0	0	0	0	50	0	400134	1	1	
GLS2	2793663	184	61	30989	8428	0	0	0	0	50	0	523271	1	1	
GLT1D1	34971	1008	-16	13636	3815	0	0	0	0	50	0	398048	1	1	
GLT25D1	961640	206	42	30919	9296	0	0	0	0	50	2	473305	1	1	
GLT25D2	348183	732	11	31640	8785	0	0	0	0	50	0	450366	1	1	
GLT6D1	362222	524	29	14084	3703	0	0	0	0	50	0	474586	1	1	
GLT8D1	1217701	272	47	19145	5047	0	0	0	0	50	0	573524	1	1	
GLT8D2	1193959	281	37	18193	4613	0	0	0	0	50	1	378280	1	1	
GLTP	876814	323	39	10661	2905	0	0	0	0	50	0	438907	1	1	
GLTPD1	1744013	273	28	10374	3339	0	0	0	0	50	1	448280	1	1	
GLTPD2	1272092	222	28	13678	5054	0	0	0	0	50	0	469798	1	1	
GLTSCR1	788433	258	33	72919	26516	0	0	0	0	50	0	503216	1	1	
GLTSCR2	812020	262	36	23744	7525	0	0	0	0	50	0	456687	1	1	
GLUD1	397715	144	35	28357	7868	0	0	0	0	50	0	356671	1	1	
GLUD2	339278	NaN	-6	27167	8092	0	0	0	0	50	0	334299	1	1	
GLUL	349818	783	5	19040	5026	0	0	0	0	50	0	481012	1	1	
GLYAT	285823	620	9	15358	3815	0	0	0	0	50	1	411810	1	1	
GLYATL1	368006	741	-11	17248	4340	0	0	0	0	50	0	357490	1	1	
GLYATL2	285727	673	-11	15470	3535	0	0	0	0	50	0	423850	1	1	
GLYATL3	NaN	NaN	NaN	14455	4172	0	0	0	0	50	2	783720	1	1	
GLYCTK	1113485	229	49	25592	7756	0	0	0	0	50	0	408534	1	1	
GLYR1	706891	195	33	28462	7742	0	0	0	0	50	1	383229	1	1	
GM2A	871795	530	57	11963	3682	0	0	0	0	50	1	482167	1	1	
GMCL1	857542	180	44	26950	6650	0	0	0	0	50	1	369005	1	1	
GMDS	160107	647	20	19229	5110	0	0	0	0	50	0	389235	1	1	
GMEB1	817267	128	27	29022	8001	0	0	0	0	50	0	468118	1	1	
GMEB2	1094905	193	54	26012	8197	0	0	0	0	50	0	482545	1	1	
GMFB	466180	371	28	7777	1778	0	0	0	0	50	1	340543	1	1	
GMFG	1748498	252	32	7721	1792	0	0	0	0	50	0	460327	1	1	

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GMIP	768855	418	-10	47915	14938	0	0	0	0	8	0	83468	1	1	
GML	447193	438	36	8134	2135	0	0	0	0	50	1	410473	1	1	
GMNN	422850	362	40	10962	2772	0	0	0	0	50	1	474488	1	1	
GMPPA	559651	403	32	21420	6195	0	0	0	0	50	0	349650	1	1	
GMPPB	1551582	271	48	19271	5761	0	0	0	0	50	0	431081	1	1	
GMPR	117199	561	26	17521	4949	0	0	0	0	50	0	395976	1	1	
GMPR2	915114	220	38	18648	5145	0	0	0	0	50	1	414449	1	1	
GMPS	345838	388	4	35399	9625	0	0	0	0	50	0	436520	1	1	
GNA11	1000335	173	25	18277	4907	0	0	0	0	50	0	409892	1	1	
GNA12	764046	392	30	18865	5453	0	0	0	0	50	0	414715	1	1	
GNA13	811904	401	12	18914	5152	0	0	0	0	50	0	328517	1	1	
GNA14	180930	608	-10	18298	4634	0	0	0	0	50	0	486822	1	1	
GNA15	908206	241	21	18956	5173	0	0	0	0	50	1	364784	1	1	
GNAI1	94843	475	-34	18424	4529	0	0	0	0	50	0	414043	1	1	
GNAI2	846254	199	44	18613	4676	0	0	0	0	50	0	405503	1	1	
GNAI3	1022796	187	33	18473	4564	0	0	0	0	50	0	351505	1	1	
GNAL	281108	361	18	26054	6916	0	0	0	0	50	3	435561	1	1	
GNAO1	465845	448	-26	24276	6069	0	0	0	0	50	0	370636	1	1	
GNAQ	328481	671	-24	18494	4732	0	0	0	0	50	0	395360	1	1	
GNAS	1025539	416	11	75159	9891	0	0	0	0	8	0	33775	1	1	
GNAT1	846254	199	44	18137	4627	0	0	0	0	50	0	405503	1	1	
GNAT2	989433	201	29	18452	4543	0	0	0	0	50	0	463036	1	1	
GNAT3	118115	385	-32	18445	4466	0	0	0	0	50	0	429002	1	1	
GNAZ	NaN	NaN	NaN	17521	4991	0	0	0	0	50	2	784539	1	1	
GNB1	1492510	229	26	17500	4823	0	0	0	0	50	0	370713	1	1	
GNB1L	690032	204	10	16072	5096	0	0	0	0	50	0	452116	1	1	
GNB2	1884430	247	60	17318	4921	0	0	0	0	50	0	451815	1	1	
GNB2L1	1034999	415	35	16037	4627	0	0	0	0	50	0	292803	1	1	
GNB3	2822601	232	32	17444	4795	0	0	0	0	50	1	406280	1	1	
GNB4	405715	600	20	17605	4634	0	0	0	0	50	0	359023	1	1	
GNB5	540700	195	21	20608	5390	0	0	0	0	50	0	371644	1	1	
GNE	857846	257	46	37828	10640	0	0	0	0	50	0	458542	1	1	
GNG10	527624	264	17	3535	1022	0	0	0	0	50	1	388941	1	1	
GNG11	228127	480	-12	3836	910	0	0	0	0	45	0	322910	1	1	
GNG12	476287	228	-7	3794	973	0	0	0	0	14	0	107422	1	1	
GNG13	1187310	273	39	3626	826	0	0	0	0	48	0	377559	1	1	
GNG2	204232	471	27	3745	959	0	0	0	0	50	0	364483	1	1	
GNG3	2425755	248	51	3906	1029	0	0	0	0	50	0	393407	1	1	
GNG4	565883	457	16	3927	1029	0	0	0	0	50	0	426643	1	1	
GNG5	238252	685	-2	3479	1036	0	0	0	0	11	0	64603	1	1	
GNG7	1472723	262	33	3507	1008	0	0	0	0	50	0	418138	1	1	
GNG8	1139694	347	28	3507	1029	0	0	0	0	10	0	82327	1	1	
GNGT1	228127	480	-12	3969	966	0	0	0	0	45	0	322910	1	1	
GNL1	2080582	271	32	30436	8792	0	0	0	0	50	0	425362	1	1	
GNL2	445473	274	30	37660	9758	0	0	0	0	50	1	412832	1	1	
GNL3	1217701	272	47	28868	7126	0	0	0	0	50	0	573524	1	1	
GNL3L	302365	NaN	31	30093	7896	0	0	0	0	50	1	478758	1	1	
GNLY	1099615	181	41	7588	2135	0	0	0	0	50	0	379393	1	1	
GNMT	1200368	259	40	14882	4228	0	0	0	0	50	0	446481	1	1	
GNPAT	380550	569	8	34993	9170	0	0	0	0	50	0	402311	1	1	

GNPDA1	696239	321	48	15015	3759	0	0	0	0	50	0	377804	1	1	
GNPDA2	62624	1009	11	14462	3493	0	0	0	0	50	0	473207	1	1	
GNPNAT1	307859	213	26	9576	2499	0	0	0	0	50	1	469280	1	1	
GNPTAB	345225	190	14	64344	16527	0	0	0	0	50	1	392427	1	1	
GNPTG	1211641	215	40	15904	4298	0	0	0	0	50	0	419181	1	1	
GNRH1	178665	515	21	4760	1330	0	0	0	0	50	0	408926	1	1	
GNRH2	835590	288	54	5985	1932	0	0	0	0	50	0	343882	1	1	
GNRHR	209065	767	35	17416	3479	0	0	0	0	50	0	421645	1	1	
GNS	441663	484	28	28238	7693	0	0	0	0	50	0	442239	1	1	
GOLGA1	1116965	142	30	40054	10010	0	0	0	0	50	0	353892	1	1	
GOLGA2	1813435	201	46	51499	13832	0	0	0	0	50	1	409983	1	1	
GOLGA2B	184712	650	16	7399	2072	0	0	0	0	50	0	390726	1	1	
GOLGA3	861960	601	21	77287	21854	0	0	0	0	50	0	441196	1	1	
GOLGA4	409750	283	20	117215	27286	0	0	0	0	50	0	438536	1	1	
GOLGA5	360146	405	41	37324	9800	0	0	0	0	50	2	475916	1	1	
GOLGA6A	412657	344	49	36015	9177	0	0	0	0	50	0	363027	1	1	
GOLGA6B	1113552	419	37	34538	8848	0	0	0	0	50	1	323197	1	1	
GOLGA6C	NaN	NaN	NaN	35959	9233	0	0	0	0	50	2	788781	1	1	
GOLGA6D	NaN	NaN	NaN	35987	9205	0	0	0	0	50	2	788753	1	1	
GOLGA6L1	NaN	NaN	NaN	35679	7182	0	0	0	0	50	2	786730	1	1	
GOLGA6L10	NaN	NaN	NaN	48517	13181	0	0	0	0	50	2	792729	1	1	
GOLGA6L6	NaN	NaN	NaN	40229	7756	0	0	0	0	50	2	787304	1	1	
GOLGA6L9	NaN	NaN	NaN	43890	12096	0	0	0	0	50	2	791644	1	1	
GOLGA7	284397	522	28	7462	1757	0	0	0	0	50	0	415492	1	1	
GOLGA7B	543507	369	12	10080	2058	0	0	0	0	50	0	458521	1	1	
GOLGA8A	542657	234	22	31129	8183	0	0	0	0	50	0	370531	1	1	
GOLGA8B	NaN	NaN	NaN	31122	8190	0	0	0	0	50	2	787738	1	1	
GOLGB1	300562	591	28	166320	40824	0	0	0	0	1	0	45374	1	1	
GOLIM4	147581	681	-8	36757	8414	0	0	0	0	50	0	522515	1	1	
GOLM1	320201	489	20	20713	5369	0	0	0	0	50	0	481110	1	1	
GOLPH3	440207	197	16	14798	4291	0	0	0	0	50	0	414708	1	1	
GOLPH3L	1611525	178	42	14203	4151	0	0	0	0	50	0	407890	1	1	
GOLT1A	557652	370	34	6706	2009	0	0	0	0	50	0	433209	1	1	
GOLT1B	518837	836	-23	7154	1939	0	0	0	0	50	1	329175	1	1	
GON4L	2156898	179	33	114632	31612	0	0	0	0	50	0	451927	1	1	
GOPC	189169	465	9	23345	6496	0	0	0	0	50	0	445809	1	1	
GORAB	72379	883	-2	19978	5327	0	0	0	0	50	0	426433	1	1	
GORASP1	213514	500	30	21791	6706	0	0	0	0	50	0	414883	1	1	
GORASP2	414976	406	36	22211	7084	0	0	0	0	50	1	425397	1	1	
GOSR1	488195	329	28	13265	3346	0	0	0	0	50	0	332598	1	1	
GOSR2	618151	366	28	13853	3598	0	0	0	0	50	2	399784	1	1	
GOT1	277366	575	-5	20804	5950	0	0	0	0	50	0	360654	1	1	
GOT1L1	660779	379	37	19159	5138	0	0	0	0	50	0	508606	1	1	
GOT2	572798	188	2	21798	6111	0	0	0	0	50	1	406868	1	1	
GP1BB	NaN	NaN	NaN	9198	3969	0	0	0	0	50	2	783517	1	1	
GP2	243266	848	-5	27398	7420	0	0	0	0	50	2	390243	1	1	
GP5	324325	269	27	26166	9261	0	0	0	0	50	1	508221	1	1	
GP6	1125216	432	-26	31486	8267	0	0	0	0	50	0	370972	1	1	
GP9	1155221	379	52	8302	2996	0	0	0	0	50	0	388717	1	1	
GPA33	287664	611	-1	16261	4403	0	0	0	0	50	0	380457	1	1	

GPAA1	2720766	211	27	29855	10297	0	0	0	0	50	0	518427	1	1	
GPAM	166177	679	-13	42413	11494	0	0	0	0	50	0	531279	1	1	
GPATCH1	420460	212	-7	47502	12810	0	0	0	0	50	1	421386	1	1	
GPATCH2	42648	1015	-18	27125	7000	0	0	0	0	50	0	401590	1	1	
GPATCH3	1025094	188	34	25907	7777	0	0	0	0	50	0	363048	1	1	
GPATCH4	2049505	180	37	19922	4774	0	0	0	0	50	0	375088	1	1	
GPATCH8	1121044	166	30	74011	21308	0	0	0	0	50	0	352100	1	1	
GPBP1	177326	375	19	25011	6216	0	0	0	0	50	0	401450	1	1	
GPBP1L1	913416	157	28	24220	6545	0	0	0	0	50	0	475762	1	1	
GPC1	409918	407	20	27433	8456	0	0	0	0	50	1	431683	1	1	
GPC2	1299015	205	52	27790	9506	0	0	0	0	50	1	409815	1	1	
GPC3	96913	NaN	25	30772	7952	0	0	0	0	50	0	331002	1	1	
GPC4	66980	NaN	40	28420	7343	0	0	0	0	50	0	435995	1	1	
GPC5	12353	1007	-9	28679	8008	0	0	0	0	50	2	452312	1	1	
GPC6	42298	1135	-25	28091	7609	0	0	0	0	50	0	444955	1	1	
GPCPD1	556687	225	3	35105	8890	0	0	0	0	50	1	391461	1	1	
GPD1	1021750	192	57	17654	5026	0	0	0	0	50	1	426685	1	1	
GPD1L	466186	403	6	17794	4970	0	0	0	0	50	1	473641	1	1	
GPD2	116871	496	10	37072	10136	0	0	0	0	50	0	459375	1	1	
GPER	774288	346	36	17878	5810	0	0	0	0	50	0	364056	1	1	
GPHA2	3151458	209	52	6461	1939	0	0	0	0	49	0	383964	1	1	
GPHB5	147817	637	-12	4417	1463	0	0	0	0	50	0	454013	1	1	
GPHN	262406	846	19	39179	11179	0	0	0	0	50	1	426867	1	1	
GPI	671792	292	-2	30716	8470	0	0	0	0	50	0	414967	1	1	
GPIHBP1	1104860	446	20	9240	2709	0	0	0	0	50	0	445781	1	1	
GPKOW	833689	NaN	41	23779	7154	0	0	0	0	50	0	426979	1	1	
GPLD1	399209	465	7	43750	12110	0	0	0	0	50	0	372288	1	1	
GPM6A	123418	931	-23	14448	3843	0	0	0	0	50	0	505750	1	1	
GPM6B	135235	NaN	35	18445	4739	0	0	0	0	50	0	412160	1	1	
GPN1	1192074	306	43	24213	6342	0	0	0	0	50	0	566580	1	1	
GPN2	1025094	188	34	15358	4571	0	0	0	0	50	0	363048	1	1	
GPN3	943393	206	47	18431	4375	0	0	0	0	50	0	466683	1	1	
GPNMB	505224	169	25	29001	7938	0	0	0	0	50	1	437920	1	1	
GPR1	332753	487	25	17535	4977	0	0	0	0	50	0	432110	1	1	
GPR101	252008	NaN	13	24955	7091	0	0	0	0	50	0	494557	1	1	
GPR107	622734	222	29	31101	8358	0	0	0	0	50	1	417886	1	1	
GPR108	736129	272	27	27902	7840	0	0	0	0	50	0	482230	1	1	
GPR109A	966471	227	38	17808	5166	0	0	0	0	50	0	383131	1	1	
GPR109B	1004283	227	40	18914	5530	0	0	0	0	50	0	407393	1	1	
GPR110	203250	291	-5	46494	13083	0	0	0	0	50	0	435708	1	1	
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GPR113	644558	346	30	56588	17962	0	0	0	0	0	0	17962	1	1	
GPR114	749405	135	43	26222	8029	0	0	0	0	50	2	371742	1	1	
GPR115	176427	691	7	35007	9597	0	0	0	0	50	0	497602	1	1	
GPR116	168285	392	0	68166	18375	0	0	0	0	50	0	490133	1	1	
GPR119	301748	NaN	37	16037	5215	0	0	0	0	50	0	371966	1	1	
GPR12	173793	619	18	15939	5250	0	0	0	0	50	0	281162	1	1	
GPR120	450249	305	20	18032	6034	0	0	0	0	50	0	421652	1	1	
GPR124	655980	379	26	64092	21336	0	0	0	0	50	0	450240	1	1	

GPR125	101844	818	16	65863	18935	0	0	0	0	50	0	369383	1	1	
GPR126	177409	421	-26	65268	16611	0	0	0	0	50	0	504042	1	1	
GPR128	342000	509	12	40432	11102	0	0	0	0	50	0	428414	1	1	
GPR132	857767	198	43	18263	5824	0	0	0	0	50	0	395444	1	1	
GPR133	218974	468	0	44541	12600	0	0	0	0	50	1	443023	1	1	
GPR135	168237	606	12	22673	8512	0	0	0	0	50	0	368830	1	1	
GPR137	1613996	257	65	26936	8260	0	0	0	0	50	0	419300	1	1	
GPR137B	483624	632	8	19887	5859	0	0	0	0	50	1	433027	1	1	
GPR137C	356488	313	14	21140	6454	0	0	0	0	50	1	447979	1	1	
GPR139	254650	827	-17	17472	4956	0	0	0	0	50	0	376390	1	1	
GPR141	103891	630	6	15036	4242	0	0	0	0	50	0	438158	1	1	
GPR142	362227	433	-8	22141	7280	0	0	0	0	50	0	499366	1	1	
GPR143	125267	NaN	2	20020	6167	0	0	0	0	50	1	380044	1	1	
GPR144	NaN	NaN	NaN	46655	15652	0	0	0	0	50	2	795200	1	1	
GPR146	765060	346	34	15617	5467	0	0	0	0	50	0	410186	1	1	
GPR148	626077	372	11	16338	5628	0	0	0	0	50	0	440797	1	1	
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GPR150	307041	359	32	19635	7770	0	0	1	0	50	2	372288	1	1	
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GPR152	1392213	215	53	21980	7777	0	0	0	0	50	0	303898	1	1	
GPR153	643428	205	30	28686	10080	0	0	0	0	50	1	310366	1	1	
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GPR156	429121	146	19	40019	11998	0	0	0	0	50	0	455553	1	1	
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GPR158	43942	814	-21	60102	17388	0	0	0	0	50	0	394324	1	1	
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GPR17	NaN	NaN	NaN	17591	5740	0	0	0	0	50	2	785288	1	1	
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GPR172A	2525749	200	28	20503	7847	0	0	0	0	50	0	514801	1	1	
GPR172B	1399774	343	26	20727	7812	0	0	0	0	50	0	413224	1	1	
GPR173	878367	NaN	63	17983	5663	0	0	0	0	50	1	407897	1	1	
GPR174	14321	NaN	62	16443	4641	0	0	0	0	50	2	475629	1	1	
GPR176	731008	387	17	24962	7714	0	0	0	0	50	0	443611	1	1	
GPR179	1101194	504	10	114688	35378	0	0	0	0	9	0	103320	1	1	
GPR18	NaN	NaN	NaN	16359	4641	0	0	0	0	50	2	784189	1	1	
GPR180	149137	803	14	22540	5957	0	0	0	0	50	0	342643	1	1	
GPR182	2103486	286	26	19327	6272	0	0	0	0	50	1	479801	1	1	
GPR183	NaN	NaN	NaN	17920	4970	0	0	0	0	50	2	784518	1	1	
GPR19	791330	136	44	20482	5810	0	0	0	0	50	2	399378	1	1	
GPR20	219865	239	41	16653	6048	0	0	0	0	50	0	372106	1	1	
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GPR25	545933	437	12	16310	6496	0	0	0	0	50	0	430367	1	1	
GPR26	208204	808	17	16023	5481	0	0	0	0	50	0	413154	1	1	
GPR27	86859	605	6	17150	6517	0	0	0	0	50	0	407799	1	1	
GPR3	847257	188	26	15379	5558	0	0	0	0	50	0	364287	1	1	
GPR31	149346	696	40	14931	5208	0	0	0	0	50	0	419818	1	1	

GPR32	652250	593	27	16947	5523	0	0	0	0	50	1	441770	1	1	
GPR34	531498	NaN	45	18949	5285	0	0	0	0	50	0	491260	1	1	
GPR35	837485	485	35	14476	5054	0	0	0	0	50	0	373352	1	1	
GPR37	34802	462	-24	29344	9422	0	0	0	0	50	0	337680	1	1	
GPR37L1	704755	156	27	23002	7490	0	0	0	0	50	0	369656	1	1	
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GPR4	1029266	194	44	17346	5523	0	0	0	0	50	2	507787	1	1	
GPR44	794900	522	47	18312	6720	0	0	0	0	50	1	430885	1	1	
GPR45	184828	497	0	17682	5817	0	0	0	0	50	0	401723	1	1	
GPR50	215822	NaN	-7	29904	9156	0	0	0	0	50	1	554085	1	1	
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GPR55	1020678	519	45	15652	4508	0	0	0	0	50	0	535696	1	1	
GPR56	727305	168	41	34741	10388	0	0	0	0	50	1	382291	1	1	
GPR6	209151	624	13	16653	6258	0	0	0	0	50	0	477946	1	1	
GPR61	1056159	272	37	21287	7189	0	0	0	0	50	0	353479	1	1	
GPR62	1013177	370	39	16156	7091	0	0	0	0	50	0	388584	1	1	
GPR63	130400	1336	-5	20384	6076	0	0	0	0	50	0	395969	1	1	
GPR64	197855	NaN	25	51842	14539	0	0	0	0	50	0	380583	1	1	
GPR65	115758	976	-36	16828	4466	0	0	0	0	50	0	480235	1	1	
GPR68	251273	462	42	17472	5586	0	0	0	0	50	2	414596	1	1	
GPR75	NaN	NaN	NaN	26180	7903	0	0	0	0	50	2	787451	1	1	
GPR77	1132395	232	41	15694	5684	0	0	0	0	50	0	333879	1	1	
GPR78	96216	471	31	16828	6272	0	0	0	0	50	1	428169	1	1	
GPR81	1042095	227	42	16926	4935	0	0	0	0	50	1	404551	1	1	
GPR82	531498	NaN	45	16702	4613	0	0	0	0	50	0	491260	1	1	
GPR83	299664	704	-13	20811	6153	0	0	0	0	50	0	371476	1	1	
GPR84	664708	190	45	18949	6146	0	0	0	0	50	2	438641	1	1	
GPR85	110068	954	-8	17934	5439	0	0	0	0	50	0	421260	1	1	
GPR87	NaN	NaN	NaN	17948	4879	0	0	0	0	50	2	784427	1	1	
GPR88	348181	846	-6	17381	6958	0	0	0	0	50	0	420532	1	1	
GPR89A	NaN	NaN	NaN	23765	6139	0	0	0	0	50	2	785687	1	1	
GPR89B	NaN	NaN	NaN	23828	6160	0	0	0	0	50	2	785708	1	1	
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GPR97	712945	168	34	27342	8253	0	0	0	0	50	2	419853	1	1	
GPR98	115632	755	-2	315049	89810	0	0	0	0	9	0	183113	1	1	
GPRASP1	123687	NaN	23	69587	18361	0	0	0	0	50	0	312403	1	1	
GPRASP2	123687	NaN	23	41314	11543	0	0	0	0	50	0	312403	1	1	
GPRC5A	719556	169	17	17486	5320	0	0	0	0	50	0	406882	1	1	
GPRC5B	258899	641	9	19446	6237	0	0	0	0	50	1	431557	1	1	
GPRC5C	491117	504	7	23660	7441	0	0	0	0	50	0	358050	1	1	
GPRC5D	710389	169	14	16905	5019	0	0	0	0	50	0	432579	1	1	
GPRC6A	232554	730	-15	46480	12425	0	0	0	0	50	0	417501	1	1	
GPRIN1	579630	359	40	47145	16506	0	0	0	0	50	0	423822	1	1	
GPRIN2	NaN	NaN	NaN	21609	7392	0	0	0	0	50	2	786940	1	1	
GPRIN3	108672	672	-1	37394	11557	0	0	0	0	50	0	387814	1	1	
GPS1	3850694	197	34	27573	7728	0	0	0	0	50	1	370034	1	1	
GPS2	1911735	206	36	17045	4501	0	0	0	0	50	1	434000	1	1	
GPSM1	1194160	258	28	36246	10899	0	0	0	0	50	1	330967	1	1	
GPSM2	817825	236	19	35077	9170	0	0	0	0	50	1	357959	1	1	
GPSM3	2119974	392	28	7924	2555	0	0	0	0	50	0	467467	1	1	

GPT	1755818	291	7	24563	7588	0	0	0	0	24	0	213045	1	1	
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GPX1	1661046	201	34	10367	3514	0	0	0	0	50	0	405601	1	1	
GPX2	521616	387	35	9471	2688	0	0	0	0	50	0	415793	1	1	
GPX3	923608	382	22	11389	3248	0	0	0	0	50	0	461965	1	1	
GPX4	2398425	234	17	15113	3934	0	0	0	0	50	0	531139	1	1	
GPX5	247624	576	27	11697	2667	0	0	0	0	50	1	452501	1	1	
GPX6	255783	592	26	11396	2968	0	0	0	0	50	1	497700	1	1	
GPX7	647361	355	12	9317	2737	0	0	0	0	42	0	315560	1	1	
GPX8	222731	430	2	10507	2933	0	0	0	0	50	0	435183	1	1	
GRAMD1A	821282	419	-46	36575	10696	0	0	0	0	50	0	384790	1	1	
GRAMD1B	684637	439	15	38437	9716	0	0	0	0	50	1	392595	1	1	
GRAMD1C	442573	363	36	34559	8680	0	0	0	0	50	0	392672	1	1	
GRAMD2	1132082	352	26	18487	4844	0	0	0	0	50	0	409486	1	1	
GRAMD3	234274	201	10	26936	5929	0	0	0	0	50	0	356230	1	1	
GRAMD4	415189	265	7	29897	8050	0	0	0	0	50	0	549367	1	1	
GRAP	652784	198	21	11067	3045	0	0	0	0	50	0	462385	1	1	
GRAP2	842645	411	34	16905	4536	0	0	0	0	50	0	433538	1	1	
GRAPL	NaN	NaN	NaN	6111	1638	0	0	0	0	31	2	345121	1	1	
GRASP	468067	234	41	19054	6524	0	0	0	0	50	1	317296	1	1	
GRB10	185646	602	-4	30695	8092	0	0	0	0	50	0	401443	1	1	
GRB14	71885	630	-5	27923	7252	0	0	0	0	50	0	427819	1	1	
GRB2	1869080	157	24	11298	2772	0	0	0	0	50	2	461391	1	1	
GRB7	1448852	226	36	26894	7861	0	0	0	0	50	0	551705	1	1	
GREB1	219132	360	21	99022	28616	0	0	0	0	50	0	416703	1	1	
GREB1L	NaN	NaN	NaN	96838	27020	0	0	0	0	50	2	806568	1	1	
GREM1	244472	383	5	9044	2674	0	0	0	0	50	1	344120	1	1	
GREM2	47375	688	-30	8330	2380	0	0	0	0	50	1	388787	1	1	
GRHL1	913916	234	40	31934	8323	0	0	0	0	50	0	528521	1	1	
GRHL2	424003	399	36	32725	7973	0	0	0	0	50	0	419538	1	1	
GRHL3	893155	198	22	31626	8379	0	0	0	0	50	0	318927	1	1	
GRHPR	534559	337	36	16471	4970	0	0	0	0	50	0	414295	1	1	
GRIA1	67092	914	-3	48006	12894	0	0	0	0	50	0	380695	1	1	
GRIA2	44831	925	-34	46977	12474	0	0	0	0	50	0	392728	1	1	
GRIA3	226353	NaN	-6	47537	12607	0	0	0	0	50	0	442526	1	1	
GRIA4	86500	920	-22	50309	13531	0	0	0	0	50	0	412720	1	1	
GRID1	89265	965	-18	50561	14371	0	0	1	0	50	1	432313	1	1	
GRID2	4518	1143	-17	50568	14175	0	0	0	0	50	1	374766	1	1	
GRID2IP	NaN	NaN	NaN	59248	18872	0	0	0	0	50	2	798420	1	1	
GRIK1	71816	904	-14	49322	13279	0	0	0	0	50	1	467145	1	1	
GRIK2	10349	1062	-25	48979	13265	0	0	0	0	50	1	598010	1	1	
GRIK3	361850	626	30	46151	13069	0	0	0	0	50	0	427651	1	1	
GRIK4	298412	678	31	48069	13734	0	0	0	0	50	0	351540	1	1	
GRIK5	886688	438	31	48265	15092	0	0	0	0	50	0	444906	1	1	
GRIN1	1722012	202	36	49497	14154	0	0	0	0	50	1	445893	1	1	
GRIN2A	109137	922	-9	73647	19656	0	0	0	0	50	0	477736	1	1	
GRIN2B	153586	825	-10	74144	20419	0	0	0	0	50	1	452774	1	1	
GRIN2C	1027517	320	20	59388	19362	0	0	0	0	50	0	390796	1	1	
GRIN2D	1448469	209	38	63462	21777	0	0	0	0	50	0	575421	1	1	
GRIN3A	111816	1063	-27	55027	15953	0	0	0	0	50	0	602665	1	1	

GRIN3B	2387949	206	26	48881	17605	0	0	0	0	50	0	637042	1	1	
GRINL1A	168063	487	12	18599	4900	0	0	0	0	50	0	435659	1	1	
GRIP1	228672	944	-6	54320	15463	0	0	0	0	50	0	363790	1	1	
GRIP2	501828	342	52	56329	17612	0	0	0	0	50	0	359457	1	1	
GRIPAP1	834590	NaN	41	44660	11620	0	0	0	0	50	0	426944	1	1	
GRK1	785061	NaN	36	16331	4564	0	0	0	0	50	0	459102	1	1	
GRK4	675364	336	51	30373	7364	0	0	0	0	50	0	331961	1	1	
GRK5	831479	338	30	30702	7791	0	0	0	0	50	0	393190	1	1	
GRK6	1038665	261	59	30604	8015	0	0	0	0	50	1	460180	1	1	
GRK7	426724	406	30	27468	7686	0	0	0	0	50	1	434063	1	1	
GRLF1	1201856	207	29	74417	20503	0	0	0	0	50	1	397677	1	1	
GRM1	92600	941	-13	59633	17647	0	0	0	0	50	0	478051	1	1	
GRM2	759916	456	37	41811	13524	0	0	0	0	50	0	377818	1	1	
GRM3	123690	1072	-18	43491	12285	0	0	0	0	50	1	415121	1	1	
GRM4	1013590	629	35	44765	13510	0	0	0	0	50	0	353927	1	1	
GRM6	434745	839	2	42252	13818	0	0	0	0	50	0	391552	1	1	
GRM7	4936	1156	-6	46823	13258	0	0	0	0	50	1	504168	1	1	
GRM8	60921	1082	-8	46214	12901	0	0	0	0	50	1	466326	1	1	
GRN	1062294	172	38	30205	8225	0	0	0	0	50	0	467495	1	1	
GRP	280782	512	53	7651	1946	0	0	0	0	50	0	331660	1	1	
GRPEL1	459652	426	70	11004	3024	0	0	0	0	50	1	379974	1	1	
GRPEL2	422727	380	28	11186	3304	0	0	0	0	50	1	380310	1	1	
GRPR	217879	NaN	19	18802	5621	0	0	0	0	50	0	407288	1	1	
GRRP1	NaN	NaN	NaN	12607	4613	0	0	0	0	50	2	784161	1	1	
GRSF1	263233	553	29	24199	6902	0	0	0	0	50	0	444850	1	1	
GRTP1	812721	237	53	16996	4865	0	0	0	0	50	0	384419	1	1	
GRWD1	1418188	209	41	22029	6636	0	0	0	0	50	0	640500	1	1	
GRXCR1	32225	966	18	14532	4053	0	0	0	0	50	0	402955	1	1	
GRXCR2	394778	568	-4	12593	3262	0	0	0	0	50	0	321132	1	1	
GSC	195536	892	8	12481	3941	0	0	0	0	50	0	408401	1	1	
GSC2	487560	277	18	9681	3444	0	0	0	0	50	0	393302	1	1	
GSDMA	1652518	216	28	22449	6573	0	0	0	0	50	0	446271	1	1	
GSDMB	1602321	292	18	21448	5747	0	0	0	0	4	0	24178	1	1	
GSDMC	258154	428	13	26390	6769	0	0	0	0	50	0	424809	1	1	
GSDMD	2183482	235	37	23975	7420	0	0	0	0	50	0	386120	1	1	
GSG1	692979	203	5	22029	4179	0	0	0	0	50	0	418159	1	1	
GSG1L	592259	575	10	16702	4760	0	0	0	0	50	0	412286	1	1	
GSG2	NaN	NaN	NaN	38570	11809	0	0	0	0	50	2	791357	1	1	
GSK3A	790787	299	37	23716	7616	0	0	0	0	50	0	501109	1	1	
GSK3B	467052	421	19	21875	6391	0	0	0	0	50	1	315273	1	1	
GSN	579825	326	42	39767	11662	0	0	0	0	50	0	364616	1	1	
GSPT1	564730	294	51	32627	8743	0	0	0	0	50	0	327432	1	1	
GSPT2	126151	NaN	16	30828	8799	0	0	0	0	50	0	475776	1	1	
GSR	488347	242	40	26334	7665	0	0	0	0	50	0	321265	1	1	
GSS	968413	236	40	23821	7112	0	0	0	0	50	0	446957	1	1	
GSTA1	539666	498	11	11627	2926	0	0	0	0	50	0	424354	1	1	
GSTA2	539666	498	11	11655	2898	0	0	0	0	50	0	424354	1	1	
GSTA3	604568	455	8	11606	2947	0	0	0	0	50	0	416836	1	1	
GSTA4	477320	400	17	11599	2954	0	0	0	0	50	1	389256	1	1	
GSTA5	572117	455	9	11662	2891	0	0	0	0	50	0	416038	1	1	

GSTCD	292053	357	8	32256	8610	0	0	0	0	50	0	398377	1	1	
GSTK1	379894	399	14	14252	4123	0	0	0	0	50	1	450086	1	1	
GSTM1	927739	201	22	11718	2709	0	0	0	0	50	1	282758	1	1	
GSTM2	927739	201	22	11956	2786	0	0	0	0	50	1	282758	1	1	
GSTM3	927739	201	22	12019	2807	0	0	0	0	50	1	282758	1	1	
GSTM4	958586	201	25	12005	2863	0	0	0	0	50	0	407631	1	1	
GSTM5	927739	201	22	11655	2772	0	0	0	0	50	1	282758	1	1	
GSTO1	293891	376	8	12572	3178	0	0	0	0	50	0	403361	1	1	
GSTO2	293891	376	8	12495	3297	0	0	0	0	50	0	403361	1	1	
GSTP1	1374022	393	53	10724	3136	0	0	0	0	50	0	429800	1	1	
GSTT1	748735	202	66	11977	3584	0	0	0	0	50	0	318745	1	1	
GSTT2	699286	202	63	24388	7280	0	0	0	0	50	1	333396	1	1	
GSTT2B	699286	202	63	12215	3640	0	0	0	0	50	1	333396	1	1	
GSTZ1	554839	418	37	11249	3094	0	0	0	0	50	0	461601	1	1	
GSX1	338630	610	36	12607	4256	0	0	0	0	50	0	415863	1	1	
GSX2	77093	472	20	14595	4746	0	0	0	0	50	0	382767	1	1	
GTDC1	60793	692	12	23632	6041	0	0	0	0	50	0	426153	1	1	
GTF2A1	206731	456	-16	19446	4977	0	0	0	0	50	0	318437	1	1	
GTF2A1L	NaN	NaN	NaN	24948	6678	0	0	0	0	50	2	786226	1	1	
GTF2A2	521844	172	33	5775	1491	0	0	0	0	50	0	417585	1	1	
GTF2B	284162	537	1	16002	4473	0	0	0	0	50	0	381528	1	1	
GTF2E1	307733	475	11	22099	5957	0	0	0	0	50	0	412216	1	1	
GTF2E2	489611	228	38	15099	3885	0	0	0	0	50	0	334446	1	1	
GTF2F1	943949	407	31	26887	6755	0	0	0	0	50	0	355579	1	1	
GTF2F2	613630	276	50	13013	3325	0	0	0	0	50	1	367962	1	1	
GTF2H1	601817	252	37	28588	7175	0	0	0	0	50	0	456589	1	1	
GTF2H2	370823	581	25	20993	5215	0	0	0	0	50	1	500199	1	1	
GTF2H2C	NaN	NaN	NaN	21007	5201	0	0	0	0	50	2	784749	1	1	
GTF2H2D	514523	312	23	21007	5201	0	0	0	0	50	0	392182	1	1	
GTF2H3	871640	315	40	16527	4032	0	0	0	0	50	0	419664	1	1	
GTF2H4	2223866	223	25	23401	6860	0	0	0	0	50	1	455560	1	1	
GTF2H5	617881	209	40	3759	945	0	0	0	0	26	0	208768	1	1	
GTF2I	908884	151	45	52444	13349	0	0	0	0	50	1	479010	1	1	
GTF2IRD2	875900	173	54	48405	12705	0	0	0	0	50	1	440762	1	1	
GTF2IRD2B	774871	220	56	48377	12733	0	0	0	0	50	1	426370	1	1	
GTF3A	304169	414	59	19460	4837	0	0	0	0	50	0	436730	1	1	
GTF3C1	282478	597	25	106274	29722	0	0	0	0	50	1	551901	1	1	
GTF3C2	1245306	182	52	45262	13706	0	0	0	0	50	1	445158	1	1	
GTF3C3	404194	370	14	45605	11746	0	0	0	0	50	2	463561	1	1	
GTF3C4	1570209	581	46	40740	11445	0	0	0	0	50	0	461629	1	1	
GTF3C5	1828532	402	50	26810	7315	0	0	0	0	50	0	358057	1	1	
GTF3C6	320358	372	33	11333	2611	0	0	0	0	50	2	392119	1	1	
GTPBP1	1291659	272	73	33026	10108	0	0	0	0	50	0	330708	1	1	
GTPBP10	138505	1085	-5	20048	5194	0	0	0	0	50	0	366121	1	1	
GTPBP2	1221714	194	46	29666	9289	0	0	0	0	50	1	484029	1	1	
GTPBP3	842088	211	43	24955	8750	0	0	0	0	50	0	425502	1	1	
GTPBP4	338115	407	30	33040	8351	0	0	0	0	50	0	433685	1	1	
GTPBP5	861466	288	-13	19775	6370	0	0	0	0	50	1	378336	1	1	
GTPBP8	279709	639	18	14322	4095	0	0	0	0	50	1	475559	1	1	
GTSE1	506667	205	35	36106	11438	0	0	0	0	50	0	372267	1	1	

GTSF1	642618	190	38	9233	2023	0	0	0	0	50	1	417606	1	1	
GTSF1L	395176	374	38	7525	1904	0	0	0	0	50	0	446782	1	1	
GUCA1A	524386	273	43	10374	2604	0	0	0	0	50	1	437843	1	1	
GUCA1B	524386	273	43	10367	2548	0	0	0	0	50	1	437843	1	1	
GUCA1C	90728	971	-15	10934	2590	0	0	0	0	50	1	452620	1	1	
GUCA2A	418399	579	24	5852	1666	0	0	0	0	50	1	365799	1	1	
GUCA2B	418399	579	24	5600	1729	0	0	0	0	50	1	365799	1	1	
GUCY1A2	63799	885	-21	36386	10381	0	0	0	0	50	0	396977	1	1	
GUCY1A3	43073	764	1	35014	9464	0	0	0	0	50	1	463141	1	1	
GUCY1B3	43576	643	-1	31766	8386	0	0	0	0	50	0	417256	1	1	
GUCY2C	339860	720	4	55664	14182	0	0	0	0	50	0	351575	1	1	
GUCY2D	1528802	272	26	53186	17962	0	0	0	0	50	0	366100	1	1	
GUCY2F	131317	NaN	29	55979	15463	0	0	0	0	50	0	513387	1	1	
GUF1	62787	1009	2	34181	9373	0	0	0	0	50	2	396431	1	1	
GUK1	702358	341	15	11109	3318	0	0	0	0	50	0	338989	1	1	
GULP1	98119	869	-12	16149	3906	0	0	0	0	50	1	640388	1	1	
GUSB	434728	365	31	32732	9268	0	0	0	0	50	1	336231	1	1	
GXYLT1	172471	684	-9	22470	5901	0	0	0	0	50	0	583079	1	1	
GYG1	356219	442	8	19607	4312	0	0	0	0	50	0	358288	1	1	
GYG2	197004	NaN	17	25347	7119	0	0	0	0	50	0	463323	1	1	
GYLTL1B	427820	291	48	35469	11109	0	0	0	0	50	0	409262	1	1	
GYPA	131210	1033	-8	7889	2128	0	0	0	0	50	0	396851	1	1	
GYPB	146672	990	-12	4837	1337	0	0	0	0	50	0	383194	1	1	
GYPC	176465	753	-3	6587	1792	0	0	0	0	26	0	176722	1	1	
GYPE	166879	959	-9	4158	1113	0	0	0	0	50	0	424088	1	1	
GYS1	1927185	211	43	37240	10514	0	0	0	0	50	1	404320	1	1	
GYS2	510830	830	-17	36078	9534	0	0	0	0	50	0	306250	1	1	
GZF1	188823	688	-22	35693	9499	0	0	0	0	50	1	538545	1	1	
GZMA	222027	430	1	13272	3717	0	0	0	0	50	0	464730	1	1	
GZMB	853527	610	-12	12502	3500	0	0	0	0	50	0	483602	1	1	
GZMH	897577	582	3	12376	3563	0	0	0	0	50	1	435834	1	1	
GZMK	221322	558	1	13286	3787	0	0	0	0	50	1	409241	1	1	
GZMM	1647685	255	-8	12411	4221	0	0	0	0	50	1	369012	1	1	
H1F0	1385064	203	66	9436	2849	0	0	0	0	50	0	364224	1	1	
H1FNT	809696	412	16	12089	4039	0	0	0	0	50	1	389704	1	1	
H1FOO	779764	210	59	16912	5369	0	0	0	0	50	1	375879	1	1	
H1FX	948414	355	44	10185	3297	0	0	0	0	50	0	489356	1	1	
H2AFB1	NaN	NaN	NaN	16191	5859	0	0	0	0	50	2	785407	1	1	
H2AFB2	NaN	NaN	NaN	10794	3906	0	0	0	0	50	2	783454	1	1	
H2AFB3	494257	NaN	-7	16191	5859	0	0	0	0	50	0	414743	1	1	
H2AFJ	340728	578	-4	6062	2128	0	0	0	0	50	0	309561	1	1	
H2AFV	1200579	164	55	6895	2030	0	0	0	0	50	1	483973	1	1	
H2AFX	1390854	195	58	6636	2478	0	0	0	0	50	0	338107	1	1	
H2AFY	583238	414	41	20314	5852	0	0	0	0	50	0	563024	1	1	
H2AFY2	484729	425	25	18788	5383	0	0	0	0	50	0	429968	1	1	
H2AFZ	202808	682	36	6468	1995	0	0	0	0	50	0	414932	1	1	
H2BFM	NaN	NaN	NaN	7686	2289	0	0	0	0	50	2	781837	1	1	
H2BFWT	439642	NaN	30	8533	2765	0	0	0	0	50	2	398286	1	1	
H3F3A	866965	237	23	6748	2135	0	0	0	0	50	1	315637	1	1	
H3F3B	1885370	198	27	6748	2135	0	0	0	0	50	3	425740	1	1	

H3F3C	271605	394	20	6461	2149	0	0	0	0	50	0	397831	1	1	
H6PD	954202	297	33	38493	11739	0	0	0	0	50	0	428862	1	1	
HAAO	344647	338	34	14707	4172	0	0	0	0	50	1	388724	1	1	
HABP2	189589	596	2	29246	7126	0	0	0	0	50	0	410886	1	1	
HABP4	354931	349	36	20657	6013	0	0	0	0	50	0	420616	1	1	
HACE1	108074	924	-9	47117	12145	0	0	0	0	50	0	451808	1	1	
HACL1	433102	235	32	29862	7959	0	0	0	0	50	0	383614	1	1	
HADH	230614	771	21	16940	4648	0	0	0	0	50	0	445760	1	1	
HADHA	641003	274	38	38752	10976	0	0	0	0	50	0	395787	1	1	
HADHB	642780	250	34	24339	6846	0	0	0	0	50	0	348845	1	1	
HAGH	1604603	288	36	15498	4641	0	0	0	0	50	0	407358	1	1	
HAGHL	1207790	194	33	17374	5054	0	0	0	0	50	2	442589	1	1	
HAL	366272	436	8	33579	9555	0	0	0	0	50	0	387772	1	1	
HAMP	767246	472	7	4410	1197	0	0	0	0	50	0	322084	1	1	
HAND1	581156	416	29	10458	3234	0	0	0	0	50	1	397040	1	1	
HAND2	251136	719	-10	10654	3164	0	0	0	0	50	0	513744	1	1	
HAO1	67871	715	-23	18620	5383	0	0	0	0	50	1	406658	1	1	
HAO2	409405	720	3	17654	5110	0	0	0	0	50	0	386554	1	1	
HAP1	1617880	323	9	31360	9086	0	0	0	0	23	0	187278	1	1	
HAPLN1	220863	552	-9	17766	4935	0	0	0	0	50	0	435988	1	1	
HAPLN2	2049505	180	37	16576	5327	0	0	0	0	50	0	375088	1	1	
HAPLN3	562979	560	7	17668	5411	0	0	0	0	50	0	484743	1	1	
HAPLN4	940952	232	17	19159	6608	0	0	0	0	50	1	405944	1	1	
HARBI1	914919	176	39	17171	4963	0	0	0	0	50	1	431074	1	1	
HARS	774470	356	31	25774	7406	0	0	0	0	50	0	408716	1	1	
HARS2	774470	356	31	25725	7224	0	0	0	0	50	0	408716	1	1	
HAS1	436280	690	-24	27510	9345	0	0	0	0	50	0	325801	1	1	
HAS2	25994	485	-22	27622	7427	0	0	0	0	50	0	355831	1	1	
HAS3	1179391	201	24	28644	8778	0	0	0	0	50	0	433573	1	1	
HAT1	537965	177	33	22092	5250	0	0	0	0	50	0	423360	1	1	
HAUS1	396070	187	62	14588	3703	0	0	0	0	50	1	434665	1	1	
HAUS2	534369	269	40	12306	3066	0	0	0	0	50	0	382893	1	1	
HAUS3	836839	332	29	30786	7518	0	0	0	0	50	0	377552	1	1	
HAUS4	1240941	185	38	18823	4865	0	0	0	0	50	0	431368	1	1	
HAUS5	1162794	390	27	31556	9940	0	0	0	0	50	0	405559	1	1	
HAUS6	500417	324	-17	49273	12299	0	0	0	0	50	1	441924	1	1	
HAUS7	971101	NaN	7	18991	5012	0	0	0	0	50	1	270109	1	1	
HAUS8	945446	386	30	20860	5873	0	0	0	0	50	0	374178	1	1	
HAVCR1	138350	1207	11	18074	5593	0	0	0	0	50	0	413616	1	1	
HAVCR2	166999	1198	18	15197	4333	0	0	0	0	50	0	378595	1	1	
HAX1	1653296	236	29	14294	3850	0	0	0	0	50	0	451514	1	1	
HBA1	1267639	220	36	6965	2254	0	0	0	0	50	0	327943	1	1	
HBA2	1267639	220	36	6965	2254	0	0	0	0	50	0	327943	1	1	
HBB	109545	1056	-1	7287	2247	0	0	0	0	50	0	353857	1	1	
HBD	109545	1056	-1	7308	2184	0	0	0	0	50	0	353857	1	1	
HBE1	109545	1056	-1	7399	2093	0	0	0	0	50	0	353857	1	1	
HBEGF	683517	143	39	10388	3199	0	0	0	0	50	1	400491	1	1	
HBG1	109545	1056	-1	7427	2149	0	0	0	0	50	0	353857	1	1	
HBG2	109545	1056	-1	7434	2142	0	0	0	0	50	0	353857	1	1	
HBM	1267639	220	36	7021	2177	0	0	0	0	50	0	327943	1	1	

HBP1	249919	627	12	26649	6636	0	0	0	0	50	0	535815	1	1	
HBQ1	1267639	220	36	6853	2366	0	0	0	0	50	0	327943	1	1	
HBS1L	152992	353	26	59199	16275	0	0	0	0	50	0	394828	1	1	
HBXIP	403650	479	31	8631	2625	0	0	0	0	50	0	376180	1	1	
HBZ	1267639	220	36	6986	2233	0	0	0	0	50	0	327943	1	1	
HCCS	80480	NaN	30	13979	3472	0	0	0	0	50	1	439775	1	1	
HCFC1	2355024	NaN	25	97118	33250	0	0	0	0	50	0	601398	1	1	
HCFC1R1	1443513	234	49	6951	2184	0	0	0	0	50	0	372680	1	1	
HCFC2	1209623	156	26	39998	11158	0	0	0	0	50	0	433447	1	1	
HCK	1039298	386	21	27230	7147	0	0	0	0	50	0	444283	1	1	
HCLS1	289905	613	25	25088	6643	0	0	0	0	50	0	508011	1	1	
HCN1	80822	1235	-24	43911	12852	0	0	0	0	50	0	391860	1	1	
HCN2	1740226	218	1	42938	13762	0	0	0	0	39	0	373443	1	1	
HCN3	1574928	194	45	37016	12439	0	0	0	0	50	0	408905	1	1	
HCN4	314300	642	16	57197	19243	0	0	0	0	50	1	472451	1	1	
HCP5	NaN	NaN	NaN	2254	581	0	0	0	0	28	2	256837	1	1	
HCRT	2129732	206	30	6069	2415	0	0	0	0	50	1	435169	1	1	
HCRTR1	1061386	197	37	20804	6538	0	0	0	0	50	0	347186	1	1	
HCRTR2	27686	676	-13	22253	6286	0	0	0	0	50	2	551271	1	1	
HCST	1060028	321	47	4634	1540	0	0	0	0	50	0	379449	1	1	
HDAC1	1427362	210	43	25445	6118	0	0	0	0	50	0	506744	1	1	
HDAC10	944000	242	49	32956	10850	0	0	0	0	50	1	466228	1	1	
HDAC11	370030	199	39	17647	5159	0	0	0	0	50	0	426951	1	1	
HDAC2	217826	610	14	25886	6013	0	0	0	0	50	0	447048	1	1	
HDAC3	771583	353	25	22610	5635	0	0	0	0	50	0	452095	1	1	
HDAC4	66632	584	22	54481	15974	0	0	0	0	50	0	417536	1	1	
HDAC5	923807	171	32	56210	16702	0	0	0	0	50	0	447398	1	1	
HDAC6	823539	NaN	29	60501	18459	0	0	0	0	50	0	481992	1	1	
HDAC7	391157	182	29	49035	15561	0	0	0	0	50	0	458962	1	1	
HDAC8	366313	NaN	39	20853	5481	0	0	0	0	50	0	408275	1	1	
HDAC9	65395	684	-6	56707	15575	0	0	0	0	50	0	448770	1	1	
HDC	308338	282	4	33250	9443	0	0	0	0	50	1	493199	1	1	
HDDC2	155442	373	-19	10570	2765	0	0	0	0	50	0	431067	1	1	
HDDC3	NaN	NaN	NaN	7035	2142	0	0	0	0	50	2	781690	1	1	
HDGF	1649536	208	53	15834	4116	0	0	0	0	50	0	427007	1	1	
HDGFL1	11748	925	-14	12383	3493	0	0	0	0	50	2	472983	1	1	
HDGFRP2	2094827	278	40	34174	9548	0	0	0	0	50	0	418285	1	1	
HDGFRP3	299178	679	24	10654	2618	0	0	0	0	50	0	458437	1	1	
HDHD1A	55330	NaN	19	14595	4158	0	0	0	0	50	0	400855	1	1	
HDHD2	119441	561	-11	13174	3710	0	0	0	0	50	0	422044	1	1	
HDHD3	390186	297	36	11872	4004	0	0	0	0	50	0	381297	1	1	
HDLBP	1287793	317	29	64596	17535	0	0	0	0	50	0	441301	1	1	
HDX	20850	NaN	-20	35007	9240	0	0	0	0	50	1	391475	1	1	
HEATR1	461836	603	0	109592	29239	0	0	0	0	50	0	456169	1	1	
HEATR2	545367	390	14	41125	13895	0	0	0	0	50	0	434420	1	1	
HEATR3	276539	476	3	34503	9576	0	0	0	0	50	1	473592	1	1	
HEATR4	602175	149	42	49224	13776	0	0	0	0	50	0	381780	1	1	
HEATR5A	375544	154	20	87122	25858	0	0	0	0	50	1	517664	1	1	
HEATR5B	614688	281	16	102914	30562	0	0	0	0	50	1	378777	1	1	
HEATR6	972352	235	18	58870	17234	0	0	0	0	50	1	408422	1	1	

HEATR7A	2550138	210	26	83538	26166	0	0	0	0	50	0	523936	1	1	
HEATR7B2	211261	644	-5	82026	21378	0	0	0	0	50	0	512211	1	1	
HEBP1	701221	196	10	9590	2632	0	0	0	0	50	0	444752	1	1	
HEBP2	421773	590	19	10528	2702	0	0	0	0	50	0	426531	1	1	
HECA	202042	674	13	26817	7707	0	0	0	0	50	0	358715	1	1	
HECTD1	431156	164	26	131600	36421	0	0	0	0	17	0	143500	1	1	
HECTD2	288529	384	4	40747	10388	0	0	0	0	50	1	389851	1	1	
HECTD3	939872	310	20	43190	12838	0	0	0	0	50	0	388927	1	1	
HECW1	496063	617	13	81032	22561	0	0	0	0	50	1	367451	1	1	
HECW2	166718	447	13	79478	21973	0	0	0	0	50	0	413140	1	1	
HEG1	367509	177	50	67284	21168	0	0	0	0	29	0	213829	1	1	
HELB	237928	773	5	55174	14462	0	0	0	0	50	0	471849	1	1	
HELLS	251937	675	12	43967	10654	0	0	0	0	50	0	471716	1	1	
HELQ	330595	378	40	55986	14868	0	0	0	0	50	1	401065	1	1	
HELT	335039	582	29	15834	5061	0	0	0	0	50	1	451787	1	1	
HEMGN	467637	269	40	24703	6188	0	0	0	0	50	2	361599	1	1	
HEMK1	583785	302	50	17178	4977	0	0	0	0	50	0	344302	1	1	
HEPACAM	283718	743	13	20286	6489	0	0	0	0	50	1	442568	1	1	
HEPACAM2	311972	785	12	24262	6608	0	0	0	0	50	1	439250	1	1	
HEPH	282730	NaN	4	61628	16471	0	0	0	0	50	0	373786	1	1	
HEPHL1	363497	702	-19	59199	15477	0	0	0	0	50	0	316925	1	1	
HEPN1	175852	743	14	4368	1239	0	0	0	0	50	0	463652	1	1	
HERC1	706823	369	40	243033	69741	0	0	0	0	4	0	100506	1	1	
HERC2	219134	1011	-32	241969	70364	0	0	0	0	11	0	163478	1	1	
HERC3	219535	452	13	53935	14294	0	0	0	0	50	0	413420	1	1	
HERC4	337983	246	12	54418	14252	0	0	0	0	50	0	378567	1	1	
HERC5	442906	295	29	53011	13412	0	0	0	0	50	1	376768	1	1	
HERC6	434791	389	32	49371	12705	0	0	0	0	50	1	360388	1	1	
HERPUD1	820472	125	47	19768	5516	0	0	0	0	50	2	505169	1	1	
HERPUD2	189678	636	4	20706	5523	0	0	0	0	50	0	397033	1	1	
HES1	420702	294	33	13587	4368	0	0	0	0	50	0	408793	1	1	
HES2	643751	198	22	8260	2996	0	0	0	0	50	0	466641	1	1	
HES3	643428	205	30	9100	2975	0	0	0	0	50	1	310366	1	1	
HES4	1971475	239	15	11529	4347	0	0	0	0	50	1	501445	1	1	
HES5	339388	228	38	8253	2478	0	0	0	0	50	0	338716	1	1	
HES6	349323	252	28	10724	3703	0	0	0	0	50	1	604149	1	1	
HES7	1381225	202	37	10997	3850	0	0	0	0	50	0	554176	1	1	
HESX1	454806	389	37	9562	2408	0	0	0	0	50	0	420168	1	1	
HEXA	1126741	366	48	27111	7371	0	0	0	0	50	0	387086	1	1	
HEXB	356374	567	28	28518	7707	0	0	0	0	50	1	450044	1	1	
HEXDC	2591323	179	28	28861	9065	0	0	0	0	50	0	409150	1	1	
HEXIM1	806811	207	32	17647	5033	0	0	0	0	50	0	437472	1	1	
HEXIM2	806811	207	32	14035	4214	0	0	0	0	50	0	437472	1	1	
HEY1	147129	428	30	14959	4844	0	0	0	0	50	0	440335	1	1	
HEY2	229400	351	-5	16415	5215	0	0	0	0	50	0	444864	1	1	
HEYL	976856	358	33	15764	5341	0	0	0	0	50	0	400673	1	1	
HFE	408919	685	43	17703	4704	0	0	0	0	50	1	331940	1	1	
HFE2	NaN	NaN	NaN	20258	6895	0	0	0	0	50	2	786443	1	1	
HFM1	263616	615	-10	75292	18368	0	0	0	0	50	0	446474	1	1	
HGD	312906	391	5	23296	5894	0	0	0	0	50	1	414785	1	1	

HGF	57326	604	17	38248	9443	0	0	0	0	50	0	461321	1	1	
HGFAC	547964	412	46	32571	9933	0	0	0	0	50	0	442974	1	1	
HGSNAT	277447	559	6	32256	9282	0	0	0	0	50	1	449799	1	1	
HHAT	87459	754	1	26460	7602	0	0	0	0	50	1	471128	1	1	
HHATL	369022	329	34	25326	7455	0	0	0	0	50	0	394205	1	1	
HHEX	359162	317	17	13384	3983	0	0	0	0	50	1	484953	1	1	
HHIP	143634	1116	-6	35644	9527	0	0	0	0	50	0	388969	1	1	
HHIPL1	375738	250	21	39760	12362	0	0	0	0	50	1	422653	1	1	
HHIPL2	227631	467	-6	36043	10346	0	0	0	0	50	0	348089	1	1	
HHLA1	NaN	NaN	NaN	27335	7441	0	0	0	0	50	2	786989	1	1	
HHLA2	281982	859	7	21406	5411	0	0	0	0	50	0	424389	1	1	
HHLA3	296134	396	5	8281	1610	0	0	0	0	50	1	400855	1	1	
HIAT1	292450	530	4	24647	7210	0	0	0	0	50	0	463939	1	1	
HIATL1	229346	486	34	25382	7483	0	0	0	0	50	1	410697	1	1	
HIBADH	427440	372	10	16905	4914	0	0	0	0	50	0	562569	1	1	
HIBCH	499049	471	24	20433	5040	0	0	0	0	50	0	328811	1	1	
HIC1	1415256	294	27	34496	11830	0	0	0	0	50	0	423479	1	1	
HIC2	NaN	NaN	NaN	29841	9135	0	0	0	0	50	2	788683	1	1	
HIF1A	252998	315	30	42427	10850	0	0	0	0	50	1	344505	1	1	
HIF1AN	1127095	264	39	18165	4515	0	0	0	0	50	0	411096	1	1	
HIF3A	1079866	357	39	33537	10395	0	0	0	0	50	0	354466	1	1	
HIGD1A	369545	396	31	5670	1470	0	0	0	0	50	0	375858	1	1	
HIGD1B	1101543	172	28	5110	1442	0	0	0	0	50	0	340074	1	1	
HIGD1C	569122	220	40	5012	1309	0	0	0	0	50	0	392147	1	1	
HIGD2A	576954	347	45	5166	1701	0	0	0	0	50	0	411243	1	1	
HINFP	1324478	195	58	26656	6734	0	0	0	0	50	0	403564	1	1	
HINT1	310375	228	15	6370	1799	0	0	0	0	50	1	354389	1	1	
HINT2	847663	227	54	8106	2646	0	0	0	0	50	0	406126	1	1	
HINT3	150315	177	15	9352	2513	0	0	0	0	50	0	333186	1	1	
HIP1	785864	326	62	53641	14315	0	0	0	0	50	0	300230	1	1	
HIP1R	977561	184	37	54397	15596	0	0	0	0	50	0	445732	1	1	
HIPK1	350373	545	10	61334	18403	0	0	0	0	50	0	369320	1	1	
HIPK2	545030	522	37	59297	17416	0	0	0	0	50	0	548919	1	1	
HIPK3	545645	393	18	60998	16954	0	0	0	0	50	0	402829	1	1	
HIPK4	1006719	289	35	30121	9002	0	0	0	0	50	0	431389	1	1	
HIRA	611613	300	1	51282	14868	0	0	0	0	50	0	470834	1	1	
HIRIP3	NaN	NaN	NaN	27979	7616	0	0	0	0	50	2	787164	1	1	
HIST1H1A	408919	685	43	10304	3388	0	0	0	0	50	1	331940	1	1	
HIST1H1B	228884	634	40	10857	3528	0	0	0	0	50	0	291095	1	1	
HIST1H1C	408919	685	43	10206	3360	0	0	0	0	50	1	331940	1	1	
HIST1H1D	390169	544	57	10619	3451	0	0	0	0	50	1	272580	1	1	
HIST1H1E	398813	636	53	10500	3444	0	0	0	0	50	0	268163	1	1	
HIST1H1T	398813	636	53	10031	3157	0	0	0	0	50	0	268163	1	1	
HIST1H2AA	272695	635	29	6293	2107	0	0	0	0	50	0	339465	1	1	
HIST1H2AB	408919	685	43	6174	2121	0	0	0	0	50	1	331940	1	1	
HIST1H2AC	398813	636	53	6181	2156	0	0	0	0	50	0	268163	1	1	
HIST1H2AD	NaN	NaN	NaN	6188	2107	0	0	0	0	50	2	781655	1	1	
HIST1H2AE	390169	544	57	6146	2149	0	0	0	0	50	1	272580	1	1	
HIST1H2AG	227588	622	29	6167	2170	0	0	0	0	50	1	338366	1	1	
HIST1H2AH	227588	622	29	6027	2142	0	0	0	0	50	1	338366	1	1	

HIST1H2AI	267617	634	32	6167	2170	0	0	0	0	50	0	304892	1	1	
HIST1H2AJ	267617	634	32	6020	2149	0	0	0	0	50	0	304892	1	1	
HIST1H2AK	228884	634	40	6153	2142	0	0	0	0	50	0	291095	1	1	
HIST1H2AL	228884	634	40	6160	2177	0	0	0	0	50	0	291095	1	1	
HIST1H2AM	228884	634	40	6188	2149	0	0	0	0	50	0	291095	1	1	
HIST1H2BA	272695	635	29	6251	1855	0	0	0	0	50	0	339465	1	1	
HIST1H2BB	408919	685	43	6153	1890	0	0	0	0	50	1	331940	1	1	
HIST1H2BC	398813	636	53	6146	1897	0	0	0	0	50	0	268163	1	1	
HIST1H2BD	398813	636	53	6272	1897	0	0	0	0	50	0	268163	1	1	
HIST1H2BE	398813	636	53	6146	1897	0	0	0	0	50	0	268163	1	1	
HIST1H2BF	394491	544	55	6139	1904	0	0	0	0	50	1	270851	1	1	
HIST1H2BG	390169	544	57	6167	1897	0	0	0	0	50	1	272580	1	1	
HIST1H2BH	390169	544	57	6139	1904	0	0	0	0	50	1	272580	1	1	
HIST1H2BI	390169	544	57	6139	1904	0	0	0	0	50	1	272580	1	1	
HIST1H2BJ	227588	622	29	6202	1883	0	0	0	0	50	1	338366	1	1	
HIST1H2BK	227588	622	29	6237	1890	0	0	0	0	50	1	338366	1	1	
HIST1H2BL	267617	634	32	6195	1890	0	0	0	0	50	0	304892	1	1	
HIST1H2BM	267617	634	32	6181	1862	0	0	0	0	50	0	304892	1	1	
HIST1H2BN	228884	634	40	6146	1897	0	0	0	0	50	0	291095	1	1	
HIST1H2BO	228884	634	40	6195	1890	0	0	0	0	50	0	291095	1	1	
HIST1H3A	408919	685	43	6517	2156	0	0	0	0	50	1	331940	1	1	
HIST1H3B	408919	685	43	6510	2163	0	0	0	0	50	1	331940	1	1	
HIST1H3C	408919	685	43	6496	2177	0	0	0	0	50	1	331940	1	1	
HIST1H3D	398813	636	53	6552	2205	0	0	0	0	50	0	268163	1	1	
HIST1H3E	390169	544	57	6510	2163	0	0	0	0	50	1	272580	1	1	
HIST1H3F	390169	544	57	6545	2170	0	0	0	0	50	1	272580	1	1	
HIST1H3G	390169	544	57	6510	2163	0	0	0	0	50	1	272580	1	1	
HIST1H3H	267617	634	32	6552	2163	0	0	0	0	50	0	304892	1	1	
HIST1H3I	228884	634	40	6517	2198	0	0	0	0	50	0	291095	1	1	
HIST1H3J	228884	634	40	6503	2170	0	0	0	0	50	0	291095	1	1	
HIST1H4A	408919	685	43	4907	1687	0	0	0	0	50	1	331940	1	1	
HIST1H4B	408919	685	43	4886	1708	0	0	0	0	50	1	331940	1	1	
HIST1H4C	398813	636	53	4907	1687	0	0	0	0	50	0	268163	1	1	
HIST1H4D	398813	636	53	4907	1687	0	0	0	0	50	0	268163	1	1	
HIST1H4E	390169	544	57	4879	1715	0	0	0	0	50	1	272580	1	1	
HIST1H4F	390169	544	57	4914	1680	0	0	0	0	50	1	272580	1	1	
HIST1H4G	390169	544	57	4732	1547	0	0	0	0	50	1	272580	1	1	
HIST1H4H	390169	544	57	4893	1701	0	0	0	0	50	1	272580	1	1	
HIST1H4I	227588	622	29	4893	1701	0	0	0	0	50	1	338366	1	1	
HIST1H4J	267617	634	32	4893	1701	0	0	0	0	50	0	304892	1	1	
HIST1H4K	267617	634	32	4893	1701	0	0	0	0	50	0	304892	1	1	
HIST1H4L	228884	634	40	4914	1701	0	0	0	0	50	0	291095	1	1	
HIST2H2AA3	NaN	NaN	NaN	12432	4242	0	0	0	0	50	2	783790	1	1	
HIST2H2AA4	NaN	NaN	NaN	12432	4242	0	0	0	0	50	2	783790	1	1	
HIST2H2AB	798975	560	17	6153	2142	0	0	0	0	50	1	450401	1	1	
HIST2H2AC	798975	560	17	6132	2100	0	0	0	0	50	1	450401	1	1	
HIST2H2BE	798975	560	17	6146	1897	0	0	0	0	50	1	450401	1	1	
HIST2H2BF	462959	519	19	13237	4004	0	0	0	0	50	0	445368	1	1	
HIST2H3A	NaN	NaN	NaN	12978	4452	0	0	0	0	50	2	784000	1	1	
HIST2H3C	NaN	NaN	NaN	12978	4452	0	0	0	0	50	2	784000	1	1	

HIST2H3D	681585	560	28	6412	2177	0	0	0	0	50	1	469672	1	1	
HIST2H4A	NaN	NaN	NaN	9884	3388	0	0	0	0	50	2	782936	1	1	
HIST2H4B	NaN	NaN	NaN	9884	3388	0	0	0	0	50	2	782936	1	1	
HIST3H2A	626588	351	7	6188	2149	0	0	0	0	30	0	298508	1	1	
HIST3H2BB	626588	351	7	6181	1904	0	0	0	0	30	0	298508	1	1	
HIST3H3	626588	351	7	6489	2184	0	0	0	0	30	0	298508	1	1	
HIST4H4	340728	578	-4	4907	1729	0	0	0	0	50	0	309561	1	1	
HIVEP1	210548	453	33	132860	39046	0	0	0	0	50	0	515368	1	1	
HIVEP2	248800	596	25	120141	34440	0	0	0	0	50	1	463225	1	1	
HIVEP3	190045	457	27	115017	37044	0	0	0	0	50	0	346661	1	1	
HJURP	301500	439	13	37401	10500	0	0	0	0	50	0	389683	1	1	
HK1	712074	229	47	49518	13608	0	0	0	0	50	2	435015	1	1	
HK2	707060	470	21	46312	12950	0	0	0	0	50	1	371833	1	1	
HK3	1129866	222	54	45297	14427	0	0	0	0	50	0	513926	1	1	
HKDC1	726042	168	42	46186	13076	0	0	0	0	50	2	408079	1	1	
HKR1	228816	939	-63	32977	8939	0	0	0	0	50	0	360108	1	1	
HLA-A	983517	596	36	18403	5285	0	0	0	0	50	0	360780	1	1	
HLA-B	2552688	347	28	18179	5320	0	0	0	0	50	0	580265	1	1	
HLA-C	3244502	401	38	18347	5404	0	0	0	0	50	0	308588	1	1	
HLA-DMA	1276842	431	40	13160	3724	0	0	0	0	50	2	417214	1	1	
HLA-DMB	1276842	431	40	13216	3836	0	0	0	0	50	2	417214	1	1	
HLA-DOA	1276842	431	40	12376	3815	0	0	0	0	50	2	417214	1	1	
HLA-DOB	1373102	417	37	13783	3941	0	0	0	0	50	1	390628	1	1	
HLA-DPA1	1479000	431	28	13083	3738	0	0	0	0	50	0	352023	1	1	
HLA-DPB1	1479000	431	28	13006	3773	0	0	0	0	50	0	352023	1	1	
HLA-DQA1	1292851	535	17	12810	3696	0	0	0	0	50	0	400673	1	1	
HLA-DQA2	1373102	417	37	12866	3640	0	0	0	0	50	1	390628	1	1	
HLA-DQB1	1292851	535	17	13097	3787	0	0	0	0	50	0	400673	1	1	
HLA-DRA	1070559	595	14	12803	3640	0	0	0	0	50	1	446733	1	1	
HLA-DRB1	1074109	595	29	13426	3857	0	0	0	0	50	1	356804	1	1	
HLA-DRB5	1070559	595	14	13510	3773	0	0	0	0	50	1	446733	1	1	
HLA-E	2019724	424	30	18067	5180	0	0	0	0	50	0	383789	1	1	
HLA-F	484408	755	34	22253	6307	0	0	0	0	50	0	358834	1	1	
HLA-G	514408	685	38	16961	4900	0	0	0	0	50	1	369894	1	1	
HLCS	425948	486	61	36134	10339	0	0	0	0	50	1	274351	1	1	
HLF	147479	526	-54	14742	4158	0	0	0	0	50	1	331303	1	1	
HLTF	369132	386	8	52542	13188	0	0	0	0	50	0	476273	1	1	
HLX	177316	564	-2	23541	7518	0	0	1	0	50	1	412160	1	1	
HM13	741997	309	-33	22694	6706	0	0	0	0	50	1	442365	1	1	
HMBOX1	382811	465	40	21693	5586	0	0	0	0	50	0	463008	1	1	
HMBS	1390854	195	58	18557	5341	0	0	0	0	50	0	338107	1	1	
HMCN1	260400	509	-19	284354	79618	0	0	1	0	50	1	470862	1	1	
HMG20A	341694	645	30	18109	4571	0	0	0	0	50	0	470008	1	1	
HMG20B	2160126	269	39	16296	4494	0	0	0	0	50	0	428631	1	1	
HMGA1	1074764	233	36	5607	1533	0	0	0	0	50	0	331247	1	1	
HMGA2	274514	562	-6	6895	1925	0	0	0	0	50	0	370587	1	1	
HMGB1	243134	295	82	11431	2513	0	0	0	0	50	2	399021	1	1	
HMGB2	249666	413	23	11081	2485	0	0	0	0	50	0	362775	1	1	
HMGB3	226983	NaN	-8	10605	2394	0	0	0	0	50	0	527940	1	1	
HMGB4	131426	852	9	9394	2429	0	0	0	0	50	0	413609	1	1	

HMGCL	903441	254	32	16352	4900	0	0	0	0	50	2	357042	1	1	
HMGCLL1	28261	691	-14	18788	5341	0	0	0	0	50	2	542171	1	1	
HMGCR	357296	490	17	45115	12488	0	0	0	0	50	1	487249	1	1	
HMGCS1	504216	449	20	26390	7189	0	0	0	0	50	0	340529	1	1	
HMGCS2	420500	581	22	25452	7413	0	0	0	0	50	0	446957	1	1	
HMGN1	383982	346	44	5432	1351	0	0	0	0	50	1	420763	1	1	
HMGN2	1003175	167	31	4949	1204	0	0	0	0	50	0	383586	1	1	
HMGN3	233858	624	0	5446	1274	0	0	0	0	50	0	391146	1	1	
HMGN4	426020	498	34	4501	1316	0	0	0	0	50	0	357448	1	1	
HMGN5	141842	NaN	-22	15085	3164	0	0	0	0	50	0	434644	1	1	
HMGXB3	NaN	NaN	NaN	63973	19082	0	0	0	0	50	2	798630	1	1	
HMGXB4	359646	425	-49	30380	8386	0	0	0	0	50	0	377664	1	1	
HMHA1	2387949	206	26	56469	17010	0	0	0	0	50	0	637042	1	1	
HMHB1	142005	404	33	2184	546	0	0	0	0	18	0	137032	1	1	
HMMR	225981	603	11	38437	8729	0	0	0	0	50	1	403088	1	1	
HMOX1	364892	241	2	14308	4277	0	0	0	0	50	2	451941	1	1	
HMOX2	751633	160	39	16156	4235	0	0	0	0	50	1	343014	1	1	
HMP19	101001	533	23	8701	2471	0	0	0	0	50	0	383593	1	1	
HMSD	114875	671	26	7224	1848	0	0	0	0	50	0	386547	1	1	
HMX2	213809	769	0	13139	4207	0	0	0	0	50	0	389711	1	1	
HMX3	237830	708	23	16835	5782	0	0	0	0	16	0	157360	1	1	
HN1	1511891	168	25	10262	1939	0	0	0	0	50	0	366898	1	1	
HN1L	1591571	320	37	9646	2765	0	0	0	0	50	0	415100	1	1	
HNF1A	1225663	380	40	30863	9751	0	0	0	0	50	1	351155	1	1	
HNF1B	553994	403	28	28042	7784	0	0	0	0	50	1	367045	1	1	
HNF4A	769430	376	16	26838	7623	0	0	0	0	50	0	415275	1	1	
HNF4G	47353	914	7	23114	5782	0	0	0	0	50	0	502236	1	1	
HNMT	82611	496	-3	18774	4599	0	0	0	0	50	0	452606	1	1	
HNRNPA0	427110	409	28	14532	4746	0	0	0	0	50	0	519722	1	1	
HNRNPA1	753625	205	59	19334	5005	0	0	0	0	50	1	392749	1	1	
HNRNPA1L2	324687	462	32	15890	4417	0	0	0	0	50	2	376362	1	1	
HNRNPA2B1	915230	445	43	18585	4641	0	0	0	0	50	0	455077	1	1	
HNRNPA3	374611	145	30	19509	5208	0	0	0	0	50	1	419146	1	1	
HNRNPAB	672705	448	46	17262	4389	0	0	0	0	50	2	500318	1	1	
HNRNPC	730651	357	37	15806	4123	0	0	0	0	50	0	463162	1	1	
HNRNPCL1	NaN	NaN	NaN	14672	3934	0	0	0	0	50	2	783482	1	1	
HNRNPD	651473	390	26	18417	4683	0	0	0	0	50	2	483938	1	1	
HNRNPF	368953	270	7	20580	5712	0	0	0	0	50	0	486514	1	1	
HNRNPH1	1600541	229	28	23548	5852	0	0	0	0	50	0	415016	1	1	
HNRNPH2	374364	NaN	37	22337	6097	0	0	0	0	50	1	424025	1	1	
HNRNPH3	615189	250	20	17969	4648	0	0	0	0	50	0	383516	1	1	
HNRNPK	460176	343	2	24584	6664	0	0	0	0	50	0	369432	1	1	
HNRNPL	1989663	219	30	29778	8442	0	0	0	0	50	1	429506	1	1	
HNRNPM	726124	214	1	37233	10122	0	0	0	0	50	0	441532	1	1	
HNRNPR	1032187	163	25	32326	8645	0	0	0	0	50	0	416934	1	1	
HNRNPU	695318	417	6	42217	10913	0	0	0	0	50	0	324170	1	1	
HNRNPUL2	2425755	248	51	37884	10332	0	0	0	0	50	0	393407	1	1	
HNRPDL	684394	387	46	21238	5873	0	0	0	0	50	1	432796	1	1	
HNRPLL	859042	294	24	27923	7567	0	0	0	0	50	0	458360	1	1	
HOMER1	177305	593	37	18305	4732	0	0	0	0	50	0	345779	1	1	

HOMER2	457445	683	24	18375	4662	0	0	0	0	50	1	427322	1	1	
HOMER3	1390116	198	20	18088	5474	0	0	0	0	50	0	374535	1	1	
HOMEZ	1171456	330	20	26768	8029	0	0	0	0	50	0	425824	1	1	
HOOK1	59567	747	-3	38724	8967	0	0	0	0	50	0	494312	1	1	
HOOK2	1959466	226	29	36736	10472	0	0	0	0	50	2	460684	1	1	
HOOK3	478917	475	25	38024	9037	0	0	0	0	50	0	479010	1	1	
HOPX	597691	572	16	7007	1855	0	0	0	0	50	0	398559	1	1	
HORMAD1	1611525	178	42	21098	4963	0	0	0	0	50	0	407890	1	1	
HORMAD2	655208	178	30	16401	3843	0	0	0	0	50	2	319256	1	1	
HOXA1	356045	385	28	16772	4522	0	0	0	0	50	1	446572	1	1	
HOXA10	473864	394	13	19670	6601	0	0	0	0	50	0	503846	1	1	
HOXA11	473864	394	13	15246	4662	0	0	0	0	50	0	503846	1	1	
HOXA13	473864	394	13	18550	6083	0	0	0	0	50	0	503846	1	1	
HOXA2	356045	385	28	18396	5439	0	0	0	0	50	1	446572	1	1	
HOXA3	356045	385	28	21140	6916	0	0	0	0	50	1	446572	1	1	
HOXA4	356045	385	28	15267	5082	0	0	0	0	50	1	446572	1	1	
HOXA5	356045	385	28	13426	3773	0	0	0	0	50	1	446572	1	1	
HOXA6	356045	385	28	11585	3241	0	0	0	0	50	1	446572	1	1	
HOXA7	356045	385	28	11347	3290	0	0	0	0	50	1	446572	1	1	
HOXA9	473864	394	13	13272	4053	0	0	0	0	50	0	503846	1	1	
HOXB1	946208	524	29	14623	4571	0	0	0	0	50	1	345373	1	1	
HOXB13	727820	415	24	13685	4354	0	0	0	0	50	0	582337	1	1	
HOXB2	946208	524	29	16898	5677	0	0	0	0	50	1	345373	1	1	
HOXB3	946208	524	29	20664	6636	0	0	0	0	50	1	345373	1	1	
HOXB4	946208	524	29	12131	3871	0	0	0	0	50	1	345373	1	1	
HOXB5	946208	524	29	13223	3913	0	0	0	0	50	1	345373	1	1	
HOXB6	946208	524	29	11088	3255	0	0	0	0	50	1	345373	1	1	
HOXB7	946208	524	29	10738	3101	0	0	0	0	50	1	345373	1	1	
HOXB8	946208	524	29	12047	3409	0	0	0	0	50	1	345373	1	1	
HOXB9	909944	509	28	12320	3577	0	0	0	0	50	0	347501	1	1	
HOXC10	1257445	274	23	16940	4795	0	0	0	0	50	0	440580	1	1	
HOXC11	1257445	274	23	14749	4550	0	0	0	0	50	0	440580	1	1	
HOXC12	1257445	274	23	13426	4445	0	0	0	0	50	0	440580	1	1	
HOXC13	1257445	274	23	15890	5047	0	0	0	0	50	0	440580	1	1	
HOXC4	1185281	279	54	13174	3731	0	0	0	0	50	0	379120	1	1	
HOXC5	1185281	279	54	11130	3045	0	0	0	0	50	0	379120	1	1	
HOXC6	1185281	279	54	11669	3283	0	0	0	0	50	0	379120	1	1	
HOXC8	1185281	279	54	12208	3185	0	0	0	0	50	0	379120	1	1	
HOXC9	1257445	274	23	12789	3780	0	0	0	0	50	0	440580	1	1	
HOXD1	245316	874	13	15533	5278	0	0	0	0	50	0	353402	1	1	
HOXD10	242935	874	15	17045	4564	0	0	0	0	50	1	383033	1	1	
HOXD11	242935	874	15	16247	5194	0	0	0	0	50	1	383033	1	1	
HOXD12	242935	874	15	12866	4291	0	0	0	0	50	1	383033	1	1	
HOXD13	242935	874	15	16450	5348	0	0	0	0	50	1	383033	1	1	
HOXD3	245316	874	13	20937	6510	0	0	0	0	50	0	353402	1	1	
HOXD4	245316	874	13	12348	3864	0	0	0	0	50	0	353402	1	1	
HOXD8	242935	874	15	14245	4172	0	0	0	0	50	1	383033	1	1	
HOXD9	242935	874	15	16800	5565	0	0	0	0	50	1	383033	1	1	
HP	438866	372	19	20699	5488	0	0	0	0	50	0	413091	1	1	
HP1BP3	641625	206	30	28175	7735	0	0	0	0	50	1	319711	1	1	

HPCA	1019374	232	15	9989	2485	0	0	0	0	50	1	415233	1	1	
HPCAL1	732179	270	44	9975	2499	0	0	0	0	50	1	413014	1	1	
HPCAL4	974845	388	36	9961	2387	0	0	0	0	50	0	329504	1	1	
HPD	829168	195	44	20699	5320	0	0	0	0	50	0	383572	1	1	
HPDL	1010538	355	28	17227	6209	0	0	0	0	50	0	375760	1	1	
HPGD	62916	536	-11	13930	3395	0	0	0	0	50	3	496244	1	1	
HPGDS	129148	311	14	10521	2499	0	0	0	0	50	0	351757	1	1	
HPN	738570	419	-34	21014	6328	0	0	0	0	50	0	381451	1	1	
HPR	426658	372	14	17605	4760	0	0	0	0	50	0	454300	1	1	
HPRT1	270801	NaN	45	11578	2891	0	0	0	0	50	2	455469	1	1	
HPS1	127652	581	10	35854	10535	0	0	0	0	50	0	437577	1	1	
HPS3	382046	386	7	50855	13804	0	0	0	0	50	0	477316	1	1	
HPS4	163136	553	-46	35539	10640	0	0	0	0	50	1	398195	1	1	
HPS5	601817	252	37	57617	15421	0	0	0	0	50	0	456589	1	1	
HPS6	1018634	187	38	35441	13489	0	0	0	0	50	0	418922	1	1	
HPSE	335397	224	27	27482	7882	0	0	0	0	50	0	526764	1	1	
HPSE2	147172	933	2	30303	8862	0	0	0	0	50	1	386813	1	1	
HPX	424837	471	17	23485	6482	0	0	0	0	50	0	399931	1	1	
HR	584373	219	34	58044	18438	0	0	0	0	50	0	419412	1	1	
HRAS	1970020	236	42	10815	3024	0	0	0	0	50	0	398356	1	1	
HRASLS	141065	851	-4	8526	2331	0	0	0	0	50	2	373198	1	1	
HRASLS2	854193	303	56	7987	2576	0	0	0	0	50	0	324961	1	1	
HRASLS5	887496	459	31	14378	3682	0	0	0	0	50	0	443387	1	1	
HRC	2011861	267	47	36211	8351	0	0	0	0	50	0	405790	1	1	
HRCT1	853975	298	55	5446	1904	0	0	0	0	50	0	337911	1	1	
HRG	508316	436	45	26558	7126	0	0	0	0	50	1	550095	1	1	
HRH1	181134	226	35	24003	6825	0	0	0	0	50	0	380107	1	1	
HRH2	238233	642	19	19089	6111	0	0	0	0	50	0	345863	1	1	
HRH3	861466	288	-13	21105	7161	0	0	0	0	50	1	378336	1	1	
HRH4	144714	390	16	19390	5453	0	0	0	0	50	0	345037	1	1	
HRK	NaN	NaN	NaN	4256	1624	0	0	0	0	31	2	345107	1	1	
HRNBP3	NaN	NaN	NaN	15960	4683	0	0	0	0	50	2	784231	1	1	
HRNR	486922	468	25	134729	45052	0	0	0	0	6	0	98336	1	1	
HRSP12	635159	368	44	7147	2009	0	0	0	0	50	0	444934	1	1	
HS1BP3	580167	278	28	19558	5747	0	0	0	0	50	1	387933	1	1	
HS2ST1	332598	515	0	18445	4592	0	0	0	0	50	0	427042	1	1	
HS3ST1	74823	1201	3	14938	4466	0	0	0	0	50	1	434133	1	1	
HS3ST2	432670	708	14	17626	5684	0	0	0	0	50	0	419825	1	1	
HS3ST3A1	116063	727	-76	19313	6412	0	0	0	0	50	0	430591	1	1	
HS3ST3B1	92906	944	-54	18683	6034	0	0	0	0	50	0	327285	1	1	
HS3ST4	36636	1012	-35	21847	7028	0	0	0	0	50	0	472360	1	1	
HS3ST5	217498	675	-8	17143	4844	0	0	0	0	50	0	634893	1	1	
HS3ST6	1766472	214	39	14602	5138	0	0	0	0	50	0	474901	1	1	
HS6ST1	406221	635	24	19964	6118	0	0	0	0	50	0	409360	1	1	
HS6ST2	126179	NaN	16	25186	6818	0	0	0	0	50	0	475776	1	1	
HS6ST3	105227	954	-3	23324	6538	0	0	0	0	50	0	413371	1	1	
HSBP1	298486	673	-13	4221	924	0	0	0	0	27	0	149639	1	1	
HSBP1L1	NaN	NaN	NaN	3990	987	0	0	0	0	31	2	344470	1	1	
HSCB	571394	219	-10	12299	3031	0	0	0	0	50	1	449022	1	1	
HSD11B1	219540	222	15	14987	4018	0	0	0	0	50	1	335468	1	1	

HSD11B1L	879991	295	21	18109	5894	0	0	0	0	50	0	396795	1	1	
HSD11B2	1115833	153	42	19250	6664	0	0	0	0	50	0	471989	1	1	
HSD17B1	1884163	177	38	15827	5320	0	0	0	0	50	0	468503	1	1	
HSD17B10	920771	NaN	70	12817	4151	0	0	0	0	50	0	408415	1	1	
HSD17B11	502611	417	16	15092	4375	0	0	0	0	50	0	346416	1	1	
HSD17B12	432669	791	0	16121	4438	0	0	0	0	50	0	388542	1	1	
HSD17B13	474615	417	8	15218	4291	0	0	0	0	50	1	539770	1	1	
HSD17B14	1766061	211	34	13363	4382	0	0	0	0	50	1	399812	1	1	
HSD17B2	192405	635	2	19362	5460	0	0	0	0	50	0	405853	1	1	
HSD17B3	293976	504	20	16030	4445	0	0	0	0	50	0	437808	1	1	
HSD17B4	302141	472	27	38024	10339	0	0	0	0	50	1	370216	1	1	
HSD17B6	2637730	154	47	15813	4557	0	0	0	0	50	1	531489	1	1	
HSD17B7	336864	396	12	17444	4816	0	0	0	0	50	0	492254	1	1	
HSD17B8	1474628	377	24	13111	4109	0	0	0	0	50	0	463036	1	1	
HSD3B1	422140	672	7	18529	5285	0	0	0	0	50	0	362061	1	1	
HSD3B2	409405	720	3	18445	5306	0	0	0	0	50	0	386554	1	1	
HSDL1	550248	435	13	16562	4627	0	0	0	0	50	0	397341	1	1	
HSDL2	458381	341	17	21833	5446	0	0	0	0	50	0	382991	1	1	
HSF1	2525749	200	28	26586	7812	0	0	0	0	50	0	514801	1	1	
HSF2	140855	973	-19	27839	7000	0	0	0	0	50	1	451535	1	1	
HSF2BP	878395	518	73	17101	4592	0	0	0	0	50	0	431760	1	1	
HSF4	1101399	150	46	25312	7049	0	0	0	0	50	0	364280	1	1	
HSF5	818916	384	23	29225	8806	0	0	0	0	50	0	546728	1	1	
HSFX1	NaN	NaN	NaN	41300	12460	0	0	0	0	50	2	792008	1	1	
HSFX2	NaN	NaN	NaN	41300	12460	0	0	0	0	50	2	792008	1	1	
HSFY1	NaN	NaN	NaN	43246	11984	0	0	0	0	50	2	791532	1	1	
HSFY2	NaN	NaN	NaN	43246	11984	0	0	0	0	50	2	791532	1	1	
HSH2D	761374	298	42	17339	5320	0	0	0	0	50	1	369691	1	1	
HSP90AA1	1488666	145	41	43764	11025	0	0	0	0	50	0	578333	1	1	
HSP90AB1	1037256	312	54	37142	9415	0	0	0	0	50	0	388717	1	1	
HSP90B1	1190703	281	40	41699	10381	0	0	0	0	50	0	523873	1	1	
HSPA12A	198263	480	-15	33831	9681	0	0	0	0	50	0	416017	1	1	
HSPA12B	860065	241	43	33656	10633	0	0	0	0	50	0	472983	1	1	
HSPA13	155439	938	7	23464	6650	0	0	0	0	50	0	372183	1	1	
HSPA14	255871	306	35	25942	7280	0	0	0	0	50	0	380534	1	1	
HSPA1A	2509866	183	32	30947	9499	0	0	0	0	50	0	441721	1	1	
HSPA1B	2509866	183	32	30947	9499	0	0	0	0	50	0	441721	1	1	
HSPA1L	2509866	183	32	31192	9338	0	0	0	0	50	0	441721	1	1	
HSPA2	662511	188	36	30968	9352	0	0	0	0	50	2	444906	1	1	
HSPA4	637803	223	39	43638	10857	0	0	0	0	50	1	495873	1	1	
HSPA4L	222085	352	31	43785	10647	0	0	0	0	50	2	375256	1	1	
HSPA5	953574	153	47	32473	9380	0	0	0	0	50	0	441679	1	1	
HSPA6	741254	448	41	30926	9646	0	0	0	0	50	1	443037	1	1	
HSPA8	709511	307	8	32382	9051	0	0	0	0	50	0	508522	1	1	
HSPA9	1188562	205	52	34496	9688	0	0	0	0	50	1	447643	1	1	
HSPB1	850568	195	53	9954	3192	0	0	0	0	50	1	418684	1	1	
HSPB11	467936	174	27	7763	1834	0	0	0	0	50	1	444346	1	1	
HSPB2	437513	221	22	8729	2926	0	0	0	0	50	1	366919	1	1	
HSPB3	61471	617	14	7280	2233	0	0	0	0	50	0	445263	1	1	
HSPB6	1151198	321	30	7623	2730	0	0	0	0	50	0	375571	1	1	

HSPB7	886121	197	43	8344	2597	0	0	0	0	50	0	395206	1	1	
HSPB8	139110	779	3	9681	2898	0	0	0	0	50	1	384216	1	1	
HSPB9	2171374	206	37	7644	2478	0	0	0	0	50	0	350637	1	1	
HSPBAP1	424676	412	39	24948	6447	0	0	0	0	50	1	453768	1	1	
HSPBP1	1035412	209	5	17710	5558	0	0	0	0	50	1	338198	1	1	
HSPC159	336405	452	17	8820	2415	0	0	0	0	50	1	424382	1	1	
HSPD1	681973	428	29	28847	8239	0	0	0	0	50	1	379785	1	1	
HSPE1	681973	428	29	5215	1526	0	0	0	0	50	1	379785	1	1	
HSPG2	481189	179	27	217539	67263	0	0	0	0	1	0	69097	1	1	
HSPH1	194024	518	35	44401	11144	0	0	1	0	50	1	383152	1	1	
HTATIP2	168576	547	-6	15575	4585	0	0	0	0	50	0	394275	1	1	
HTATSF1	374989	NaN	23	39193	9191	0	0	0	0	50	0	453327	1	1	
HTN1	59679	975	3	3437	637	0	0	0	0	23	0	177030	1	1	
HTN3	34716	965	-1	3101	595	0	0	0	0	19	0	158536	1	1	
HTR1A	3636	1003	-20	20090	6538	0	0	0	0	50	0	417298	1	1	
HTR1B	11897	1123	-35	18543	6090	0	0	0	0	50	0	389900	1	1	
HTR1D	956630	169	10	17913	5901	0	0	0	0	50	1	394723	1	1	
HTR1E	169399	752	-17	17745	5313	0	0	0	0	50	0	434700	1	1	
HTR1F	123008	898	-19	18004	5201	0	0	0	0	50	0	439096	1	1	
HTR2A	129425	885	34	26131	7175	0	0	0	0	50	1	470106	1	1	
HTR2B	NaN	NaN	NaN	23548	6986	0	0	0	0	50	2	786534	1	1	
HTR2C	23811	NaN	-5	22680	6573	0	0	0	0	50	0	352345	1	1	
HTR3A	175442	586	1	26047	7658	0	0	0	0	50	0	408352	1	1	
HTR3B	182706	555	9	22463	6097	0	0	0	0	50	1	451045	1	1	
HTR3C	1423268	375	38	22582	6356	0	0	0	0	50	1	403186	1	1	
HTR3D	1423268	375	38	25438	7427	0	0	0	0	50	1	403186	1	1	
HTR3E	1453689	334	42	23562	6762	0	0	0	0	50	2	509187	1	1	
HTR4	89834	578	10	24290	6895	0	0	0	0	50	0	473718	1	1	
HTR5A	186338	603	-1	17199	5481	0	0	0	0	50	0	377104	1	1	
HTR6	776287	266	32	20363	7588	0	0	0	0	50	0	430234	1	1	
HTR7	98852	510	-4	23709	6888	0	0	0	0	50	0	447111	1	1	
HTRA1	252955	279	5	23569	7406	0	0	0	0	50	0	425369	1	1	
HTRA2	1019591	315	50	21707	7798	0	0	0	0	50	0	429359	1	1	
HTRA3	170889	242	52	22253	7021	0	0	0	0	50	1	339829	1	1	
HTRA4	421614	428	42	23359	7364	0	0	0	0	50	1	440979	1	1	
HTT	661693	464	41	157997	45556	0	0	0	0	17	0	195552	1	1	
HUNK	341416	624	12	35560	10325	0	0	0	0	50	1	356769	1	1	
HUS1	147364	445	21	14721	3570	0	0	0	0	50	0	406154	1	1	
HUS1B	138359	674	23	13202	4417	0	0	0	0	50	0	398153	1	1	
HUWE1	888642	NaN	47	219352	63077	0	0	0	0	18	0	214438	1	1	
HVCN1	827901	194	41	13993	3773	0	0	0	0	50	0	361655	1	1	
HYAL1	843769	206	51	21224	6496	0	0	0	0	50	0	402556	1	1	
HYAL2	843769	206	51	22981	7133	0	0	0	0	50	0	402556	1	1	
HYAL3	843769	206	51	20188	6398	0	0	0	0	50	0	402556	1	1	
HYAL4	87602	443	-10	24052	6566	0	0	0	0	50	1	460355	1	1	
HYDIN	592186	723	1	258944	71113	0	0	0	0	2	0	85141	1	1	
HYI	1044061	239	35	13937	4207	0	0	0	0	50	0	364154	1	1	
HYLS1	NaN	NaN	NaN	14714	4270	0	0	0	0	50	2	783818	1	1	
HYOU1	1390854	195	58	50911	14189	0	0	0	0	50	0	338107	1	1	
IAH1	691902	278	38	12621	3528	0	0	0	0	50	0	445046	1	1	

IAPP	NaN	NaN	NaN	4494	1344	0	0	0	0	31	2	344827	1	1	
IARS	521598	409	42	65163	17178	0	0	0	0	50	1	506744	1	1	
IARS2	651419	613	-1	51821	13846	0	0	0	0	50	1	514668	1	1	
IBSP	423426	538	1	16506	4032	0	0	0	0	50	0	492142	1	1	
IBTK	124946	466	-1	69412	18158	0	0	0	0	50	0	380065	1	1	
ICA1	176442	544	19	25494	6174	0	0	0	0	50	0	380352	1	1	
ICA1L	600089	387	25	25431	6258	0	0	0	0	50	2	409766	1	1	
ICAM2	1455216	404	25	13636	4088	0	0	0	0	50	0	367892	1	1	
ICAM3	1802015	191	21	26628	8484	0	0	0	0	50	2	507017	1	1	
ICAM4	1729517	200	31	16338	3003	0	0	0	0	50	0	472304	1	1	
ICAM5	1802015	191	21	43771	15386	0	0	0	0	50	2	507017	1	1	
ICK	463740	386	22	32067	8820	0	0	0	0	50	0	444003	1	1	
ICMT	627248	240	31	13951	4382	0	0	0	0	50	1	361984	1	1	
ICOS	122253	693	5	10444	2534	0	0	0	0	50	1	466788	1	1	
ICOSLG	1128093	219	76	15365	4228	0	0	0	0	50	0	403158	1	1	
ICT1	1111289	171	31	10689	2814	0	0	0	0	50	0	340879	1	1	
ID1	741997	309	-33	7777	2639	0	0	0	0	50	1	442365	1	1	
ID2	215150	559	11	6797	1876	0	0	0	0	50	0	452207	1	1	
ID3	1050775	159	32	5831	1897	0	0	0	0	50	0	358603	1	1	
ID4	111172	864	-23	7672	2702	0	0	0	0	50	0	441567	1	1	
IDE	363888	236	23	53172	13146	0	0	0	0	50	1	386995	1	1	
IDH1	260367	539	17	21441	5376	0	0	0	0	50	1	452088	1	1	
IDH2	851518	192	38	23121	6300	0	0	0	0	50	1	360199	1	1	
IDH3A	395288	314	50	18900	5103	0	0	0	0	50	1	412902	1	1	
IDH3B	792941	450	48	22386	6258	0	0	0	0	50	2	500423	1	1	
IDH3G	2103463	NaN	30	20979	6132	0	0	0	0	50	1	411677	1	1	
IDI1	338115	407	30	14532	3759	0	0	0	0	50	0	433685	1	1	
IDI2	338115	407	30	11627	3073	0	0	0	0	50	0	433685	1	1	
IDO1	11280	520	7	20685	5523	0	0	0	0	50	0	441595	1	1	
IDO2	11054	414	0	21441	5922	0	0	0	0	50	0	412783	1	1	
IDS	179393	NaN	3	28133	7882	0	0	0	0	50	0	411285	1	1	
IDUA	675007	256	45	31969	10367	0	0	0	0	50	2	418131	1	1	
IER2	1948449	221	41	10521	3591	0	0	0	0	50	0	421708	1	1	
IER3	2199534	167	44	7364	2653	0	0	0	0	50	0	410144	1	1	
IER3IP1	148377	504	8	4186	1253	0	0	0	0	50	0	448077	1	1	
IER5	201966	253	23	15344	5320	0	0	0	0	50	0	376908	1	1	
IER5L	1452033	257	39	18970	6545	0	0	0	0	50	0	451584	1	1	
IFFO1	2764720	179	42	27972	8358	0	0	0	0	50	1	509985	1	1	
IFFO2	NaN	NaN	NaN	25928	7378	0	0	0	0	50	2	786926	1	1	
IFI16	97615	866	7	37191	9639	0	0	0	0	50	0	391755	1	1	
IFI27	200295	605	47	5894	2002	0	0	0	0	50	0	378406	1	1	
IFI27L1	200295	605	47	5299	1736	0	0	0	0	50	0	378406	1	1	
IFI27L2	200295	605	47	6433	2156	0	0	0	0	50	0	378406	1	1	
IFI30	1249693	226	42	12691	3668	0	0	0	0	50	0	469602	1	1	
IFI35	1507064	201	26	14315	4396	0	0	0	0	50	0	346423	1	1	
IFI44	85210	732	-5	22645	6062	0	0	0	0	50	0	468020	1	1	
IFI44L	161560	636	-13	23240	5971	0	0	0	0	50	0	410949	1	1	
IFI6	732210	217	24	7098	1995	0	0	0	0	50	0	519526	1	1	
IFIH1	70837	712	12	52710	13188	0	0	0	0	50	0	475517	1	1	
IFIT1	253827	213	17	24087	6174	0	0	0	0	50	1	318577	1	1	

IFIT1B	253827	213	17	23828	6223	0	0	0	0	50	1	318577	1	1	
IFIT2	253000	263	27	23786	6097	0	0	0	0	50	0	385350	1	1	
IFIT3	253413	213	22	24822	6342	0	0	0	0	50	1	418873	1	1	
IFIT5	253827	213	17	24143	6370	0	0	0	0	50	1	318577	1	1	
IFITM1	1454043	344	48	6167	1855	0	0	0	0	50	1	572572	1	1	
IFITM3	1454043	344	48	6566	2002	0	0	0	0	50	1	572572	1	1	
IFITM5	1463610	437	24	6307	2198	0	0	0	0	50	0	358533	1	1	
IFLTD1	200328	517	1	22624	5852	0	0	0	0	50	0	415464	1	1	
IFNA1	242654	411	-6	9436	2576	0	0	0	0	50	0	384867	1	1	
IFNA10	193208	498	-3	9401	2611	0	0	0	0	50	0	360759	1	1	
IFNA13	232155	466	-14	9541	2576	0	0	0	0	50	0	361522	1	1	
IFNA14	193208	498	-3	9611	2401	0	0	0	0	50	0	360759	1	1	
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IFNA2	232155	466	-14	9408	2541	0	0	0	0	50	0	361522	1	1	
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IFNA4	137739	498	1	9422	2590	0	0	0	0	50	1	348432	1	1	
IFNA5	232155	466	-14	9555	2499	0	0	0	0	50	0	361522	1	1	
IFNA6	232155	466	-14	9401	2527	0	0	0	0	50	0	361522	1	1	
IFNA7	193208	498	-3	9471	2541	0	0	0	0	50	0	360759	1	1	
IFNA8	242654	411	-6	9464	2548	0	0	0	0	50	0	384867	1	1	
IFNAR1	857199	179	81	28847	7147	0	0	0	0	50	0	404831	1	1	
IFNAR2	861800	317	87	29085	7539	0	0	0	0	50	0	447153	1	1	
IFNB1	144026	601	5	9492	2394	0	0	0	0	50	1	365904	1	1	
IFNE	242654	411	-6	10437	2730	0	0	0	0	50	0	384867	1	1	
IFNG	268405	717	-2	8764	2009	0	0	0	0	50	0	443751	1	1	
IFNGR1	117339	309	35	24759	6636	0	0	0	0	50	0	384342	1	1	
IFNGR2	868693	182	68	16968	4830	0	0	0	0	50	1	353024	1	1	
IFNK	NaN	NaN	NaN	10759	2450	0	0	0	0	50	2	781998	1	1	
IFNW1	137739	498	1	9611	2737	0	0	0	0	50	1	348432	1	1	
IFRD1	166238	412	-4	23303	6097	0	0	0	0	50	0	390012	1	1	
IFRD2	843769	206	51	24871	8036	0	0	0	0	50	0	402556	1	1	
IFT122	848687	163	58	66626	17458	0	0	0	0	50	1	411152	1	1	
IFT140	1366033	256	35	73990	20615	0	0	0	0	50	1	520058	1	1	
IFT172	1218835	179	39	90076	24206	0	0	0	0	50	0	415191	1	1	
IFT20	1405196	214	10	7770	2079	0	0	0	0	50	0	442414	1	1	
IFT27	1235005	537	19	9702	2583	0	0	0	0	50	1	374367	1	1	
IFT46	1359480	167	47	18774	4578	0	0	0	0	50	0	451073	1	1	
IFT52	370278	303	11	22897	5789	0	0	0	0	50	0	437934	1	1	
IFT57	289544	711	11	22309	5621	0	0	0	0	50	0	374759	1	1	
IFT74	116568	447	-12	33460	7406	0	0	0	0	50	0	469336	1	1	
IFT80	427333	617	9	40474	10136	0	0	0	0	50	1	393414	1	1	
IFT81	1034390	181	52	37667	8806	0	0	0	0	50	1	381682	1	1	
IFT88	399247	434	27	44128	10598	0	0	0	0	50	0	433622	1	1	
IGBP1	166319	NaN	1	17402	4438	0	0	0	0	50	0	485387	1	1	
IGDCC3	646843	280	40	39466	12971	0	0	0	0	50	1	406322	1	1	
IGDCC4	642731	280	45	60844	19565	0	0	0	0	50	1	419818	1	1	
IGF1	186749	752	-3	11431	2828	0	0	0	0	50	0	427280	1	1	
IGF1R	203046	470	-27	69146	18760	0	0	0	0	50	0	483357	1	1	
IGF2	837088	579	38	11648	3619	0	0	0	0	50	0	380058	1	1	

IGF2BP1	820571	174	28	29498	8092	0	0	0	0	50	0	375109	1	1	
IGF2BP2	928734	367	38	30639	8463	0	0	0	0	50	0	405853	1	1	
IGF2BP3	494999	197	26	29505	8211	0	0	0	0	50	0	468419	1	1	
IGF2R	653159	460	18	126630	34314	0	0	0	0	50	1	358274	1	1	
IGFALS	1604603	288	36	29946	10752	0	0	0	0	50	0	407358	1	1	
IGFBP1	146330	623	8	12824	3808	0	0	0	0	50	1	402213	1	1	
IGFBP2	582017	536	19	15610	5180	0	0	0	0	50	0	340844	1	1	
IGFBP3	146330	623	8	14637	4473	0	0	0	0	50	1	402213	1	1	
IGFBP4	1202660	149	21	12698	3871	0	0	0	0	50	0	366380	1	1	
IGFBP5	573046	620	16	13580	3871	0	0	0	0	50	0	410494	1	1	
IGFBP6	1726226	177	38	11606	3871	0	0	0	0	50	1	433209	1	1	
IGFBP7	544216	314	32	13755	4452	0	0	0	0	50	0	425425	1	1	
IGFBPL1	234360	688	16	13300	4655	0	0	0	0	50	0	364616	1	1	
IGFL1	1150094	196	22	5845	1442	0	0	0	0	50	0	393652	1	1	
IGFL2	1177162	249	28	7161	1827	0	0	0	0	50	1	353885	1	1	
IGFL3	1177162	249	28	6510	1722	0	0	0	0	50	1	353885	1	1	
IGFL4	997099	261	31	6510	1659	0	0	0	0	50	1	439803	1	1	
IGFN1	572258	333	23	180383	55216	0	0	0	0	50	0	455476	1	1	
IGHMBP2	575839	253	48	48832	15008	0	0	0	0	50	1	408198	1	1	
IGJ	262444	609	19	8197	2135	0	0	0	0	50	0	416864	1	1	
IGLL1	604420	399	31	10591	3059	0	0	0	0	50	1	367465	1	1	
IGLL5	223193	631	29	10409	3304	0	0	0	0	50	0	312389	1	1	
IGLON5	368509	610	-9	16485	5334	0	0	0	0	50	0	281603	1	1	
IGSF1	42910	NaN	15	68271	19131	0	0	0	0	50	0	383467	1	1	
IGSF10	36173	606	6	128695	38045	0	0	0	0	50	0	549178	1	1	
IGSF11	197243	714	3	22162	6713	0	0	0	0	50	0	472864	1	1	
IGSF21	55390	692	31	23037	7203	0	0	0	0	50	1	418341	1	1	
IGSF22	616892	562	25	66843	18606	0	0	0	0	50	0	418614	1	1	
IGSF3	691376	359	23	60032	17353	0	0	0	0	50	0	513758	1	1	
IGSF5	285788	762	-70	20685	5712	0	0	0	0	50	1	440440	1	1	
IGSF6	NaN	NaN	NaN	12278	3430	0	0	0	0	50	2	782978	1	1	
IGSF8	829863	386	17	28840	10346	0	0	0	0	50	0	420231	1	1	
IGSF9	807549	310	10	56784	19152	0	0	0	0	50	0	486136	1	1	
IGSF9B	270106	534	-8	65737	20909	0	0	0	0	50	0	436933	1	1	
IHH	823105	324	37	19593	6573	0	0	0	0	50	0	440720	1	1	
IK	774470	356	31	29799	6951	0	0	0	0	50	0	408716	1	1	
IKBIP	488021	461	18	31661	8239	0	0	0	0	50	0	358155	1	1	
IKBKAP	336944	471	9	69118	17885	0	0	0	0	50	0	392119	1	1	
IKBKB	514464	361	44	39291	10164	0	0	0	0	50	1	367416	1	1	
IKBKE	504324	300	4	36477	10374	0	0	0	0	50	0	499618	1	1	
IKBKG	2163759	NaN	42	24983	6559	0	0	0	0	50	0	434609	1	1	
IKZF1	160478	NaN	37	26467	6881	0	0	0	0	50	0	314412	1	1	
IKZF2	55860	1226	19	27258	6531	0	0	0	0	50	0	375620	1	1	
IKZF3	1607516	292	26	26439	6321	0	0	0	0	50	1	375739	1	1	
IKZF4	2693176	215	38	28994	8512	0	0	0	0	50	1	356629	1	1	
IKZF5	274189	673	11	21210	5544	0	0	0	0	50	0	370468	1	1	
IL10	464449	357	29	9317	2338	0	0	0	0	50	1	380786	1	1	
IL10RA	581910	576	49	28525	8498	0	0	0	0	50	0	342692	1	1	
IL10RB	861800	317	87	16835	4249	0	0	0	0	50	0	447153	1	1	
IL11	1028808	209	19	9191	3745	0	0	0	0	50	1	357784	1	1	

IL11RA	731413	298	51	21028	6671	0	0	0	0	50	0	319746	1	1	
IL12A	422983	616	22	12943	3563	0	0	0	0	50	0	312207	1	1	
IL12B	129528	415	27	16933	4298	0	0	0	0	50	0	395899	1	1	
IL12RB1	1291557	226	34	35588	10276	0	0	0	0	50	2	366121	1	1	
IL12RB2	454381	466	-4	43736	11893	0	0	0	0	50	0	441168	1	1	
IL13	717582	349	30	7378	2177	0	0	0	0	50	1	385462	1	1	
IL13RA1	221322	NaN	44	22414	5432	0	0	0	0	50	0	490903	1	1	
IL13RA2	166070	NaN	19	19950	4809	0	0	0	0	50	0	307188	1	1	
IL15	74660	679	5	8771	2002	0	0	0	0	50	1	466935	1	1	
IL15RA	650283	305	32	13174	4214	0	0	0	0	50	1	549759	1	1	
IL16	251183	742	17	65415	20097	0	0	0	0	50	1	437941	1	1	
IL17A	313277	556	11	7693	2345	0	0	0	0	50	0	392910	1	1	
IL17B	422727	380	28	9023	2632	0	0	0	0	50	1	380310	1	1	
IL17C	802673	189	41	9443	3241	0	0	0	0	50	0	408009	1	1	
IL17D	385825	434	29	9555	3402	0	0	0	0	50	0	436527	1	1	
IL17F	313097	427	23	8162	2380	0	0	0	0	50	0	432068	1	1	
IL17RA	183789	639	-103	42742	12887	0	0	0	0	50	0	415366	1	1	
IL17RB	475623	578	42	25669	6902	0	0	0	0	50	2	409045	1	1	
IL17RC	950574	170	54	39172	12278	0	0	0	0	50	1	396298	1	1	
IL17RD	426285	332	37	37352	10318	0	0	0	0	50	0	380156	1	1	
IL17RE	950574	170	54	33019	10409	0	0	0	0	50	1	396298	1	1	
IL17REL	895187	271	36	17157	5082	0	0	0	0	50	1	534877	1	1	
IL18	389593	362	2	10374	2268	0	0	0	0	50	0	351330	1	1	
IL18BP	747702	311	59	10640	2800	0	0	0	0	50	0	326704	1	1	
IL18R1	235438	588	7	27895	7049	0	0	0	0	50	2	461629	1	1	
IL18RAP	230715	671	4	30611	8029	0	0	0	0	50	0	380478	1	1	
IL19	466144	357	34	11193	2877	0	0	0	0	50	0	345023	1	1	
IL1A	578617	298	38	14098	3542	0	0	0	0	50	0	363223	1	1	
IL1B	578617	298	38	14091	3423	0	0	0	0	50	0	363223	1	1	
IL1F10	672307	479	25	7847	2128	0	0	0	0	50	0	410466	1	1	
IL1F5	672307	479	25	7889	2275	0	0	0	0	50	0	410466	1	1	
IL1F6	611416	469	33	8092	2135	0	0	0	0	50	1	518833	1	1	
IL1F7	590466	420	46	12586	3080	0	0	0	0	50	0	477407	1	1	
IL1F8	641862	469	29	12327	3003	0	0	0	0	50	1	445711	1	1	
IL1F9	611416	469	33	8708	2338	0	0	0	0	50	1	518833	1	1	
IL1R1	232947	522	20	29372	7378	0	0	0	0	50	0	424683	1	1	
IL1R2	215759	556	12	20181	5670	0	0	0	0	50	0	439502	1	1	
IL1RAP	139316	398	0	41279	11032	0	0	0	0	50	1	469952	1	1	
IL1RAPL1	11003	NaN	14	35581	9212	0	0	0	0	50	0	463421	1	1	
IL1RAPL2	17392	NaN	-4	35147	8974	0	0	0	0	50	0	358645	1	1	
IL1RL1	240161	588	9	28749	7413	0	0	0	0	50	1	455553	1	1	
IL1RL2	238921	541	8	29491	7721	0	0	0	0	50	1	491834	1	1	
IL1RN	672307	479	25	10521	2646	0	0	0	0	50	0	410466	1	1	
IL2	227942	612	-14	7917	2079	0	0	0	0	50	0	358008	1	1	
IL20	467839	385	39	9093	2436	0	0	0	0	50	0	445522	1	1	
IL20RA	133090	449	24	27685	7721	0	0	0	0	50	0	368088	1	1	
IL20RB	137627	421	9	15820	4340	0	0	0	0	50	0	397733	1	1	
IL21	126588	388	2	8554	2135	0	0	0	0	50	1	420714	1	1	
IL21R	228256	597	36	26733	7896	0	0	0	0	50	0	380786	1	1	
IL22	383435	623	12	9219	2499	0	0	0	0	50	1	393337	1	1	

IL22RA1	812508	235	33	28063	8708	0	0	0	0	50	0	374122	1	1	
IL22RA2	124672	436	50	13895	3241	0	0	0	0	50	0	492555	1	1	
IL23A	2869106	184	52	9387	2835	0	0	0	0	50	1	498204	1	1	
IL23R	453952	581	-4	32445	8085	0	0	0	0	50	0	383243	1	1	
IL24	467839	385	39	11270	2296	0	0	0	0	50	0	445522	1	1	
IL25	1220624	456	31	8953	2576	0	0	0	0	50	1	489685	1	1	
IL26	325920	623	5	9044	2170	0	0	0	0	50	0	431732	1	1	
IL27	1133167	269	63	11837	3913	0	0	0	0	50	0	411068	1	1	
IL27RA	1013197	231	32	31486	9737	0	0	0	0	50	1	423822	1	1	
IL28A	1838894	286	29	10003	3164	0	0	0	0	50	1	453474	1	1	
IL28B	1838894	286	29	9590	3178	0	0	0	0	50	1	453474	1	1	
IL28RA	840519	235	31	25991	7378	0	0	0	0	50	0	451066	1	1	
IL29	1838894	286	29	9800	3241	0	0	0	0	50	1	453474	1	1	
IL2RA	613453	373	40	14371	3416	0	0	0	0	50	0	513408	1	1	
IL2RB	668971	289	53	27272	8260	0	0	0	0	50	0	340032	1	1	
IL2RG	759088	NaN	27	18928	5012	0	0	0	0	50	0	509495	1	1	
IL3	365169	484	35	7833	2184	0	0	0	0	50	0	356629	1	1	
IL31	NaN	NaN	NaN	8225	2380	0	0	0	0	50	2	781928	1	1	
IL31RA	319744	438	44	39221	10234	0	0	1	0	50	2	473641	1	1	
IL32	1626425	234	44	10045	2492	0	0	0	0	50	0	445522	1	1	
IL33	355118	432	5	14294	3325	0	0	0	0	50	0	325619	1	1	
IL34	884849	184	33	12166	3563	0	0	0	0	50	0	479689	1	1	
IL3RA	NaN	NaN	NaN	20202	5313	0	0	0	0	50	2	784861	1	1	
IL4	717412	356	59	7854	2142	0	0	0	0	50	0	338380	1	1	
IL4I1	1676173	205	41	29197	8918	0	0	0	0	50	0	479444	1	1	
IL4R	227872	560	25	41188	11942	0	0	0	0	50	0	365701	1	1	
IL5	713465	320	66	6867	1932	0	0	0	0	50	0	388241	1	1	
IL5RA	59117	1039	-15	22197	5670	0	0	0	0	50	1	401100	1	1	
IL6	948251	304	14	10759	2996	0	0	0	0	50	0	395612	1	1	
IL6R	1724679	319	39	23464	6839	0	0	0	0	50	0	387695	1	1	
IL6ST	317374	438	51	47068	12089	0	0	0	0	50	0	460740	1	1	
IL7	52129	920	6	9443	2191	0	0	0	0	29	0	229320	1	1	
IL7R	139461	511	5	23464	6146	0	0	0	0	50	1	356783	1	1	
IL8	273344	444	13	5229	1365	0	0	0	0	50	0	362614	1	1	
IL9	489402	443	19	7546	1967	0	0	0	0	50	0	320915	1	1	
IL9R	NaN	NaN	NaN	26040	7518	0	0	0	0	50	2	787066	1	1	
ILDR1	524127	715	38	25074	7119	0	0	0	0	50	1	365876	1	1	
ILDR2	261602	681	-9	31983	9135	0	0	0	0	50	0	508984	1	1	
ILF2	1656449	183	40	20132	5635	0	0	0	0	50	0	418439	1	1	
ILF3	2128709	224	33	46396	13265	0	0	0	0	50	0	379141	1	1	
ILK	424523	491	17	23478	6153	0	0	0	0	50	0	443625	1	1	
ILKAP	388991	248	29	20251	5432	0	0	0	0	50	1	541835	1	1	
ILVBL	703673	419	1	31073	10066	0	0	0	0	50	0	347760	1	1	
IMMP1L	124843	916	-4	8701	2282	0	0	0	0	50	0	358764	1	1	
IMMP2L	67842	871	-7	9044	2464	0	0	0	0	50	0	569800	1	1	
IMMT	872251	420	42	38178	10815	0	0	0	0	50	0	354165	1	1	
IMP3	586224	231	34	8722	2933	0	0	0	0	50	0	387065	1	1	
IMP4	369510	593	29	14714	4396	0	0	0	0	50	2	412419	1	1	
IMP5	369065	563	15	32459	10738	0	0	0	0	50	1	502355	1	1	
IMPA1	160074	681	-1	18018	3969	0	0	0	0	50	0	380009	1	1	

IMPA2	336901	181	48	14406	4389	0	0	0	0	50	1	349293	1	1	
IMPACT	144714	390	16	17115	3948	0	0	0	0	50	0	345037	1	1	
IMPAD1	137667	562	-5	17731	5285	0	0	0	0	50	1	400456	1	1	
IMPDH1	902782	246	34	30422	9058	0	0	1	0	50	2	398811	1	1	
IMPDH2	1799657	241	41	26306	7315	0	0	0	0	50	0	446040	1	1	
IMPG1	187724	674	-13	40866	10752	0	0	0	0	50	0	552608	1	1	
IMPG2	656520	580	-4	62902	16856	0	0	0	0	50	0	453425	1	1	
INA	522257	125	41	23933	7777	0	0	0	0	50	1	333732	1	1	
INADL	274287	469	-3	91637	25417	0	0	0	0	50	0	367913	1	1	
INCA1	1407967	231	28	12082	3353	0	0	0	0	50	0	427476	1	1	
INCENP	2712305	253	52	46137	13272	0	0	0	0	50	0	536221	1	1	
INF2	651235	241	21	61614	19656	0	0	0	0	50	0	367647	1	1	
ING1	560003	274	51	22848	6909	0	0	0	0	50	0	327565	1	1	
ING2	204597	227	15	14294	3493	0	0	0	0	50	0	332024	1	1	
ING3	105792	514	7	22043	5572	0	0	0	0	50	0	423073	1	1	
ING4	2816983	210	61	13440	2940	0	0	0	0	50	0	502565	1	1	
ING5	1323203	406	32	12705	3108	0	0	0	0	50	1	411649	1	1	
INHBA	42008	671	-27	21126	5859	0	0	0	0	50	1	362677	1	1	
INHBB	218512	446	15	19502	6328	0	0	0	0	50	0	431123	1	1	
INHBC	1347802	194	32	16891	5432	0	0	0	0	50	0	409360	1	1	
INHBE	1347802	194	32	16499	5698	0	0	0	0	50	0	409360	1	1	
INMT	463251	489	22	12964	3878	0	0	0	0	50	0	445172	1	1	
INO80	950881	181	41	79744	21287	0	0	0	0	3	0	40733	1	1	
INO80B	1069803	343	45	17241	5670	0	0	0	0	50	0	390285	1	1	
INO80C	368170	474	38	11606	3325	0	0	0	0	50	0	377377	1	1	
INO80D	290764	492	23	50666	14854	0	0	0	0	50	0	455826	1	1	
INO80E	NaN	NaN	NaN	12166	3857	0	0	0	0	50	2	783405	1	1	
INPP1	682366	401	33	19971	5649	0	0	0	0	50	0	387996	1	1	
INPP4A	212473	623	41	52759	14693	0	0	0	0	50	0	309540	1	1	
INPP4B	51592	807	10	47936	12187	0	0	0	0	50	0	449596	1	1	
INPP5A	155331	452	12	22001	5362	0	0	0	0	50	0	440160	1	1	
INPP5B	445083	232	38	47404	12110	0	0	0	0	50	0	364861	1	1	
INPP5D	430468	259	37	52395	14427	0	0	0	0	50	0	339857	1	1	
INPP5E	1413299	233	44	31304	10087	0	0	0	0	50	0	463337	1	1	
INPP5F	656842	199	43	57960	15015	0	0	0	0	50	0	418628	1	1	
INPP5J	731144	218	40	31941	9366	0	0	0	0	50	0	493983	1	1	
INPP5K	1371893	220	24	22995	6216	0	0	0	0	50	0	451010	1	1	
INPPL1	744547	182	58	62503	19082	0	0	1	0	50	1	370783	1	1	
INS	NaN	NaN	NaN	5446	1757	0	0	0	0	50	2	781305	1	1	
INS-IGF2	837088	579	38	9730	3269	0	0	0	0	50	0	380058	1	1	
INSC	161776	781	-17	29015	8575	0	0	0	0	50	0	435183	1	1	
INSIG1	263493	NaN	14	16982	4375	0	0	0	0	50	0	417543	1	1	
INSIG2	190880	537	8	11326	3248	0	0	0	0	50	1	508795	1	1	
INSL3	1216364	212	37	6279	2163	0	0	0	0	50	1	345779	1	1	
INSL4	372067	616	20	6839	2107	0	0	0	0	50	0	372491	1	1	
INSL5	335045	692	-16	6860	1834	0	0	0	0	50	0	351554	1	1	
INSL6	351963	629	20	10759	2891	0	0	0	0	50	0	397313	1	1	
INSM1	226483	808	-9	23632	8561	0	0	0	0	50	1	398916	1	1	
INSM2	313860	434	11	26271	9450	0	0	0	0	50	0	426979	1	1	
INSR	558979	505	21	69391	19502	0	0	0	0	50	0	324233	1	1	

INSRR	NaN	NaN	NaN	64596	19572	0	0	0	0	50	2	799120	1	1	
INTS1	595899	243	38	108507	33474	0	0	0	0	50	0	434630	1	1	
INTS10	207502	242	10	36925	9212	0	0	0	0	50	0	404719	1	1	
INTS12	293906	417	3	22967	6727	0	0	0	0	50	1	416521	1	1	
INTS2	350722	380	2	61257	16716	0	0	0	0	50	0	366401	1	1	
INTS3	1687837	175	33	53795	14350	0	0	0	0	50	1	385364	1	1	
INTS4	577731	361	32	49070	13552	0	0	0	0	50	1	505673	1	1	
INTS5	2425755	248	51	47187	17199	0	0	0	0	50	0	393407	1	1	
INTS6	219283	371	38	45409	12110	0	0	0	0	50	0	354690	1	1	
INTS7	469325	370	16	48902	13363	0	0	0	0	50	0	369978	1	1	
INTS8	430887	389	38	51660	13272	0	0	0	0	50	0	446509	1	1	
INTS9	396951	403	42	33621	9366	0	0	0	0	50	1	468090	1	1	
INTU	211890	437	-11	47691	12999	0	0	0	0	50	0	369306	1	1	
INVS	246802	735	19	53613	14889	0	0	0	0	50	0	448476	1	1	
IP6K1	1429151	191	43	22029	6153	0	0	0	0	50	0	558705	1	1	
IP6K2	1646019	212	45	30912	8358	0	0	0	0	50	0	466214	1	1	
IP6K3	1558308	328	34	20496	5733	0	0	0	0	50	0	370629	1	1	
IPCEF1	100494	765	9	23345	5635	0	0	0	0	50	0	532854	1	1	
IPMK	153476	357	-28	21140	5551	0	0	0	0	50	0	396781	1	1	
IPO11	176850	735	18	52976	13468	0	0	0	0	50	0	416990	1	1	
IPO13	875223	214	39	48251	14077	0	0	0	0	50	1	391258	1	1	
IPO4	974559	220	41	53991	16611	0	0	0	0	50	2	483035	1	1	
IPO5	496805	532	2	57918	14658	0	0	0	0	50	0	446712	1	1	
IPO7	566709	145	21	54180	13293	0	0	0	0	50	0	372848	1	1	
IPO8	239796	580	-19	53886	13524	0	0	0	0	50	0	392217	1	1	
IPO9	764022	208	26	52920	14700	0	0	0	0	50	0	507990	1	1	
IPP	972928	146	29	31402	8267	0	0	0	0	50	0	446523	1	1	
IPPK	587288	484	46	25319	6685	0	0	0	0	50	1	481544	1	1	
IQCA1	112916	599	11	42651	10710	0	0	0	0	50	0	404642	1	1	
IQCB1	371177	520	32	30877	7952	0	0	0	0	50	0	419328	1	1	
IQCC	1460758	218	29	27083	7756	0	0	0	0	50	0	426384	1	1	
IQCD	417427	252	35	17381	4711	0	0	0	0	50	0	378322	1	1	
IQCE	777967	226	44	35462	10150	0	0	0	0	50	1	477729	1	1	
IQCF1	1013177	370	39	10360	2954	0	0	0	0	50	0	388584	1	1	
IQCF2	849777	453	39	8386	2261	0	0	0	0	50	0	357847	1	1	
IQCF5	NaN	NaN	NaN	7567	1988	0	0	0	0	50	2	781536	1	1	
IQCF6	NaN	NaN	NaN	5334	1554	0	0	0	0	31	2	345037	1	1	
IQCG	612221	410	33	23366	5446	0	0	0	0	50	1	391055	1	1	
IQCH	275948	360	31	54719	14413	0	0	0	0	50	3	376061	1	1	
IQCJ	170382	930	-11	8967	2415	0	0	0	0	50	0	433419	1	1	
IQCK	289773	639	13	14987	3829	0	0	0	0	50	1	540351	1	1	
IQGAP1	1142649	150	37	85498	22106	0	0	0	0	50	1	521766	1	1	
IQGAP2	229166	675	34	81487	20741	0	0	0	0	50	0	436464	1	1	
IQGAP3	2095354	166	39	82369	23597	0	0	0	0	50	0	426034	1	1	
IQSEC1	516922	406	48	56504	17290	0	0	0	0	50	0	501438	1	1	
IQSEC2	886836	NaN	77	74326	23387	0	0	0	0	50	0	445137	1	1	
IQSEC3	241073	592	27	58688	18592	0	0	0	0	50	1	445676	1	1	
IQUB	89539	779	-21	40733	10171	0	0	0	0	50	0	388556	1	1	
IRAK1	2355024	NaN	25	34986	11067	0	0	0	0	50	0	601398	1	1	
IRAK1BP1	198307	832	-13	12964	3731	0	0	0	0	50	0	480095	1	1	

IRAK2	744536	224	49	31514	8974	0	0	0	0	50	1	403564	1	1	
IRAK3	239871	696	4	30737	7840	0	0	0	0	50	0	424431	1	1	
IRAK4	132735	558	-16	23912	6055	0	0	0	0	50	1	481873	1	1	
IREB2	506215	435	33	48986	13510	0	0	0	0	50	0	356902	1	1	
IRF1	713465	320	66	17045	4249	0	0	0	0	50	0	388241	1	1	
IRF2	207866	400	55	18102	4620	0	0	0	0	50	0	404523	1	1	
IRF2BP1	883734	203	39	27202	9653	0	0	0	0	50	1	387730	1	1	
IRF2BP2	503819	149	31	27769	9401	0	0	0	0	50	1	406238	1	1	
IRF3	1733181	195	36	21161	6433	0	0	0	0	50	1	446607	1	1	
IRF4	208360	631	48	23037	6111	0	0	0	0	50	0	343084	1	1	
IRF5	845100	361	49	25564	7553	0	0	1	0	11	1	111398	1	1	
IRF6	220312	429	18	23786	6286	0	0	0	0	50	0	428169	1	1	
IRF7	1774224	236	57	25480	8267	0	0	0	0	50	0	351330	1	1	
IRF8	407770	461	27	21609	5943	0	0	0	0	50	0	504231	1	1	
IRF9	974559	220	41	19880	5593	0	0	0	0	50	2	483035	1	1	
IRGC	452493	192	-2	21917	7441	0	0	0	0	50	2	405692	1	1	
IRGM	NaN	NaN	NaN	8876	2548	0	0	0	0	50	2	782096	1	1	
IRGQ	428891	209	-2	28455	11025	0	0	0	0	50	2	422499	1	1	
IRS1	146164	493	-3	59451	18984	0	0	0	0	50	0	437731	1	1	
IRS2	217826	438	4	62461	21980	0	0	0	0	50	0	416899	1	1	
IRS4	110759	NaN	29	60060	19278	0	0	0	0	50	1	526911	1	1	
IRX1	7226	1155	-24	22932	7665	0	0	0	0	50	0	398937	1	1	
IRX2	18983	986	-29	22638	7434	0	0	0	0	50	0	449708	1	1	
IRX3	99177	509	-42	23681	8197	0	0	0	0	50	0	424858	1	1	
IRX4	387770	635	11	24745	8351	0	0	0	0	50	1	414064	1	1	
IRX5	100202	762	-46	22967	7693	0	0	0	0	50	0	531923	1	1	
IRX6	130838	706	-26	21672	6909	0	0	0	0	50	1	431298	1	1	
ISCA1	311398	417	8	6573	1869	0	0	0	0	50	1	418047	1	1	
ISCA1P1	177047	815	-3	6531	1974	0	0	0	0	50	0	331989	1	1	
ISCA2	749329	384	31	7721	2338	0	0	0	0	50	0	433174	1	1	
ISCU	437636	399	40	7476	1953	0	0	0	0	50	1	480235	1	1	
ISG15	1971475	239	15	7966	2618	0	0	0	0	50	1	501445	1	1	
ISG20	393645	605	14	8918	2800	0	0	0	0	50	1	431634	1	1	
ISG20L2	1851672	180	37	17423	5047	0	0	0	0	50	0	461594	1	1	
ISL1	27991	1083	-28	17752	4718	0	0	0	0	50	0	539560	1	1	
ISL2	289294	229	39	17934	5208	0	0	0	0	50	0	336721	1	1	
ISLR	492755	317	46	20321	6790	0	0	0	0	50	1	434469	1	1	
ISLR2	492755	317	46	34832	12250	0	0	0	0	50	1	434469	1	1	
ISM1	117713	704	-35	23352	6405	0	0	0	0	50	0	500619	1	1	
ISM2	504548	359	47	29246	7336	0	0	0	0	50	0	414792	1	1	
ISOC1	38196	985	-2	14672	4543	0	0	0	0	50	0	352884	1	1	
ISOC2	1048909	399	24	10815	3591	0	0	0	0	50	0	410347	1	1	
ISPD	285724	921	-20	22890	6342	0	0	0	0	50	0	452725	1	1	
ISX	234416	597	-76	12082	3668	0	0	0	0	38	0	271173	1	1	
ISY1	1142757	352	44	15127	3731	0	0	0	0	50	1	375004	1	1	
ISYNA1	1384225	259	42	27384	8673	0	0	0	0	50	1	473445	1	1	
ITCH	996942	155	37	45010	11291	0	0	0	0	50	0	496426	1	1	
ITFG1	489472	809	-5	31731	8358	0	0	0	0	50	0	401604	1	1	
ITFG2	495532	443	28	22715	6433	0	0	0	0	50	0	427791	1	1	
ITFG3	1304158	199	40	27447	8316	0	0	0	0	50	0	459403	1	1	

ITGA1	173759	379	9	60515	16219	0	0	0	0	50	0	379848	1	1	
ITGA10	NaN	NaN	NaN	58184	17878	0	0	0	0	50	2	797426	1	1	
ITGA11	370132	531	41	60683	16702	0	0	0	0	50	0	366156	1	1	
ITGA2	193331	354	4	60718	16184	0	0	0	0	33	0	230972	1	1	
ITGA2B	1062294	172	38	52241	15757	0	0	0	0	50	0	467495	1	1	
ITGA3	1197823	210	20	55265	16429	0	0	0	0	50	0	465465	1	1	
ITGA4	233378	518	20	53543	13804	0	0	0	0	50	0	422947	1	1	
ITGA5	653663	190	42	52899	15729	0	0	0	0	50	1	406322	1	1	
ITGA6	381919	371	23	57722	15484	0	0	0	0	50	0	416059	1	1	
ITGA7	1746452	384	9	61145	18256	0	0	0	0	42	0	385133	1	1	
ITGA8	110825	853	-3	54901	14609	0	0	0	0	50	0	395647	1	1	
ITGA9	477042	601	18	52941	14637	0	0	0	0	50	0	383194	1	1	
ITGAD	839076	558	11	58765	16919	0	0	1	0	50	1	444234	1	1	
ITGAE	500884	176	28	60081	16821	0	0	0	0	50	1	424501	1	1	
ITGAL	2276763	142	57	59472	16821	0	0	0	0	50	0	438431	1	1	
ITGAM	1163323	478	7	58499	16681	0	0	0	0	34	0	234311	1	1	
ITGAV	266463	373	7	54747	14805	0	0	0	0	50	0	322021	1	1	
ITGAX	1122895	481	-2	58905	16905	0	0	0	0	45	0	305158	1	1	
ITGB1	390742	205	-15	45661	10892	0	0	0	0	50	1	385266	1	1	
ITGB1BP1	624421	340	37	10479	2688	0	0	0	0	50	0	447426	1	1	
ITGB1BP2	728362	NaN	26	18116	4690	0	0	0	0	50	0	565334	1	1	
ITGB1BP3	2173603	207	30	11865	3192	0	0	0	0	50	1	416745	1	1	
ITGB2	746455	191	74	38934	10836	0	0	0	0	50	0	386813	1	1	
ITGB3	965617	188	19	40040	10885	0	0	0	0	50	0	355047	1	1	
ITGB3BP	130856	477	5	9779	2128	0	0	0	0	50	1	315861	1	1	
ITGB4	1885370	198	27	94087	27503	0	0	1	0	50	3	425740	1	1	
ITGB5	330119	254	40	40530	11046	0	0	0	0	50	0	355453	1	1	
ITGB6	227667	212	2	40320	10647	0	0	0	0	50	2	378378	1	1	
ITGB7	1703142	191	52	39739	11774	0	0	0	0	50	0	357616	1	1	
ITGB8	207764	550	30	39550	10052	0	0	0	0	50	0	411670	1	1	
ITGBL1	26094	536	-6	26040	5985	0	0	0	0	50	0	432621	1	1	
ITIH1	1193949	272	49	46424	12838	0	0	0	0	50	0	442659	1	1	
ITIH2	199302	528	-8	48461	12880	0	0	0	0	50	0	460761	1	1	
ITIH3	1193949	272	49	45815	12124	0	0	0	0	50	0	442659	1	1	
ITIH4	1193949	272	49	47187	13440	0	0	0	0	50	0	442659	1	1	
ITIH5	199273	528	-3	49147	14189	0	0	0	0	50	0	371350	1	1	
ITIH5L	257678	NaN	19	63308	20524	0	0	0	0	50	0	397334	1	1	
ITK	266925	1180	30	32242	8267	0	0	0	0	50	0	426972	1	1	
ITLN1	1048810	583	27	16205	4165	0	0	0	0	50	1	340592	1	1	
ITLN2	777836	441	19	16828	4340	0	0	0	0	50	1	433888	1	1	
ITM2A	13949	NaN	29	13356	3696	0	0	0	0	50	1	509565	1	1	
ITM2B	340844	457	36	13720	3521	0	0	0	0	50	1	390327	1	1	
ITM2C	1020678	519	45	13370	3934	0	0	0	0	50	0	535696	1	1	
ITPA	997984	255	52	10157	2716	0	0	0	0	50	1	373219	1	1	
ITPK1	326946	326	35	21854	6097	0	0	0	0	50	0	375725	1	1	
ITPKA	820644	237	37	22421	7231	0	0	0	0	50	0	355432	1	1	
ITPKB	508274	407	19	45969	14196	0	0	0	0	50	0	390103	1	1	
ITPKC	1127178	201	27	33663	9975	0	0	0	0	50	0	386421	1	1	
ITPR1	290645	395	19	141722	37135	0	0	0	0	50	1	432327	1	1	
ITPR2	359658	548	22	139335	35595	0	0	0	0	50	0	531412	1	1	

ITPR3	1401905	205	38	135996	37128	0	0	0	0	50	0	531433	1	1	
ITPRIP	293891	376	8	26530	8078	0	0	0	0	50	0	403361	1	1	
ITPRIPL1	904852	213	43	27797	8113	0	0	0	0	50	1	474096	1	1	
ITPRIPL2	799976	275	20	24584	9184	0	0	0	0	50	0	382823	1	1	
ITSN1	921622	370	44	88445	23401	0	0	0	0	50	0	511980	1	1	
ITSN2	380538	378	37	88585	22694	0	0	0	0	50	0	402129	1	1	
IVD	880617	184	45	21721	6104	0	0	0	0	50	0	411936	1	1	
IVL	59999	804	12	29491	7511	0	0	0	0	50	0	423913	1	1	
IVNS1ABP	325191	535	-10	33236	8365	0	0	0	0	50	0	417893	1	1	
IWS1	471209	229	30	42665	10087	0	0	0	0	50	0	363349	1	1	
IYD	286182	334	29	18102	4179	0	0	0	0	50	3	382060	1	1	
IZUMO1	1635420	190	44	18109	4802	0	0	0	0	50	0	414344	1	1	
JAG1	165910	431	-28	63392	15505	0	0	0	0	50	0	447433	1	1	
JAG2	872033	260	25	62650	17507	0	0	0	0	50	0	401324	1	1	
JAGN1	950574	170	54	9107	2569	0	0	0	0	50	1	396298	1	1	
JAK1	269434	396	-5	59864	14917	0	0	0	0	50	0	402283	1	1	
JAK2	255685	634	28	58933	14378	0	0	0	0	50	0	356048	1	1	
JAK3	1216364	212	37	55860	16947	0	0	0	0	50	1	345779	1	1	
JAKMIP1	366026	678	41	43785	11802	0	0	0	0	50	0	349734	1	1	
JAKMIP2	102729	642	-4	42287	10402	0	0	0	0	50	0	415982	1	1	
JAKMIP3	146849	592	-12	43582	11417	0	0	0	0	50	0	439313	1	1	
JAM2	534549	723	26	15379	4214	0	0	1	0	24	1	180978	1	1	
JAM3	270247	601	6	17892	5250	0	0	0	0	50	1	411285	1	1	
JARID2	86503	782	34	62223	17766	0	0	0	0	50	1	448924	1	1	
JAZF1	292385	474	14	12348	3360	0	0	0	0	50	1	358435	1	1	
JDP2	758517	239	44	8659	2618	0	0	0	0	50	1	438354	1	1	
JHDM1D	462584	624	29	48601	12383	0	0	0	0	50	1	443891	1	1	
JKAMP	168237	606	12	15848	4312	0	0	0	0	50	0	368830	1	1	
JMJD1C	226859	712	23	128506	33677	0	0	0	0	50	0	913206	1	1	
JMJD4	595623	459	1	24290	7294	0	0	0	0	50	0	332654	1	1	
JMJD5	227767	448	27	22785	6468	0	0	0	0	50	0	317177	1	1	
JMJD6	827288	206	22	21154	5537	0	0	0	0	50	0	285460	1	1	
JMJD7	NaN	NaN	NaN	16058	4543	0	0	0	0	50	2	784091	1	1	
JMJD7-PLA2G4B	874211	259	40	50967	14910	0	0	0	0	50	0	480634	1	1	
JMJD8	1207790	194	33	14280	4494	0	0	0	0	50	2	442589	1	1	
JMY	166218	588	35	48916	14231	0	0	0	0	50	0	336770	1	1	
JOSD1	1056349	262	45	10339	2702	0	0	0	0	50	0	477918	1	1	
JOSD2	762018	517	35	9100	3143	0	0	0	0	50	0	450331	1	1	
JPH1	236544	478	-15	32760	9408	0	0	0	0	50	1	425621	1	1	
JPH2	526607	344	21	33579	11025	0	0	0	0	50	0	444766	1	1	
JPH3	594064	251	23	36267	11256	0	0	0	0	50	0	411117	1	1	
JPH4	1250373	553	35	29736	10227	0	0	0	0	50	1	500087	1	1	
JRK	384374	412	23	28854	8925	0	0	0	0	50	0	459865	1	1	
JRKL	272651	489	14	26068	7007	0	0	0	0	50	1	337694	1	1	
JSRP1	1603571	240	27	16233	5229	0	0	0	0	50	0	431256	1	1	
JTB	2028800	222	34	7574	2023	0	0	0	0	50	0	359492	1	1	
JUB	1240941	185	38	26257	8288	0	0	0	0	50	0	431368	1	1	
JUN	300720	419	5	15911	5005	0	0	0	0	50	1	419713	1	1	
JUNB	1937827	226	32	16184	5740	0	0	0	0	50	1	414729	1	1	
JUND	1178047	210	43	16121	5803	0	0	0	0	50	0	438382	1	1	

JUP	1760409	175	35	37009	11165	0	0	0	0	50	1	412223	1	1	
KAAG1	390563	612	-3	6125	1372	0	0	0	0	50	0	400218	1	1	
KAL1	16107	NaN	-30	34181	9814	0	0	0	0	50	0	434196	1	1	
KALRN	315141	549	32	154847	41482	0	0	0	0	50	0	498673	1	1	
KANK1	136434	548	16	66955	19208	0	0	0	0	50	0	347053	1	1	
KANK2	1749900	233	33	41447	13657	0	0	0	0	50	0	426965	1	1	
KANK3	752886	204	7	39053	13573	0	0	0	0	50	0	445109	1	1	
KANK4	280646	378	0	48818	14686	0	0	0	0	50	0	516215	1	1	
KARS	449343	354	18	33320	8722	0	0	0	0	50	0	419419	1	1	
KAT2A	2171374	206	37	42105	12159	0	0	0	0	50	0	350637	1	1	
KAT2B	102581	583	4	42343	11564	0	0	0	0	50	1	461643	1	1	
KAT5	4131934	202	53	27517	7952	0	0	0	0	50	1	407722	1	1	
KATNA1	437046	210	41	25186	6608	0	0	0	0	50	1	323141	1	1	
KATNAL1	288583	374	48	25130	6643	0	0	0	0	50	0	405615	1	1	
KATNAL2	120136	561	12	24178	6419	0	0	0	0	50	0	445368	1	1	
KATNB1	712945	168	34	33159	9681	0	0	0	0	50	2	419853	1	1	
KAZ	163077	802	9	42651	12705	0	0	0	0	50	0	379330	1	1	
KAZALD1	469702	221	52	14798	4753	0	0	0	0	50	0	387198	1	1	
KBTBD10	370890	418	22	30352	8351	0	0	0	0	50	0	495712	1	1	
KBTBD11	NaN	NaN	NaN	28770	10542	0	0	0	0	50	2	790090	1	1	
KBTBD12	727461	390	49	31507	8183	0	0	0	0	50	1	408576	1	1	
KBTBD13	688371	189	44	21336	7581	0	0	0	0	50	3	461874	1	1	
KBTBD2	373657	264	15	31087	8393	0	0	0	0	50	1	395647	1	1	
KBTBD3	86519	753	-16	30926	7861	0	0	0	0	50	1	461832	1	1	
KBTBD4	995645	214	31	26432	7651	0	0	0	0	50	1	408191	1	1	
KBTBD5	369022	329	34	30457	9191	0	0	0	0	50	0	394205	1	1	
KBTBD6	314264	337	66	32935	9590	0	0	0	0	50	2	446663	1	1	
KBTBD7	314264	337	66	33467	9688	0	0	0	0	50	2	446663	1	1	
KBTBD8	99545	940	13	30373	7847	0	0	0	0	50	0	455546	1	1	
KCMF1	926772	202	23	19173	5397	0	0	0	0	50	0	346647	1	1	
KCNA1	260795	903	12	24276	6972	0	0	0	0	50	0	399392	1	1	
KCNA10	435777	589	29	24983	7315	0	0	1	0	18	1	133882	1	1	
KCNA2	479017	640	21	24549	6951	0	0	0	0	50	0	369201	1	1	
KCNA3	318208	730	22	27489	8799	0	0	0	0	50	0	587328	1	1	
KCNA4	30326	940	-38	32025	9177	0	0	0	0	50	0	373821	1	1	
KCNA5	160467	896	22	29001	9681	0	0	0	0	50	0	458535	1	1	
KCNA6	277089	903	16	25228	8162	0	0	0	0	50	1	392756	1	1	
KCNA7	2070141	200	35	21385	7490	0	0	0	0	50	0	356741	1	1	
KCNAB1	502198	782	4	29323	8078	0	0	0	0	50	0	513408	1	1	
KCNAB2	593369	271	22	19229	5215	0	0	0	0	50	0	388087	1	1	
KCNAB3	1794630	337	33	20587	6020	0	0	0	0	50	1	386694	1	1	
KCNB1	1002860	392	54	42070	12131	0	0	0	0	50	0	419699	1	1	
KCNB2	110047	904	-11	44807	12817	0	0	0	0	50	0	557410	1	1	
KCNC1	499802	582	19	29085	8757	0	0	0	0	50	0	324478	1	1	
KCNC2	175202	822	-31	32067	9996	0	0	0	0	50	1	420322	1	1	
KCNC3	1072052	528	26	36001	12089	0	0	0	0	50	1	369026	1	1	
KCNC4	532510	400	38	33733	10787	0	0	0	0	50	0	409920	1	1	
KCND1	834590	NaN	41	31283	9961	0	0	0	0	50	0	426944	1	1	
KCND2	49438	962	7	31066	9107	0	0	0	0	50	0	512428	1	1	
KCND3	320241	623	23	32305	9611	0	0	0	0	50	0	427035	1	1	

KCNE1	381338	502	16	6377	1897	0	0	0	0	50	1	541058	1	1	
KCNE1L	203975	NaN	36	6699	2310	0	0	0	0	50	1	301154	1	1	
KCNE2	410767	518	61	6307	1589	0	0	0	0	50	1	269045	1	1	
KCNE3	633655	283	23	5089	1547	0	0	0	0	50	0	461125	1	1	
KCNE4	279069	585	3	8344	2513	0	0	0	0	50	0	441938	1	1	
KCNF1	668276	514	23	23947	7238	0	0	0	0	50	0	440615	1	1	
KCNG1	449718	474	23	24612	7938	0	0	0	0	50	0	555989	1	1	
KCNG2	323907	509	-22	21532	7952	0	0	0	0	50	1	458136	1	1	
KCNG3	254123	368	24	21105	6510	0	0	0	0	50	0	436800	1	1	
KCNG4	582429	364	12	25053	7833	0	0	0	0	50	0	465885	1	1	
KCNH1	153525	862	-7	49322	13888	0	0	0	0	50	1	437717	1	1	
KCNH2	775233	547	25	62174	20041	0	0	0	0	50	0	585676	1	1	
KCNH3	2227486	224	53	52192	17276	0	0	0	0	50	0	447888	1	1	
KCNH4	2129732	206	30	49448	15946	0	0	0	0	50	1	435169	1	1	
KCNH5	68312	704	-32	50274	13587	0	0	0	0	50	0	450394	1	1	
KCNH6	934619	247	-1	49105	14798	0	0	0	0	50	0	348152	1	1	
KCNH7	70298	965	-6	61390	16667	0	0	0	0	50	0	359562	1	1	
KCNH8	25033	1018	-14	55727	15337	0	0	0	0	50	2	487011	1	1	
KCNIP1	52578	618	31	13811	3115	0	0	0	0	50	1	448413	1	1	
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KCNIP3	246871	498	14	15225	3843	0	0	0	0	50	0	357063	1	1	
KCNIP4	35439	1264	3	15477	3696	0	0	0	0	50	1	386988	1	1	
KCNJ1	194422	602	1	19425	5397	0	0	0	0	50	0	398853	1	1	
KCNJ10	829863	386	17	18221	5761	0	0	0	0	50	0	420231	1	1	
KCNJ11	454503	598	14	18732	5901	0	0	0	0	50	0	404887	1	1	
KCNJ12	405028	480	-60	21147	6279	0	0	0	0	50	0	547561	1	1	
KCNJ13	325071	328	33	18151	4760	0	0	0	0	50	1	375907	1	1	
KCNJ14	1418188	209	41	20825	6874	0	0	0	0	50	0	640500	1	1	
KCNJ15	109140	246	56	18480	5292	0	0	0	0	50	2	422170	1	1	
KCNJ16	32643	589	-53	20762	5719	0	0	0	0	50	1	444381	1	1	
KCNJ2	31424	614	-44	21112	5852	0	0	0	0	50	1	459410	1	1	
KCNJ3	15788	1135	7	24752	7042	0	0	0	0	50	1	438039	1	1	
KCNJ4	1466610	215	23	21630	6552	0	0	0	0	50	0	313348	1	1	
KCNJ5	194422	602	1	20748	5880	0	0	0	0	50	0	398853	1	1	
KCNJ6	253563	541	36	21119	5845	0	0	0	0	50	1	337834	1	1	
KCNJ8	501891	984	-9	20853	6090	0	0	0	0	50	0	408016	1	1	
KCNJ9	829863	386	17	18935	5971	0	0	0	0	50	0	420231	1	1	
KCNK1	135142	419	12	16457	4942	0	0	0	0	50	0	406469	1	1	
KCNK10	131280	834	-23	28581	8148	0	0	0	0	50	0	372302	1	1	
KCNK12	791803	516	25	20083	7154	0	0	0	0	50	0	491253	1	1	
KCNK13	300869	604	12	19838	6013	0	0	0	0	50	0	404901	1	1	
KCNK15	890596	168	46	15435	5544	0	0	0	0	50	1	413483	1	1	
KCNK16	190767	749	31	21518	6559	0	0	0	0	50	0	405986	1	1	
KCNK17	190767	749	31	18508	5621	0	0	0	0	50	0	405986	1	1	
KCNK18	202100	640	4	19061	5341	0	0	0	0	50	0	384111	1	1	
KCNK2	363438	818	-28	21924	6363	0	0	0	0	50	2	355516	1	1	
KCNK3	1198614	300	41	18837	6132	0	0	0	0	50	0	558712	1	1	
KCNK4	1613996	257	65	18802	6524	0	0	0	0	50	0	419300	1	1	
KCNK5	181911	634	29	24514	7322	0	0	0	0	50	0	416150	1	1	
KCNK6	1467279	253	0	14588	5362	0	0	0	0	50	1	393015	1	1	

KCNK7	3945819	202	45	15897	5796	0	0	0	0	50	1	407722	1	1	
KCNK9	62115	562	5	18424	5369	0	0	0	0	50	1	497434	1	1	
KCNMA1	116099	807	3	66017	17752	0	0	0	0	0	0	17752	1	1	
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KCNMB2	144490	882	-8	12005	3199	0	0	0	0	50	0	596757	1	1	
KCNMB3	412428	641	14	17367	4620	0	0	0	0	50	1	462252	1	1	
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KCNN1	1328847	217	35	26628	8400	0	0	0	0	50	0	401849	1	1	
KCNN2	7106	987	0	28770	8358	0	0	0	0	50	0	342160	1	1	
KCNN3	1958370	559	34	36435	10689	0	0	0	0	50	0	368942	1	1	
KCNN4	452493	192	-2	20853	6783	0	0	0	0	50	2	405692	1	1	
KCNQ1	812471	589	39	33600	10458	0	0	0	0	50	0	406728	1	1	
KCNQ2	1314528	298	49	44212	13475	0	0	0	0	50	2	539644	1	1	
KCNQ3	163210	970	-6	43162	13013	0	0	0	0	50	0	383229	1	1	
KCNQ4	428440	188	32	34202	10780	0	0	0	0	50	0	344183	1	1	
KCNQ5	648013	975	15	47229	13923	0	0	0	0	50	0	390551	1	1	
KCNRG	337743	357	44	15127	4298	0	0	0	0	50	1	405111	1	1	
KCNS1	865186	324	46	25081	8372	0	0	0	0	50	1	541765	1	1	
KCNS2	440962	550	28	23352	6846	0	0	0	0	50	1	410347	1	1	
KCNS3	143212	1197	6	24353	6727	0	0	0	0	50	1	375438	1	1	
KCNT2	37679	1035	-24	58793	15085	0	0	0	0	50	1	557263	1	1	
KCNU1	7048	474	-36	58765	15911	0	0	0	0	50	0	392420	1	1	
KCNV1	102383	890	-18	24353	7378	0	0	0	0	50	0	466396	1	1	
KCNV2	158557	682	-5	26516	8008	0	0	0	0	50	0	426566	1	1	
KCP	NaN	NaN	NaN	82285	23660	0	0	0	0	50	2	803208	1	1	
KCTD1	173654	429	31	42182	12712	0	0	0	0	50	0	472381	1	1	
KCTD10	434920	420	38	15890	4438	0	0	0	0	50	1	433818	1	1	
KCTD11	1911735	206	36	10808	3871	0	0	0	0	50	1	434000	1	1	
KCTD12	202176	734	11	15309	5229	0	0	0	0	50	0	384349	1	1	
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KCTD14	556958	209	38	12607	3647	0	0	0	0	50	0	384986	1	1	
KCTD15	680604	598	-26	14210	4396	0	0	0	0	50	0	361263	1	1	
KCTD16	38690	643	-2	21245	5866	0	0	0	0	50	0	401198	1	1	
KCTD17	699535	379	44	15141	4242	0	0	0	0	50	1	522970	1	1	
KCTD18	542097	378	26	21126	6279	0	0	0	0	50	2	356755	1	1	
KCTD19	1201743	142	56	46585	13202	0	0	0	0	50	1	492191	1	1	
KCTD2	1111289	171	31	13083	4011	0	0	0	0	50	0	340879	1	1	
KCTD20	994811	148	35	21483	5565	0	0	0	0	50	0	475545	1	1	
KCTD21	551110	208	23	12866	3661	0	0	0	0	50	0	462812	1	1	
KCTD3	82180	597	-30	41349	11487	0	0	0	0	50	0	387212	1	1	
KCTD4	613630	276	60	12859	3521	0	0	0	0	50	0	379792	1	1	
KCTD5	1803069	200	47	11893	3374	0	0	0	0	50	0	379925	1	1	
KCTD6	567081	265	35	11900	3262	0	0	0	0	50	0	430276	1	1	
KCTD7	615008	246	43	14357	4249	0	0	0	0	50	1	447181	1	1	
KCTD8	73476	1109	-10	23023	6923	0	0	0	0	50	2	530019	1	1	
KCTD9	178615	515	22	20090	5404	0	0	0	0	50	0	418033	1	1	
KDELC1	195534	475	24	25900	6545	0	0	0	0	50	0	333669	1	1	
KDELC2	383210	579	11	25648	6986	0	0	0	0	50	0	354886	1	1	
KDELR1	1478750	217	36	10731	3024	0	0	0	0	50	0	615027	1	1	
KDELR2	NaN	NaN	NaN	13692	3738	0	0	0	0	50	2	783286	1	1	

KDELR3	1466610	215	23	11795	3283	0	0	0	0	50	0	313348	1	1	
KDM1A	715760	153	29	44254	12677	0	0	0	0	50	0	395626	1	1	
KDM1B	477756	397	1	30478	8099	0	0	0	0	50	0	394198	1	1	
KDM2A	1502318	162	42	58877	16072	0	0	0	0	50	0	534695	1	1	
KDM2B	650760	244	46	68782	19082	0	0	0	0	50	1	443499	1	1	
KDM3A	625501	424	22	67466	17920	0	0	0	0	50	1	466662	1	1	
KDM3B	1254629	209	42	87150	25788	0	0	0	0	50	0	443184	1	1	
KDM4A	939679	209	34	54523	14336	0	0	0	0	50	1	418936	1	1	
KDM4B	993857	258	26	54908	15967	0	0	0	0	50	0	397292	1	1	
KDM4C	153801	838	14	58513	14798	0	0	0	0	50	0	383964	1	1	
KDM4D	304973	513	-12	25459	7553	0	0	0	0	50	0	423850	1	1	
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KDM5A	305933	480	27	85827	22974	0	0	0	0	50	1	397383	1	1	
KDM5B	463071	378	35	78358	21161	0	0	0	0	50	0	383488	1	1	
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KDM6B	2148615	337	24	80710	26999	0	0	0	0	50	0	550480	1	1	
KDR	175189	706	3	69475	18452	0	0	0	0	30	0	255829	1	1	
KDSR	201946	278	77	16905	4830	0	0	0	0	50	2	429079	1	1	
KEAP1	1996822	207	30	30870	8925	0	0	0	0	50	0	375459	1	1	
KEL	294033	676	2	37247	10444	0	0	0	0	50	0	342202	1	1	
KERA	21995	523	-17	17626	4781	0	0	0	0	50	2	418418	1	1	
KHDC1	742452	565	13	8358	2289	0	0	0	0	50	1	479234	1	1	
KHDC1L	NaN	NaN	NaN	6559	1778	0	0	0	0	50	2	781326	1	1	
KHDRBS1	1216050	133	33	21854	6790	0	0	0	0	50	0	451549	1	1	
KHDRBS2	1561	1153	-32	17773	4949	0	0	0	0	50	0	405615	1	1	
KHDRBS3	16039	1124	-24	17640	4893	0	0	0	0	50	0	449183	1	1	
KHK	1214097	238	50	18347	5278	0	0	0	0	50	1	447195	1	1	
KHNYN	897668	265	29	33131	10234	0	0	0	0	50	0	360941	1	1	
KHSRP	865106	219	33	35819	10633	0	0	0	0	50	2	412020	1	1	
KIAA0020	137713	763	16	33985	8330	0	0	0	0	50	0	355285	1	1	
KIAA0040	NaN	NaN	NaN	5019	1281	0	0	0	0	31	2	344764	1	1	
KIAA0090	788190	448	30	49966	14588	0	0	0	0	50	0	435176	1	1	
KIAA0100	1651143	225	31	112266	31836	0	0	0	0	50	0	424907	1	1	
KIAA0101	766091	263	33	6314	1519	0	0	0	0	50	0	403494	1	1	
KIAA0141	696239	321	48	25739	7756	0	0	0	0	50	0	377804	1	1	
KIAA0146	918018	606	6	46130	13216	0	0	0	0	50	1	434434	1	1	
KIAA0174	471197	218	31	18193	5306	0	0	0	0	50	0	350378	1	1	
KIAA0182	422186	213	37	59521	18515	0	0	0	0	50	0	375060	1	1	
KIAA0195	1928925	195	19	67977	20034	0	0	0	0	50	2	515592	1	1	
KIAA0196	489847	520	25	59703	15645	0	0	0	0	50	0	333326	1	1	
KIAA0226	560122	252	50	50169	13755	0	0	0	0	50	1	349153	1	1	
KIAA0232	500642	179	50	69902	18634	0	0	0	0	50	0	354788	1	1	
KIAA0240	1023102	187	38	53529	15435	0	0	0	0	50	0	386939	1	1	
KIAA0247	600813	299	44	14917	4655	0	0	0	0	50	0	436058	1	1	
KIAA0284	855494	247	41	75166	24311	0	0	0	0	50	0	532973	1	1	
KIAA0317	900799	207	42	41979	11445	0	0	0	0	50	1	416409	1	1	
KIAA0319	417813	373	19	54453	15456	0	0	0	0	50	2	423983	1	1	
KIAA0319L	956500	451	27	53193	14637	0	0	0	0	50	0	449057	1	1	

KIAA0355	662469	216	-1	53032	15449	0	0	0	0	50	0	393778	1	1	
KIAA0368	366471	419	28	102417	28917	0	0	0	0	50	0	492149	1	1	
KIAA0391	586870	321	38	29491	7805	0	0	0	0	50	0	424179	1	1	
KIAA0406	599934	303	49	53501	15757	0	0	0	0	50	0	354298	1	1	
KIAA0408	151114	811	-10	35308	8813	0	0	0	0	50	0	438319	1	1	
KIAA0415	479282	523	22	39368	12922	0	0	0	0	50	0	526113	1	1	
KIAA0427	99954	406	51	30352	8435	0	0	0	0	50	0	398958	1	1	
KIAA0430	538786	282	29	87682	24374	0	0	0	0	50	0	380471	1	1	
KIAA0467	1066191	239	31	125447	38815	0	0	0	0	50	1	401107	1	1	
KIAA0494	615653	417	20	25375	6713	0	0	0	0	50	0	448910	1	1	
KIAA0495	249153	341	24	9590	3220	0	0	0	0	50	1	420224	1	1	
KIAA0513	517155	273	32	21406	5474	0	0	0	0	50	0	373268	1	1	
KIAA0528	213736	811	-9	51289	13790	0	0	0	0	50	1	389039	1	1	
KIAA0556	349212	620	12	81403	22904	0	0	0	0	50	1	355733	1	1	
KIAA0562	249714	412	32	47467	12635	0	0	0	0	50	0	435274	1	1	
KIAA0564	259442	557	50	97111	26747	0	0	0	0	50	0	389557	1	1	
KIAA0586	290827	454	33	75138	20097	0	0	0	0	50	0	439754	1	1	
KIAA0649	298554	539	14	57988	18326	0	0	0	0	50	1	408366	1	1	
KIAA0652	914919	176	39	26474	7504	0	0	0	0	50	1	431074	1	1	
KIAA0664	561252	218	18	65590	19040	0	0	0	0	50	0	374682	1	1	
KIAA0748	246749	748	11	26705	7000	0	0	0	0	50	0	434910	1	1	
KIAA0753	462930	285	10	49266	13230	0	0	0	0	50	0	506842	1	1	
KIAA0754	NaN	NaN	NaN	67788	22176	0	0	0	0	50	2	801724	1	1	
KIAA0776	105478	1376	-1	41034	10605	0	0	0	0	50	1	389823	1	1	
KIAA0802	276661	394	22	78281	22960	0	0	0	0	50	0	421029	1	1	
KIAA0831	739675	256	39	25123	6734	0	0	0	0	50	0	569695	1	1	
KIAA0892	920442	232	2	31451	8785	0	0	0	0	50	0	330330	1	1	
KIAA0895	342379	285	17	26810	7126	0	0	0	0	50	1	460572	1	1	
KIAA0895L	1109491	150	46	22967	7273	0	0	0	0	50	0	375074	1	1	
KIAA0907	1988461	174	32	30723	9156	0	0	0	0	50	1	361935	1	1	
KIAA0913	1009357	191	42	89992	28259	0	0	0	0	50	2	482986	1	1	
KIAA0922	188087	454	39	82754	21637	0	0	1	0	50	1	470169	1	1	
KIAA0947	89016	648	-14	112728	31605	0	0	0	0	50	1	500591	1	1	
KIAA1009	51818	807	-15	73514	17122	0	0	0	0	50	1	546406	1	1	
KIAA1012	416975	489	28	73451	19369	0	0	0	0	50	0	434588	1	1	
KIAA1024	261814	789	13	45563	12460	0	0	0	0	50	1	416913	1	1	
KIAA1033	237030	387	34	61740	14952	0	0	0	0	50	0	346906	1	1	
KIAA1045	676166	394	23	20034	5817	0	0	0	0	50	0	598395	1	1	
KIAA1107	NaN	NaN	NaN	68082	17955	0	0	0	0	50	2	797503	1	1	
KIAA1109	325000	770	8	253834	68558	0	0	0	0	22	0	239547	1	1	
KIAA1143	433853	426	27	7980	1995	0	0	0	0	50	0	438137	1	1	
KIAA1147	213663	781	17	22946	6454	0	0	0	0	50	0	346549	1	1	
KIAA1161	478815	302	38	34020	11109	0	0	0	0	50	0	341495	1	1	
KIAA1191	549164	427	28	15421	4445	0	0	0	0	50	0	428435	1	1	
KIAA1199	265840	460	2	69734	18424	0	0	0	0	50	1	530964	1	1	
KIAA1210	556208	NaN	8	84875	23947	0	0	0	0	50	1	411754	1	1	
KIAA1211	460708	489	17	60522	17892	0	0	0	0	50	0	428316	1	1	
KIAA1217	136799	839	-15	96747	27405	0	0	0	0	50	0	476602	1	1	
KIAA1239	NaN	NaN	NaN	86177	24136	0	0	0	0	50	2	803684	1	1	
KIAA1244	341233	545	21	108885	31101	0	0	0	0	50	0	522382	1	1	

KIAA1257	1149132	379	52	21112	5306	0	0	0	0	50	0	386225	1	1	
KIAA1267	388537	357	21	54362	16450	0	0	0	0	50	0	441084	1	1	
KIAA1274	549709	487	39	43043	12544	0	0	0	0	50	0	458444	1	1	
KIAA1279	860888	246	52	31276	8414	0	0	0	0	50	0	363587	1	1	
KIAA1310	889428	234	44	43491	13650	0	0	0	0	50	0	526092	1	1	
KIAA1324L	154470	1087	-7	53004	13650	0	0	0	0	50	0	424004	1	1	
KIAA1328	99312	893	-1	29449	7763	0	0	0	0	50	0	440300	1	1	
KIAA1370	421095	345	21	54523	14315	0	0	0	0	50	0	387758	1	1	
KIAA1377	418167	411	-19	56525	14749	0	0	0	0	50	0	397516	1	1	
KIAA1383	134159	644	-2	51135	14889	0	0	0	0	50	0	394275	1	1	
KIAA1407	438696	487	29	48524	11851	0	0	0	0	50	0	444605	1	1	
KIAA1409	321756	678	21	125251	33614	0	0	0	0	39	0	425782	1	1	
KIAA1429	534075	405	36	91987	25298	0	0	0	0	50	0	400260	1	1	
KIAA1430	316425	530	37	26754	7161	0	0	0	0	50	0	336798	1	1	
KIAA1432	311104	473	36	69601	18746	0	0	0	0	50	0	361571	1	1	
KIAA1462	184440	520	12	66388	19544	0	0	0	0	50	0	534590	1	1	
KIAA1467	697100	196	7	30800	9499	0	0	0	0	50	0	419566	1	1	
KIAA1468	133045	374	40	61838	17185	0	0	0	0	50	0	385994	1	1	
KIAA1486	17102	517	-4	31745	9877	0	0	0	0	50	0	466935	1	1	
KIAA1522	1339617	195	26	50883	18648	0	0	0	0	50	0	444381	1	1	
KIAA1524	214268	867	2	46655	12103	0	0	0	0	50	0	402983	1	1	
KIAA1529	378658	528	34	85561	21392	0	0	0	0	50	0	402927	1	1	
KIAA1530	1018381	507	41	35665	10157	0	0	0	0	50	0	480858	1	1	
KIAA1539	1108514	411	41	25662	8883	0	0	0	0	50	1	339031	1	1	
KIAA1543	611341	384	33	61432	20573	0	0	0	0	50	0	407232	1	1	
KIAA1549	482191	289	18	94129	30422	0	0	0	0	50	0	382858	1	1	
KIAA1586	431412	348	29	39718	10178	0	0	0	0	50	1	442057	1	1	
KIAA1598	202512	533	-14	33215	7945	0	0	0	0	50	0	377300	1	1	
KIAA1609	584311	285	14	23016	6363	0	0	0	0	50	1	440020	1	1	
KIAA1614	232445	398	15	56686	19061	0	0	0	0	50	0	375235	1	1	
KIAA1632	385282	380	41	130662	35532	0	0	0	0	1	0	40817	1	1	
KIAA1644	218812	280	16	10129	2828	0	0	0	0	50	0	361837	1	1	
KIAA1671	NaN	NaN	NaN	87703	27020	0	0	0	0	50	2	806568	1	1	
KIAA1683	1178047	210	43	64729	21749	0	0	0	0	50	0	438382	1	1	
KIAA1704	685405	245	40	17710	4382	0	0	0	0	50	1	504700	1	1	
KIAA1712	63527	647	11	22365	5544	0	0	0	0	50	0	427126	1	1	
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KIAA1755	499325	245	60	58289	18466	0	0	0	0	50	0	380611	1	1	
KIAA1797	125322	525	20	91616	25522	0	0	0	0	50	0	392938	1	1	
KIAA1804	146614	392	5	50470	15617	0	0	0	0	21	0	167300	1	1	
KIAA1826	84555	890	-19	17444	4438	0	0	0	0	50	0	430325	1	1	
KIAA1841	631979	302	30	39571	9548	0	0	0	0	50	2	433538	1	1	
KIAA1919	364757	424	30	25361	7588	0	0	0	0	50	1	485387	1	1	
KIAA1949	2115149	171	41	29274	9660	0	0	0	0	50	0	454741	1	1	
KIAA1958	459178	374	11	35196	10227	0	0	0	0	50	0	538685	1	1	
KIAA1967	757216	224	45	46011	13881	0	0	0	0	50	1	430206	1	1	
KIAA1984	1910405	176	41	27769	7112	0	0	0	0	50	1	455938	1	1	

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KIAA2013	519155	207	43	29771	10402	0	0	0	0	50	2	367808	1	1	
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KIAA2022	251853	NaN	7	75670	20153	0	0	0	0	50	1	428372	1	1	
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KIDINS220	280134	559	14	89418	24654	0	0	0	0	50	1	438046	1	1	
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KIF27	464240	285	5	71358	18396	0	0	0	0	50	0	487718	1	1	
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KIF5A	1347795	303	44	53515	13916	0	0	0	0	50	2	582323	1	1	
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KIF6	77217	940	26	42574	10661	0	0	0	0	50	1	415786	1	1	
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KIFAP3	181109	743	2	41601	9954	0	0	0	0	50	1	462833	1	1	
KIFC1	1441897	236	31	32816	10486	0	0	0	0	50	0	390558	1	1	
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KILLIN	NaN	NaN	NaN	8414	2863	0	0	0	0	50	2	782411	1	1	
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KIR2DL1	NaN	NaN	NaN	17640	4977	0	0	0	0	50	2	784525	1	1	
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KIT	92734	649	0	50183	13090	0	0	0	0	46	0	387170	1	1	
KITLG	144795	419	-29	14511	3507	0	0	0	0	50	0	453257	1	1	
KL	209854	595	23	49812	14385	0	0	0	0	50	0	422499	1	1	
KLC1	816643	204	41	33187	7868	0	0	0	0	50	0	382893	1	1	
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KLF11	922437	234	42	24885	7728	0	0	0	0	50	0	497826	1	1	
KLF12	32882	755	41	20013	5964	0	0	0	0	50	0	363797	1	1	
KLF13	204790	324	35	13783	4508	0	0	0	0	50	0	367829	1	1	
KLF14	241201	399	35	15057	5397	0	0	0	0	50	0	370062	1	1	
KLF15	181307	600	34	20097	6342	0	0	0	0	50	0	368515	1	1	
KLF16	2226995	214	26	11683	4382	0	0	0	0	50	1	475622	1	1	
KLF17	865527	167	38	19222	5600	0	0	0	0	50	1	398888	1	1	
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KLF3	294258	364	39	17381	4837	0	0	0	0	50	0	339780	1	1	
KLF4	255934	434	-14	23051	7525	0	0	0	0	50	0	350000	1	1	
KLF5	274388	328	28	22428	6678	0	0	0	0	50	1	406588	1	1	
KLF6	129035	476	2	14441	3703	0	0	0	0	50	1	369509	1	1	
KLF7	207002	598	20	15001	4340	0	0	0	0	50	0	354221	1	1	
KLF8	111210	NaN	1	17976	5124	0	0	0	0	50	0	322392	1	1	
KLF9	167186	278	1	12019	3500	0	0	0	0	50	1	361410	1	1	
KLHDC1	627751	342	18	21609	5082	0	0	0	0	50	0	388759	1	1	
KLHDC10	428896	266	37	22407	6258	0	0	0	0	50	0	342636	1	1	
KLHDC2	642923	342	12	21399	5250	0	0	0	0	50	0	534674	1	1	
KLHDC3	1200368	259	40	19593	5376	0	0	0	0	50	0	446481	1	1	
KLHDC4	594175	251	28	26516	7252	0	0	0	0	50	1	452788	1	1	
KLHDC5	349689	387	11	24675	7413	0	0	0	0	50	0	525399	1	1	
KLHDC7A	276385	648	15	36771	12285	0	0	0	0	50	1	589876	1	1	
KLHDC7B	1075525	207	42	27482	10003	0	0	0	0	50	1	421141	1	1	
KLHDC8A	662921	249	41	17192	5257	0	0	1	0	9	1	87556	1	1	
KLHDC8B	1812695	203	45	16996	5705	0	0	0	0	50	0	392385	1	1	
KLHDC9	689033	250	23	18004	4697	0	0	0	0	50	0	374983	1	1	
KLHL1	4513	1341	-27	37688	10339	0	0	0	0	50	0	404257	1	1	
KLHL10	1809123	171	34	30730	8015	0	0	0	0	50	1	427553	1	1	
KLHL11	1857838	191	33	34888	9905	0	0	0	0	50	1	445144	1	1	
KLHL12	422793	318	28	28861	7910	0	0	0	0	50	0	404607	1	1	
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KLHL15	528219	NaN	41	30163	8120	0	0	0	0	50	0	554127	1	1	
KLHL17	1911331	239	9	31465	9968	0	0	0	0	29	0	342475	1	1	
KLHL18	872055	242	49	28784	8197	0	0	0	0	50	1	518252	1	1	
KLHL2	171218	540	5	31416	8022	0	0	0	0	50	2	387408	1	1	
KLHL20	440130	417	5	30716	8638	0	0	0	0	50	1	380296	1	1	
KLHL21	628180	259	38	28602	9366	0	0	0	0	50	1	443296	1	1	
KLHL22	542099	326	28	31325	9184	0	0	0	0	50	0	403480	1	1	
KLHL23	342296	393	35	28217	7252	0	0	0	0	50	0	408723	1	1	
KLHL24	1124894	463	32	30149	8218	0	0	0	0	50	1	413273	1	1	
KLHL25	159493	592	-11	28686	8652	0	0	0	0	50	0	435414	1	1	
KLHL26	1397040	222	33	29617	9401	0	0	0	0	50	0	439453	1	1	
KLHL28	228561	481	-22	28448	7882	0	0	0	0	50	1	498197	1	1	
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KLHL3	406828	409	26	30170	8050	0	0	0	0	50	0	530271	1	1	
KLHL30	428658	356	29	28126	8939	0	0	0	0	50	1	436268	1	1	
KLHL31	306333	404	20	31199	8974	0	0	0	0	50	0	457800	1	1	
KLHL32	123818	1288	-2	31318	8645	0	0	0	0	50	1	383383	1	1	
KLHL33	NaN	NaN	NaN	25242	8694	0	0	0	0	50	2	788242	1	1	
KLHL34	93001	NaN	7	30107	10528	0	0	0	0	50	0	424487	1	1	
KLHL35	587975	205	39	27706	9506	0	0	0	0	50	0	402710	1	1	
KLHL36	567037	187	33	30254	8953	0	0	0	0	50	0	409290	1	1	
KLHL38	517269	192	22	28826	8092	0	0	0	0	50	0	378819	1	1	
KLHL4	34243	NaN	-31	37408	10157	0	0	0	0	50	0	474656	1	1	
KLHL5	497247	209	46	38122	10346	0	0	0	0	50	1	341397	1	1	
KLHL6	712779	593	32	31129	8603	0	0	0	0	50	1	439572	1	1	
KLHL7	792869	218	25	31108	7994	0	0	0	0	50	0	433293	1	1	
KLHL8	271051	327	43	31402	8393	0	0	0	0	50	0	371483	1	1	
KLHL9	232155	466	-14	30583	8351	0	0	0	0	50	0	361522	1	1	
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KLK12	490795	632	22	14028	3381	0	0	0	0	50	0	329140	1	1	
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KLK15	655673	589	25	12712	3857	0	0	0	0	50	0	484575	1	1	
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KLK7	581408	606	29	12705	3717	0	0	0	0	50	1	360248	1	1	
KLK8	536101	606	25	15603	4137	0	0	0	0	50	0	392196	1	1	
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KLRAQ1	168167	780	24	40635	10416	0	0	0	0	50	0	362754	1	1	
KLRB1	264317	618	7	11739	2940	0	0	0	0	50	1	438641	1	1	
KLRC1	382960	334	1	12187	3059	0	0	0	0	50	0	448119	1	1	
KLRC2	378365	334	0	12075	3003	0	0	0	0	50	0	426713	1	1	
KLRC3	378365	334	0	14231	3514	0	0	0	0	50	0	426713	1	1	

KLRC4	378365	334	0	8197	2072	0	0	0	0	50	0	426713	1	1	
KLRD1	406053	331	1	9688	2156	0	0	0	0	50	0	435141	1	1	
KLRF1	226318	648	33	12313	2828	0	0	0	0	50	0	356489	1	1	
KLRG1	301954	416	11	9828	2520	0	0	0	0	50	0	474705	1	1	
KLRG2	568414	428	26	19635	6573	0	0	0	0	50	1	445018	1	1	
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KMO	171933	382	-17	25508	6391	0	0	0	0	50	0	413868	1	1	
KNCN	608423	266	25	5019	1575	0	0	0	0	50	0	374528	1	1	
KNDC1	318075	452	-11	86219	26488	0	0	0	0	50	0	419489	1	1	
KNG1	463823	395	37	34195	8939	0	0	0	0	50	0	471786	1	1	
KPNA1	413070	404	34	27727	7322	0	0	0	0	50	1	344092	1	1	
KPNA2	779255	283	1	26642	7588	0	0	0	0	50	0	407687	1	1	
KPNA3	422339	296	51	27139	7091	0	0	0	0	50	1	353381	1	1	
KPNA4	444964	408	21	27265	6965	0	0	0	0	50	0	455924	1	1	
KPNA5	244987	581	14	28056	7140	0	0	0	0	50	0	427406	1	1	
KPNA6	1351816	218	27	27426	7539	0	0	0	0	50	0	443604	1	1	
KPNA7	NaN	NaN	NaN	25739	7588	0	0	0	0	50	2	787136	1	1	
KPRP	64902	818	18	27972	8652	0	0	0	0	50	0	406518	1	1	
KPTN	797690	276	38	21875	6580	0	0	0	0	50	0	446544	1	1	
KRAS	259193	512	16	11998	2891	0	0	0	0	50	1	403480	1	1	
KRBA2	772200	257	20	24745	6440	0	0	0	0	50	0	340179	1	1	
KRCC1	169985	543	5	13356	3108	0	0	0	0	50	2	398349	1	1	
KREMEN1	794944	335	-4	25011	7056	0	0	0	0	50	0	355586	1	1	
KREMEN2	1443513	234	49	23254	6587	0	0	0	0	50	0	372680	1	1	
KRI1	2036812	226	23	37261	9023	0	0	0	0	50	2	439054	1	1	
KRIT1	707455	454	27	38220	9555	0	0	0	0	50	0	390985	1	1	
KRR1	513610	524	-10	20006	4858	0	0	0	0	50	0	445319	1	1	
KRT1	1441383	464	29	31836	9513	0	0	0	0	50	0	412762	1	1	
KRT10	836683	269	-10	28798	8771	0	0	0	0	50	1	325171	1	1	
KRT12	1036346	358	5	24493	7322	0	0	0	0	50	1	265076	1	1	
KRT13	1445853	325	-22	22841	6706	0	0	0	0	50	1	375536	1	1	
KRT14	1494501	323	11	23569	6860	0	0	0	0	20	0	215425	1	1	
KRT15	1445853	325	-22	22680	6699	0	0	0	0	50	1	375536	1	1	
KRT16	1494501	323	11	23457	6993	0	0	0	0	20	0	215425	1	1	
KRT17	1494501	323	11	21525	6342	0	0	0	0	20	0	215425	1	1	
KRT18	1635177	181	43	21399	6363	0	0	0	0	50	0	380261	1	1	
KRT19	1445853	325	-22	19579	6104	0	0	0	0	50	1	375536	1	1	
KRT2	1441383	464	29	31535	9499	0	0	0	0	50	0	412762	1	1	
KRT20	1036346	358	5	21511	5894	0	0	0	0	50	1	265076	1	1	
KRT222	953708	269	13	15260	3850	0	0	0	0	50	0	395654	1	1	
KRT23	1036346	358	5	21553	5684	0	0	0	0	50	1	265076	1	1	
KRT24	953708	269	13	26089	7679	0	0	0	0	50	0	395654	1	1	
KRT25	836683	269	-10	22610	6433	0	0	0	0	50	1	325171	1	1	
KRT26	836683	269	-10	23695	6482	0	0	0	0	50	1	325171	1	1	
KRT27	836683	269	-10	22988	6622	0	0	0	0	50	1	325171	1	1	
KRT28	836683	269	-10	23289	6636	0	0	0	0	50	1	325171	1	1	
KRT3	1444461	422	38	31003	9338	0	0	0	0	50	0	439943	1	1	
KRT31	1321356	424	-6	20776	6041	0	0	0	0	50	1	331772	1	1	
KRT32	1445853	325	-22	22386	6447	0	0	0	0	50	1	375536	1	1	
KRT33A	1321356	424	-6	20209	5852	0	0	0	0	50	1	331772	1	1	

KRT33B	1321356	424	-6	20279	5782	0	0	0	0	50	1	331772	1	1	
KRT34	1321356	424	-6	21931	6146	0	0	0	0	50	1	331772	1	1	
KRT35	1445853	325	-22	22680	6678	0	0	0	0	50	1	375536	1	1	
KRT36	1445853	325	-22	23023	6965	0	0	0	0	50	1	375536	1	1	
KRT37	1321356	424	-6	22505	6391	0	0	0	0	50	1	331772	1	1	
KRT38	1321356	424	-6	22701	6594	0	0	0	0	50	1	331772	1	1	
KRT39	977588	404	10	24689	6853	0	0	0	0	50	1	280721	1	1	
KRT4	1781225	288	27	29561	8596	0	0	0	0	50	1	370993	1	1	
KRT40	977588	404	10	21798	5985	0	0	0	0	50	1	280721	1	1	
KRT5	1280474	464	36	29155	8750	0	0	0	0	50	1	403613	1	1	
KRT6A	1194800	389	29	27909	8358	0	0	0	0	50	0	356216	1	1	
KRT6B	1194800	389	29	27972	8337	0	0	0	0	50	0	356216	1	1	
KRT6C	1194800	389	29	27965	8344	0	0	0	0	50	0	356216	1	1	
KRT7	742854	178	53	23324	6958	0	0	0	0	50	1	376957	1	1	
KRT71	1280474	464	36	26243	7483	0	0	0	0	50	1	403613	1	1	
KRT72	1280474	464	36	25697	7357	0	0	0	0	50	1	403613	1	1	
KRT73	1441383	464	29	26964	7833	0	0	0	0	50	0	412762	1	1	
KRT74	1280474	464	36	26411	7693	0	0	0	0	50	1	403613	1	1	
KRT75	1194800	389	29	27377	8113	0	0	0	0	50	0	356216	1	1	
KRT76	1444461	422	38	31850	9121	0	0	0	0	50	0	439943	1	1	
KRT77	1441383	464	29	28875	8316	0	0	0	0	50	0	412762	1	1	
KRT78	1781225	288	27	25984	7553	0	0	0	0	50	1	370993	1	1	
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KRT8	1781225	288	27	24255	6846	0	0	0	0	50	1	370993	1	1	
KRT80	473704	198	46	23380	6608	0	0	0	0	50	2	345478	1	1	
KRT81	742854	178	53	25228	7364	0	0	0	0	50	1	376957	1	1	
KRT82	1065603	213	35	25697	7357	0	0	0	0	50	0	315273	1	1	
KRT83	936407	213	42	24710	7126	0	0	0	0	50	1	466067	1	1	
KRT84	936407	213	42	29631	8946	0	0	0	0	50	1	466067	1	1	
KRT85	936407	213	42	25298	7378	0	0	0	0	50	1	466067	1	1	
KRT86	839631	175	48	24360	7035	0	0	1	0	9	1	87542	1	1	
KRT9	1494501	323	11	30863	9079	0	0	0	0	20	0	215425	1	1	
KRTAP1-1	977588	404	10	8918	2338	0	0	0	0	50	1	280721	1	1	
KRTAP1-3	977588	404	10	8421	2205	0	0	0	0	50	1	280721	1	1	
KRTAP1-5	977588	404	10	8820	2247	0	0	0	0	50	1	280721	1	1	
KRTAP10-1	860604	461	30	13762	4109	0	0	0	0	50	0	434420	1	1	
KRTAP10-10	874480	461	25	12236	3682	0	0	0	0	50	0	445137	1	1	
KRTAP10-11	874480	461	25	14553	4326	0	0	0	0	50	0	445137	1	1	
KRTAP10-12	819099	391	35	11886	3654	0	0	0	0	50	0	461048	1	1	
KRTAP10-2	860604	461	30	12516	3654	0	0	0	0	50	0	434420	1	1	
KRTAP10-3	860604	461	30	10773	3297	0	0	0	0	50	0	434420	1	1	
KRTAP10-4	860604	461	30	19677	5691	0	0	0	0	50	0	434420	1	1	
KRTAP10-5	867542	461	28	13251	3969	0	0	0	0	50	0	427609	1	1	
KRTAP10-6	874480	461	25	17878	5222	0	0	0	0	50	0	445137	1	1	
KRTAP10-7	874480	461	25	18228	5271	0	0	0	0	50	0	445137	1	1	
KRTAP10-8	874480	461	25	12642	3822	0	0	0	0	50	0	445137	1	1	
KRTAP10-9	874480	461	25	14266	4235	0	0	0	0	50	0	445137	1	1	
KRTAP11-1	31443	1030	-60	7784	2590	0	0	0	0	50	0	325444	1	1	
KRTAP12-1	819099	391	35	4718	1435	0	0	0	0	16	0	119980	1	1	
KRTAP12-2	874480	461	25	7112	2191	0	0	0	0	50	0	445137	1	1	

KRTAP12-3	874480	461	25	4795	1400	0	0	0	0	8	0	31864	1	1	
KRTAP12-4	874480	461	25	5488	1715	0	0	0	0	50	0	445137	1	1	
KRTAP13-1	4608	1035	-69	8372	2569	0	0	0	0	50	0	278593	1	1	
KRTAP13-2	4608	1035	-69	8484	2646	0	0	0	0	50	0	278593	1	1	
KRTAP13-3	4608	1035	-69	8547	2373	0	0	0	0	50	0	278593	1	1	
KRTAP13-4	14979	1035	-68	7805	2296	0	0	0	0	50	0	278593	1	1	
KRTAP15-1	14979	1035	-68	6818	1918	0	0	0	0	50	0	278593	1	1	
KRTAP17-1	1149433	468	-14	5278	1442	0	0	0	0	50	1	331016	1	1	
KRTAP19-1	14979	1035	-68	4361	1330	0	0	0	0	50	0	278593	1	1	
KRTAP19-2	14979	1035	-68	2646	651	0	0	0	0	23	0	97398	1	1	
KRTAP19-3	14979	1035	-68	3920	1246	0	0	0	0	50	0	278593	1	1	
KRTAP19-4	14979	1035	-68	4102	1232	0	0	0	0	50	0	278593	1	1	
KRTAP19-5	14979	1035	-68	3521	1057	0	0	0	0	50	0	278593	1	1	
KRTAP19-6	22916	1048	-79	2898	861	0	0	0	0	45	0	221767	1	1	
KRTAP19-7	22916	1048	-79	3129	882	0	0	0	0	45	0	221767	1	1	
KRTAP19-8	200531	972	-45	3248	868	0	0	0	0	50	0	341222	1	1	
KRTAP2-1	NaN	NaN	NaN	6209	1960	0	0	0	0	50	2	781508	1	1	
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KRTAP2-4	NaN	NaN	NaN	6202	1967	0	0	0	0	50	2	781515	1	1	
KRTAP20-1	22916	1048	-79	2828	742	0	0	0	0	45	0	221767	1	1	
KRTAP20-2	28000	1055	-80	3192	945	0	0	0	0	44	0	218827	1	1	
KRTAP20-3	NaN	NaN	NaN	2296	581	0	0	0	0	28	2	256837	1	1	
KRTAP21-1	30244	1055	-70	3864	1134	0	0	0	0	50	0	283759	1	1	
KRTAP21-2	30244	1055	-70	4123	1127	0	0	0	0	50	0	283759	1	1	
KRTAP21-3	NaN	NaN	NaN	3129	672	0	0	0	0	28	2	256928	1	1	
KRTAP22-1	22916	1048	-79	2485	581	0	0	0	0	18	0	64127	1	1	
KRTAP22-2	NaN	NaN	NaN	2380	560	0	0	0	0	28	2	256816	1	1	
KRTAP23-1	4608	1035	-69	3199	1001	0	0	0	0	50	0	278593	1	1	
KRTAP24-1	6302	1011	-69	12593	3514	0	0	0	0	50	0	262570	1	1	
KRTAP25-1	NaN	NaN	NaN	5285	1288	0	0	0	0	31	2	344771	1	1	
KRTAP26-1	6302	1011	-69	10164	3129	0	0	0	0	50	0	262570	1	1	
KRTAP27-1	4608	1035	-69	10388	2800	0	0	0	0	50	0	278593	1	1	
KRTAP3-1	977588	404	10	4858	1421	0	0	0	0	50	1	280721	1	1	
KRTAP3-2	977588	404	10	4809	1470	0	0	0	0	50	1	280721	1	1	
KRTAP3-3	977588	404	10	4774	1505	0	0	1	0	7	1	24024	1	1	
KRTAP4-1	996799	468	-7	6468	1722	0	0	0	0	50	1	337050	1	1	
KRTAP4-12	832368	459	-9	10094	2674	0	0	1	0	5	1	34720	1	1	
KRTAP4-2	996799	468	-7	6895	1778	0	0	0	0	50	1	337050	1	1	
KRTAP4-3	996799	468	-7	9940	2408	0	0	0	0	50	1	337050	1	1	
KRTAP4-4	996799	468	-7	8470	2093	0	0	0	0	50	1	337050	1	1	
KRTAP4-5	996799	468	-7	9156	2352	0	0	0	0	50	1	337050	1	1	
KRTAP4-7	NaN	NaN	NaN	7784	2044	0	0	0	0	50	2	781592	1	1	
KRTAP4-8	NaN	NaN	NaN	9366	2394	0	0	0	0	50	2	781942	1	1	
KRTAP5-1	NaN	NaN	NaN	13475	4186	0	0	0	0	50	2	783734	1	1	
KRTAP5-10	586193	626	50	9912	2919	0	0	0	0	50	0	337253	1	1	
KRTAP5-11	586193	626	50	7861	2072	0	0	0	0	50	0	337253	1	1	
KRTAP5-2	NaN	NaN	NaN	8743	2513	0	0	0	0	50	2	782061	1	1	
KRTAP5-3	NaN	NaN	NaN	11795	3304	0	0	0	0	50	2	782852	1	1	
KRTAP5-4	NaN	NaN	NaN	11165	3304	0	0	0	0	50	2	782852	1	1	
KRTAP5-5	NaN	NaN	NaN	11620	3416	0	0	0	0	50	2	782964	1	1	

DOI: 10.26717.BJSTR.2019.15.002641

KRTAP5-6	NaN	NaN	NaN	6426	1806	0	0	0	0	50	2	781354	1	1	
KRTAP5-7	586193	626	50	8218	2282	0	0	0	0	50	0	337253	1	1	
KRTAP5-9	586193	626	50	8449	2261	0	0	0	0	50	0	337253	1	1	
KRTAP6-1	22916	1048	-79	3493	1085	0	0	0	0	45	0	221767	1	1	
KRTAP6-2	22916	1048	-79	3129	819	0	0	0	0	45	0	221767	1	1	
KRTAP6-3	22916	1048	-79	5432	1603	0	0	0	0	50	0	319676	1	1	
KRTAP7-1	NaN	NaN	NaN	4389	1197	0	0	0	0	31	2	344680	1	1	
KRTAP8-1	30244	1055	-70	3171	903	0	0	0	0	50	0	283759	1	1	
KRTAP9-2	996799	468	-7	8764	2303	0	0	0	0	50	1	337050	1	1	
KRTAP9-3	996799	468	-7	8057	2065	0	0	0	0	50	1	337050	1	1	
KRTAP9-4	1149433	468	-14	7798	2009	0	0	0	0	50	1	331016	1	1	
KRTAP9-8	996799	468	-7	8029	2093	0	0	0	0	50	1	337050	1	1	
KRTAP9-9	1149433	468	-14	8526	2226	0	0	0	0	50	1	331016	1	1	
KRTCAP2	1801444	194	32	8134	2555	0	0	0	0	50	0	392000	1	1	
KRTCAP3	1244404	179	39	11655	4074	0	0	0	0	50	0	425159	1	1	
KRTDAP	827597	367	29	5348	1456	0	0	0	0	50	0	378784	1	1	
KSR1	171783	444	-9	38542	11039	0	0	0	0	50	0	400057	1	1	
KSR2	639801	685	-6	46585	13139	0	0	0	0	50	1	441322	1	1	
KTELC1	280646	599	33	20545	5096	0	0	0	0	50	0	311927	1	1	
KTI12	NaN	NaN	NaN	16688	5719	0	0	0	0	50	2	785267	1	1	
KTN1	687929	308	23	72863	16534	0	0	0	0	50	0	502971	1	1	
KY	221323	459	13	33761	8827	0	0	0	0	50	0	399413	1	1	
KYNU	48515	369	20	24668	6370	0	0	0	0	50	0	406630	1	1	
L1TD1	274287	422	-1	43757	10885	0	0	0	0	50	0	405293	1	1	
L2HGDH	666223	337	28	23282	6748	0	0	0	0	50	2	384524	1	1	
L3MBTL	321277	399	-2	41076	11046	0	0	0	0	50	0	432047	1	1	
L3MBTL2	1301913	179	53	36785	9730	0	0	0	0	50	1	412930	1	1	
L3MBTL3	68020	844	23	40971	9996	0	0	0	0	50	0	379267	1	1	
L3MBTL4	236747	877	7	32732	8092	0	0	0	0	50	0	399595	1	1	
LACE1	346225	491	37	24913	6461	0	0	0	0	50	0	365652	1	1	
LACRT	615189	494	31	7140	2037	0	0	0	0	50	1	496139	1	1	
LACTB	451944	230	36	27314	7714	0	0	0	0	50	0	406049	1	1	
LACTB2	240331	562	31	14917	3836	0	0	0	0	50	0	456974	1	1	
LAD1	857879	209	26	25564	7826	0	0	0	0	50	0	330008	1	1	
LAG3	2816186	232	48	25361	8407	0	0	0	0	50	1	498071	1	1	
LAGE3	2163759	NaN	42	6825	2415	0	0	0	0	50	0	434609	1	1	
LAIR1	742939	507	-9	14665	4235	0	0	0	0	50	1	353325	1	1	
LAIR2	819283	601	-4	7686	2289	0	0	0	0	50	0	441427	1	1	
LALBA	1494035	421	25	7532	1771	0	0	0	0	50	0	364035	1	1	
LAMA1	241772	228	-37	156296	42742	0	0	0	0	50	0	412013	1	1	
LAMA2	67993	771	-6	159432	42693	0	0	0	0	50	0	523698	1	1	
LAMA3	317706	216	60	172578	47397	0	0	0	0	50	1	421911	1	1	
LAMA4	131437	282	-7	95977	25571	0	0	0	0	50	0	413910	1	1	
LAMA5	1090360	252	21	182973	56553	0	0	0	0	8	0	162323	1	1	
LAMB1	481432	406	11	91924	23429	0	0	0	0	50	1	524314	1	1	
LAMB2	1898051	203	36	89313	26628	0	0	0	0	50	1	452060	1	1	
LAMB3	211663	300	4	58814	16933	0	0	0	0	46	0	342692	1	1	
LAMB4	487451	326	4	90272	23506	0	0	0	0	50	0	444206	1	1	
LAMC1	767936	374	17	82096	21602	0	0	0	0	50	0	449610	1	1	
LAMC2	764899	413	19	60872	16324	0	0	0	0	50	1	488327	1	1	

LAMC3	815585	293	36	78624	22974	0	0	0	0	50	0	481719	1	1	
LAMP1	815646	237	53	20825	6181	0	0	0	0	50	0	386477	1	1	
LAMP2	475981	NaN	26	25403	7189	0	0	0	0	50	0	501550	1	1	
LAMP3	296133	596	24	20356	6335	0	0	0	0	50	0	545545	1	1	
LANCL1	159584	453	3	20510	5446	0	0	0	0	50	1	350714	1	1	
LANCL2	752223	455	7	22638	6447	0	0	0	0	50	0	314349	1	1	
LANCL3	108134	NaN	13	21728	6601	0	0	0	0	50	0	411593	1	1	
LAP3	271232	912	35	26439	7329	0	0	0	0	50	0	358526	1	1	
LAPTM4A	520645	166	26	12047	3199	0	0	0	0	50	1	454699	1	1	
LAPTM4B	609859	175	39	15694	4844	0	0	0	0	50	0	411467	1	1	
LAPTM5	348498	411	35	13503	3696	0	0	0	0	50	2	383488	1	1	
LARGE	31722	968	-69	38339	10528	0	0	0	0	50	0	327005	1	1	
LARP1	549658	179	27	51639	14175	0	0	0	0	50	1	428708	1	1	
LARP1B	232013	314	13	49399	12488	0	0	0	0	50	0	344421	1	1	
LARP4	855863	125	41	37093	9884	0	0	0	0	50	1	483847	1	1	
LARP4B	378329	515	9	37275	10668	0	0	0	0	50	0	363713	1	1	
LARP6	250598	339	10	25508	7462	0	0	0	0	50	0	389053	1	1	
LARP7	252277	692	39	30457	7280	0	0	0	0	50	0	400519	1	1	
LARS	396074	366	11	61481	15274	0	0	0	0	50	0	500969	1	1	
LARS2	439463	363	38	46151	12481	0	0	0	0	50	0	469770	1	1	
LAS1L	321325	NaN	10	37548	9891	0	0	0	0	50	0	463848	1	1	
LASP1	1255539	159	41	13748	3262	0	0	0	0	50	0	445382	1	1	
LASS1	1346431	176	24	17402	5299	0	0	0	0	50	0	410144	1	1	
LASS2	1621279	172	30	19593	5313	0	0	0	0	50	0	381178	1	1	
LASS3	239951	474	-31	20209	4802	0	0	0	0	50	1	440601	1	1	
LASS4	826957	209	15	19950	5754	0	0	0	0	50	0	438340	1	1	
LASS5	1040456	192	58	20244	5313	0	0	0	0	50	1	426426	1	1	
LASS6	192358	937	21	19803	5208	0	0	0	0	50	0	410578	1	1	
LAT	1148899	257	51	15372	4431	0	0	0	0	50	0	410410	1	1	
LAT2	997452	202	51	13062	3318	0	0	0	0	50	1	322196	1	1	
LATS1	431427	210	40	56357	15400	0	0	0	0	50	0	375312	1	1	
LATS2	446900	192	41	53242	15869	0	0	0	0	50	1	345478	1	1	
LAX1	515575	280	39	20776	5600	0	0	0	0	50	0	365057	1	1	
LAYN	418517	326	21	19047	5082	0	0	0	0	50	0	413672	1	1	
LBH	136617	581	18	5509	1337	0	0	0	0	50	0	355642	1	1	
LBP	563754	350	47	24549	7035	0	0	0	0	50	0	449827	1	1	
LBR	660503	319	0	31409	8491	0	0	0	0	50	0	420266	1	1	
LBX1	572649	418	43	13475	4375	0	0	0	0	50	0	475475	1	1	
LBX2	1019591	315	50	9128	3241	0	0	0	0	50	0	429359	1	1	
LBXCOR1	305591	319	21	44513	14329	0	0	0	0	50	0	472801	1	1	
LCA5	300263	564	0	35406	9072	0	0	0	0	50	0	377153	1	1	
LCA5L	339359	346	25	34279	8624	0	0	0	0	50	0	398916	1	1	
LCAT	879834	158	50	21763	6524	0	0	0	0	50	2	467285	1	1	
LCE1A	62450	804	15	5439	1533	0	0	0	0	50	0	376285	1	1	
LCE1B	64902	818	18	5824	1673	0	0	0	0	50	0	406518	1	1	
LCE1C	64902	818	18	5915	1666	0	0	0	0	50	0	406518	1	1	
LCE1D	64902	818	18	5761	1610	0	0	0	0	50	0	406518	1	1	
LCE1E	64902	818	18	5943	1638	0	0	0	0	50	0	406518	1	1	
LCE1F	64902	818	18	5810	1666	0	0	0	0	50	0	406518	1	1	
LCE2A	169158	818	24	5334	1491	0	0	0	0	38	0	274617	1	1	

LCE2B	169158	818	24	5495	1582	0	0	0	0	50	0	396879	1	1	
LCE2C	169158	818	24	5523	1554	0	0	0	0	50	0	396879	1	1	
LCE2D	169158	818	24	5523	1554	0	0	0	0	50	0	396879	1	1	
LCE3A	285984	752	17	4452	1197	0	0	0	0	50	1	444311	1	1	
LCE3B	285984	752	17	4690	1337	0	0	0	0	50	1	444311	1	1	
LCE3C	285984	752	17	4739	1330	0	0	0	0	50	1	444311	1	1	
LCE3D	285984	752	17	4592	1351	0	0	0	0	50	1	444311	1	1	
LCE3E	285984	752	17	4606	1337	0	0	0	0	50	1	444311	1	1	
LCE4A	169158	818	24	5033	1351	0	0	0	0	38	0	274617	1	1	
LCE5A	325831	700	20	5901	1680	0	0	0	0	50	1	547736	1	1	
LCE6A	NaN	NaN	NaN	4074	1113	0	0	0	0	31	2	344596	1	1	
LCK	1427362	210	43	26082	7077	0	0	0	0	50	0	506744	1	1	
LCLAT1	140581	648	21	21315	5334	0	0	0	0	50	0	442099	1	1	
LCMT1	273088	418	23	17486	4459	0	0	0	0	50	0	353486	1	1	
LCMT2	823006	415	50	32711	10570	0	0	0	0	50	2	483490	1	1	
LCN1	327501	539	37	9184	2492	0	0	0	0	50	0	371119	1	1	
LCN10	1898901	190	39	10136	2989	0	0	0	0	50	0	489384	1	1	
LCN12	1979517	188	34	9870	2793	0	0	0	0	50	1	413833	1	1	
LCN15	1898901	190	39	9632	2569	0	0	0	0	50	0	489384	1	1	
LCN2	1762678	201	44	10360	2723	0	0	0	0	50	0	378700	1	1	
LCN6	1898901	190	39	8372	2422	0	0	0	0	50	0	489384	1	1	
LCN8	1898901	190	39	7952	2191	0	0	0	0	50	0	489384	1	1	
LCN9	362222	524	29	9079	2345	0	0	0	0	50	0	474586	1	1	
LCNL1	1979517	188	34	8036	2527	0	0	0	0	50	1	413833	1	1	
LCOR	989428	512	43	21693	6090	0	0	0	0	50	0	534156	1	1	
LCORL	271221	1064	26	33320	9016	0	0	0	0	50	0	431347	1	1	
LCP1	400791	682	47	32382	8442	0	0	0	0	50	1	266602	1	1	
LCP2	79392	629	34	28126	7196	0	0	0	0	50	1	385896	1	1	
LCT	493727	403	28	95907	26943	0	0	0	0	50	0	435561	1	1	
LCTL	553330	219	58	29260	7532	0	0	0	0	50	0	418978	1	1	
LDB1	1018634	187	38	21406	5390	0	0	0	0	50	0	418922	1	1	
LDB2	55867	983	2	21042	5439	0	0	0	0	50	1	455840	1	1	
LDB3	352918	192	27	41342	12628	0	0	0	0	50	0	489636	1	1	
LDHA	599909	176	42	20202	5187	0	0	0	0	50	1	420924	1	1	
LDHAL6A	611782	176	31	17038	4529	0	0	0	0	50	2	321209	1	1	
LDHAL6B	NaN	NaN	NaN	18725	5383	0	0	0	0	50	2	784931	1	1	
LDHB	502803	826	-13	17129	4564	0	0	0	0	50	0	343238	1	1	
LDHC	599909	176	42	16933	4634	0	0	0	0	50	1	420924	1	1	
LDHD	681970	162	22	24976	7910	0	0	0	0	50	0	466970	1	1	
LDLR	1808766	233	33	44331	11340	0	0	0	0	50	1	399553	1	1	
LDLRAD1	430138	201	31	10577	2863	0	0	0	0	50	0	350560	1	1	
LDLRAD2	502881	181	28	13174	4403	0	0	0	0	50	1	436695	1	1	
LDLRAD3	240340	434	-10	17430	4830	0	0	0	0	50	0	448511	1	1	
LDLRAP1	562107	424	19	15771	4368	0	0	0	0	50	0	409619	1	1	
LDOC1	18788	NaN	-20	7259	2002	0	0	0	0	50	1	391475	1	1	
LDOC1L	216551	425	14	11158	3962	0	0	0	0	50	0	426216	1	1	
LEAP2	686574	200	66	3997	1127	0	0	0	0	50	1	315371	1	1	
LECT1	288742	469	24	17087	4522	0	0	0	0	50	0	462609	1	1	
LECT2	489402	443	19	7714	2114	0	0	0	0	50	0	320915	1	1	
LEF1	231204	771	22	22260	5817	0	0	0	0	50	0	413266	1	1	

LEFTY1	924499	239	8	17668	5747	0	0	0	0	50	0	367479	1	1	
LEFTY2	923085	239	20	17640	5733	0	0	1	0	50	1	353304	1	1	
LEKR1	364723	522	10	36029	8638	0	0	0	0	50	0	377223	1	1	
LELP1	822908	602	28	5026	1295	0	0	0	0	33	0	285740	1	1	
LEMD1	662921	249	41	5628	1491	0	0	0	0	9	1	87556	1	1	
LEMD2	1565139	428	28	24591	7875	0	0	0	0	50	0	366639	1	1	
LEMD3	299752	577	7	45227	13279	0	0	0	0	50	1	414316	1	1	
LENEP	1612870	224	35	3038	994	0	0	0	0	50	0	363538	1	1	
LENG1	735613	439	-53	13034	4039	0	0	0	0	27	0	192724	1	1	
LENG8	807048	535	-7	40096	11627	0	0	0	0	50	1	360997	1	1	
LENG9	807048	535	-7	23184	8484	0	0	0	0	50	1	360997	1	1	
LEO1	575343	136	34	34874	8113	0	0	0	0	50	2	360430	1	1	
LEP	925335	373	30	8302	2450	0	0	0	0	50	0	384237	1	1	
LEPR	178338	528	-8	63665	16093	0	0	0	0	50	0	462413	1	1	
LEPRE1	820426	426	30	37436	10570	0	0	0	0	50	0	445256	1	1	
LEPREL1	165372	399	3	35777	10066	0	0	0	0	50	1	365001	1	1	
LEPREL2	2822601	232	32	35987	11641	0	0	0	0	31	0	242151	1	1	
LEPROT	239577	511	-3	6664	1904	0	0	0	0	50	0	394800	1	1	
LEPROTL1	387693	231	51	10360	3101	0	0	0	0	50	0	376131	1	1	
LETM1	851373	239	44	36988	10724	0	0	0	0	50	0	462994	1	1	
LETM2	841740	381	49	20041	5642	0	0	0	0	50	1	496944	1	1	
LETMD1	564607	155	40	18256	5201	0	0	0	0	50	0	385154	1	1	
LEUTX	NaN	NaN	NaN	8372	2401	0	0	0	0	50	2	781949	1	1	
LFNG	783535	226	47	23541	7140	0	0	0	0	50	0	408933	1	1	
LGALS1	1136064	180	65	7000	1904	0	0	0	0	50	0	379680	1	1	
LGALS12	887496	459	31	16912	5054	0	0	0	0	50	0	443387	1	1	
LGALS13	1148741	322	25	7245	1869	0	0	0	0	50	0	373254	1	1	
LGALS14	1243326	439	23	8918	2338	0	0	0	0	50	0	349769	1	1	
LGALS2	991778	176	51	6916	1757	0	0	0	0	50	1	395339	1	1	
LGALS3	801045	143	47	13951	4109	0	0	0	0	50	2	418950	1	1	
LGALS3BP	632955	177	28	28672	8666	0	0	0	0	50	1	345408	1	1	
LGALS4	1843355	219	37	16632	4578	0	0	0	0	50	0	448147	1	1	
LGALS7	1697047	322	45	6846	2121	0	0	0	0	50	0	437045	1	1	
LGALS7B	1697047	322	45	6846	2121	0	0	0	0	50	0	437045	1	1	
LGALS9	186737	462	-5	18158	5110	0	0	0	0	50	0	346297	1	1	
LGALS9B	384584	413	-6	18270	5040	0	0	0	0	50	0	457569	1	1	
LGALS9C	928601	254	0	18347	5026	0	0	0	0	50	0	344428	1	1	
LGI1	488719	532	4	28406	7336	0	0	0	0	50	0	452662	1	1	
LGI2	293829	582	26	27622	7406	0	0	0	0	50	1	540953	1	1	
LGI3	587455	196	50	26992	8183	0	0	0	0	50	1	394975	1	1	
LGI4	745516	357	-9	25970	8596	0	0	0	0	50	0	351120	1	1	
LGMN	423482	499	48	22631	5803	0	0	0	0	50	1	387415	1	1	
LGR4	345497	337	-18	48097	13307	0	0	0	0	50	1	410725	1	1	
LGR5	250555	516	-34	45549	13125	0	0	0	0	50	1	424718	1	1	
LGR6	674939	297	37	49469	15988	0	0	0	0	50	0	436982	1	1	
LGSN	255425	359	-9	25970	6454	0	0	0	0	50	0	425390	1	1	
LGTN	504002	288	38	29771	8260	0	0	0	0	50	0	352114	1	1	
LHB	2070141	200	35	6923	2275	0	0	0	0	50	0	356741	1	1	
LHCGR	75021	934	-16	34937	10045	0	0	0	0	50	1	424648	1	1	
LHFP	153723	939	4	9898	2933	0	0	0	0	50	1	345247	1	1	

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LHFPL1	25206	NaN	7	11018	3157	0	0	0	0	50	0	504042	1	1	
LHFPL2	214373	434	44	11200	3311	0	0	0	0	50	2	480508	1	1	
LHFPL3	324628	895	5	11669	3430	0	0	0	0	50	0	434350	1	1	
LHFPL4	858637	425	36	12089	3703	0	0	0	0	50	0	437409	1	1	
LHFPL5	621095	404	34	10948	3164	0	0	0	0	50	0	437409	1	1	
LHPP	305373	430	22	13573	4046	0	0	0	0	50	0	415590	1	1	
LHX1	625114	462	21	20188	5831	0	0	0	0	50	0	407421	1	1	
LHX2	306688	342	19	20027	5950	0	0	0	0	50	3	463848	1	1	
LHX3	799089	244	42	20965	6587	0	0	0	0	50	0	455364	1	1	
LHX4	463883	254	13	19698	5355	0	0	0	0	50	0	461076	1	1	
LHX5	444269	468	25	19922	5803	0	0	0	0	50	0	488733	1	1	
LHX6	220092	528	30	20706	6048	0	0	0	0	50	0	397061	1	1	
LHX8	162631	959	-23	18144	5019	0	0	0	0	50	1	500899	1	1	
LHX9	98527	448	-18	20258	5824	0	0	0	0	50	0	356349	1	1	
LIAS	648710	177	43	19271	5110	0	0	0	0	50	1	434896	1	1	
LIF	548674	211	43	9954	3003	0	0	0	0	50	2	391706	1	1	
LIFR	159760	271	-2	56252	14518	0	0	0	0	50	0	407834	1	1	
LIG1	973756	431	26	46767	13461	0	0	0	0	50	0	483007	1	1	
LIG3	362649	525	15	52171	14273	0	0	0	0	50	1	456316	1	1	
LIG4	71759	952	-32	45598	11942	0	0	0	0	50	0	357112	1	1	
LILRA2	819283	601	-4	23940	7182	0	0	0	0	50	0	441427	1	1	
LILRA3	730281	458	-8	21616	6692	0	0	0	0	50	1	353514	1	1	
LILRA4	742939	507	-9	24675	7455	0	0	0	0	50	1	353325	1	1	
LILRA5	742939	507	-9	16492	4760	0	0	0	0	50	1	353325	1	1	
LILRB1	978578	625	-1	32578	9737	0	0	0	0	50	0	435701	1	1	
LILRB2	717623	458	-6	29701	9128	0	0	0	0	50	1	354487	1	1	
LILRB3	717623	458	-6	31549	9338	0	0	0	0	50	1	354487	1	1	
LILRB4	978578	625	-1	22673	6538	0	0	0	0	50	0	435701	1	1	
LILRB5	717623	458	-6	29309	8995	0	0	0	0	50	1	354487	1	1	
LIM2	368509	610	-9	10801	3143	0	0	0	0	50	0	281603	1	1	
LIMA1	1008076	144	57	38752	10031	0	0	0	0	50	0	389291	1	1	
LIMCH1	319991	391	31	56322	14742	0	0	0	0	50	1	418810	1	1	
LIMD1	340032	231	45	33166	10115	0	0	0	0	50	0	343616	1	1	
LIMD2	935285	319	8	6713	1687	0	0	0	0	50	0	308091	1	1	
LIME1	1126597	202	36	14098	4970	0	0	0	0	50	1	361445	1	1	
LIMK1	1047202	219	52	32760	9324	0	0	0	0	50	0	382480	1	1	
LIMK2	667559	221	43	39228	10878	0	0	0	0	50	2	428505	1	1	
LIMS1	363356	408	30	17283	4011	0	0	0	0	50	0	470659	1	1	
LIMS2	603350	218	42	20258	5299	0	0	0	0	50	1	379771	1	1	
LIMS3	NaN	NaN	NaN	12068	3136	0	0	0	0	50	2	782684	1	1	
LIN28A	1046693	181	33	10598	2884	0	0	0	0	50	0	356629	1	1	
LIN28B	108630	702	-4	12579	3486	0	0	0	0	50	0	408632	1	1	
LIN37	1151198	321	30	12887	3430	0	0	0	0	50	0	375571	1	1	
LIN52	541052	236	43	6286	1547	0	0	0	0	50	1	374577	1	1	
LIN54	667566	169	45	37128	11130	0	0	0	0	50	3	411698	1	1	
LIN7A	27634	987	-4	11711	3409	0	0	0	0	50	0	352009	1	1	
LIN7B	2011861	267	47	10395	3255	0	0	0	0	50	0	405790	1	1	
LIN7C	371553	477	-10	10017	2835	0	0	0	0	50	0	491239	1	1	
LIN9	739974	278	21	28945	7448	0	0	0	0	50	0	440741	1	1	
LINGO1	400940	503	38	29610	9639	0	0	0	0	50	0	369887	1	1	

LINGO2	8941	927	-34	29505	8820	0	0	0	0	50	0	386253	1	1	
LINGO3	1553589	240	29	27125	10318	0	0	0	0	50	0	371868	1	1	
LINGO4	1062482	255	29	27601	9905	0	0	0	0	50	0	440902	1	1	
LINS1	290809	374	-9	38164	10073	0	0	0	0	50	0	429891	1	1	
LIPA	254295	263	31	20713	5222	0	0	0	0	50	0	369299	1	1	
LIPC	441540	310	27	25277	6979	0	0	0	0	50	0	408240	1	1	
LIPE	704668	235	34	51611	16996	0	0	0	0	50	0	366135	1	1	
LIPF	145689	327	40	20727	5166	0	0	0	0	50	0	398587	1	1	
LIPG	243067	352	56	25585	6734	0	0	0	0	50	1	293923	1	1	
LIPH	953031	366	31	23198	6034	0	0	0	0	50	0	397579	1	1	
LIPI	95960	991	-18	25060	6104	0	0	0	0	50	1	413021	1	1	
LIPJ	160462	318	32	19348	4508	0	0	0	0	50	0	395108	1	1	
LIPK	160610	327	36	20671	5159	0	0	0	0	50	0	395759	1	1	
LIPM	NaN	NaN	NaN	21861	5565	0	0	0	0	50	2	785113	1	1	
LIPN	175532	327	31	20692	5075	0	0	0	0	50	1	387100	1	1	
LIPT1	504421	770	21	18725	4942	0	0	0	0	50	1	370118	1	1	
LIPT2	NaN	NaN	NaN	10794	3948	0	0	0	0	50	2	783496	1	1	
LITAF	649939	209	30	9457	2849	0	0	0	0	50	1	326347	1	1	
LIX1	382123	614	38	14399	3850	0	0	0	0	50	1	453166	1	1	
LIX1L	NaN	NaN	NaN	16527	5229	0	0	0	0	50	2	784777	1	1	
LLGL1	925111	223	18	52542	16422	0	0	0	0	50	1	395185	1	1	
LLGL2	1907659	195	31	52171	15533	0	0	0	0	50	2	429247	1	1	
LLPH	243040	696	5	6860	1498	0	0	0	0	50	0	416962	1	1	
LMAN1	292594	549	35	26425	6818	0	0	0	0	50	0	376033	1	1	
LMAN1L	764533	195	46	26124	8211	0	0	0	0	50	2	423304	1	1	
LMAN2	942017	227	53	18025	5054	0	0	0	0	50	1	389921	1	1	
LMAN2L	921353	219	45	18361	5033	0	0	0	0	50	1	545531	1	1	
LMBR1	338947	615	6	25375	6902	0	0	0	0	50	0	388129	1	1	
LMBR1L	1955973	214	60	24612	7602	0	0	0	0	50	0	519421	1	1	
LMBRD1	42273	983	-2	28042	7301	0	0	0	0	50	0	391041	1	1	
LMBRD2	174910	599	-4	36176	9100	0	0	0	0	50	0	435477	1	1	
LMCD1	92154	581	1	18382	5096	0	0	0	0	50	1	509481	1	1	
LMF1	1167662	304	17	28196	8470	0	0	0	0	50	0	462259	1	1	
LMF2	1075525	207	42	34335	11403	0	0	0	0	50	1	421141	1	1	
LMLN	607598	410	30	35560	9485	0	0	0	0	50	1	365330	1	1	
LMNA	2150035	180	39	33166	10094	0	0	0	0	50	0	430668	1	1	
LMNB1	237464	579	37	29701	8120	0	0	0	0	50	0	399679	1	1	
LMNB2	1604277	267	35	29974	8855	0	0	0	0	50	0	448427	1	1	
LMO1	245012	535	10	8148	1995	0	0	0	0	50	0	470694	1	1	
LMO2	748742	394	32	11235	3381	0	0	0	0	50	0	493094	1	1	
LMO3	149303	802	-15	7560	1890	0	0	0	0	50	0	437255	1	1	
LMO4	279257	521	-10	8519	2275	0	0	0	0	50	0	482650	1	1	
LMO7	197158	342	46	87843	22323	0	0	0	0	50	0	380044	1	1	
LMOD1	743998	168	27	29715	8316	0	0	0	0	50	0	469980	1	1	
LMOD2	86849	536	-10	27146	7546	0	0	0	0	50	1	537159	1	1	
LMOD3	264082	443	20	28469	7042	0	0	0	0	50	0	453656	1	1	
LMTK2	457962	375	19	74501	21343	0	0	0	0	50	0	372554	1	1	
LMTK3	1500967	182	37	70539	24591	0	0	0	0	50	0	552468	1	1	
LMX1A	292562	797	-13	19628	5173	0	0	0	0	50	0	335762	1	1	
LMX1B	106522	480	39	21098	5614	0	0	0	0	50	1	489657	1	1	

LNP1	376655	410	13	9247	2282	0	0	0	0	50	0	498540	1	1	
LNPEP	393651	469	46	52248	13818	0	0	0	0	50	1	470204	1	1	
LNX1	116784	492	26	37884	10857	0	0	0	0	50	0	429639	1	1	
LNX2	327769	583	60	34517	9772	0	0	0	0	50	0	255822	1	1	
LOC100128071	NaN	NaN	NaN	6048	2184	0	0	0	0	50	2	781732	1	1	
LOC100128542	NaN	NaN	NaN	7854	2394	0	0	0	0	50	2	781942	1	1	
LOC100130274	NaN	NaN	NaN	20251	7532	0	0	0	0	50	2	787080	1	1	
LOC100130932	NaN	NaN	NaN	3808	917	0	0	0	0	31	2	344400	1	1	
LOC100130933	NaN	NaN	NaN	3192	861	0	0	0	0	30	2	308777	1	1	
LOC100131801	NaN	NaN	NaN	4123	896	0	0	0	0	30	2	308812	1	1	
LOC100132247	NaN	NaN	NaN	54285	17661	0	0	0	0	50	2	797209	1	1	
LOC100132963	NaN	NaN	NaN	5054	1498	0	0	0	0	31	2	344981	1	1	
LOC100133893	NaN	NaN	NaN	16982	4711	0	0	0	0	50	2	784259	1	1	
LOC100287428	NaN	NaN	NaN	18928	6272	0	0	0	0	50	2	785820	1	1	
LOC100287718	NaN	NaN	NaN	11305	3080	0	0	0	0	50	2	782628	1	1	
LOC100288797	NaN	NaN	NaN	7266	2457	0	0	0	0	50	2	782005	1	1	
LOC100302652	223391	572	-10	28196	7693	0	0	0	0	50	0	414400	1	1	
LOC150786	456915	540	2	12432	3633	0	0	0	0	50	0	529963	1	1	
LOC153328	471108	443	23	7980	2310	0	0	0	0	50	0	449708	1	1	
LOC200030	NaN	NaN	NaN	82250	20440	0	0	0	0	50	2	799988	1	1	
LOC200726	269047	832	14	9170	2464	0	0	0	0	50	1	333753	1	1	
LOC221710	251884	409	26	4473	1407	0	0	0	0	50	0	395381	1	1	
LOC283999	NaN	NaN	NaN	18186	6951	0	0	0	0	50	2	786499	1	1	
LOC285033	904852	213	43	6020	1855	0	0	0	0	50	1	474096	1	1	
LOC286238	126536	629	8	5712	1491	0	0	0	0	50	0	399490	1	1	
LOC339047	NaN	NaN	NaN	37576	10472	0	0	0	0	50	2	790020	1	1	
LOC342346	NaN	NaN	NaN	56266	16919	0	0	0	0	50	2	796467	1	1	
LOC360030	NaN	NaN	NaN	10017	2184	0	0	0	0	50	2	781732	1	1	
LOC375190	NaN	NaN	NaN	17325	3969	0	0	0	0	50	2	783517	1	1	
LOC388588	NaN	NaN	NaN	4081	1106	0	0	0	0	31	2	344589	1	1	
LOC388946	NaN	NaN	NaN	11074	2954	0	0	0	0	50	2	782502	1	1	
LOC389333	NaN	NaN	NaN	46585	17465	0	0	0	0	50	2	797013	1	1	
LOC389493	NaN	NaN	NaN	4746	1554	0	0	0	0	31	2	345037	1	1	
LOC390595	NaN	NaN	NaN	18249	6195	0	0	0	0	50	2	785743	1	1	
LOC391322	NaN	NaN	NaN	5936	2002	0	0	0	0	50	2	781550	1	1	
LOC400696	NaN	NaN	NaN	7826	2044	0	0	0	0	50	2	781592	1	1	
LOC401052	944872	170	42	5852	1729	0	0	0	0	50	1	455161	1	1	
LOC401097	NaN	NaN	NaN	11214	4410	0	0	0	0	50	2	783958	1	1	
LOC401387	NaN	NaN	NaN	43337	11326	0	0	0	0	50	2	790874	1	1	
LOC402644	NaN	NaN	NaN	8029	1988	0	0	0	0	50	2	781536	1	1	
LOC402778	NaN	NaN	NaN	6384	1953	0	0	0	0	50	2	781501	1	1	
LOC440563	NaN	NaN	NaN	14609	3955	0	0	0	0	50	2	783503	1	1	
LOC441056	NaN	NaN	NaN	89530	32984	0	0	0	0	50	2	812532	1	1	
LOC441294	368082	372	-17	38416	10619	0	0	0	0	50	1	425726	1	1	
LOC441869	NaN	NaN	NaN	18200	7210	0	0	0	0	50	2	786758	1	1	
LOC55908	1691034	233	32	9632	3199	0	0	0	0	50	0	415884	1	1	
LOC642587	199789	427	-2	4977	1680	0	0	0	0	50	0	444598	1	1	
LOC642597	NaN	NaN	NaN	3633	861	0	0	0	0	30	2	308777	1	1	
LOC643008	NaN	NaN	NaN	3892	1190	0	0	0	0	31	2	344673	1	1	
LOC643596	NaN	NaN	NaN	7427	2548	0	0	0	0	50	2	782096	1	1	

LOC643677	NaN	NaN	NaN	353948	92512	0	0	0	0	4	0	118167	1	1	
LOC644538	NaN	NaN	NaN	3899	1393	0	0	0	0	31	2	344876	1	1	
LOC645961	NaN	NaN	NaN	54873	16926	0	0	0	0	50	2	796474	1	1	
LOC646498	1812695	203	45	10304	2884	0	0	0	0	50	0	392385	1	1	
LOC646627	NaN	NaN	NaN	3752	1288	0	0	0	0	31	2	344771	1	1	
LOC646851	NaN	NaN	NaN	30170	7147	0	0	0	0	50	2	786695	1	1	
LOC647309	NaN	NaN	NaN	16947	4536	0	0	0	0	50	2	784084	1	1	
LOC649330	118495	792	12	14672	3934	0	0	0	0	50	0	358736	1	1	
LOC653486	NaN	NaN	NaN	4935	1365	0	0	0	0	31	2	344848	1	1	
LOC653543	NaN	NaN	NaN	46501	16982	0	0	0	0	50	2	796530	1	1	
LOC653544	NaN	NaN	NaN	134400	49560	0	0	0	0	50	2	829108	1	1	
LOC653545	NaN	NaN	NaN	134400	49560	0	0	0	0	50	2	829108	1	1	
LOC653548	NaN	NaN	NaN	134400	49560	0	0	0	0	50	2	829108	1	1	
LOC728392	NaN	NaN	NaN	5649	1911	0	0	0	0	50	2	781459	1	1	
LOC728410	NaN	NaN	NaN	112000	41300	0	0	0	0	50	2	820848	1	1	
LOC728819	NaN	NaN	NaN	15834	4074	0	0	0	0	50	2	783622	1	1	
LOC729020	NaN	NaN	NaN	11305	3122	0	0	0	0	50	2	782670	1	1	
LOC729991	NaN	NaN	NaN	6454	1610	0	0	0	0	31	2	345093	1	1	
LOC729991-MEF2B	NaN	NaN	NaN	18935	4711	0	0	0	0	50	2	784259	1	1	
LOC730755	NaN	NaN	NaN	6202	1967	0	0	0	0	50	2	781515	1	1	
LOC81691	244139	580	32	39557	10864	0	0	0	0	50	0	403613	1	1	
LOH12CR1	707022	279	27	10003	2660	0	0	0	0	50	0	531545	1	1	
LONP1	935129	225	23	47565	14385	0	0	0	0	50	1	302995	1	1	
LONP2	200017	467	-14	42539	12418	0	0	0	0	50	0	355698	1	1	
LONRF1	119955	694	3	38521	11207	0	0	0	0	50	1	361382	1	1	
LONRF2	94009	703	5	37296	11193	0	0	0	0	50	1	466830	1	1	
LONRF3	571717	NaN	27	37919	10843	0	0	0	0	50	0	420112	1	1	
LOR	836876	556	24	14399	5404	0	0	0	0	50	0	578221	1	1	
LOX	69939	707	0	20783	6055	0	0	0	0	50	0	410907	1	1	
LOXHD1	NaN	NaN	NaN	116704	30800	0	0	0	0	50	2	810348	1	1	
LOXL1	337765	439	34	27916	8813	0	0	0	0	50	2	411831	1	1	
LOXL2	484892	288	41	39487	10430	0	0	0	0	50	2	335090	1	1	
LOXL3	1019591	315	50	37870	10766	0	0	0	0	50	0	429359	1	1	
LOXL4	225311	581	9	38087	10780	0	0	0	0	50	1	438949	1	1	
LPA	287006	545	-24	103047	28812	0	0	0	0	50	1	512645	1	1	
LPAR1	247269	624	21	17983	5201	0	0	0	0	50	0	357812	1	1	
LPAR2	768855	418	-10	16548	5754	0	0	0	0	50	1	338065	1	1	
LPAR3	340292	614	-7	17451	5019	0	0	0	0	50	0	345198	1	1	
LPAR4	16059	NaN	22	18123	5334	0	0	0	0	50	0	400288	1	1	
LPAR5	2816983	210	61	17059	6440	0	0	0	0	50	0	502565	1	1	
LPAR6	NaN	NaN	NaN	17101	4634	0	0	0	0	50	2	784182	1	1	
LPCAT1	557296	390	37	26726	8071	0	0	0	0	50	0	425866	1	1	
LPCAT2	119965	430	-29	27566	7861	0	0	0	0	50	0	440657	1	1	
LPCAT3	2600423	211	49	24941	6811	0	0	0	0	50	0	501508	1	1	
LPCAT4	542657	234	22	25921	8288	0	0	0	0	50	0	370531	1	1	
LPGAT1	465080	281	13	19145	4816	0	0	0	0	50	0	404621	1	1	
LPHN1	1036713	321	25	72408	22449	0	0	0	0	50	0	358617	1	1	
LPHN2	55308	1274	-19	70875	19173	0	0	0	0	50	0	418894	1	1	
LPHN3	11170	1494	-18	73976	20482	0	0	0	0	50	2	457471	1	1	

LPIN1	219334	431	19	45367	12362	0	0	0	0	50	0	410410	1	1	
LPIN2	583114	425	44	45920	12187	0	0	0	0	50	0	525329	1	1	
LPIN3	383021	309	5	42588	12684	0	0	0	0	50	0	495558	1	1	
LPL	203407	316	8	24339	6426	0	0	0	0	50	0	396039	1	1	
LPO	838530	401	15	35623	10304	0	0	0	0	50	0	375487	1	1	
LPP	148376	685	6	30226	9149	0	0	0	0	50	1	510076	1	1	
LPPR1	135891	952	-29	16380	4746	0	0	0	0	50	0	462560	1	1	
LPPR2	1385739	197	31	21994	7217	0	0	0	0	50	0	437115	1	1	
LPPR3	2168802	198	28	35574	12033	0	0	0	0	50	1	443968	1	1	
LPPR4	100692	868	-15	37618	11018	0	0	0	0	50	0	566482	1	1	
LPPR5	37516	947	-17	16058	4648	0	0	0	0	50	1	392210	1	1	
LPXN	237619	644	-4	20475	5208	0	0	0	0	50	0	460964	1	1	
LRAT	73491	1036	-3	11221	3479	0	0	0	0	50	0	331268	1	1	
LRBA	207641	848	17	145544	39592	0	0	0	0	50	0	369978	1	1	
LRCH1	284604	798	49	40859	11242	0	0	0	0	50	0	316820	1	1	
LRCH3	520915	322	36	36064	10409	0	0	0	0	50	0	405139	1	1	
LRDD	1793686	176	50	43449	15288	0	0	0	0	50	0	342972	1	1	
LRFN1	1793696	252	31	35553	13167	0	0	0	0	50	1	449631	1	1	
LRFN2	100435	887	20	37422	12516	0	0	0	0	50	0	480046	1	1	
LRFN3	984653	303	21	28735	11060	0	0	0	0	50	0	416234	1	1	
LRFN5	8637	1309	-33	35406	10290	0	0	0	0	50	0	531202	1	1	
LRG1	2111443	278	43	16422	5628	0	0	0	0	50	0	422268	1	1	
LRGUK	239801	634	8	42539	11137	0	0	0	0	50	1	432950	1	1	
LRIG1	82885	629	14	54320	16156	0	0	0	0	50	0	347662	1	1	
LRIG2	641888	455	13	53949	14637	0	0	0	0	50	0	389655	1	1	
LRIG3	21039	678	-29	57519	15813	0	0	0	0	50	1	399259	1	1	
LRIT1	216124	810	-10	29785	9821	0	0	0	0	50	1	422226	1	1	
LRIT2	216191	860	-17	26621	8302	0	0	0	0	50	0	497385	1	1	
LRIT3	212757	462	28	30884	9289	0	0	0	0	50	0	355845	1	1	
LRMP	250089	700	17	26278	6650	0	0	0	0	50	1	387079	1	1	
LRP1	2190357	238	60	232435	61292	0	0	0	0	0	0	61292	1	1	
LRP10	1177534	225	34	33887	11599	0	0	0	0	50	1	318059	1	1	
LRP11	423793	234	42	24199	7868	0	0	0	0	50	1	342153	1	1	
LRP12	36110	1085	15	42938	11746	0	0	0	0	50	0	450408	1	1	
LRP1B	8988	1120	-11	239911	57449	0	0	0	0	22	2	278586	1	1	
LRP2	420134	683	14	240128	59752	0	0	0	0	15	0	149555	1	1	
LRP2BP	224125	422	25	18004	4508	0	0	0	0	50	0	344554	1	1	
LRP3	406033	270	-8	37142	11977	0	0	0	0	50	1	438221	1	1	
LRP4	1227153	268	38	97020	26166	0	0	0	0	50	1	396557	1	1	
LRP5	830388	241	53	80206	23492	0	0	0	0	50	0	408688	1	1	
LRP5L	155932	535	-31	12628	3563	0	0	0	0	50	1	429338	1	1	
LRP6	412583	408	15	81501	22029	0	0	0	0	50	1	281099	1	1	
LRPAP1	475773	609	54	18200	4984	0	0	0	0	50	0	210588	1	1	
LRPPRC	455568	429	26	72443	18592	0	0	0	0	50	0	409619	1	1	
LRRC1	256818	437	30	26635	7532	0	0	0	0	50	0	445998	1	1	
LRRC10	499701	394	14	13286	4228	0	0	0	0	50	0	388836	1	1	
LRRC10B	NaN	NaN	NaN	13370	5089	0	0	0	0	50	2	784637	1	1	
LRRC14	1755818	291	7	23240	8050	0	0	0	0	24	0	213045	1	1	
LRRC14B	836250	543	14	24059	8512	0	0	0	0	50	1	378994	1	1	
LRRC15	344707	269	34	28329	8883	0	0	0	0	50	0	343035	1	1	

LRRC16A	247903	576	28	70595	18865	0	0	0	0	50	1	447055	1	1	
LRRC16B	992350	355	19	69104	20671	0	0	0	0	50	0	418383	1	1	
LRRC17	749653	456	23	22785	5649	0	0	0	0	50	1	420042	1	1	
LRRC18	NaN	NaN	NaN	12922	3710	0	0	0	0	50	2	783258	1	1	
LRRC19	116568	447	-12	18837	4872	0	0	0	0	50	0	469336	1	1	
LRRC2	283343	528	42	19362	4746	0	0	0	0	50	0	371007	1	1	
LRRC20	551999	225	45	9268	2723	0	0	0	0	50	0	400022	1	1	
LRRC23	2704950	211	47	20496	5607	0	0	0	0	50	1	523068	1	1	
LRRC24	1755818	291	7	23961	8799	0	0	0	0	24	0	213045	1	1	
LRRC25	1384225	259	42	14616	4746	0	0	0	0	50	1	473445	1	1	
LRRC26	1722012	202	36	15022	6272	0	0	0	0	50	1	445893	1	1	
LRRC27	150194	280	13	30233	7840	0	0	0	0	50	0	371581	1	1	
LRRC28	272870	380	-1	18599	5341	0	0	0	0	50	0	493696	1	1	
LRRC29	1109491	150	46	10976	3556	0	0	0	0	50	0	375074	1	1	
LRRC3	893345	411	43	12117	4137	0	0	0	0	50	0	476574	1	1	
LRRC30	38085	336	-37	14497	4508	0	0	0	0	50	0	437647	1	1	
LRRC31	404285	689	13	28126	7427	0	0	0	0	50	1	419370	1	1	
LRRC32	269123	379	26	31024	10913	0	0	0	0	50	1	450933	1	1	
LRRC33	1117984	250	31	32977	10850	0	0	0	0	50	1	385427	1	1	
LRRC34	404285	689	13	24150	6447	0	0	0	0	50	1	419370	1	1	
LRRC36	1158788	125	49	38332	10913	0	0	0	0	50	0	371035	1	1	
LRRC37A	372453	231	22	83629	24710	0	0	0	0	5	0	63420	1	1	
LRRC37A2	502280	340	12	83699	24640	0	0	0	0	50	0	481908	1	1	
LRRC37A3	802924	241	8	80066	23863	0	0	0	0	33	0	287651	1	1	
LRRC37B	692401	356	23	47103	13587	0	0	0	0	50	0	488327	1	1	
LRRC39	294945	518	11	17325	4515	0	0	0	0	50	0	426055	1	1	
LRRC3B	5998	918	-24	12803	3577	0	0	0	0	50	0	408681	1	1	
LRRC4	NaN	NaN	NaN	31430	9856	0	0	0	0	50	2	789404	1	1	
LRRC40	297942	492	-14	30821	8344	0	0	0	0	50	0	371378	1	1	
LRRC41	690472	205	31	39004	13013	0	0	0	0	50	0	346409	1	1	
LRRC42	430138	201	31	21644	5971	0	0	0	0	50	0	350560	1	1	
LRRC43	808864	187	12	32361	10038	0	0	0	0	50	0	406238	1	1	
LRRC45	3814891	211	28	33698	9919	0	0	0	0	50	1	350889	1	1	
LRRC46	1071489	214	29	16184	4690	0	0	0	0	50	0	370643	1	1	
LRRC47	249433	341	28	27839	9499	0	0	1	0	50	2	367829	1	1	
LRRC48	971820	193	20	28140	6930	0	0	0	0	50	0	315406	1	1	
LRRC49	252612	404	11	35462	9079	0	0	0	0	50	0	475776	1	1	
LRRC4B	762018	517	35	33635	11515	0	0	0	0	50	0	450331	1	1	
LRRC4C	4203	1185	-34	31150	9317	0	0	0	0	50	0	385672	1	1	
LRRC50	566339	315	12	36519	10227	0	0	0	0	50	1	464597	1	1	
LRRC52	262572	574	-22	15295	4613	0	0	0	0	50	0	483105	1	1	
LRRC55	925743	431	-21	16492	5138	0	0	0	0	50	1	387023	1	1	
LRRC56	1970020	236	42	26250	8883	0	0	0	0	50	0	398356	1	1	
LRRC57	534369	269	40	12082	3458	0	0	0	0	50	0	382893	1	1	
LRRC58	384022	358	6	17892	5838	0	0	0	0	50	0	396095	1	1	
LRRC59	1335838	196	24	15365	4543	0	0	0	0	50	0	451458	1	1	
LRRC6	188389	902	-4	24668	5719	0	0	0	0	50	1	311234	1	1	
LRRC61	315538	514	32	12075	4305	0	0	0	0	50	0	484841	1	1	
LRRC66	91954	815	7	43624	12173	0	0	0	0	50	0	427560	1	1	
LRRC67	393936	518	12	11746	3101	0	0	0	0	50	0	427637	1	1	

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LRRC69	NaN	NaN	NaN	17885	4669	0	0	0	0	50	2	784217	1	1	
LRRC7	298237	695	-26	78008	20944	0	0	0	0	50	1	454965	1	1	
LRRC8A	1644028	201	14	39340	11921	0	0	0	0	10	0	142695	1	1	
LRRC8B	360067	647	5	39634	11186	0	0	0	0	50	0	436716	1	1	
LRRC8C	300032	514	7	39725	11095	0	0	0	0	50	0	414708	1	1	
LRRC8D	180057	257	13	42665	11536	0	0	0	0	50	0	369026	1	1	
LRRC8E	952640	320	27	38381	11998	0	0	0	0	50	0	411586	1	1	
LRRCC1	99309	1450	-7	53921	12670	0	0	0	0	50	1	461944	1	1	
LRRFIP1	542668	347	33	60669	15456	0	0	0	0	50	0	412160	1	1	
LRRFIP2	392784	376	27	38171	9583	0	0	0	0	50	0	425404	1	1	
LRRIQ1	25069	946	-28	89628	21147	0	0	0	0	50	0	432131	1	1	
LRRIQ3	58597	1188	-18	32172	7749	0	0	0	0	50	0	460159	1	1	
LRRIQ4	404285	689	13	27741	7938	0	0	0	0	50	1	419370	1	1	
LRRK1	402246	363	12	100583	29113	0	0	0	0	50	0	478898	1	1	
LRRK2	31336	994	12	130284	33180	0	0	0	0	50	0	446103	1	1	
LRRN1	61807	888	-18	35301	9870	0	0	0	0	50	0	379008	1	1	
LRRN2	401240	221	35	33418	11564	0	0	0	0	50	0	329651	1	1	
LRRN3	65006	840	2	34741	9926	0	0	0	0	50	1	422429	1	1	
LRRN4	301252	351	-6	34832	12187	0	0	0	0	50	0	421946	1	1	
LRRTM1	10982	1577	-18	25221	7812	0	0	0	0	50	2	467845	1	1	
LRRTM2	1371519	442	31	25459	7196	0	0	0	0	50	0	376285	1	1	
LRRTM3	2412	967	-44	28595	8239	0	0	0	0	50	0	375186	1	1	
LRRTM4	7531	1175	-21	29358	8127	0	0	0	0	50	0	419860	1	1	
LRSAM1	784133	209	45	37709	9919	0	0	0	0	50	1	393204	1	1	
LRTM1	29081	629	24	16961	5047	0	0	0	0	50	0	441077	1	1	
LRTM2	245027	593	30	17976	5649	0	0	0	0	50	1	403886	1	1	
LRTOMT	731498	267	60	23765	7588	0	0	0	0	50	0	357805	1	1	
LRWD1	642828	230	65	32158	9884	0	0	0	0	50	0	306873	1	1	
LSAMP	121424	967	-6	16821	5040	0	0	0	0	50	0	377559	1	1	
LSG1	370452	255	34	33922	8687	0	0	0	0	50	0	372589	1	1	
LSM1	705837	277	46	6832	1862	0	0	0	0	50	1	455861	1	1	
LSM10	636943	212	28	6055	1841	0	0	0	0	50	1	412090	1	1	
LSM11	243382	987	31	17073	5964	0	0	0	0	50	0	369656	1	1	
LSM12	916863	198	23	10031	2653	0	0	0	0	50	0	350511	1	1	
LSM14A	655485	284	-13	23926	6692	0	0	0	0	50	0	376796	1	1	
LSM14B	838629	288	-13	19348	5642	0	0	0	0	50	1	378196	1	1	
LSM2	2509866	183	32	5054	1330	0	0	0	0	50	0	441721	1	1	
LSM3	303635	258	39	5292	1449	0	0	0	0	50	0	335440	1	1	
LSM4	1294357	210	39	7175	1981	0	0	0	0	50	0	433916	1	1	
LSM5	371992	639	6	4900	1274	0	0	0	0	50	0	386232	1	1	
LSM6	82460	1023	21	4291	1064	0	0	0	0	50	0	414925	1	1	
LSM7	1503606	267	31	5516	1372	0	0	0	0	50	0	402080	1	1	
LSMD1	2148615	337	24	8260	2828	0	0	0	0	50	0	550480	1	1	
LSP1	871765	481	43	17675	4585	0	0	0	0	50	0	428057	1	1	
LSR	767246	472	7	31983	9744	0	0	0	0	50	0	322084	1	1	
LSS	775666	624	68	37723	10346	0	0	0	0	50	1	419965	1	1	
LST-3TM12	487942	773	-31	32662	8687	0	0	0	0	50	1	326760	1	1	
LST1	2517285	220	35	5796	1155	0	0	0	0	50	0	429142	1	1	
LTA	2517285	220	35	9975	3255	0	0	0	0	50	0	429142	1	1	
LTA4H	364666	436	16	31689	8421	0	0	0	0	50	2	380156	1	1	

LTB	2517285	220	35	11956	3773	0	0	0	0	50	0	429142	1	1	
LTB4R	915114	220	38	16184	6139	0	0	0	0	50	1	414449	1	1	
LTB4R2	915114	220	38	16485	6468	0	0	0	0	50	1	414449	1	1	
LTBP1	213347	605	2	88963	23450	0	0	0	0	50	0	385728	1	1	
LTBP2	782985	242	42	91658	26068	0	0	0	0	50	0	448469	1	1	
LTBP3	3945819	202	45	65814	18606	0	0	0	0	50	1	407722	1	1	
LTBP4	869282	226	37	85365	25788	0	0	0	0	8	0	64274	1	1	
LTBR	2686552	198	48	21791	6433	0	0	0	0	50	1	528465	1	1	
LTC4S	1610057	359	38	7280	2611	0	0	0	0	50	0	355047	1	1	
LTF	266701	565	34	36218	9961	0	0	0	0	50	0	405475	1	1	
LTK	782552	166	40	43099	12992	0	0	0	0	50	0	325248	1	1	
LTV1	355969	455	5	24885	5943	0	0	0	0	50	0	362313	1	1	
LUC7L	1267639	220	36	19019	5215	0	0	0	0	50	0	327943	1	1	
LUC7L2	545432	339	30	20349	5166	0	0	0	0	50	1	409598	1	1	
LUC7L3	1462233	148	16	22638	5481	0	0	0	0	50	0	387891	1	1	
LUM	23173	523	-18	16821	4704	0	0	0	0	50	1	399861	1	1	
LUZP1	859705	169	25	52703	15232	0	0	0	0	50	0	366639	1	1	
LUZP2	1913	1282	-32	18249	4536	0	0	0	0	50	0	523873	1	1	
LUZP4	226836	NaN	8	15960	4116	0	0	0	0	50	2	468888	1	1	
LUZP6	NaN	NaN	NaN	2849	868	0	0	0	0	30	2	308784	1	1	
LXN	196969	940	-12	11669	2800	0	0	0	0	50	0	404572	1	1	
LY6D	427585	373	34	6349	1988	0	0	0	0	50	0	345541	1	1	
LY6E	795935	470	13	6594	2058	0	0	0	0	50	1	334075	1	1	
LY6G5B	2517236	193	20	9947	2947	0	0	0	0	50	0	540043	1	1	
LY6G5C	2517236	193	20	7644	2037	0	0	0	0	50	0	540043	1	1	
LY6G6C	2517236	193	20	6272	1876	0	0	0	0	20	0	143654	1	1	
LY6G6D	2517236	193	20	6601	2009	0	0	0	0	50	0	540043	1	1	
LY6G6F	2517236	193	20	14770	4466	0	0	0	0	50	0	540043	1	1	
LY6H	1104860	446	20	8099	2443	0	0	0	0	50	0	445781	1	1	
LY6K	384374	412	23	11039	2695	0	0	0	0	50	0	459865	1	1	
LY75	325669	405	36	89915	21532	0	0	0	0	50	1	363062	1	1	
LY86	133091	314	29	8463	2184	0	0	0	0	50	2	422044	1	1	
LY9	1188881	618	29	34790	10066	0	0	0	0	50	1	431557	1	1	
LY96	250079	468	26	8554	2009	0	0	0	0	50	0	340928	1	1	
LYAR	146135	584	35	20076	4536	0	0	0	0	50	0	348138	1	1	
LYG1	386109	630	24	9968	2737	0	0	0	0	50	0	458129	1	1	
LYG2	473611	633	32	11004	2835	0	0	0	0	50	1	514003	1	1	
LYL1	1948449	221	41	13230	4725	0	0	0	0	50	0	421708	1	1	
LYN	329738	405	50	26768	6559	0	0	0	0	50	0	430682	1	1	
LYNX1	427585	373	34	10745	3178	0	0	0	0	50	0	345541	1	1	
LYPD1	46944	848	8	7189	1925	0	0	0	0	50	0	468076	1	1	
LYPD2	427585	373	34	6167	2023	0	0	0	0	50	0	345541	1	1	
LYPD3	368705	182	-29	16765	5432	0	0	0	0	50	0	425684	1	1	
LYPD4	1360684	454	23	12306	3549	0	0	0	0	50	0	367675	1	1	
LYPD5	464802	286	11	12460	3794	0	0	0	0	50	0	451542	1	1	
LYPD6	105128	631	-8	8778	2394	0	0	0	0	50	0	390971	1	1	
LYPD6B	132203	698	-3	10878	2730	0	0	0	0	50	0	392035	1	1	
LYPLA1	268612	450	31	11977	3248	0	0	0	0	50	0	452368	1	1	
LYPLA2	903441	254	32	11872	3500	0	0	0	0	50	2	357042	1	1	
LYPLAL1	82669	735	-6	12243	3129	0	0	0	0	50	0	527975	1	1	

LYRM1	260596	545	33	6174	1785	0	0	0	0	50	0	423640	1	1	
LYRM2	394472	603	35	4606	1211	0	0	0	0	1	0	11718	1	1	
LYRM4	128806	502	24	9226	2576	0	0	0	0	50	0	418453	1	1	
LYRM5	260142	633	19	4788	1113	0	0	0	0	48	0	325766	1	1	
LYRM7	312101	294	34	5642	1351	0	0	0	0	50	0	358778	1	1	
LYSMD1	1562281	184	33	11697	3633	0	0	0	0	50	0	412216	1	1	
LYSMD2	440341	247	34	10465	3311	0	0	0	0	50	0	389102	1	1	
LYSMD3	86012	780	7	15435	4074	0	0	0	0	50	0	405174	1	1	
LYST	438216	401	9	192934	50876	0	0	0	0	12	0	194705	1	1	
LYVE1	755456	391	25	16177	4592	0	0	0	0	50	0	540127	1	1	
LYZ	675242	361	13	7651	2030	0	0	0	0	50	0	347879	1	1	
LYZL1	172530	439	3	10059	2604	0	0	0	0	50	1	337631	1	1	
LYZL2	82218	425	28	10073	2590	0	0	0	0	50	1	389417	1	1	
LYZL4	342219	527	19	7616	1981	0	0	0	0	50	1	438067	1	1	
LYZL6	703538	424	31	7693	1946	0	0	0	0	50	0	435022	1	1	
LZIC	757819	183	29	10087	2450	0	0	0	0	50	0	447804	1	1	
LZTFL1	252915	426	42	15806	3850	0	0	0	0	50	2	447699	1	1	
LZTR1	577297	192	58	42742	11942	0	0	0	0	50	0	413014	1	1	
LZTS1	157405	592	9	29001	8778	0	0	0	0	50	1	443653	1	1	
LZTS2	1020226	247	40	31514	11032	0	0	0	0	50	0	396403	1	1	
M6PR	299430	416	11	14147	3850	0	0	0	0	50	0	440349	1	1	
MAB21L1	NaN	NaN	NaN	17542	5138	0	0	0	0	50	2	784686	1	1	
MAB21L2	214274	848	18	17402	5278	0	0	0	0	50	0	372757	1	1	
MACC1	220237	676	13	42588	11487	0	0	0	0	50	0	468237	1	1	
MACF1	767679	401	25	377972	101668	0	0	0	0	4	0	133294	1	1	
MACROD1	1324858	278	53	16415	4963	0	0	0	0	50	0	359758	1	1	
MACROD2	37709	920	-12	24367	5348	0	0	0	0	50	2	498351	1	1	
MAD1L1	814176	544	26	36624	10101	0	0	0	0	50	0	506107	1	1	
MAD2L1	106139	1069	-5	10465	2849	0	0	0	0	50	0	370713	1	1	
MAD2L1BP	1424296	166	44	15890	4753	0	0	0	0	50	0	467929	1	1	
MAD2L2	682357	264	32	11102	2926	0	0	0	0	50	0	423017	1	1	
MADCAM1	1509324	255	-16	18074	6433	0	0	0	0	50	1	349349	1	1	
MADD	1231960	198	41	83601	23163	0	0	0	0	50	0	420105	1	1	
MAEA	938287	391	37	20223	5502	0	0	0	0	50	0	366275	1	1	
MAEL	264649	681	-11	22617	5754	0	0	0	0	50	0	450142	1	1	
MAF	10920	1003	-30	19397	6181	0	0	0	0	50	0	440734	1	1	
MAF1	2720766	211	27	13475	3304	0	0	0	0	50	0	518427	1	1	
MAFA	2154403	237	32	16793	5509	0	0	0	0	50	0	428897	1	1	
MAFB	308177	550	-29	15631	4781	0	0	0	0	50	1	404600	1	1	
MAFF	1604692	184	68	7833	2730	0	0	0	0	50	0	443380	1	1	
MAFG	3798594	211	19	7819	2618	0	0	0	0	50	1	363321	1	1	
MAFK	595899	243	38	7546	2513	0	0	0	0	50	0	434630	1	1	
MAG	767180	472	8	31325	9751	0	0	0	0	50	0	330757	1	1	
MAGEA1	607570	NaN	18	15001	4613	0	0	0	0	50	0	396144	1	1	
MAGEA10	191719	NaN	-20	18172	5264	0	0	0	0	50	0	451290	1	1	
MAGEA11	NaN	NaN	NaN	21637	6020	0	0	0	0	50	2	785568	1	1	
MAGEA12	NaN	NaN	NaN	15316	4613	0	0	0	0	50	2	784161	1	1	
MAGEA2	NaN	NaN	NaN	30702	9156	0	0	0	0	50	2	788704	1	1	
MAGEA2B	202421	NaN	-2	30702	9156	0	0	0	0	50	2	363447	1	1	
MAGEA3	201810	NaN	-3	15372	4557	0	0	0	0	50	1	318815	1	1	

MAGEA4	125659	NaN	-21	15379	4739	0	0	0	0	50	0	397628	1	1	
MAGEA5	117300	NaN	-16	6006	1953	0	0	0	0	50	0	391545	1	1	
MAGEA6	203033	NaN	-1	15393	4536	0	0	0	0	50	0	468783	1	1	
MAGEA8	275638	NaN	NaN	15575	4606	0	0	0	0	50	0	445193	1	1	
MAGEA9	NaN	NaN	NaN	31374	8610	0	0	0	0	50	2	788158	1	1	
MAGEA9B	224617	NaN	8	31374	8610	0	0	0	0	50	2	497875	1	1	
MAGEB1	74310	NaN	16	17066	4942	0	0	0	0	50	0	402017	1	1	
MAGEB10	10745	NaN	16	17122	4886	0	0	0	0	50	0	357245	1	1	
MAGEB16	3857	NaN	-24	16037	4522	0	0	0	0	50	0	579607	1	1	
MAGEB18	33808	NaN	-25	17115	4725	0	0	0	0	50	0	558999	1	1	
MAGEB2	74310	NaN	16	15638	4606	0	0	0	0	50	0	402017	1	1	
MAGEB3	74310	NaN	16	17297	4648	0	0	0	0	50	0	402017	1	1	
MAGEB4	74310	NaN	16	16877	4984	0	0	0	0	50	0	402017	1	1	
MAGEB6	34143	NaN	-38	19789	5999	0	0	0	0	50	0	435939	1	1	
MAGEC1	17504	NaN	-11	55615	16499	0	0	1	0	50	1	639429	1	1	
MAGEC2	16386	NaN	-29	18340	5306	0	0	0	0	50	0	429359	1	1	
MAGEC3	17504	NaN	-11	38493	10395	0	0	0	0	50	1	639429	1	1	
MAGED1	127069	NaN	23	41531	12166	0	0	0	0	50	0	325689	1	1	
MAGED2	257482	NaN	20	30366	8883	0	0	0	0	50	0	399084	1	1	
MAGED4	NaN	NaN	NaN	73822	21560	0	0	0	0	50	2	801108	1	1	
MAGED4B	NaN	NaN	NaN	74256	21630	0	0	0	0	50	2	801178	1	1	
MAGEE1	55359	NaN	-19	45479	14875	0	0	0	0	50	0	458283	1	1	
MAGEE2	117293	NaN	-10	25816	7196	0	0	0	0	50	0	529753	1	1	
MAGEF1	1301642	485	36	14945	4459	0	0	0	0	50	1	517762	1	1	
MAGEH1	140844	NaN	-23	10689	3171	0	0	0	0	50	1	469378	1	1	
MAGEL2	94496	904	-55	58548	20202	0	0	0	0	50	0	336637	1	1	
MAGI1	74202	843	-10	77406	21483	0	0	0	0	50	1	592095	1	1	
MAGI2	17425	1055	-24	72513	20979	0	0	0	0	50	1	570836	1	1	
MAGI3	369997	623	2	75523	20615	0	0	0	0	50	0	421673	1	1	
MAGIX	724395	NaN	44	16632	5775	0	0	1	0	48	2	366086	1	1	
MAGOH	545236	258	25	7819	1820	0	0	0	0	50	0	358155	1	1	
MAGOHB	407094	432	4	7903	1862	0	0	0	0	50	0	371749	1	1	
MAGT1	549266	NaN	20	18928	5054	0	0	0	0	50	0	453390	1	1	
MAK	263773	468	14	32095	8225	0	0	0	0	50	1	342160	1	1	
MAK16	91648	507	12	16107	3696	0	0	0	0	50	0	484890	1	1	
MAL	171487	647	-1	7609	2387	0	0	0	0	50	0	384580	1	1	
MAL2	247332	442	-1	8673	2793	0	0	0	0	50	1	415800	1	1	
MALL	NaN	NaN	NaN	7686	2268	0	0	0	0	50	2	781816	1	1	
MALT1	331493	198	55	42245	11074	0	0	0	0	50	0	371336	1	1	
MAMDC2	196190	405	-10	35294	9079	0	0	0	0	50	0	439145	1	1	
MAMDC4	1921909	176	44	56609	17311	0	0	0	0	50	1	408821	1	1	
MAML1	1617173	256	41	49252	15155	0	0	0	0	50	0	448378	1	1	
MAML2	272830	409	6	57078	16149	0	0	1	0	50	1	398916	1	1	
MAML3	351118	591	8	55979	15946	0	0	0	0	50	0	412048	1	1	
MAMLD1	311047	NaN	16	55993	16814	0	0	1	0	50	1	525399	1	1	
MAMSTR	1635420	190	44	20090	6874	0	0	0	0	50	0	414344	1	1	
MAN1A1	105366	702	6	32970	9156	0	0	0	0	50	1	532756	1	1	
MAN1A2	358073	526	6	32662	8792	0	0	0	0	50	0	387366	1	1	
MAN1B1	1836975	202	38	35035	10115	0	0	0	0	50	0	428148	1	1	
MAN1C1	693953	443	29	31654	9023	0	0	0	0	50	1	387520	1	1	

MAN2A1	181420	913	10	58695	15204	0	0	0	0	50	0	436842	1	1	
MAN2A2	833957	291	42	57288	17031	0	0	0	0	50	0	426916	1	1	
MAN2B1	1975767	409	1	50701	15029	0	0	0	0	50	0	547204	1	1	
MAN2B2	501896	278	33	50050	15134	0	0	0	0	50	0	388710	1	1	
MAN2C1	814680	296	43	52318	15407	0	0	0	0	50	0	389816	1	1	
MANBA	379516	303	32	45213	11613	0	0	0	0	50	0	381843	1	1	
MANBAL	666037	571	64	4270	1316	0	0	0	0	50	0	284368	1	1	
MANEA	29596	1315	-6	23338	6167	0	0	0	0	50	1	402738	1	1	
MANEAL	445096	375	33	22659	6489	0	0	0	0	50	1	389165	1	1	
MANF	538437	536	39	9450	2562	0	0	0	0	50	1	507997	1	1	
MANSC1	698798	242	20	20958	6510	0	0	0	0	50	0	364861	1	1	
MAOA	62832	NaN	13	27195	7245	0	0	0	0	50	0	440853	1	1	
MAOB	66825	NaN	22	26635	7364	0	0	0	0	50	0	388171	1	1	
MAP1A	794398	269	37	135198	41622	0	0	0	0	18	0	203483	1	1	
MAP1B	410285	427	30	121275	34776	0	0	0	0	9	0	86394	1	1	
MAP1D	537616	126	34	17346	4620	0	0	0	0	50	1	361907	1	1	
MAP1LC3A	990458	214	54	7406	1750	0	0	0	0	50	0	378126	1	1	
MAP1LC3B	583365	363	27	6552	1638	0	0	0	0	50	2	376215	1	1	
MAP1LC3B2	292439	337	1	6300	1701	0	0	0	0	50	0	478366	1	1	
MAP1LC3C	172086	419	-12	7630	1988	0	0	0	0	50	0	463827	1	1	
MAP1S	1181745	246	21	49483	17885	0	0	0	0	50	0	492289	1	1	
MAP2	109927	678	-9	94976	26908	0	0	0	0	50	0	490707	1	1	
MAP2K1	506284	172	43	20237	5467	0	0	0	0	50	2	335258	1	1	
MAP2K2	2276561	180	36	20244	5859	0	0	0	0	50	0	461720	1	1	
MAP2K3	415581	517	-43	18067	4781	0	0	0	0	50	0	396291	1	1	
MAP2K4	45834	583	-52	20741	5341	0	0	0	0	50	1	423920	1	1	
MAP2K5	449735	377	31	23933	6118	0	0	0	0	50	1	336168	1	1	
MAP2K6	58848	397	-42	17500	4529	0	0	0	0	50	0	415044	1	1	
MAP2K7	952640	320	27	21385	5957	0	0	0	0	50	0	411586	1	1	
MAP3K1	200595	412	38	75096	21819	0	0	0	0	50	0	394863	1	1	
MAP3K10	980250	400	23	45654	15267	0	0	0	0	50	0	501900	1	1	
MAP3K11	3945819	202	45	40635	13545	0	0	0	0	50	1	407722	1	1	
MAP3K12	1712232	191	56	42091	13307	0	0	0	0	50	0	443086	1	1	
MAP3K13	953031	397	36	48776	13237	0	0	0	0	50	0	353934	1	1	
MAP3K14	789809	207	23	47124	13839	0	0	0	0	50	0	414148	1	1	
MAP3K15	222229	NaN	38	66906	18228	0	0	0	0	50	1	403102	1	1	
MAP3K2	435982	175	26	32095	8267	0	0	0	0	50	1	525259	1	1	
MAP3K3	934952	247	3	33712	9086	0	0	0	0	50	0	354452	1	1	
MAP3K4	80018	860	-2	81844	21707	0	0	0	0	14	0	181132	1	1	
MAP3K5	329812	448	31	70413	18648	0	0	0	0	50	1	429492	1	1	
MAP3K6	884974	188	30	63476	20083	0	0	0	0	50	0	563206	1	1	
MAP3K7	74576	643	17	31661	7924	0	0	0	0	50	0	373135	1	1	
MAP3K8	81826	185	39	23625	6447	0	0	0	0	50	0	408793	1	1	
MAP3K9	247989	426	43	54936	16569	0	0	0	0	50	2	475020	1	1	
MAP4	1023686	249	35	79156	23660	0	0	0	0	50	0	330540	1	1	
MAP4K1	1503183	363	27	43750	12698	0	0	0	0	50	0	371896	1	1	
MAP4K2	2261775	230	61	42168	12201	0	0	0	0	50	0	455112	1	1	
MAP4K3	363056	435	10	47649	11550	0	0	0	0	50	0	414015	1	1	
MAP4K4	325378	593	24	68110	18263	0	0	0	0	50	0	549752	1	1	
MAP4K5	603138	207	43	44821	11060	0	0	0	0	50	1	443436	1	1	

MAP6	528316	227	45	39151	12467	0	0	0	0	50	1	379946	1	1	
MAP6D1	1441187	410	25	9499	3311	0	0	0	0	50	0	364035	1	1	
MAP7	302036	376	16	37730	10948	0	0	0	0	50	3	462259	1	1	
MAP7D1	800052	190	31	41363	13027	0	0	0	0	50	0	433993	1	1	
MAP7D2	263236	NaN	38	39291	10815	0	0	0	0	50	0	381675	1	1	
MAP7D3	314502	NaN	20	45605	11536	0	0	0	0	50	0	429618	1	1	
MAP9	44097	944	-5	34097	7819	0	0	0	0	50	0	395115	1	1	
MAPK1	458136	299	47	18592	4823	0	0	0	0	50	0	391153	1	1	
MAPK10	77738	549	-4	24570	5922	0	0	0	0	50	1	454839	1	1	
MAPK11	939384	257	70	18739	5222	0	0	0	0	50	1	385217	1	1	
MAPK12	941692	217	60	18886	5222	0	0	1	0	50	1	318304	1	1	
MAPK13	855485	410	35	18984	5040	0	0	0	0	50	0	441196	1	1	
MAPK14	892075	407	36	21840	4704	0	0	0	0	50	0	357070	1	1	
MAPK15	2190348	229	30	26754	8715	0	0	0	0	50	1	429429	1	1	
MAPK1IP1L	837637	144	39	11522	4228	0	0	0	0	50	0	408289	1	1	
MAPK3	NaN	NaN	NaN	19929	5880	0	0	0	0	50	2	785428	1	1	
MAPK4	243391	442	21	28854	8526	0	0	0	0	50	0	415170	1	1	
MAPK6	583597	153	23	36596	9226	0	0	0	0	50	0	376033	1	1	
MAPK7	630769	332	11	38997	12978	0	0	0	0	50	0	560553	1	1	
MAPK8	107152	633	31	23688	5859	0	0	0	0	50	1	458087	1	1	
MAPK8IP1	427820	291	48	35161	10619	0	0	0	0	50	0	409262	1	1	
MAPK8IP2	1073094	203	43	41048	13678	0	0	0	0	50	1	455231	1	1	
MAPK8IP3	1598087	288	36	68026	19145	0	0	0	0	50	0	407358	1	1	
MAPK9	1623084	362	25	24185	6034	0	0	0	0	50	0	350945	1	1	
MAPKAP1	850799	475	38	27279	6930	0	0	0	0	50	0	371231	1	1	
MAPKAPK2	477806	261	32	21371	5824	0	0	0	0	50	0	375144	1	1	
MAPKAPK3	583785	302	50	19684	5285	0	0	0	0	50	0	344302	1	1	
MAPKAPK5	755663	242	42	24780	6174	0	0	0	0	50	1	513289	1	1	
MAPKBP1	816015	259	37	75285	22680	0	0	0	0	50	0	406693	1	1	
MAPKSP1	203900	633	28	6664	1715	0	0	0	0	50	0	370307	1	1	
MAPRE1	550127	293	48	13923	3528	0	0	0	0	50	0	395626	1	1	
MAPRE2	261776	582	11	18515	4585	0	0	0	0	50	0	384573	1	1	
MAPRE3	1222544	290	33	14651	3619	0	0	0	0	50	2	396130	1	1	
MAPT	369065	469	19	38269	11858	0	0	0	0	50	0	491449	1	1	
1-Mar	56946	1136	-17	16597	4466	0	0	0	0	50	1	414890	1	1	
10-Mar	200669	205	-17	40943	10864	0	0	0	0	50	0	445186	1	1	
11-Mar	160001	888	-24	19649	5992	0	0	0	0	50	0	435442	1	1	
2-Mar	726556	150	0	12061	3836	0	0	0	0	50	0	374206	1	1	
3-Mar	298349	603	27	12530	3808	0	0	0	0	50	1	498001	1	1	
4-Mar	590758	342	27	20153	5992	0	0	0	0	50	2	408184	1	1	
5-Mar	429135	317	31	14119	3878	0	0	0	0	50	0	337855	1	1	
6-Mar	627256	164	17	46417	13076	0	0	0	0	50	0	401352	1	1	
7-Mar	363925	374	28	35329	9842	0	0	0	0	50	1	420693	1	1	
8-Mar	128745	725	34	15120	3780	0	0	0	0	50	0	426405	1	1	
9-Mar	1160849	344	39	16632	5481	0	0	0	0	50	1	396711	1	1	
MARCKS	217954	608	16	15792	5271	0	0	0	0	50	0	442638	1	1	
MARCKSL1	1478512	210	42	9548	2884	0	0	0	0	50	0	529690	1	1	
MARCO	152902	553	-2	26642	7525	0	0	0	0	50	1	404971	1	1	
MARK1	544426	520	-9	40586	10990	0	0	0	0	50	0	352121	1	1	
MARK2	1321109	201	51	39907	11312	0	0	0	0	50	1	407876	1	1	

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MARK3	937868	161	36	38598	10332	0	0	0	0	50	0	450023	1	1	
MARK4	1318362	215	31	34384	10493	0	0	0	0	50	0	362670	1	1	
MARS	1347799	194	38	45619	12950	0	0	0	0	50	0	549465	1	1	
MARS2	642112	684	32	28322	9142	0	0	0	0	50	2	384839	1	1	
MARVELD1	NaN	NaN	NaN	8085	2877	0	0	0	0	50	2	782425	1	1	
MARVELD2	490595	314	41	27972	7749	0	0	0	0	50	2	368130	1	1	
MARVELD3	446645	530	10	29568	9408	0	0	0	0	50	0	382515	1	1	
MAS1	653091	460	26	15848	4732	0	0	0	0	50	0	437409	1	1	
MAS1L	404210	854	21	18340	5495	0	0	0	0	50	0	326725	1	1	
MASP1	401220	445	31	51317	13804	0	0	0	0	50	1	443100	1	1	
MASP2	639826	307	33	34741	9758	0	0	0	0	50	1	512099	1	1	
MAST1	1937827	226	32	76734	24381	0	0	0	0	50	1	414729	1	1	
MAST2	1003923	416	24	88487	27244	0	0	0	0	50	0	524020	1	1	
MAST3	1249693	226	42	64295	20419	0	0	0	0	50	0	469602	1	1	
MAST4	36320	621	7	130802	39592	0	0	0	0	50	0	461776	1	1	
MASTL	386910	555	43	44646	11718	0	0	0	0	50	1	336560	1	1	
MAT1A	365795	598	44	19922	5698	0	0	0	0	50	0	397110	1	1	
MAT2A	1241734	170	39	20034	5586	0	0	0	0	50	0	458563	1	1	
MAT2B	225938	681	11	17661	4620	0	0	0	0	50	0	385105	1	1	
MATK	2172842	204	36	26768	7945	0	0	0	0	50	0	463799	1	1	
MATN1	286775	493	27	24598	7343	0	0	0	0	50	1	368200	1	1	
MATN2	616574	272	28	49322	12481	0	0	0	0	50	1	467054	1	1	
MATN3	501661	150	25	24304	7007	0	0	0	0	50	1	424494	1	1	
MATN4	1005559	233	36	28770	8652	0	0	0	0	50	0	345058	1	1	
MATR3	838943	177	35	43337	11179	0	0	0	0	50	0	408961	1	1	
MAVS	740484	241	42	25921	8666	0	0	0	0	50	2	521675	1	1	
MAX	501431	387	39	14147	3430	0	0	0	0	50	0	469819	1	1	
MAZ	NaN	NaN	NaN	26033	8806	0	0	0	0	50	2	788354	1	1	
MB	936853	205	-13	7987	2072	0	0	0	0	50	1	351855	1	1	
MBD1	229269	262	51	33628	9926	0	0	0	0	50	1	380772	1	1	
MBD3	2122824	221	35	14840	4018	0	0	0	0	50	0	358288	1	1	
MBD3L1	560313	537	-60	9632	2737	0	0	0	0	1	0	7889	1	1	
MBD3L2	NaN	NaN	NaN	10031	3262	0	0	0	0	50	2	782810	1	1	
MBD3L3	NaN	NaN	NaN	10080	3213	0	0	0	0	50	2	782761	1	1	
MBD3L4	NaN	NaN	NaN	10073	3220	0	0	0	0	50	2	782768	1	1	
MBD3L5	NaN	NaN	NaN	10052	3241	0	0	0	0	50	2	782789	1	1	
MBD4	917611	355	56	29624	7567	0	0	0	0	50	1	314867	1	1	
MBD5	119685	955	7	73479	21462	0	0	0	0	48	0	449323	1	1	
MBD6	1347795	303	44	46592	17584	0	0	0	0	7	1	145971	1	1	
MBIP	81955	627	-10	17927	4522	0	0	0	0	50	1	457163	1	1	
MBL2	68687	786	-26	12362	3619	0	0	0	0	50	0	424193	1	1	
MBLAC1	1299015	205	52	12215	4690	0	0	0	0	50	1	409815	1	1	
MBLAC2	83822	824	25	13531	4193	0	0	0	0	50	0	350140	1	1	
MBNL1	194580	402	27	21959	5488	0	0	0	0	50	0	384146	1	1	
MBNL2	110548	419	23	20384	5761	0	0	0	0	50	0	402542	1	1	
MBNL3	143759	NaN	34	19565	5530	0	0	0	0	50	0	425719	1	1	
MBOAT1	127205	592	1	25319	6937	0	0	0	0	50	1	487830	1	1	
MBOAT2	438336	469	25	26810	7021	0	0	0	0	50	0	504315	1	1	
MBOAT4	NaN	NaN	NaN	21364	6314	0	0	0	0	50	2	785862	1	1	
MBOAT7	735613	439	-53	23604	6825	0	0	0	0	50	0	578004	1	1	

MBP	102723	561	39	17087	4858	0	0	0	0	50	0	335888	1	1	
MBTD1	787991	267	-10	32732	8155	0	0	0	0	50	1	363622	1	1	
MBTPS1	522600	435	8	53326	14777	0	0	0	0	50	1	466242	1	1	
MBTPS2	93093	NaN	16	25998	7602	0	0	0	0	50	0	396690	1	1	
MC1R	1207036	221	45	14875	5159	0	0	0	0	50	0	482741	1	1	
MC2R	133238	815	-2	14490	4284	0	0	0	0	50	0	336245	1	1	
MC3R	254407	729	-58	15764	4648	0	0	0	0	50	2	456281	1	1	
MC4R	44259	929	3	16331	4690	0	0	0	0	50	1	433195	1	1	
MC5R	131146	815	8	15848	4690	0	0	0	0	50	0	401961	1	1	
MCAM	1087523	214	48	32683	9380	0	0	0	0	50	0	432327	1	1	
MCART1	485791	524	28	14616	4284	0	0	0	0	50	1	398146	1	1	
MCART2	415934	554	29	14483	4333	0	0	0	0	50	2	446551	1	1	
MCART6	357831	NaN	45	14777	4711	0	0	0	0	50	2	404719	1	1	
MCAT	624112	241	48	19138	5789	0	0	0	0	50	1	443156	1	1	
MCC	271270	620	16	52675	14336	0	0	0	0	50	1	466032	1	1	
MCCC1	275779	546	22	37289	9961	0	0	0	0	50	0	413882	1	1	
MCCC2	436559	600	36	28917	7959	0	0	0	0	50	1	450345	1	1	
MCCD1	2514366	220	34	5908	1778	0	0	0	0	50	0	457891	1	1	
MCEE	355097	470	40	8764	2639	0	0	0	0	50	0	390187	1	1	
MCF2	68546	NaN	-2	54467	12712	0	0	0	0	50	0	386330	1	1	
MCF2L	789438	285	25	61614	17346	0	0	0	0	50	0	541667	1	1	
MCF2L2	398145	606	24	57988	14735	0	0	0	0	50	0	414015	1	1	
MCFD2	809702	242	33	10787	2632	0	0	0	0	50	0	364735	1	1	
MCHR1	726133	165	54	20188	6545	0	0	0	0	50	2	393211	1	1	
MCHR2	258745	719	-16	17171	4732	0	0	0	0	50	0	372351	1	1	
MCL1	1475649	152	31	17416	5096	0	0	0	0	50	0	401415	1	1	
MCM10	246179	354	35	44772	12012	0	0	0	0	50	1	371546	1	1	
MCM2	679358	336	45	45563	12754	0	0	0	0	50	1	413931	1	1	
MCM3	313097	427	23	41027	11284	0	0	0	0	50	0	432068	1	1	
MCM3AP	857856	624	60	98413	28700	0	0	0	0	1	0	34363	1	1	
MCM4	898350	459	35	43498	12278	0	0	0	0	50	0	375333	1	1	
MCM5	366628	224	3	37198	10451	0	0	0	0	50	2	433482	1	1	
MCM6	469154	395	29	41881	11291	0	0	0	0	50	1	444017	1	1	
MCM7	1503181	254	41	35980	10556	0	0	0	0	50	0	535297	1	1	
MCM8	301031	346	13	42966	11529	0	0	0	0	50	1	438249	1	1	
MCM9	116680	856	16	19887	5313	0	0	0	0	50	0	368060	1	1	
MCOLN1	609287	308	36	29127	8568	0	0	0	0	50	0	463288	1	1	
MCOLN2	373596	649	-5	29568	7245	0	0	0	0	50	0	332878	1	1	
MCOLN3	425053	623	4	28903	7007	0	0	0	0	50	0	390019	1	1	
MCPH1	128440	702	9	42665	11263	0	0	0	0	50	0	539504	1	1	
MCRS1	2227486	224	53	24339	6993	0	0	0	0	50	0	447888	1	1	
MCTP1	148501	629	22	51618	14469	0	0	0	0	50	0	433881	1	1	
MCTP2	46228	457	-17	46627	12110	0	0	0	0	50	1	370566	1	1	
MCTS1	388105	NaN	7	9877	2345	0	0	0	0	50	0	393288	1	1	
MDC1	2115149	171	41	100527	32319	0	0	0	0	50	0	454741	1	1	
MDFI	486789	331	52	12306	3675	0	0	0	0	50	0	363069	1	1	
MDFIC	38349	520	15	18130	5474	0	0	0	0	50	0	423444	1	1	
MDGA1	359430	461	50	47201	14371	0	0	0	0	50	1	480865	1	1	
MDGA2	14033	1195	-46	48363	13272	0	0	0	0	50	0	446642	1	1	
MDH1	328344	468	7	17024	4795	0	0	0	0	50	0	353689	1	1	

MDH1B	206970	816	1	26677	6986	0	0	0	0	50	0	425355	1	1	
MDH2	1072825	218	49	16877	5194	0	0	0	0	50	0	422688	1	1	
MDK	817153	212	45	7434	1953	0	0	0	0	50	0	441175	1	1	
MDM1	354120	575	16	39193	10493	0	0	0	0	50	1	548037	1	1	
MDM2	541243	228	32	25907	6307	0	0	0	0	50	0	382949	1	1	
MDM4	420144	185	39	25354	6419	0	0	0	0	50	0	378854	1	1	
MDN1	372470	603	34	284529	76566	0	0	0	0	2	0	91483	1	1	
MDP1	974559	220	41	9268	2429	0	0	0	0	50	2	483035	1	1	
ME1	173617	711	-13	29218	7973	0	0	0	0	50	0	485583	1	1	
ME2	212718	332	61	30114	8001	0	0	0	0	50	1	380723	1	1	
MEA1	1200368	259	40	9352	2660	0	0	0	0	50	0	446481	1	1	
MEAF6	446254	357	25	10731	2625	0	0	0	0	50	0	326466	1	1	
MECOM	215619	985	-10	63574	16142	0	0	0	0	50	0	454559	1	1	
MECP2	2370576	NaN	29	24633	7686	0	0	0	0	50	0	571312	1	1	
MECR	390697	395	22	18753	5607	0	0	0	0	50	0	443863	1	1	
MED1	1434634	214	17	78715	22295	0	0	0	0	19	0	195860	1	1	
MED10	253175	763	-12	7161	1701	0	0	0	0	50	0	340613	1	1	
MED11	1272092	222	28	5901	1743	0	0	0	0	50	0	469798	1	1	
MED12	759088	NaN	27	110061	30849	0	0	0	0	50	0	509495	1	1	
MED12L	98951	632	9	109179	29589	0	0	0	0	50	0	458808	1	1	
MED13	369807	275	3	109277	30226	0	0	0	0	50	1	487746	1	1	
MED13L	186212	605	-12	110705	31150	0	0	0	0	50	0	373667	1	1	
MED14	479033	NaN	63	73115	21070	0	0	0	0	50	0	356069	1	1	
MED15	474817	286	44	40131	11046	0	0	0	0	50	2	421680	1	1	
MED16	2168802	198	28	43211	13363	0	0	0	0	50	1	443968	1	1	
MED17	307453	532	10	33250	8750	0	0	0	0	50	0	387730	1	1	
MED18	754355	170	25	10535	2800	0	0	0	0	50	0	525931	1	1	
MED19	923511	354	15	9695	2884	0	0	0	0	50	0	372386	1	1	
MED20	429349	341	34	10710	2961	0	0	0	0	50	0	335601	1	1	
MED21	408250	320	26	7392	2037	0	0	0	0	50	0	413203	1	1	
MED22	1827885	416	28	10171	2996	0	0	0	0	50	0	337127	1	1	
MED23	147816	864	7	70609	18557	0	0	0	0	50	0	386624	1	1	
MED24	1613074	202	28	50239	14315	0	0	0	0	50	0	407785	1	1	
MED25	1673246	205	37	36687	11949	0	0	0	0	50	0	414190	1	1	
MED26	898005	258	42	28735	9296	0	0	0	0	50	0	547589	1	1	
MED27	593548	566	29	15890	4396	0	0	0	0	50	1	403004	1	1	
MED28	271066	989	32	9016	2555	0	0	0	0	50	0	389067	1	1	
MED29	1748498	252	32	11004	3276	0	0	0	0	50	0	460327	1	1	
MED30	139000	574	0	9058	2471	0	0	0	0	50	1	407015	1	1	
MED31	663953	424	9	6993	1575	0	0	0	0	50	0	359919	1	1	
MED4	324467	567	34	14056	3563	0	0	0	0	50	0	422604	1	1	
MED6	243988	706	29	13013	3178	0	0	0	0	50	0	401667	1	1	
MED7	166999	1198	18	11907	2919	0	0	0	0	50	0	378595	1	1	
MED8	1088321	252	27	15393	4305	0	0	0	0	50	0	436226	1	1	
MED9	915530	220	-3	7329	2058	0	0	0	0	50	0	332626	1	1	
MEF2A	197556	416	12	27874	7742	0	0	0	0	50	0	446943	1	1	
MEF2B	1260413	215	35	20706	5355	0	0	0	0	50	0	323561	1	1	
MEF2C	98604	1192	32	26334	7266	0	0	0	0	50	1	397278	1	1	
MEF2D	2141203	201	41	25739	7987	0	0	0	0	50	0	428827	1	1	
MEFV	1445318	253	37	38570	11494	0	0	0	0	50	0	527219	1	1	

MEGF10	245811	814	6	58891	15008	0	0	0	0	50	0	382172	1	1	
MEGF11	708482	458	49	53655	14028	0	0	0	0	50	2	418040	1	1	
MEGF6	250204	251	15	78813	21357	0	0	0	0	50	1	356944	1	1	
MEGF8	792230	218	42	135247	43190	0	0	0	0	7	0	70756	1	1	
MEGF9	551753	185	15	31472	9436	0	0	0	0	50	0	391965	1	1	
MEI1	1452842	180	49	64134	18753	0	0	0	0	50	0	449260	1	1	
MEIG1	256253	571	35	4739	1036	0	0	0	0	50	0	369215	1	1	
MEIS1	21299	641	-10	20573	5068	0	0	0	0	50	2	467285	1	1	
MEIS2	74106	628	-7	25928	6538	0	0	0	0	50	0	419363	1	1	
MEIS3	797690	276	38	21497	6097	0	0	0	0	50	0	446544	1	1	
MELK	394473	231	38	33943	8561	0	0	0	0	50	0	395605	1	1	
MEMO1	342215	385	18	15610	3836	0	0	0	0	50	3	492618	1	1	
MEN1	2261775	230	61	30100	9464	0	0	0	0	50	0	455112	1	1	
MEOX1	1180329	165	16	12922	3353	0	0	0	0	50	0	341488	1	1	
MEOX2	25585	1039	-17	15155	4228	0	0	0	0	50	0	447139	1	1	
MEP1A	137754	431	2	38528	9667	0	0	0	0	50	1	302491	1	1	
MEP1B	342655	617	11	36204	9240	0	0	0	0	50	1	397285	1	1	
MEPCE	1479297	186	60	32669	11053	0	0	0	0	50	0	348467	1	1	
MEPE	423426	538	1	26747	6643	0	0	0	0	50	0	492142	1	1	
MERTK	NaN	NaN	NaN	50505	14007	0	0	0	0	50	2	793555	1	1	
MESDC1	265620	516	-2	16849	6020	0	0	0	0	50	0	377475	1	1	
MESDC2	265620	516	-2	11732	3283	0	0	0	0	50	0	377475	1	1	
MESP1	880974	190	35	12481	4592	0	0	0	0	50	1	438214	1	1	
MESP2	934542	212	37	18683	6475	0	0	0	0	50	1	412524	1	1	
MEST	325887	298	31	17325	4767	0	0	0	0	50	0	397824	1	1	
MET	558228	262	2	71050	19397	0	0	0	0	50	0	467376	1	1	
METAP2	441602	328	18	24759	6258	0	0	0	0	50	0	381696	1	1	
METRN	1207790	194	33	13853	4963	0	0	0	0	50	2	442589	1	1	
METRNL	222738	483	14	14987	4921	0	0	0	0	50	0	343882	1	1	
METT10D	678213	167	19	28476	7707	0	0	0	0	50	0	448889	1	1	
METT11D1	1005555	429	4	24801	6531	0	0	0	0	50	1	348677	1	1	
METT5D1	271729	616	-14	21350	5824	0	0	0	0	50	0	342062	1	1	
METTL1	1160849	344	39	14742	3171	0	0	0	0	50	1	396711	1	1	
METTL10	294304	352	42	14763	4200	0	0	0	0	50	0	360388	1	1	
METTL11A	886775	205	39	11291	3073	0	0	0	0	50	1	411418	1	1	
METTL11B	NaN	NaN	NaN	14511	3717	0	0	0	0	50	2	783265	1	1	
METTL12	2425755	248	51	11410	3857	0	0	0	0	50	0	393407	1	1	
METTL13	419860	718	-5	34727	9961	0	0	0	0	50	0	347865	1	1	
METTL14	238966	636	31	23569	6062	0	0	0	0	50	0	294049	1	1	
METTL2A	330776	370	5	19621	4970	0	0	0	0	50	0	376572	1	1	
METTL2B	893183	199	45	19614	4977	0	0	0	0	50	0	450919	1	1	
METTL3	707390	470	30	29225	8302	0	0	0	0	50	1	465661	1	1	
METTL4	247615	485	-5	24171	6216	0	0	0	0	50	0	407085	1	1	
METTL5	338901	489	35	11802	2793	0	0	0	0	50	0	307174	1	1	
METTL6	507426	256	49	14630	3661	0	0	0	0	50	0	368263	1	1	
METTL7A	569122	220	40	12096	3423	0	0	0	0	50	0	392147	1	1	
METTL7B	1678592	523	-8	11977	3542	0	0	0	0	50	1	464905	1	1	
METTL8	515299	342	49	21224	5236	0	0	0	0	50	0	436961	1	1	
METTL9	479469	466	40	16107	4326	0	0	0	0	50	1	488656	1	1	
MEX3A	2005405	213	39	24437	8470	0	0	0	0	50	0	428029	1	1	

MEX3B	229948	844	-8	26831	9163	0	0	0	0	50	1	436310	1	1	
MEX3C	146631	570	45	31143	10521	0	0	0	0	50	0	363699	1	1	
MEX3D	2122824	221	35	30961	11480	0	0	0	0	50	0	358288	1	1	
MFAP1	788307	250	36	22799	5593	0	0	0	0	50	0	452501	1	1	
MFAP2	678965	221	52	9891	2373	0	0	0	0	50	2	412125	1	1	
MFAP3	174087	592	16	17892	5061	0	0	0	0	50	0	305662	1	1	
MFAP3L	136790	831	-4	20055	5859	0	0	0	0	50	1	341824	1	1	
MFAP4	630769	332	11	13048	3542	0	0	0	0	50	0	560553	1	1	
MFAP5	297035	320	19	9408	2310	0	0	0	0	50	1	451402	1	1	
MFF	251488	144	18	17262	5019	0	0	0	0	50	1	414708	1	1	
MFGE8	562979	560	7	19572	5460	0	0	0	0	50	0	484743	1	1	
MFHAS1	164853	395	34	49882	16625	0	0	0	0	50	0	374185	1	1	
MFI2	719859	308	37	40236	11802	0	0	0	0	50	0	413497	1	1	
MFN1	408187	600	11	38290	9884	0	0	0	0	50	1	417634	1	1	
MFN2	518052	207	39	38710	10472	0	0	0	0	50	0	315616	1	1	
MFNG	979927	179	51	16079	4942	0	0	0	0	50	1	386078	1	1	
MFRP	1054477	263	40	29120	8428	0	0	0	0	50	0	461559	1	1	
MFSD1	181588	972	2	26544	7203	0	0	0	0	50	1	431970	1	1	
MFSD10	680459	336	49	22078	7658	0	0	0	0	50	0	345191	1	1	
MFSD11	827288	206	22	23240	6202	0	0	0	0	50	0	285460	1	1	
MFSD2A	974339	387	27	27286	8078	0	0	0	0	50	0	392903	1	1	
MFSD2B	243145	226	33	24262	8120	0	0	0	0	50	0	355481	1	1	
MFSD3	1755818	291	7	18886	7511	0	0	0	0	24	0	213045	1	1	
MFSD4	694640	268	35	25312	7931	0	0	0	0	50	0	401968	1	1	
MFSD5	1677275	191	49	26334	8946	0	0	0	0	50	0	393820	1	1	
MFSD6	651647	371	30	39011	11389	0	0	0	0	50	1	394933	1	1	
MFSD6L	423397	636	11	27741	9240	0	0	0	0	50	1	406728	1	1	
MFSD7	639827	489	12	28119	9366	0	0	0	0	50	0	373163	1	1	
MFSD8	230666	331	9	26411	7294	0	0	0	0	50	0	376320	1	1	
MFSD9	70590	913	-3	22883	7504	0	0	0	0	50	0	385147	1	1	
MGA	765304	256	41	151529	43561	0	0	0	0	10	0	137746	1	1	
MGAM	196155	846	-7	95522	25480	0	0	0	0	50	1	421071	1	1	
MGAT1	830596	566	25	21217	6881	0	0	0	0	50	0	558530	1	1	
MGAT2	563227	409	-4	21896	6328	0	0	0	0	50	0	397075	1	1	
MGAT3	812764	467	76	25578	8127	0	0	0	0	50	0	379386	1	1	
MGAT4A	319617	696	36	29659	7343	0	0	0	0	50	0	462014	1	1	
MGAT4B	1610057	359	38	30191	8638	0	0	0	0	50	0	355047	1	1	
MGAT4C	15683	881	-41	24283	6188	0	0	0	0	50	0	320845	1	1	
MGAT5	177903	761	17	38248	9800	0	0	0	0	50	0	416535	1	1	
MGAT5B	1010920	228	17	41370	11907	0	0	0	0	50	1	439229	1	1	
MGC26647	NaN	NaN	NaN	12579	3465	0	0	0	0	50	2	783013	1	1	
MGC29506	832127	177	48	9331	2933	0	0	0	0	50	1	408387	1	1	
MGC42105	505867	537	26	21644	6055	0	0	0	0	50	1	396193	1	1	
MGC70857	1755818	291	7	10241	3598	0	0	0	0	24	0	213045	1	1	
MGC87042	NaN	NaN	NaN	17955	4767	0	0	0	0	50	2	784315	1	1	
MGEA5	817474	335	37	46928	12103	0	0	0	0	50	0	397292	1	1	
MGLL	587659	313	51	15659	4711	0	0	0	0	50	0	362082	1	1	
MGMT	83542	1073	-25	11655	3780	0	0	0	0	50	1	572754	1	1	
MGP	341752	426	8	5488	1337	0	0	0	0	50	0	378546	1	1	
MGST1	266051	641	-23	7826	2254	0	0	0	0	50	0	502978	1	1	

MGST2	382197	256	12	7546	2156	0	0	0	0	50	0	515102	1	1	
MGST3	321831	408	0	7826	2233	0	0	0	0	50	0	430430	1	1	
MIA	1127178	201	27	6636	1974	0	0	0	0	50	0	386421	1	1	
MIA2	314590	300	21	33299	8386	0	0	0	0	50	0	437878	1	1	
MIA3	225124	392	-1	97209	25305	0	0	0	0	50	0	521857	1	1	
MIB1	246867	325	47	51303	13818	0	0	0	0	50	0	385385	1	1	
MIB2	1666776	248	31	52500	16653	0	0	0	0	50	0	420483	1	1	
MICA	NaN	NaN	NaN	19397	5341	0	0	0	0	50	2	784889	1	1	
MICAL1	328699	559	47	53368	15932	0	0	0	0	50	0	353549	1	1	
MICAL2	319572	254	10	57218	15841	0	0	0	0	50	0	383936	1	1	
MICAL3	415161	288	11	111895	32291	0	0	0	0	50	0	479129	1	1	
MICALCL	445785	318	-1	34370	10150	0	0	0	0	50	0	445984	1	1	
MICALL1	1370748	203	50	42749	12985	0	0	0	0	50	0	361438	1	1	
MICALL2	706729	345	23	44457	13902	0	0	0	0	50	0	535549	1	1	
MICB	2514366	220	34	19138	5474	0	0	0	0	50	0	457891	1	1	
MID1	117200	NaN	14	33614	9226	0	0	0	0	50	0	440363	1	1	
MID1IP1	91133	NaN	31	9016	2576	0	0	0	0	50	1	443429	1	1	
MID2	167346	NaN	49	37212	9912	0	0	0	0	50	0	406021	1	1	
MIDN	2214581	234	29	22435	7616	0	0	0	0	50	1	402808	1	1	
MIER1	331801	635	-9	32494	7469	0	0	0	0	50	0	411754	1	1	
MIER2	901402	578	-17	27678	7854	0	0	0	0	50	0	410165	1	1	
MIER3	201203	393	41	28672	7028	0	0	0	0	50	1	434217	1	1	
MIF	649838	202	61	5817	1701	0	0	0	0	50	1	348040	1	1	
MIF4GD	1723762	171	31	13139	3556	0	0	0	0	50	0	384559	1	1	
MIIP	518052	207	39	19145	6118	0	0	0	0	50	0	315616	1	1	
MINA	158573	723	-2	23688	6426	0	0	0	0	50	0	381500	1	1	
MINK1	1440940	208	29	63567	18123	0	0	0	0	50	0	413784	1	1	
MINPP1	470910	190	25	25221	6615	0	0	0	0	50	0	487123	1	1	
MIOS	213895	446	16	44345	11683	0	0	0	0	50	0	407183	1	1	
MIOX	1075525	207	42	14924	3850	0	0	0	0	50	1	421141	1	1	
MIP	2793663	184	61	12621	4305	0	0	0	0	50	0	523271	1	1	
MIPEP	262509	678	46	36687	9849	0	0	0	0	50	0	282261	1	1	
MIPOL1	67481	526	-48	23373	5460	0	0	0	0	50	1	442505	1	1	
MIS12	1145030	544	24	10500	2562	0	0	0	0	50	1	432817	1	1	
MITD1	504421	770	21	13104	3192	0	0	0	0	50	1	370118	1	1	
MITF	48041	436	-15	30681	7875	0	0	0	0	50	2	438137	1	1	
MIXL1	739974	278	21	10899	3843	0	0	0	0	50	0	440741	1	1	
MKI67	408820	641	-1	159789	46578	0	0	0	0	50	0	380212	1	1	
MKI67IP	225849	358	31	15064	4004	0	0	0	0	50	2	381486	1	1	
MKKS	166085	252	-14	28042	8225	0	0	0	0	50	0	519820	1	1	
MKL2	185822	323	12	52164	15246	0	0	0	0	50	0	403130	1	1	
MKLN1	258333	283	35	39382	9191	0	0	0	0	50	0	371896	1	1	
MKNK1	608423	266	25	23989	6377	0	0	0	0	50	0	374528	1	1	
MKNK2	1853815	239	37	25480	6923	0	0	0	0	50	0	464303	1	1	
MKRN1	359405	521	24	24563	6496	0	0	0	0	50	0	545566	1	1	
MKRN2	351796	280	34	21490	5411	0	0	0	0	50	0	380968	1	1	
MKRN3	94496	904	-55	24808	7196	0	0	0	0	50	0	336637	1	1	
MKS1	851306	401	14	29764	8120	0	0	0	0	50	0	356300	1	1	
MKX	283178	535	0	17801	4942	0	0	0	0	50	0	358617	1	1	
MLANA	337967	183	27	6139	1694	0	0	0	0	50	0	527107	1	1	

MLC1	909819	215	25	18984	5754	0	0	0	0	50	0	302673	1	1	
MLEC	1741363	349	42	14483	4312	0	0	0	0	50	0	370230	1	1	
MLF1	196830	940	-10	14210	3325	0	0	0	0	50	0	392490	1	1	
MLF1IP	299322	515	32	21994	5453	0	0	0	0	50	0	456624	1	1	
MLF2	2816186	232	48	12810	3549	0	0	0	0	50	1	498071	1	1	
MLH1	392784	473	21	38885	10318	0	0	0	0	50	0	588105	1	1	
MLH3	897430	222	50	73514	19096	0	0	0	0	50	1	442939	1	1	
MLKL	586358	173	30	24997	6230	0	0	0	0	50	1	315392	1	1	
MLL	1338034	192	49	195468	57624	0	0	0	0	50	1	456603	1	1	
MLL2	1770671	214	65	267365	85981	0	0	0	0	21	0	226380	1	1	
MLL3	261375	616	16	245763	68565	0	0	0	0	16	0	188818	1	1	
MLL4	1151198	321	30	130851	43281	0	0	0	0	14	0	136829	1	1	
MLL5	443176	381	40	92981	26236	0	0	0	0	50	1	446229	1	1	
MLLT1	1294183	417	20	28294	7910	0	0	0	0	50	0	354151	1	1	
MLLT10	128481	488	16	52115	14539	0	0	0	0	50	0	345611	1	1	
MLLT11	1614665	165	40	4578	1239	0	0	0	0	50	0	400533	1	1	
MLLT3	85091	575	14	29701	6986	0	0	0	0	50	0	442680	1	1	
MLLT4	138570	643	-2	94465	25781	0	0	0	0	24	0	237909	1	1	
MLLT6	1117878	207	41	53347	17213	0	0	0	0	50	0	373184	1	1	
MLN	1565139	428	28	6062	1582	0	0	0	0	50	0	366639	1	1	
MLNR	321392	424	51	19152	6909	0	0	0	0	50	0	450513	1	1	
MLPH	468096	440	11	30464	8659	0	0	0	0	50	1	558831	1	1	
MLST8	2179404	224	39	16814	4459	0	0	0	0	50	0	383964	1	1	
MLX	1884163	177	38	15421	4046	0	0	0	0	50	0	468503	1	1	
MLXIP	776345	NaN	34	45647	13657	0	0	0	0	50	0	441602	1	1	
MLXIPL	1197825	214	52	41734	13391	0	0	0	0	50	1	437409	1	1	
MLYCD	387177	550	-6	23842	7658	0	0	0	0	50	0	299026	1	1	
MMAA	224882	1168	19	20909	5992	0	0	0	0	50	0	339136	1	1	
MMAB	436841	428	38	12887	3640	0	0	0	0	50	1	412370	1	1	
MMACHC	809450	176	25	13734	4347	0	0	0	0	50	0	430094	1	1	
MMADHC	102377	521	1	15253	4046	0	0	0	0	50	1	420028	1	1	
MMD	147492	526	-59	12376	3185	0	0	0	0	50	1	365113	1	1	
MMD2	1539893	542	5	13846	3731	0	0	0	0	50	0	516558	1	1	
MME	72464	650	-12	39648	9513	0	0	0	0	50	2	472500	1	1	
MMEL1	323457	335	30	40362	10752	0	0	0	0	50	3	395955	1	1	
MMGT1	253719	NaN	20	6559	2009	0	0	0	0	50	0	355705	1	1	
MMP1	510838	567	-16	24353	6097	0	0	0	0	50	0	364854	1	1	
MMP10	510838	567	-16	24563	6286	0	0	0	0	50	0	364854	1	1	
MMP11	637355	196	52	24031	7406	0	0	1	0	50	1	403515	1	1	
MMP12	468929	506	-21	24332	6118	0	0	0	0	50	1	526610	1	1	
MMP13	374035	482	-10	24367	6167	0	0	0	0	50	0	491701	1	1	
MMP14	1177534	225	34	29218	8267	0	0	0	0	50	1	318059	1	1	
MMP15	856192	158	9	32942	10024	0	0	0	0	50	0	379778	1	1	
MMP16	27285	939	-34	33530	8764	0	0	0	0	50	0	411663	1	1	
MMP17	364888	206	17	29540	9310	0	0	0	0	50	1	409367	1	1	
MMP19	1909014	256	38	25403	7336	0	0	0	0	50	0	457919	1	1	
MMP2	129512	538	-28	33880	8876	0	0	0	0	50	1	460327	1	1	
MMP20	530118	436	17	24710	6580	0	0	0	0	50	0	344827	1	1	
MMP21	216532	351	-6	28224	8190	0	0	0	0	50	0	424067	1	1	
MMP23B	NaN	NaN	NaN	19103	6202	0	0	0	0	50	2	785750	1	1	

MMP24	1290513	170	45	28238	7924	0	0	0	0	50	0	456393	1	1	
MMP25	1534969	234	46	27503	8722	0	0	0	0	50	0	386393	1	1	
MMP26	97256	1024	-11	13566	3402	0	0	0	0	50	1	497959	1	1	
MMP27	530224	567	-10	26488	6734	0	0	0	0	50	0	337883	1	1	
MMP28	647610	144	6	25711	7931	0	0	0	0	50	0	408758	1	1	
MMP3	468929	506	-21	24388	6524	0	0	0	0	50	1	526610	1	1	
MMP7	524316	359	17	13664	3682	0	0	0	0	50	0	416297	1	1	
MMP8	530224	567	-10	24192	6090	0	0	0	0	50	0	337883	1	1	
MMP9	630342	381	51	35182	10472	0	0	0	0	50	0	437682	1	1	
MMRN2	396293	164	36	46116	14238	0	0	0	0	50	0	417452	1	1	
MMS19	556333	188	42	51975	15498	0	0	0	0	50	1	370916	1	1	
MN1	107535	256	-110	62923	20384	0	0	0	0	50	0	544390	1	1	
MNAT1	261238	578	5	16170	3948	0	0	0	0	50	1	414708	1	1	
MND1	202295	238	27	11172	2436	0	0	0	0	50	0	368361	1	1	
MNDA	97345	985	2	20797	5411	0	0	0	0	50	1	369761	1	1	
MNS1	211810	681	12	26642	5362	0	0	0	0	50	0	373268	1	1	
MNT	752972	271	28	27566	9583	0	0	0	0	50	0	445417	1	1	
MNX1	387871	369	24	19817	6874	0	0	0	0	50	0	443905	1	1	
MOAP1	325787	222	35	17192	4984	0	0	0	0	50	0	351904	1	1	
MOB2	859301	426	39	14119	3689	0	0	0	0	50	0	374388	1	1	
MOBKL1A	265400	638	25	11396	2695	0	0	0	0	50	0	408891	1	1	
MOBKL1B	1025255	172	44	11382	2709	0	0	0	0	50	0	500409	1	1	
MOBKL2A	1853815	239	37	10948	2954	0	0	0	0	50	0	464303	1	1	
MOBKL2B	117319	434	-22	11039	2800	0	0	0	0	50	0	420588	1	1	
MOBKL2C	608423	266	25	13545	3696	0	0	0	0	50	0	374528	1	1	
MOBKL3	667169	428	25	12033	2835	0	0	0	0	50	0	443625	1	1	
MOBP	161535	694	18	4438	896	0	0	0	0	50	0	363006	1	1	
MOCOS	393505	591	40	44506	12761	0	0	0	0	50	1	423199	1	1	
MOCS1	45558	966	22	21322	6377	0	0	0	0	50	0	414862	1	1	
MOCS2	204924	419	-5	13426	2954	0	0	0	0	50	0	382389	1	1	
MOCS3	386595	367	36	21504	7581	0	0	0	0	50	0	420938	1	1	
MOG	484408	755	34	15428	4333	0	0	0	0	50	0	358834	1	1	
MOGAT1	251851	308	19	17115	4557	0	0	0	0	50	0	392070	1	1	
MOGAT2	528291	418	45	16688	4816	0	0	0	0	50	1	492240	1	1	
MOGAT3	1022626	258	39	17038	5012	0	0	0	0	50	0	387464	1	1	
MOGS	1069803	343	45	39578	13552	0	0	0	0	50	0	390285	1	1	
MON1A	1289886	170	38	31416	10143	0	0	0	0	50	0	420819	1	1	
MON1B	60048	1058	-19	26068	8876	0	0	0	0	50	1	407225	1	1	
MON2	299830	359	-1	86835	24255	0	0	0	0	50	0	443905	1	1	
MORC1	88595	1029	-12	51891	12474	0	0	0	0	50	1	503937	1	1	
MORC2	763716	303	37	49434	13671	0	0	0	0	50	0	507486	1	1	
MORC3	281776	347	63	48678	11928	0	0	0	0	50	0	372057	1	1	
MORC4	177448	NaN	31	48195	12243	0	0	0	0	50	0	422681	1	1	
MORF4	260919	785	-29	11662	3185	0	0	0	0	50	2	413273	1	1	
MORF4L1	482778	413	50	19110	4767	0	0	0	0	50	0	423108	1	1	
MORF4L2	485629	NaN	43	14308	3983	0	0	0	0	50	1	361151	1	1	
MORN1	644518	302	30	25200	7308	0	0	0	0	50	2	429793	1	1	
MORN2	NaN	NaN	NaN	4165	1001	0	0	0	0	31	2	344484	1	1	
MORN3	743586	194	50	12642	2961	0	0	0	0	50	1	321188	1	1	
MORN4	564805	169	40	7546	2051	0	0	0	0	50	1	397852	1	1	

MORN5	220092	528	30	8631	1953	0	0	0	0	50	0	397061	1	1	
MOS	344171	552	20	16317	5523	0	0	0	0	50	0	538104	1	1	
MOSC1	319790	564	-2	16534	5264	0	0	0	0	50	0	292593	1	1	
MOSC2	319790	564	-2	16891	4865	0	0	0	0	50	0	292593	1	1	
MOSPD1	296514	NaN	17	10913	2968	0	0	0	0	50	1	442694	1	1	
MOSPD2	111964	NaN	15	27454	6419	0	0	0	0	50	0	464401	1	1	
MOSPD3	1884430	247	60	11354	3934	0	0	0	0	50	0	451815	1	1	
MOV10	559669	325	27	49952	15064	0	0	0	0	50	1	455399	1	1	
MOV10L1	934225	242	31	63161	16828	0	0	0	0	50	2	350658	1	1	
MOXD1	188578	673	1	31304	8344	0	0	0	0	50	0	444885	1	1	
MPDU1	1957426	194	24	12271	3857	0	0	0	0	50	2	432103	1	1	
MPDZ	77490	688	-36	102998	29386	0	0	0	0	50	0	491603	1	1	
MPEG1	542222	686	9	34727	10444	0	0	0	0	50	0	461167	1	1	
MPHOSPH10	355097	470	40	35665	8183	0	0	0	0	50	0	390187	1	1	
MPHOSPH6	170324	715	-10	8659	1862	0	0	0	0	50	0	569716	1	1	
MPHOSPH8	306203	602	18	44275	11102	0	0	0	0	50	1	544222	1	1	
MPHOSPH9	1064138	201	37	52780	13832	0	0	0	0	50	0	346227	1	1	
MPI	764533	195	46	21252	6090	0	0	0	0	50	2	423304	1	1	
MPL	1088321	252	27	31654	9380	0	0	0	0	50	0	436226	1	1	
MPND	2122615	220	27	25326	7392	0	0	0	0	50	1	469105	1	1	
MPO	838530	401	15	36799	11123	0	0	0	0	50	0	375487	1	1	
MPP1	1741051	NaN	3	24353	6286	0	0	0	0	50	0	461454	1	1	
MPP2	1025836	241	19	27601	8246	0	0	0	0	50	1	427504	1	1	
MPP3	1053443	192	27	30177	8253	0	0	0	0	50	0	403487	1	1	
MPP4	466105	534	28	33691	8267	0	0	0	0	50	1	374206	1	1	
MPP5	483147	260	32	34867	8729	0	0	0	0	50	0	387037	1	1	
MPP6	254420	405	18	27783	7224	0	0	0	0	50	0	420077	1	1	
MPP7	245887	473	-2	30114	7497	0	0	0	0	50	1	413924	1	1	
MPPE1	323758	148	39	20181	5586	0	0	0	0	50	0	363776	1	1	
MPPED1	354735	618	-6	14490	4095	0	0	0	0	50	0	328209	1	1	
MPPED2	29166	1075	-21	16058	4417	0	0	0	0	50	1	402738	1	1	
MPRIP	783403	214	11	53487	14679	0	0	0	0	50	0	478100	1	1	
MPST	699535	379	44	15414	4872	0	0	0	0	50	1	522970	1	1	
MPV17	1245306	182	52	9072	2667	0	0	0	0	50	1	445158	1	1	
MPV17L	545296	212	36	10290	2373	0	0	0	0	50	0	400946	1	1	
MPV17L2	1178047	210	43	10199	3220	0	0	0	0	50	0	438382	1	1	
MPZ	735152	293	41	12446	3703	0	0	0	0	50	1	438270	1	1	
MPZL1	546300	319	16	13580	3850	0	0	0	0	50	1	412167	1	1	
MPZL2	805791	211	41	10948	3080	0	0	0	0	50	0	418166	1	1	
MPZL3	805791	211	41	11949	3381	0	0	0	0	50	0	418166	1	1	
MR1	201966	253	23	17339	4669	0	0	0	0	50	0	376908	1	1	
MRAP	436753	379	8	10346	3010	0	0	0	0	50	1	477827	1	1	
MRAP2	54672	813	-16	10465	2765	0	0	0	0	50	1	495166	1	1	
MRAS	201973	408	19	10864	2723	0	0	0	0	50	0	335846	1	1	
MRC1	NaN	NaN	NaN	152089	36407	0	0	0	0	50	2	815955	1	1	
MRC1L1	75804	350	-2	152089	36407	0	0	0	0	10	0	128037	1	1	
MRC2	200276	280	-18	75418	20258	0	0	0	0	50	0	464121	1	1	
MRE11A	320374	589	-10	37044	9135	0	0	0	0	50	0	308847	1	1	
MREG	925953	501	19	11032	2849	0	0	0	0	50	0	310128	1	1	
MRFAP1	501655	278	47	6349	1799	0	0	0	0	50	0	387163	1	1	

MRFAP1L1	501020	201	62	6454	1694	0	0	0	0	50	0	396704	1	1	
MRGPRD	557282	416	51	15330	4935	0	0	0	0	50	0	475538	1	1	
MRGPRE	583782	421	36	14567	5215	0	0	0	0	50	0	414491	1	1	
MRGPRF	557282	416	51	16520	5404	0	0	0	0	50	0	475538	1	1	
MRGPRG	NaN	NaN	NaN	13244	4984	0	0	0	0	50	2	784532	1	1	
MRGPRX1	561250	695	15	15379	5012	0	0	0	0	50	0	385546	1	1	
MRGPRX2	483720	695	-1	15869	5068	0	0	0	0	50	1	442498	1	1	
MRGPRX3	631291	436	20	15428	5005	0	0	0	0	50	0	487781	1	1	
MRGPRX4	631291	436	20	15351	5040	0	0	0	0	50	0	487781	1	1	
MRI1	767214	289	6	19236	6489	0	0	0	0	50	0	547666	1	1	
MRM1	468055	548	23	17038	5600	0	0	0	0	50	0	369733	1	1	
MRO	240974	355	12	15309	3969	0	0	0	0	50	0	429394	1	1	
MRP63	447305	240	43	5096	1477	0	0	0	0	50	1	372477	1	1	
MRPL1	159162	508	15	17010	4200	0	0	0	0	50	0	407652	1	1	
MRPL10	1071489	214	29	12880	4004	0	0	0	0	50	0	370643	1	1	
MRPL11	1941577	194	51	10843	3353	0	0	0	0	50	1	395647	1	1	
MRPL12	3745109	205	30	9821	3052	0	0	0	0	50	1	351778	1	1	
MRPL13	223063	877	-16	9422	2359	0	0	0	0	50	0	475769	1	1	
MRPL14	1358424	203	53	7196	2170	0	0	0	0	50	0	386295	1	1	
MRPL15	268859	464	31	14721	4368	0	0	0	0	50	1	399511	1	1	
MRPL16	395993	494	8	12502	3626	0	0	0	0	50	0	386470	1	1	
MRPL17	424776	548	8	8603	2653	0	0	0	0	50	0	389123	1	1	
MRPL18	652619	453	26	9016	2639	0	0	0	0	50	0	420826	1	1	
MRPL19	138530	559	2	14987	3934	0	0	0	0	50	1	485268	1	1	
MRPL2	1239021	301	42	15008	4774	0	0	0	0	50	1	580839	1	1	
MRPL20	1736268	273	28	7581	2163	0	0	0	0	50	1	412650	1	1	
MRPL21	594397	303	45	10612	3080	0	0	0	0	50	0	396221	1	1	
MRPL22	516166	461	38	10794	2793	0	0	0	0	50	0	508627	1	1	
MRPL23	827096	481	53	7896	2184	0	0	0	0	50	1	492408	1	1	
MRPL24	1649536	208	53	11004	3129	0	0	0	0	50	0	427007	1	1	
MRPL27	1335838	196	24	7427	2296	0	0	0	0	50	0	451458	1	1	
MRPL28	1549307	207	37	12901	3710	0	0	0	0	50	0	510363	1	1	
MRPL3	276806	843	15	17892	4851	0	0	0	0	50	1	335678	1	1	
MRPL30	489016	633	27	8456	2170	0	0	0	0	50	0	424144	1	1	
MRPL32	163131	744	-6	9429	2688	0	0	0	0	50	0	382193	1	1	
MRPL33	1044890	146	30	5005	1001	0	0	0	0	50	0	374556	1	1	
MRPL34	842088	211	43	4466	1477	0	0	0	0	50	0	425502	1	1	
MRPL35	773440	425	39	9506	2779	0	0	0	0	50	0	380331	1	1	
MRPL36	394241	608	6	4977	1659	0	0	0	0	50	0	411250	1	1	
MRPL37	465615	313	26	21056	6202	0	0	0	0	50	0	361431	1	1	
MRPL38	1697896	165	28	19089	5586	0	0	0	0	50	0	399336	1	1	
MRPL39	533414	822	75	19180	4970	0	0	0	0	50	0	441602	1	1	
MRPL4	1729517	200	31	16345	5054	0	0	0	0	50	0	472304	1	1	
MRPL40	650407	300	16	10451	2884	0	0	0	0	50	1	400344	1	1	
MRPL41	1315685	404	41	6804	2037	0	0	0	0	50	1	412846	1	1	
MRPL42	380369	364	15	8260	1736	0	0	0	0	50	3	531986	1	1	
MRPL43	1020226	247	40	21476	5404	0	0	0	0	50	0	396403	1	1	
MRPL44	314020	346	23	16485	4788	0	0	0	0	50	0	449309	1	1	
MRPL45	1101194	504	10	14651	3850	0	0	0	0	50	0	313705	1	1	
MRPL46	212296	630	4	13923	4053	0	0	0	0	50	0	421232	1	1	

MRPL47	397411	520	10	12999	3360	0	0	0	0	50	0	374388	1	1	
MRPL48	553005	214	42	11179	2870	0	0	0	0	50	1	367381	1	1	
MRPL49	3267059	207	46	8309	2506	0	0	0	0	50	0	402752	1	1	
MRPL50	112947	898	-22	7917	2226	0	0	0	0	50	0	424284	1	1	
MRPL51	2764720	179	42	6573	1722	0	0	0	0	40	1	330568	1	1	
MRPL52	1165302	225	35	6951	1323	0	0	0	0	50	2	331933	1	1	
MRPL53	1069803	343	45	5537	1750	0	0	0	0	50	0	390285	1	1	
MRPL54	2144458	206	34	6972	1995	0	0	0	0	50	0	378000	1	1	
MRPL55	702621	391	5	8253	2583	0	0	0	0	50	0	334551	1	1	
MRPL9	1062482	255	29	13748	4165	0	0	0	0	50	0	440902	1	1	
MRPS10	524386	273	43	10563	2709	0	0	0	0	50	1	437843	1	1	
MRPS11	212296	630	4	9737	2968	0	0	0	0	50	0	421232	1	1	
MRPS12	1794625	282	21	6678	2247	0	0	0	0	50	1	389613	1	1	
MRPS14	176818	828	4	6440	1897	0	0	0	0	50	1	388654	1	1	
MRPS15	581032	347	31	13293	3591	0	0	0	0	50	1	498512	1	1	
MRPS16	829738	249	44	6818	2044	0	0	0	0	50	0	451955	1	1	
MRPS17	760564	642	11	6461	1960	0	0	0	0	50	0	453124	1	1	
MRPS18A	1626879	278	43	9919	2954	0	0	0	0	50	0	482370	1	1	
MRPS18B	2080582	271	32	13020	3801	0	0	0	0	50	0	425362	1	1	
MRPS18C	330595	378	40	7616	1855	0	0	0	0	50	1	401065	1	1	
MRPS2	298554	539	14	14616	4389	0	0	0	0	50	1	408366	1	1	
MRPS21	1213150	197	38	4585	1127	0	0	0	0	50	1	414330	1	1	
MRPS22	261288	671	9	18438	4977	0	0	0	0	50	0	414883	1	1	
MRPS23	873797	222	6	9716	2695	0	0	0	0	50	0	380625	1	1	
MRPS24	872910	239	44	8358	2520	0	0	0	0	50	0	444927	1	1	
MRPS25	532551	395	45	8967	2247	0	0	0	0	50	1	419027	1	1	
MRPS26	835590	288	54	10122	3150	0	0	0	0	50	0	343882	1	1	
MRPS27	414939	342	29	21511	5516	0	0	0	0	50	1	431970	1	1	
MRPS28	194118	410	45	9233	2821	0	0	0	0	50	1	458024	1	1	
MRPS30	87489	1075	-7	21749	6349	0	0	0	0	50	0	360472	1	1	
MRPS31	270527	470	44	20251	5285	0	0	0	0	50	1	468734	1	1	
MRPS33	354283	679	10	5488	1421	0	0	0	0	46	0	361781	1	1	
MRPS34	1604603	288	36	10654	3353	0	0	0	0	50	0	407358	1	1	
MRPS35	348119	376	4	16576	4466	0	0	0	0	50	0	392105	1	1	
MRPS36	423022	261	47	5418	1428	0	0	0	0	50	0	384272	1	1	
MRPS5	172221	647	11	22232	5845	0	0	0	0	50	0	403816	1	1	
MRPS6	785767	574	70	6321	1785	0	0	0	0	50	0	381297	1	1	
MRPS7	1723762	171	31	12236	3409	0	0	0	0	50	0	384559	1	1	
MRPS9	168425	599	-3	20636	5257	0	0	0	0	50	0	402094	1	1	
MRRF	319049	597	19	13678	3395	0	0	0	0	50	0	484512	1	1	
MRS2	399209	465	7	22512	6300	0	0	0	0	50	0	372288	1	1	
MRTO4	788190	448	30	12614	3094	0	0	0	0	50	0	435176	1	1	
MRVI1	755456	391	21	45353	13237	0	0	0	0	50	0	608328	1	1	
MS4A1	333232	899	13	15225	4053	0	0	0	0	50	1	388920	1	1	
MS4A10	744779	621	23	13587	3885	0	0	0	0	50	0	458101	1	1	
MS4A12	333232	899	13	13496	3892	0	0	0	0	50	1	388920	1	1	
MS4A13	337606	859	15	7910	2149	0	0	0	0	50	1	351512	1	1	
MS4A14	433906	899	24	33929	9247	0	0	0	0	50	0	360017	1	1	
MS4A15	744779	621	23	12012	3675	0	0	0	0	50	0	458101	1	1	
MS4A2	336373	691	4	13279	3731	0	0	0	0	50	0	421491	1	1	

MS4A3	336373	691	4	10892	3157	0	0	0	0	50	0	421491	1	1	
MS4A4A	469977	882	8	12229	3437	0	0	0	0	50	0	428932	1	1	
MS4A5	383569	899	18	10297	2786	0	0	0	0	50	1	361760	1	1	
MS4A6A	336539	784	-2	13391	3325	0	0	0	0	50	0	435043	1	1	
MS4A6E	433906	899	24	7392	2226	0	0	0	0	50	0	360017	1	1	
MS4A7	433906	899	24	12166	3521	0	0	0	0	50	0	360017	1	1	
MS4A8B	559288	756	16	12502	3794	0	0	0	0	50	0	345478	1	1	
MSC	25834	905	6	9821	3304	0	0	0	0	50	0	481173	1	1	
MSGN1	135007	1245	10	9261	2940	0	0	0	0	50	0	444353	1	1	
MSH2	793002	406	28	47796	12411	0	0	0	0	50	0	519624	1	1	
MSH3	319054	752	36	58086	15582	0	0	0	0	50	0	402087	1	1	
MSH4	146770	535	-10	47908	12761	0	0	0	0	50	0	504714	1	1	
MSH5	2509866	183	32	43344	12411	0	0	0	0	50	0	441721	1	1	
MSH6	488225	587	32	67802	18781	0	0	0	0	50	1	382886	1	1	
MSI1	1597755	182	50	18900	5187	0	0	0	0	50	0	436135	1	1	
MSI2	801767	507	-7	18900	4872	0	0	0	0	50	1	312858	1	1	
MSL1	1573630	202	28	18074	4774	0	0	0	0	50	0	420728	1	1	
MSL2	206721	398	16	28315	8183	0	0	0	0	50	0	351253	1	1	
MSL3	53978	NaN	41	28392	7140	0	0	0	0	50	0	433041	1	1	
MSL3L2	NaN	NaN	NaN	17493	4998	0	0	0	0	50	2	784546	1	1	
MSLN	1187310	273	39	30856	10241	0	0	0	0	50	0	458171	1	1	
MSLNL	1187310	273	39	50477	17185	0	0	0	0	50	0	458171	1	1	
MSMB	406207	579	41	6594	945	0	0	0	0	50	1	451556	1	1	
MSMP	922448	190	48	6993	1995	0	0	0	0	50	2	430472	1	1	
MSN	325257	NaN	47	29974	7448	0	0	0	0	50	0	423269	1	1	
MSR1	53956	947	-48	24010	6188	0	0	0	0	50	0	334894	1	1	
MSRA	114315	831	6	12383	3220	0	0	0	0	50	1	387128	1	1	
MSRB2	126042	469	5	9135	2730	0	0	0	0	50	1	305795	1	1	
MSRB3	324747	580	3	11228	3115	0	0	0	0	50	0	392105	1	1	
MST1	1551582	271	48	36876	10374	0	0	0	0	50	0	431081	1	1	
MST1R	1289886	170	38	67823	22036	0	0	0	0	50	0	420819	1	1	
MST4	151066	NaN	32	21609	5544	0	0	0	0	50	0	373856	1	1	
MSTN	508463	478	28	18830	5026	0	0	0	0	50	0	492373	1	1	
MSTO1	2230401	185	32	28441	8666	0	0	0	0	50	0	465682	1	1	
MSX1	132550	558	37	14245	4991	0	0	0	0	50	0	406609	1	1	
MSX2	30602	599	14	12775	4235	0	0	0	0	50	0	463806	1	1	
MT1A	653985	187	28	3437	679	0	0	0	0	50	1	322651	1	1	
MT1B	653985	187	28	3381	735	0	0	0	0	50	1	322651	1	1	
MT1E	653985	187	28	3353	721	0	0	0	0	50	1	322651	1	1	
MT1F	653985	187	28	3381	693	0	0	0	0	50	1	322651	1	1	
MT1G	661565	143	26	3416	700	0	0	0	0	49	0	368858	1	1	
MT1H	661565	143	26	3409	707	0	0	0	0	49	0	368858	1	1	
MT1M	653985	187	28	3346	728	0	0	0	0	50	1	322651	1	1	
MT1X	661565	143	26	3402	714	0	0	0	0	49	0	368858	1	1	
MT2A	653985	187	28	3416	700	0	0	0	0	50	1	322651	1	1	
MT3	653985	187	28	3745	770	0	0	0	0	50	1	322651	1	1	
MT4	598942	187	24	3542	679	0	0	0	0	43	0	385357	1	1	
MTA1	773175	244	40	36575	10213	0	0	0	0	50	0	507808	1	1	
MTA3	343875	378	27	26831	6811	0	0	0	0	50	1	483623	1	1	
MTAP	223932	357	-28	14525	3955	0	0	0	0	50	0	474292	1	1	

MTBP	193807	877	-3	46942	11921	0	0	1	0	50	1	360696	1	1	
MTCH1	832054	220	41	18683	5740	0	0	0	0	50	0	434042	1	1	
MTCH2	989876	214	28	15862	4298	0	0	0	0	50	0	457191	1	1	
MTCP1	NaN	NaN	NaN	5761	1463	0	0	0	0	31	2	344946	1	1	
MTCP1NB	985719	NaN	6	3696	819	0	0	0	0	50	1	311948	1	1	
MTDH	605177	163	38	29386	8267	0	0	0	0	50	0	427588	1	1	
MTERF	512495	617	-7	20006	5362	0	0	0	0	50	1	347179	1	1	
MTERFD1	217849	671	12	21357	5607	0	0	0	0	50	0	489370	1	1	
MTERFD2	1394664	278	35	19334	5026	0	0	0	0	50	0	477967	1	1	
MTERFD3	156112	473	21	19250	5152	0	0	0	0	50	0	380023	1	1	
MTF1	445066	303	33	37387	10955	0	0	0	0	50	0	320376	1	1	
MTF2	611888	391	16	30842	7756	0	0	0	0	50	0	402822	1	1	
MTFMT	697075	170	51	19663	5621	0	0	0	0	50	1	292026	1	1	
MTFR1	146207	407	16	18732	5250	0	0	0	0	50	0	366478	1	1	
MTG1	485067	472	8	17038	4907	0	0	0	0	50	0	404327	1	1	
MTHFD1	640692	221	45	47719	13517	0	0	0	0	50	1	439586	1	1	
MTHFD1L	341712	438	21	49532	14413	0	0	0	0	50	0	564151	1	1	
MTHFD2	1026994	272	50	17640	5103	0	0	0	0	50	1	366401	1	1	
MTHFD2L	180212	330	15	17528	5026	0	0	0	0	50	0	400568	1	1	
MTHFR	530804	196	39	33075	9240	0	0	0	0	50	0	342622	1	1	
MTHFS	221773	711	9	10269	2793	0	0	0	0	50	0	426636	1	1	
MTHFSD	70370	416	3	21007	6335	0	0	0	0	50	1	340823	1	1	
MTIF2	964970	349	25	37142	9856	0	0	0	0	50	0	386477	1	1	
MTIF3	306964	570	60	14532	3843	0	0	0	0	50	0	276360	1	1	
MTL5	712475	354	47	25795	7070	0	0	0	0	50	1	411439	1	1	
MTM1	287123	NaN	16	31241	7987	0	0	0	0	50	1	518210	1	1	
MTMR1	288573	NaN	9	34034	9184	0	0	0	0	50	0	397670	1	1	
MTMR10	279767	591	22	39956	10402	0	0	0	0	50	0	463722	1	1	
MTMR11	1115711	451	51	36358	10493	0	0	0	0	50	0	451269	1	1	
MTMR12	384742	160	27	38717	9667	0	0	0	0	50	1	522011	1	1	
MTMR14	899035	348	39	33271	9254	0	0	0	0	50	0	440377	1	1	
MTMR15	280093	591	19	51674	14035	0	0	0	0	50	0	445613	1	1	
MTMR2	285979	390	-1	32900	8848	0	0	0	0	50	0	467089	1	1	
MTMR3	752285	253	29	60914	16786	0	0	0	0	50	0	447090	1	1	
MTMR4	855696	384	23	60172	16688	0	0	0	0	50	0	537089	1	1	
MTMR6	330431	538	31	32319	7959	0	0	0	0	50	0	499394	1	1	
MTMR7	317985	345	7	34055	8680	0	0	0	0	50	0	421477	1	1	
MTMR8	56100	NaN	0	36148	9401	0	0	0	0	50	0	433825	1	1	
MTMR9	499514	671	36	27993	7413	0	0	0	0	50	1	391608	1	1	
MTNR1A	351103	675	-26	17087	5194	0	0	0	0	50	0	436772	1	1	
MTNR1B	55111	742	-18	17458	5516	0	0	0	0	50	0	461860	1	1	
MTO1	720190	139	29	37947	10899	0	0	0	0	50	0	420420	1	1	
MTP18	657636	288	48	10689	3024	0	0	0	0	50	0	386428	1	1	
MTPAP	91344	331	12	29400	8043	0	0	0	0	50	0	417774	1	1	
MTPN	387359	588	-9	6041	1708	0	0	0	0	50	0	274113	1	1	
MTR	407246	773	-13	65226	17220	0	0	0	0	50	0	370230	1	1	
MTRF1	309426	300	61	23156	5698	0	0	0	0	50	2	431620	1	1	
MTRF1L	159618	677	-1	19187	5320	0	0	0	0	50	0	412027	1	1	
MTRR	66042	1013	-9	36687	10353	0	0	0	0	50	1	416024	1	1	
MTSS1	481244	561	39	37674	11046	0	0	0	0	50	2	413175	1	1	

MTSS1L	880781	184	34	36617	11683	0	0	0	0	50	0	445844	1	1	
MTTP	318764	787	11	45416	12460	0	0	0	0	50	0	426293	1	1	
MTUS1	457439	237	-5	69118	18662	0	0	0	0	50	2	447167	1	1	
MTUS2	267724	784	-5	69244	20006	0	0	0	0	50	0	436576	1	1	
MTX1	1801444	194	32	22617	7392	0	0	0	0	50	0	392000	1	1	
MTX2	239999	888	11	13951	3437	0	0	0	0	50	0	410851	1	1	
MTX3	319253	795	31	16037	4396	0	0	0	0	50	0	364322	1	1	
MUC1	1801444	194	32	15701	2758	0	0	0	0	50	0	392000	1	1	
MUC12	NaN	NaN	NaN	249340	87752	0	0	0	0	4	0	113407	1	1	
MUC13	364165	212	42	26082	7098	0	0	0	0	50	0	374150	1	1	
MUC15	21485	951	-18	17969	5173	0	0	0	0	50	1	410564	1	1	
MUC17	1124475	272	43	210063	74109	0	0	0	0	3	0	116165	1	1	
MUC20	907437	365	47	25452	8841	0	0	0	0	50	1	519015	1	1	
MUC21	2483101	261	36	26796	9093	0	0	0	0	50	0	401436	1	1	
MUC5B	1400716	311	46	272160	95172	0	0	1	0	32	1	373723	1	1	
MUC6	1429028	466	43	117866	38584	0	0	0	0	50	1	489055	1	1	
MUC7	264556	861	26	17521	6461	0	0	0	0	50	0	453775	1	1	
MUCL1	590746	746	-4	4564	1463	0	0	0	0	1	0	3101	1	1	
MUDENG	167619	944	19	24759	6762	0	0	0	0	50	0	409262	1	1	
MUL1	573203	429	30	17318	5173	0	0	0	0	50	1	426783	1	1	
MUM1	2285841	209	31	35602	10346	0	0	0	0	50	0	435470	1	1	
MUM1L1	48678	NaN	-10	34762	9149	0	0	0	0	50	1	563325	1	1	
MURC	234309	702	-21	18249	4872	0	0	0	0	50	1	423031	1	1	
MUS81	3779084	287	42	27307	8729	0	0	0	0	50	1	388185	1	1	
MUSK	254657	422	9	44296	12404	0	0	0	0	50	1	459529	1	1	
MUSTN1	1193949	272	49	4193	1204	0	0	0	0	50	0	442659	1	1	
MUT	64105	1139	-14	37744	10577	0	0	0	0	50	2	524062	1	1	
MUTED	578469	368	13	9877	2345	0	0	0	0	50	0	406189	1	1	
MUTYH	1002765	249	29	28504	8540	0	0	0	0	50	0	442617	1	1	
MVD	802673	189	41	19852	6209	0	0	0	0	50	0	408009	1	1	
MVK	442710	465	38	19789	6146	0	0	0	0	50	0	378602	1	1	
MVP	NaN	NaN	NaN	43820	13804	0	0	0	0	50	2	793352	1	1	
MXD1	844060	221	37	11508	2898	0	0	0	0	50	1	344246	1	1	
MXD3	942017	227	53	11662	3500	0	0	0	0	50	1	389921	1	1	
MXD4	836839	332	29	10549	3143	0	0	0	0	50	0	377552	1	1	
MXI1	403252	359	12	16163	4480	0	0	0	0	50	0	493766	1	1	
MXRA5	223878	NaN	-28	137130	41601	0	0	0	0	6	0	105644	1	1	
MXRA7	913566	191	26	10997	3367	0	0	0	0	50	0	446299	1	1	
MXRA8	1744013	273	28	21854	6853	0	0	0	0	50	1	448280	1	1	
MYADM	849708	486	-50	15071	5362	0	0	0	0	34	0	244055	1	1	
MYADML2	NaN	NaN	NaN	14322	5124	0	0	0	0	50	2	784672	1	1	
MYB	150100	410	32	38927	10339	0	0	0	0	50	0	424900	1	1	
MYBBP1A	1252775	318	22	66787	19922	0	0	0	0	50	0	359044	1	1	
MYBL1	329076	140	37	38913	9786	0	0	0	0	50	0	378014	1	1	
MYBL2	382727	276	24	35182	10073	0	0	0	0	50	2	516292	1	1	
MYBPC1	348152	448	6	62027	15673	0	0	0	0	50	0	330162	1	1	
MYBPC2	1038277	491	30	58401	15855	0	0	0	0	50	1	410634	1	1	
MYBPC3	1189866	245	45	64610	18466	0	0	0	0	50	0	554785	1	1	
MYBPH	507603	453	31	23842	7154	0	0	0	0	50	0	450940	1	1	
MYBPHL	988224	302	29	17745	5334	0	0	0	0	50	0	433440	1	1	

MYC	406323	204	23	22344	6489	0	0	0	0	50	1	426832	1	1	
MYCBP	524940	458	24	5579	1351	0	0	0	0	50	0	367367	1	1	
MYCBP2	236609	713	59	236964	64701	0	0	0	0	50	0	368844	1	1	
MYCL1	996021	270	31	21168	6468	0	0	0	0	50	0	414827	1	1	
MYCN	169653	1491	-12	22316	7063	0	0	0	0	50	2	491260	1	1	
MYCT1	188249	600	-9	11473	3521	0	0	0	0	50	0	524811	1	1	
MYD88	302137	411	32	16079	4291	0	0	0	0	50	1	408961	1	1	
MYEF2	219744	588	-38	31353	7854	0	0	0	0	50	1	411383	1	1	
MYEOV	558031	443	37	14777	5173	0	0	0	0	50	0	507787	1	1	
MYEOV2	340416	482	28	12684	3633	0	0	0	0	50	1	440972	1	1	
MYF5	27810	974	-1	12677	3619	0	0	0	0	50	0	398965	1	1	
MYF6	27810	974	-1	11998	3521	0	0	0	0	50	0	398965	1	1	
MYH1	76487	723	-50	100275	25137	0	0	0	0	50	1	533687	1	1	
MYH10	646488	488	10	101696	26215	0	0	0	0	50	0	432404	1	1	
MYH11	435762	283	29	102543	26418	0	0	0	0	4	0	46655	1	1	
MYH13	83322	731	-47	100359	25116	0	0	0	0	50	1	556535	1	1	
MYH14	1215275	528	26	101052	30807	0	0	0	0	50	1	472689	1	1	
MYH15	257473	874	3	100877	25270	0	0	0	0	50	0	413077	1	1	
MYH2	75573	738	-49	100086	25452	0	0	0	0	50	1	555926	1	1	
MYH3	60385	749	-41	99960	25599	0	0	0	0	50	0	534247	1	1	
MYH4	77401	731	-50	100247	25207	0	0	0	0	50	1	529648	1	1	
MYH6	1220624	456	31	99274	26096	0	0	0	0	50	1	489685	1	1	
MYH7	1220544	456	29	99015	26145	0	0	0	0	50	0	443716	1	1	
MYH7B	968413	236	40	100009	28595	0	0	0	0	50	0	446957	1	1	
MYH8	80361	731	-49	100114	25172	0	0	0	0	50	1	562968	1	1	
MYH9	1223952	226	49	100513	26390	0	0	0	0	50	1	459235	1	1	
MYL1	186926	511	3	10822	2723	0	0	0	0	50	1	409591	1	1	
MYL10	653305	246	45	11823	3066	0	0	0	0	50	2	435407	1	1	
MYL12A	551966	328	55	9037	2051	0	0	0	0	50	0	387282	1	1	
MYL12B	551966	328	55	9058	2093	0	0	0	0	50	0	387282	1	1	
MYL2	907625	570	47	8988	2079	0	0	0	0	50	1	504007	1	1	
MYL3	427952	376	40	10304	2590	0	0	0	0	50	1	496797	1	1	
MYL4	960078	160	22	10360	2744	0	0	0	0	50	0	420595	1	1	
MYL5	639827	489	12	10913	2737	0	0	0	0	50	0	373163	1	1	
MYL6	2878044	171	40	8680	2093	0	0	0	0	50	1	407526	1	1	
MYL6B	2878044	171	40	10857	2898	0	0	0	0	50	1	407526	1	1	
MYL7	1151124	282	56	9380	2296	0	0	0	0	50	0	457093	1	1	
MYL9	858383	190	46	9023	2128	0	0	0	0	50	1	407750	1	1	
MYLIP	159273	596	27	22519	6083	0	0	0	0	50	1	445053	1	1	
MYLK	284041	449	32	96299	26950	0	0	0	0	50	0	448588	1	1	
MYLK2	1015946	241	37	30212	8407	0	0	0	0	50	0	337841	1	1	
MYLK3	443420	253	-10	40558	12110	0	0	0	0	50	1	420861	1	1	
MYLK4	470344	285	28	20524	4907	0	0	0	0	50	1	384111	1	1	
MYLPF	2312884	165	47	9177	2121	0	0	0	0	50	0	374290	1	1	
MYNN	400732	689	2	31185	7896	0	0	0	0	50	0	362383	1	1	
MYO10	275988	622	-15	105616	27461	0	0	0	0	50	0	381647	1	1	
MYO15A	911350	192	29	174405	53340	0	0	0	0	50	0	497735	1	1	
MYO16	108921	641	-19	93842	26131	0	0	0	0	50	0	531272	1	1	
MYO18A	1560056	159	33	103747	29162	0	0	0	0	50	0	427546	1	1	
MYO18B	198261	712	-37	128226	37086	0	0	0	0	50	0	486962	1	1	

MYO19	416822	556	23	50134	14189	0	0	0	0	50	1	543354	1	1	
MYO1A	2026922	199	41	53452	14588	0	0	0	0	50	0	418250	1	1	
MYO1B	480504	416	4	59311	14840	0	0	0	0	50	1	349916	1	1	
MYO1C	1380844	220	18	54684	15414	0	0	0	0	12	0	111608	1	1	
MYO1D	502828	818	5	51751	13496	0	0	0	0	50	0	426874	1	1	
MYO1E	773032	386	43	57729	14406	0	0	0	0	50	1	525595	1	1	
MYO1F	674374	214	-7	56119	15386	0	0	0	0	50	0	419433	1	1	
MYO1G	1110535	235	57	50974	15029	0	0	0	0	50	0	461209	1	1	
MYO1H	438867	470	39	53277	13692	0	0	0	0	50	0	427511	1	1	
MYO3A	63308	873	-6	83517	21126	0	0	0	0	50	0	466879	1	1	
MYO3B	324392	844	28	71778	18270	0	0	0	0	50	0	500934	1	1	
MYO5A	517214	386	19	95795	24493	0	0	0	0	50	0	409479	1	1	
MYO5B	276079	530	40	95130	24633	0	0	0	0	50	0	324604	1	1	
MYO5C	534690	195	24	90951	22218	0	0	0	0	50	0	465185	1	1	
MYO6	362445	482	17	67655	16219	0	0	0	0	50	1	475762	1	1	
MYO7B	528013	229	36	107114	30121	0	0	0	0	50	0	379589	1	1	
MYO9A	1084708	386	22	130165	33866	0	0	0	0	36	0	319606	1	1	
MYO9B	945446	330	36	108276	31206	0	0	0	0	50	0	525595	1	1	
MYOC	411007	718	10	24857	7168	0	0	0	0	50	0	425565	1	1	
MYOCD	113594	848	-54	49399	14126	0	0	0	0	50	0	392952	1	1	
MYOD1	391398	626	17	15393	4998	0	0	0	0	50	1	365162	1	1	
MYOF	458453	380	16	106421	27937	0	0	0	0	50	0	377139	1	1	
MYOG	430455	453	42	11004	3339	0	0	0	0	50	1	386932	1	1	
MYOM1	593610	424	50	86233	23093	0	0	0	0	50	0	501221	1	1	
MYOM3	817104	171	22	73052	20566	0	0	0	0	50	0	389837	1	1	
MYOT	946917	396	47	25256	6853	0	0	0	0	50	1	473690	1	1	
MYOZ1	1051799	153	43	14973	4347	0	0	0	0	50	0	481740	1	1	
MYOZ2	241167	683	1	13573	3542	0	0	0	0	50	0	422177	1	1	
MYOZ3	1107515	211	54	12607	3752	0	0	0	0	50	0	512624	1	1	
MYPN	407663	251	19	65807	18991	0	0	0	0	50	0	348250	1	1	
MYPOP	874987	198	41	18459	6909	0	0	0	0	50	0	410214	1	1	
MYRIP	195545	917	9	43421	12103	0	0	0	0	50	0	439236	1	1	
MYSM1	303727	517	-2	43540	10367	0	0	0	0	50	0	445970	1	1	
MYST1	1296884	351	35	24906	6783	0	0	0	0	50	1	440783	1	1	
MYST2	1129239	238	27	31549	8183	0	0	0	0	50	0	426776	1	1	
MYST3	608794	464	31	100968	26607	0	0	0	0	3	0	53676	1	1	
MYST4	246599	335	42	104391	27531	0	0	0	0	50	0	361571	1	1	
MYT1	812501	312	48	56966	15442	0	0	0	0	50	0	405944	1	1	
MYT1L	54881	901	-24	61257	15036	0	0	0	0	50	0	376719	1	1	
MZF1	2673870	276	11	35392	11333	0	0	0	0	50	0	476175	1	1	
N4BP1	156698	392	1	44555	12460	0	0	0	0	50	1	477442	1	1	
N4BP2	540527	260	45	89901	22932	0	0	0	0	50	1	403088	1	1	
N4BP2L1	226626	435	53	14098	3185	0	0	0	0	50	0	475034	1	1	
N4BP2L2	237148	455	47	61782	14511	0	0	0	0	50	1	464821	1	1	
N4BP3	821697	248	39	26096	8575	0	0	0	0	50	0	460229	1	1	
N6AMT1	312901	480	6	10780	3227	0	0	0	0	50	0	424333	1	1	
N6AMT2	403677	429	44	11123	2758	0	0	0	0	50	2	445991	1	1	
NAA10	2341816	NaN	26	12334	3164	0	0	0	0	50	0	574770	1	1	
NAA11	103025	821	-5	11536	3038	0	0	0	0	50	1	354648	1	1	
NAA15	389880	299	26	45696	10521	0	0	0	0	50	1	479927	1	1	

NAA16	302803	283	51	46340	10444	0	0	0	0	50	1	380009	1	1	
NAA20	225789	502	12	9730	2366	0	0	0	0	50	0	421106	1	1	
NAA25	771475	200	42	50470	12803	0	0	0	0	50	0	416472	1	1	
NAA30	150623	939	16	17759	5425	0	0	0	0	50	0	388787	1	1	
NAA35	320125	381	21	38584	9002	0	0	0	0	50	0	455735	1	1	
NAA38	72287	922	-13	5005	1358	0	0	0	0	50	2	499079	1	1	
NAA40	1322584	277	42	12593	2989	0	0	1	0	2	1	7805	1	1	
NAA50	441530	419	24	8946	2100	0	0	0	0	50	0	400204	1	1	
NAAA	483325	429	44	18284	5383	0	0	0	0	50	1	474425	1	1	
NAALAD2	131926	1141	-22	38241	9954	0	0	0	0	50	0	444052	1	1	
NAALADL1	3267059	207	46	36778	11375	0	0	0	0	32	0	246589	1	1	
NAALADL2	58421	1139	-15	40425	10857	0	0	0	0	50	2	508095	1	1	
NAB1	504177	232	37	24675	6657	0	0	0	0	50	0	379498	1	1	
NAB2	2026922	199	41	25382	8260	0	0	0	0	50	0	418250	1	1	
NACA	2637730	154	47	95039	36694	0	0	0	0	50	1	531489	1	1	
NACA2	323585	358	-8	10556	3136	0	0	0	0	50	0	389417	1	1	
NACAD	NaN	NaN	NaN	73647	25452	0	0	0	0	50	2	805000	1	1	
NACC1	1948449	221	41	26047	7637	0	0	0	0	50	0	421708	1	1	
NACC2	809002	262	46	28399	9065	0	0	0	0	50	0	390880	1	1	
NADK	1511678	243	30	22729	6356	0	0	0	0	50	0	366198	1	1	
NADSYN1	546912	626	50	36400	9821	0	0	0	0	50	0	343161	1	1	
NAE1	868790	142	24	29239	6965	0	0	0	0	50	0	382473	1	1	
NAF1	72763	1218	-7	26964	7728	0	0	0	0	50	1	394464	1	1	
NAGA	1321127	363	65	20979	5649	0	0	0	0	50	0	309267	1	1	
NAGK	367824	470	34	19698	5691	0	0	0	0	50	0	355054	1	1	
NAGLU	1993535	162	27	35714	11578	0	0	0	0	50	2	424592	1	1	
NAGPA	635794	302	9	25508	7798	0	0	0	0	50	0	525357	1	1	
NAIF1	1898149	195	32	15631	5117	0	0	0	0	50	1	432509	1	1	
NAIP	329526	581	16	74158	19502	0	0	0	0	50	1	558096	1	1	
NALCN	47011	804	5	89670	23499	0	0	0	0	28	0	273049	1	1	
NAMPT	246330	370	27	25291	6545	0	0	0	0	50	2	416752	1	1	
NANOG	175700	467	16	15743	3787	0	0	0	0	50	0	416192	1	1	
NANOS1	680734	411	-1	13489	5012	0	0	0	0	50	0	346885	1	1	
NANOS2	866240	261	42	6699	2100	0	0	0	0	50	0	535332	1	1	
NANOS3	754888	241	31	9163	3080	0	0	0	0	50	0	391622	1	1	
NANP	547844	515	-31	12390	3423	0	0	0	0	50	0	320180	1	1	
NANS	484638	272	48	18144	4998	0	0	0	0	50	0	400834	1	1	
NAP1L1	604083	438	17	21308	4648	0	0	0	0	50	0	428134	1	1	
NAP1L2	196410	NaN	-3	23100	5943	0	0	0	0	50	1	352828	1	1	
NAP1L3	33770	NaN	-11	25501	6440	0	0	0	0	50	1	692279	1	1	
NAP1L4	550048	221	38	20279	4669	0	0	0	0	50	0	405405	1	1	
NAP1L5	177679	486	8	9163	2366	0	0	0	0	50	0	399273	1	1	
NAPA	794875	276	44	15722	3766	0	0	0	0	50	1	424998	1	1	
NAPB	188695	688	-19	15974	3703	0	0	0	0	50	0	449029	1	1	
NAPEPLD	594757	579	34	20118	5124	0	0	0	0	50	1	460530	1	1	
NAPG	191442	594	17	16534	4109	0	0	0	0	50	0	308560	1	1	
NAPRT1	2183482	235	37	26166	8883	0	0	0	0	50	0	386120	1	1	
NAPSA	1072052	528	26	20545	6734	0	0	0	0	50	1	369026	1	1	
NARF	2583801	179	20	25774	6839	0	0	0	0	50	0	523950	1	1	
NARFL	1207790	194	33	24059	6874	0	0	0	0	50	2	442589	1	1	

NARG2	230111	266	23	50071	13118	0	0	0	0	50	0	404033	1	1	
NARS	304947	352	38	28294	7385	0	0	0	0	50	0	328377	1	1	
NARS2	302979	569	17	24535	6671	0	0	0	0	50	1	552230	1	1	
NASP	873800	161	27	41636	10906	0	0	0	0	50	0	419216	1	1	
NAT1	370301	569	-10	17766	4725	0	0	0	0	50	0	296968	1	1	
NAT10	769733	358	33	52353	14637	0	0	0	0	50	0	404747	1	1	
NAT14	NaN	NaN	NaN	9464	3745	0	0	0	0	50	2	783293	1	1	
NAT15	1083663	246	34	12383	3346	0	0	0	0	50	1	387604	1	1	
NAT2	322678	627	-26	14476	3941	0	0	0	0	50	0	435372	1	1	
NAT6	843769	206	51	14371	5222	0	0	0	0	50	0	402556	1	1	
NAT8	876583	590	16	11018	3430	0	0	0	0	50	1	523173	1	1	
NAT8B	978005	466	31	10871	3535	0	0	0	0	50	0	436639	1	1	
NAT8L	717079	321	34	14350	4907	0	0	0	0	50	0	475685	1	1	
NAT9	983414	484	17	10843	2765	0	0	0	0	50	0	384020	1	1	
NAV1	778347	223	27	93576	28329	0	0	0	0	50	0	448168	1	1	
NAV2	164305	496	9	122759	35875	0	0	0	0	50	0	451346	1	1	
NAV3	23591	1077	-25	118391	33733	0	0	0	0	23	0	302778	1	1	
NBAS	186706	1405	10	121156	32606	0	0	0	0	50	0	436849	1	1	
NBEA	38939	1070	11	149975	40474	0	0	0	0	40	0	396725	1	1	
NBEAL1	478657	384	31	138565	35672	0	0	0	0	18	1	152404	1	1	
NBEAL2	537135	371	45	134477	43540	0	0	0	0	37	0	300020	1	1	
NBL1	775439	271	32	10871	3094	0	0	0	0	50	0	430143	1	1	
NBN	251472	419	35	39032	9793	0	0	0	0	50	0	372582	1	1	
NBPF1	675669	259	40	59374	14525	0	0	0	0	50	1	564431	1	1	
NBPF10	NaN	NaN	NaN	184821	46053	0	0	0	0	50	2	825601	1	1	
NBPF11	NaN	NaN	NaN	82250	20440	0	0	0	0	50	2	799988	1	1	
NBPF14	NaN	NaN	NaN	48041	11851	0	0	0	0	50	2	791399	1	1	
NBPF15	NaN	NaN	NaN	35035	8498	0	0	0	0	50	2	788046	1	1	
NBPF16	NaN	NaN	NaN	70063	17003	0	0	0	0	50	2	796551	1	1	
NBPF3	563178	283	37	32809	8225	0	0	0	0	50	0	401527	1	1	
NBPF4	NaN	NaN	NaN	32830	8603	0	0	0	0	50	2	788151	1	1	
NBPF6	NaN	NaN	NaN	34286	9037	0	0	0	0	50	2	788585	1	1	
NBPF7	415110	581	26	21749	5404	0	0	0	0	50	2	411495	1	1	
NBPF9	NaN	NaN	NaN	49035	12054	0	0	0	0	50	2	791602	1	1	
NBR1	1341175	172	25	49231	13370	0	0	0	0	50	0	420231	1	1	
NCALD	362848	629	41	10087	2387	0	0	0	0	50	0	388143	1	1	
NCAM1	68889	524	-1	47040	12789	0	0	0	0	50	0	467110	1	1	
NCAM2	14306	1515	-61	43134	11088	0	0	0	0	50	1	499541	1	1	
NCAN	940952	232	17	64778	19684	0	0	0	0	50	1	405944	1	1	
NCAPD2	2764720	179	42	70728	20202	0	0	1	0	50	1	509985	1	1	
NCAPD3	270385	601	14	76713	20580	0	0	0	0	50	1	421575	1	1	
NCAPG	271201	1073	21	51940	13790	0	0	0	0	50	1	414239	1	1	
NCAPG2	267997	565	-31	58996	15344	0	0	0	0	50	1	481243	1	1	
NCAPH	907236	316	46	38248	9968	0	0	0	0	50	1	550207	1	1	
NCAPH2	1075525	207	42	31962	8652	0	0	0	0	50	1	421141	1	1	
NCBP1	495483	358	36	41510	10171	0	0	0	0	50	0	368431	1	1	
NCBP2	754196	306	29	8141	2044	0	0	0	0	50	0	469399	1	1	
NCCRP1	1652029	286	26	13377	4473	0	0	0	0	50	1	414561	1	1	
NCDN	1049488	388	34	34790	11788	0	0	0	0	50	0	278852	1	1	
NCEH1	314731	235	20	22078	6545	0	0	0	0	50	2	446474	1	1	

NCF1	895858	125	49	20076	5439	0	0	0	0	50	1	462056	1	1	
NCF2	618153	407	31	27454	7007	0	0	0	0	50	1	330414	1	1	
NCF4	1261877	537	50	21294	5943	0	0	0	0	50	2	593733	1	1	
NCK1	181954	195	20	19166	4900	0	0	0	0	50	0	401135	1	1	
NCK2	209853	689	15	19040	5215	0	0	0	0	50	0	317562	1	1	
NCKAP1	350474	419	10	59206	14903	0	0	0	0	50	0	474642	1	1	
NCKAP1L	643138	151	35	58023	15603	0	0	0	0	13	0	125461	1	1	
NCKAP5	36731	826	18	94640	27202	0	0	0	0	50	0	423710	1	1	
NCL	1052303	216	43	36533	9352	0	0	0	0	50	1	499135	1	1	
NCLN	905626	241	30	28119	8589	0	0	0	0	50	2	380394	1	1	
NCOA1	343965	403	33	73150	20363	0	0	0	0	50	1	397677	1	1	
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NCOR1	954548	370	-18	123025	34538	0	0	0	0	39	1	329238	1	1	
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NCR1	840563	573	-15	15463	4298	0	0	0	0	50	1	423073	1	1	
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NCS1	650366	231	30	10458	2499	0	0	0	0	50	1	385336	1	1	
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NDC80	374218	390	0	33894	8001	0	0	0	0	50	0	376873	1	1	
NDE1	495419	283	26	19551	5061	0	0	0	0	50	1	397999	1	1	
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NDFIP1	606399	371	40	11501	3073	0	0	0	0	50	0	431158	1	1	
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NDRG1	234084	322	0	20566	5579	0	0	0	0	50	0	562590	1	1	
NDRG2	1005555	429	4	19292	5404	0	0	0	0	50	1	348677	1	1	
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NDST1	1109777	188	60	44016	12705	0	0	0	0	50	0	461125	1	1	
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NDUFA1	772178	NaN	38	3724	959	0	0	0	0	36	0	249760	1	1	
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NDUFA11	1192025	294	35	7119	2121	0	0	0	0	50	2	336882	1	1	
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NDUFA2	774470	356	31	5439	1554	0	0	0	0	50	0	408716	1	1	
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NDUFA5	88676	779	-25	6181	1526	0	0	0	0	50	0	418978	1	1	
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NDUFA7	778783	209	14	5705	1771	0	0	0	0	50	0	451171	1	1	
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NDUFA9	277828	874	18	19264	5432	0	0	0	0	50	1	406728	1	1	
NDUFAB1	536544	561	43	8036	2233	0	0	0	0	50	1	381234	1	1	
NDUFAF1	897414	237	24	16632	4410	0	0	0	0	50	1	304710	1	1	
NDUFAF2	205876	502	11	8918	2086	0	0	0	0	50	0	489580	1	1	
NDUFAF3	1799657	241	41	9044	2947	0	0	0	0	50	0	446040	1	1	
NDUFAF4	123845	1308	1	8960	2338	0	0	0	0	50	1	387233	1	1	
NDUFB1	356163	415	27	5446	1484	0	0	0	0	50	0	491001	1	1	
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NDUFB11	819569	NaN	38	8211	2373	0	0	0	0	50	0	325941	1	1	
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NDUFB3	644877	205	39	5180	1225	0	0	0	0	50	0	452599	1	1	
NDUFB4	317876	449	0	7056	2058	0	0	0	0	50	1	456778	1	1	
NDUFB5	397411	520	10	9758	2674	0	0	0	0	50	0	374388	1	1	
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NDUFB7	1008795	204	26	7049	1897	0	0	0	0	50	0	404012	1	1	
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NDUFS1	311488	433	24	37086	10290	0	0	0	0	50	0	457996	1	1	
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NDUFV1	1374022	393	53	23142	6951	0	0	0	0	50	0	429800	1	1	
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NDUFV3	441011	206	66	23072	7084	0	0	0	0	50	1	413497	1	1	
NEB	248944	641	13	448147	106400	0	0	0	0	23	0	264124	1	1	
NEBL	71095	484	-19	60452	13552	0	0	0	0	50	1	370986	1	1	
NECAB1	108662	842	-13	18809	4375	0	0	0	0	50	0	617799	1	1	
NECAB2	494952	460	3	19880	5551	0	0	0	0	50	0	351554	1	1	
NECAB3	710350	161	55	20132	5803	0	0	0	0	50	2	410375	1	1	
NECAP1	142724	300	23	14056	3962	0	0	0	0	50	0	403893	1	1	
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NEDD1	51429	882	-6	34342	9002	0	0	0	0	50	0	485163	1	1	
NEDD4	259242	271	-1	72709	18998	0	0	0	0	50	1	408814	1	1	
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NEDD8	944836	220	40	4291	1148	0	0	0	0	50	0	455077	1	1	
NEDD9	228484	418	30	42700	12131	0	0	0	0	50	0	514269	1	1	
NEFH	723458	203	35	50008	14609	0	0	0	0	50	0	436562	1	1	
NEFL	180048	521	-2	26978	7609	0	0	0	0	50	0	456771	1	1	
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NEGR1	23816	1136	-23	17878	5033	0	0	0	0	50	0	417977	1	1	
NEIL1	814680	296	43	19488	5901	0	0	0	0	50	0	389816	1	1	
NEIL2	470737	360	34	16723	4697	0	0	0	0	50	0	343322	1	1	

NEIL3	53396	746	-20	30905	8029	0	0	0	0	50	0	442869	1	1	
NEK1	245919	399	12	65800	16289	0	0	0	0	50	0	487634	1	1	
NEK10	107333	515	-15	37576	9275	0	0	0	0	50	1	475356	1	1	
NEK11	312654	797	12	34734	7644	0	0	0	0	50	1	406007	1	1	
NEK2	391935	167	9	22694	5992	0	0	0	0	50	1	354571	1	1	
NEK3	397134	432	30	26733	6468	0	0	0	0	50	0	454440	1	1	
NEK4	1205825	272	48	42581	11725	0	0	0	0	50	0	545293	1	1	
NEK6	483948	406	41	19495	4928	0	0	0	0	50	1	507451	1	1	
NEK7	114791	402	-13	15897	3948	0	0	0	0	50	0	444619	1	1	
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NEK9	919043	222	47	49539	13965	0	0	0	0	50	1	510867	1	1	
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NET1	740293	446	8	31535	8995	0	0	0	0	50	0	329028	1	1	
NETO1	32720	916	-26	28168	7070	0	0	0	0	50	0	413028	1	1	
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NEURL4	1911735	206	36	76797	24066	0	0	0	0	50	1	434000	1	1	
NEUROD1	210899	380	17	17640	4935	0	0	0	0	50	0	351211	1	1	
NEUROD2	1164935	239	28	18263	5950	0	0	0	0	50	1	371959	1	1	
NEUROD4	115336	828	15	16338	4662	0	0	0	0	50	0	381038	1	1	
NEUROD6	48298	883	-4	16856	4522	0	0	0	0	50	0	443170	1	1	
NEUROG1	496830	608	34	11109	3885	0	0	0	0	50	1	461468	1	1	
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NEXN	367341	256	1	35511	8085	0	0	0	0	50	1	498939	1	1	
NF1	462449	396	26	145943	39004	0	0	0	0	3	0	52934	1	1	
NF2	734742	149	38	31899	7875	0	0	0	0	50	1	430885	1	1	
NFAM1	967833	185	53	13356	4179	0	0	0	0	50	1	359884	1	1	
NFASC	388939	440	33	69713	19453	0	0	0	0	50	1	393148	1	1	
NFAT5	1302986	NaN	41	77742	21084	0	0	0	0	10	0	70742	1	1	
NFATC1	213864	598	6	47985	15372	0	0	0	0	50	1	392525	1	1	
NFATC2	363545	482	28	47201	14455	0	0	0	0	50	1	444521	1	1	
NFATC2IP	1189140	257	55	20349	6741	0	0	0	0	50	0	432040	1	1	
NFATC3	882378	152	43	56413	16961	0	0	0	0	34	1	328426	1	1	
NFATC4	897133	265	40	46970	16051	0	0	0	0	50	0	507787	1	1	
NFE2	753625	205	59	17836	5894	0	0	0	0	50	1	392749	1	1	
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NFIA	113571	399	-8	28973	8302	0	0	0	0	50	0	433741	1	1	
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NFYA	145501	611	37	17584	5096	0	0	0	0	50	0	397600	1	1	
NFYB	1222031	156	17	11081	2611	0	0	0	0	50	0	346143	1	1	
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NGB	554839	418	37	7518	2310	0	0	0	0	50	0	461601	1	1	
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NGEF	404109	215	33	38017	10241	0	0	0	0	50	0	363825	1	1	
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NGFRAP1	448080	NaN	32	5761	1379	0	0	0	0	50	0	331065	1	1	
NGLY1	216966	701	-1	35392	8960	0	0	0	0	50	0	451934	1	1	
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NHEDC1	357993	363	26	30030	7938	0	0	0	0	50	0	471058	1	1	
NHEDC2	350752	454	26	26775	8043	0	0	0	0	50	0	512092	1	1	
NHEJ1	798168	177	37	15246	4200	0	0	0	0	50	0	309890	1	1	
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NHLH2	503800	639	9	6524	2128	0	0	0	0	50	1	395276	1	1	
NHLRC1	487819	397	-1	18711	6279	0	0	0	0	50	0	384293	1	1	
NHLRC2	266343	515	18	36533	10108	0	0	0	0	50	1	396172	1	1	
NHLRC3	150239	998	11	17493	4935	0	0	0	0	50	0	436975	1	1	
NHLRC4	1115707	213	39	5796	2016	0	0	0	0	50	0	333676	1	1	
NHP2	821697	248	39	8015	1939	0	0	0	0	50	0	460229	1	1	
NHP2L1	1475100	183	50	6482	1918	0	0	0	0	50	0	372533	1	1	
NHS	70191	NaN	12	81039	24465	0	0	0	0	50	0	463337	1	1	
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NINJ1	504920	448	61	7665	2268	0	0	0	0	50	1	382585	1	1	
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NIP7	1202748	125	20	9135	2604	0	0	0	0	50	0	354158	1	1	
NIPA1	352778	529	-8	15939	5229	0	0	0	0	50	0	445725	1	1	
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NIPSNAP3B	194451	718	-21	12740	3346	0	0	0	0	50	1	425761	1	1	
NISCH	1096247	192	55	74186	22309	0	0	0	0	50	0	483679	1	1	
NIT1	689033	250	23	19180	5894	0	0	0	0	50	0	374983	1	1	
NIT2	378824	361	26	14441	3808	0	0	0	0	50	0	416150	1	1	
NKAIN1	586763	234	28	10633	2975	0	0	0	0	50	1	482706	1	1	
NKAIN2	23367	993	-28	10878	2793	0	0	0	0	50	0	438865	1	1	
NKAIN3	138003	904	-16	10227	2667	0	0	0	0	50	0	456687	1	1	
NKAIN4	1005137	285	50	10640	3073	0	0	0	0	50	1	392280	1	1	
NKAP	772178	NaN	38	21161	5719	0	0	0	0	50	0	444234	1	1	
NKAPL	273319	502	35	20111	5320	0	0	0	0	50	1	348229	1	1	
NKD1	307084	646	-6	23632	6797	0	0	0	0	50	0	456085	1	1	
NKD2	692388	484	29	22701	6573	0	0	0	0	50	1	427105	1	1	
NKG7	368509	610	-9	8162	2548	0	0	0	0	50	0	281603	1	1	
NKIRAS1	399346	319	6	9849	2562	0	0	0	0	50	0	439306	1	1	
NKIRAS2	2081077	206	23	10255	2177	0	0	0	0	50	2	452221	1	1	
NKPD1	1230654	243	41	39662	13069	0	0	0	0	50	0	483896	1	1	
NKRF	663615	NaN	48	35119	9611	0	0	0	0	50	1	364861	1	1	
NKTR	350455	445	42	74242	19271	0	0	0	0	50	1	435904	1	1	
NKX1-2	NaN	NaN	NaN	14427	5271	0	0	0	0	50	2	784819	1	1	
NKX2-1	58829	624	-18	19425	6111	0	0	0	0	50	0	382998	1	1	
NKX2-2	283479	694	-10	13223	4123	0	0	0	0	50	0	424186	1	1	
NKX2-3	278426	497	13	17591	5488	0	0	0	0	50	0	332325	1	1	
NKX2-4	283501	638	-3	16653	5838	0	0	0	0	50	0	365253	1	1	
NKX2-5	483508	458	33	17402	5908	0	0	0	0	50	0	403725	1	1	
NKX2-6	NaN	NaN	NaN	10311	3654	0	0	0	0	50	2	783202	1	1	
NKX2-8	49455	583	-20	11228	3976	0	0	0	0	50	0	392007	1	1	
NKX3-1	378220	544	16	11389	3542	0	0	0	0	50	1	489587	1	1	
NKX3-2	134006	592	24	15722	5446	0	0	0	0	50	0	399490	1	1	
NKX6-1	95574	895	-5	17451	5985	0	0	0	0	50	0	410662	1	1	
NKX6-2	278505	581	-12	13293	4473	0	0	0	0	50	0	344015	1	1	
NKX6-3	434010	533	37	6552	2142	0	0	0	0	50	0	354333	1	1	
NLE1	516190	504	23	24479	7189	0	0	0	0	50	0	423276	1	1	
NLGN1	34593	1079	-18	40733	11515	0	0	0	0	50	1	376607	1	1	
NLGN2	1906324	206	33	39970	13244	0	0	1	0	50	1	462924	1	1	
NLGN3	759088	NaN	27	41391	12600	0	0	0	0	50	0	509495	1	1	
NLGN4X	13333	NaN	-22	40299	11508	0	0	0	0	50	1	542409	1	1	
NLGN4Y	0	0	0	43302	11823	0	0	0	0	50	1	416332	1	1	
NLK	1261475	410	-3	26649	7455	0	0	0	0	50	1	332983	1	1	
NLN	407983	149	33	36197	9226	0	0	0	0	50	0	349622	1	1	

NLRC3	775547	224	39	51989	16618	0	0	0	0	50	0	405251	1	1	
NLRC4	394223	276	21	51513	13713	0	0	0	0	50	0	468538	1	1	
NLRC5	804832	154	53	93765	27804	0	0	0	0	50	0	403781	1	1	
NLRP1	1016229	605	10	74165	21574	0	0	0	0	50	1	473781	1	1	
NLRP10	105341	679	6	32459	9037	0	0	0	0	50	1	489573	1	1	
NLRP11	991833	362	-35	51870	14028	0	0	0	0	50	1	445214	1	1	
NLRP12	783610	486	-58	53928	15792	0	0	0	0	50	1	573594	1	1	
NLRP13	802494	561	-68	52710	13902	0	0	0	0	50	1	567532	1	1	
NLRP14	418263	881	-4	55615	14231	0	0	0	0	50	0	386232	1	1	
NLRP2	982889	432	-21	53095	14882	0	0	0	0	22	0	227794	1	1	
NLRP3	293118	825	-17	52129	13958	0	0	0	0	50	0	355950	1	1	
NLRP4	959325	484	-56	50050	13391	0	0	0	0	50	1	600586	1	1	
NLRP5	631041	561	-72	59696	17143	0	0	0	0	50	1	552643	1	1	
NLRP6	1463610	437	24	42539	14287	0	0	0	0	50	0	358533	1	1	
NLRP7	840563	573	-15	51849	14385	0	0	0	0	42	0	372330	1	1	
NLRP8	802494	561	-68	52521	14364	0	0	1	0	6	1	86184	1	1	
NLRP9	1024341	362	-13	50015	13195	0	0	0	0	50	0	308329	1	1	
NLRX1	1258103	195	57	49161	16527	0	0	0	0	50	0	461741	1	1	
NMB	341389	197	42	7693	2345	0	0	0	0	50	0	391202	1	1	
NMBR	152447	513	-28	19180	5663	0	0	0	0	50	1	504959	1	1	
NMD3	242883	581	-16	26656	6356	0	0	0	0	50	0	379533	1	1	
NME1	NaN	NaN	NaN	9065	2485	0	0	0	0	50	2	782033	1	1	
NME1-NME2	817798	267	-4	13699	3815	0	0	0	0	50	0	396018	1	1	
NME2	817798	267	-4	7875	2142	0	0	0	0	50	0	396018	1	1	
NME3	1604603	288	36	8435	2611	0	0	0	0	50	0	407358	1	1	
NME4	1549307	207	37	9352	2870	0	0	0	0	50	0	510363	1	1	
NME5	1044706	377	41	11046	2793	0	0	0	0	50	1	356314	1	1	
NME6	1054170	263	37	9954	2793	0	0	0	0	50	0	357455	1	1	
NME7	270055	491	12	19684	5033	0	0	0	0	50	0	402248	1	1	
NMI	215149	617	17	16128	3864	0	0	0	0	50	0	355607	1	1	
NMNAT1	744954	240	24	14273	3703	0	0	0	0	50	0	452326	1	1	
NMNAT2	769970	465	13	17262	4494	0	0	0	0	50	1	319907	1	1	
NMNAT3	224111	848	9	10864	2996	0	0	0	0	50	0	374507	1	1	
NMRAL1	751633	160	39	14966	4396	0	0	0	0	50	1	343014	1	1	
NMS	226558	642	9	8505	2037	0	0	0	0	50	1	456309	1	1	
NMT1	831501	191	28	25592	6685	0	0	0	0	50	0	468370	1	1	
NMT2	236087	620	23	25788	6615	0	0	0	0	50	0	378252	1	1	
NMU	247026	456	28	9331	2450	0	0	0	0	50	0	343581	1	1	
NMUR2	261658	955	4	20573	5887	0	0	0	0	50	0	476525	1	1	
NNAT	790368	549	52	4200	1302	0	0	0	0	23	0	163170	1	1	
NNMT	162422	499	-4	13146	3759	0	0	0	0	50	0	421778	1	1	
NNT	439246	597	0	53802	16443	0	0	0	0	50	0	447720	1	1	
NOB1	1410481	NaN	39	20818	5915	0	0	0	0	50	0	574826	1	1	
NOBOX	185754	838	-7	28105	8708	0	0	1	0	50	1	424732	1	1	
NOC2L	1851188	467	3	38059	10745	0	0	0	0	50	0	490735	1	1	
NOC3L	242278	482	12	41797	10388	0	0	0	0	50	0	360444	1	1	
NOC4L	608356	528	26	26019	7812	0	0	0	0	50	2	444164	1	1	
NOD1	623997	400	37	47054	13888	0	0	0	0	50	0	402157	1	1	
NOD2	294632	792	1	50897	15610	0	0	0	0	50	0	386841	1	1	
NODAL	550900	338	42	17052	5082	0	0	0	0	50	1	366961	1	1	

NOG	268027	457	-44	11060	3619	0	0	0	0	50	0	387051	1	1	
NOL10	804107	344	32	36316	8771	0	0	0	0	50	0	385007	1	1	
NOL11	692622	197	7	37114	9716	0	0	0	0	50	0	419006	1	1	
NOL12	1136064	180	65	10780	3164	0	0	0	0	50	0	379680	1	1	
NOL3	1109491	150	46	12418	1904	0	0	0	0	50	0	375074	1	1	
NOL4	10823	966	-14	32529	8568	0	0	0	0	50	2	474593	1	1	
NOL6	1001877	166	4	56336	18067	0	0	1	0	50	1	334859	1	1	
NOL7	277395	425	37	13517	3409	0	0	0	0	50	0	402192	1	1	
NOL8	527573	574	45	60144	14784	0	0	0	0	50	1	389375	1	1	
NOL9	636407	203	41	34916	10339	0	0	0	0	50	1	411411	1	1	
NOLC1	1041024	187	45	35483	9625	0	0	0	0	50	1	565012	1	1	
NOM1	386240	474	22	43141	11984	0	0	0	0	50	0	573377	1	1	
NOMO1	518442	343	19	62006	17605	0	0	0	0	50	0	398622	1	1	
NOMO2	707984	675	17	64267	18347	0	0	0	0	50	0	403648	1	1	
NOMO3	368918	346	15	61915	17654	0	0	0	0	50	3	488320	1	1	
NONO	728362	NaN	26	24220	6356	0	0	0	0	50	0	565334	1	1	
NOP10	542657	234	22	3325	896	0	0	0	0	50	0	370531	1	1	
NOP14	680459	336	49	44128	11480	0	0	0	0	50	0	345191	1	1	
NOP16	576954	347	45	9198	2394	0	0	0	0	50	0	411243	1	1	
NOP2	2764720	179	42	40425	11802	0	0	0	0	17	1	143640	1	1	
NOP56	792941	450	48	30142	8351	0	0	0	0	50	2	500423	1	1	
NOP58	386034	270	50	27713	6853	0	0	0	0	50	1	385567	1	1	
NOS1	201056	259	13	72296	20377	0	0	0	0	50	0	349951	1	1	
NOS1AP	372116	410	2	26250	7539	0	0	0	0	50	0	404894	1	1	
NOS3	698665	373	33	64071	19845	0	0	0	0	50	0	479297	1	1	
NOSIP	2080142	210	41	15183	4536	0	0	0	0	50	0	429324	1	1	
NOSTRIN	169372	724	12	29953	7007	0	0	0	0	50	0	438732	1	1	
NOTCH1	1489379	212	43	127694	36106	0	0	0	0	19	0	200879	1	1	
NOTCH2	429750	510	14	124866	33642	0	0	0	0	50	0	452802	1	1	
NOTCH2NL	NaN	NaN	NaN	12145	3122	0	0	0	0	50	2	782670	1	1	
NOTCH3	630378	381	11	113939	35077	0	0	0	0	50	0	362873	1	1	
NOTCH4	2119974	392	28	98574	30198	0	0	0	0	50	0	467467	1	1	
NOTO	NaN	NaN	NaN	12019	4025	0	0	0	0	50	2	783573	1	1	
NOTUM	3814891	211	28	24913	7238	0	0	0	0	50	1	350889	1	1	
NOV	261913	519	-14	17927	4963	0	0	0	0	50	1	500493	1	1	
NOVA1	15854	883	-41	24850	8099	0	0	0	0	50	0	330806	1	1	
NOVA2	866240	261	42	23142	8211	0	0	0	0	50	0	535332	1	1	
NOX1	352830	NaN	29	28945	7658	0	0	0	0	50	0	455882	1	1	
NOX3	108543	628	13	29092	7868	0	0	0	0	50	0	420952	1	1	
NOX4	30048	1071	-25	30163	7742	0	0	0	0	50	1	606053	1	1	
NOX5	370981	394	26	39739	11207	0	0	0	0	50	0	446117	1	1	
NOXA1	1591716	213	30	24010	7658	0	0	0	0	50	0	399203	1	1	
NOXO1	1747301	183	46	18186	6237	0	0	0	0	50	0	376299	1	1	
NPAS1	1175364	207	35	28455	9618	0	0	0	0	50	1	382704	1	1	
NPAS2	339144	406	14	41979	11676	0	0	0	0	50	1	438270	1	1	
NPAS3	24372	929	-23	47138	13825	0	0	0	0	50	0	432670	1	1	
NPAS4	1963418	182	55	39039	12138	0	0	0	0	50	0	412622	1	1	
NPAT	411907	695	26	71568	19866	0	0	0	0	50	1	470435	1	1	
NPB	3798594	211	19	5817	2247	0	0	0	0	50	1	363321	1	1	
NPBWR1	99395	697	-19	15232	5474	0	0	0	0	50	1	501655	1	1	

NPBWR2	1032302	312	51	15554	5467	0	0	0	0	50	0	409850	1	1	
NPC1L1	1577451	363	49	66528	20790	0	0	0	0	50	1	466851	1	1	
NPC2	749329	384	31	7875	2037	0	0	0	0	50	0	433174	1	1	
NPDC1	1951939	202	40	15834	5376	0	0	0	0	50	0	420637	1	1	
NPEPL1	1026997	504	15	23352	7392	0	0	0	0	50	0	381556	1	1	
NPEPPS	1229549	176	18	47082	12726	0	0	0	0	5	0	36771	1	1	
NPFF	1469374	191	55	5719	1673	0	0	0	0	50	0	366989	1	1	
NPFFR1	552278	225	44	20685	6741	0	0	0	0	50	2	382893	1	1	
NPFFR2	17885	811	3	26313	7014	0	0	0	0	50	1	429471	1	1	
NPHP1	NaN	NaN	NaN	38052	9828	0	0	0	0	50	2	789376	1	1	
NPHP3	211862	768	24	67942	18137	0	0	0	0	50	0	418516	1	1	
NPHP4	508577	370	13	70637	21700	0	0	0	0	50	0	474838	1	1	
NPHS1	1060028	321	47	61306	19292	0	0	0	0	50	0	379449	1	1	
NPHS2	585744	613	-14	19040	5782	0	0	0	0	50	0	351344	1	1	
NPIP	506128	214	23	17794	4949	0	0	0	0	50	0	339493	1	1	
NPIPL3	499242	417	49	53795	18361	0	0	0	0	50	0	449071	1	1	
NPL	651460	626	22	16723	4424	0	0	0	0	50	0	343560	1	1	
NPLOC4	3705166	205	21	31360	8351	0	0	0	0	50	1	359786	1	1	
NPM1	300840	347	30	15981	3675	0	0	0	0	50	3	395003	1	1	
NPM2	576057	222	41	11431	2786	0	0	0	0	50	0	369418	1	1	
NPM3	817474	335	37	9177	2583	0	0	0	0	50	0	397292	1	1	
NPNT	262174	361	7	31185	8526	0	0	0	0	50	0	359401	1	1	
NPPA	519155	207	43	7504	2282	0	0	0	0	50	2	367808	1	1	
NPPB	519155	207	43	6552	2163	0	0	0	0	50	2	367808	1	1	
NPPC	893534	439	33	5929	2156	0	0	0	0	50	0	440370	1	1	
NPR1	1656449	183	40	52507	16163	0	0	0	0	50	0	418439	1	1	
NPR2	885056	190	51	53459	15778	0	0	0	0	50	2	387541	1	1	
NPR3	477035	487	-15	26817	7854	0	0	0	0	50	0	446642	1	1	
NPRL2	843769	206	51	19642	5201	0	0	0	0	50	0	402556	1	1	
NPRL3	1005761	238	36	28567	8414	0	0	0	0	50	0	326879	1	1	
NPS	470657	703	-30	4634	1288	0	0	0	0	50	0	366807	1	1	
NPSR1	106021	949	0	20762	5677	0	0	0	0	50	0	483028	1	1	
NPTN	310307	416	20	20181	5628	0	0	0	0	50	0	473529	1	1	
NPTX1	755391	222	23	21147	6468	0	0	0	0	50	0	446586	1	1	
NPTX2	545145	560	20	20881	6671	0	0	0	0	50	0	378035	1	1	
NPTXR	1317460	358	54	23688	8211	0	0	0	0	50	0	372680	1	1	
NPVF	254553	444	32	10073	2548	0	0	0	0	50	0	496041	1	1	
NPW	1747301	183	46	7476	3066	0	0	0	0	50	0	376299	1	1	
NPY	148162	478	6	4858	1526	0	0	0	0	50	0	358659	1	1	
NPY1R	74427	1197	-18	19180	5159	0	0	0	0	50	0	429345	1	1	
NPY2R	49938	944	-5	18592	5558	0	0	0	0	50	0	393834	1	1	
NPY5R	74427	1197	-18	22064	6118	0	0	0	0	50	0	429345	1	1	
NQO1	1410481	NaN	39	14070	3675	0	0	0	0	50	0	574826	1	1	
NQO2	430294	268	42	11956	3164	0	0	0	0	50	2	375732	1	1	
NR0B1	73561	NaN	28	22743	7056	0	0	0	0	50	1	526169	1	1	
NR0B2	1025094	188	34	12278	4060	0	0	0	0	50	0	363048	1	1	
NR1D1	1573630	202	28	33796	9002	0	0	0	0	50	0	420728	1	1	
NR1D2	395355	211	2	29757	7371	0	0	0	0	50	2	415317	1	1	
NR1H2	1072052	528	26	22925	6790	0	0	1	0	50	1	369026	1	1	
NR1H3	1274054	198	38	22582	6398	0	0	0	0	50	0	361858	1	1	

NR1H4	191698	787	-6	24486	6069	0	0	0	0	50	0	388430	1	1	
NR1I2	422482	474	24	24024	6552	0	0	0	0	50	0	583065	1	1	
NR1I3	731911	229	39	20139	5544	0	0	0	0	50	0	467551	1	1	
NR2C1	365826	544	27	32347	8351	0	0	0	0	50	1	415338	1	1	
NR2C2	483299	400	43	31325	8659	0	0	0	0	50	2	376362	1	1	
NR2C2AP	940952	232	17	7224	1974	0	0	0	0	50	1	405944	1	1	
NR2E1	334933	436	35	19418	5572	0	0	0	0	50	2	384286	1	1	
NR2E3	1039394	440	25	20419	6125	0	0	0	0	50	0	566580	1	1	
NR2F1	263987	505	-1	20643	6237	0	0	0	0	50	0	378371	1	1	
NR2F2	94682	983	-22	21252	6132	0	0	0	0	50	1	570388	1	1	
NR2F6	865138	212	38	19306	6461	0	0	0	0	50	1	370937	1	1	
NR3C1	138106	270	41	39802	10997	0	0	0	0	50	0	400351	1	1	
NR3C2	73880	914	-15	48832	13895	0	0	0	0	50	0	434763	1	1	
NR4A1	468067	234	41	28819	9422	0	0	0	0	50	1	317296	1	1	
NR4A2	117105	440	4	29820	8421	0	0	0	0	50	1	300426	1	1	
NR4A3	280636	538	8	32655	9765	0	0	0	0	50	1	461482	1	1	
NR5A1	492584	353	24	22736	6874	0	0	0	0	50	0	333613	1	1	
NR5A2	120174	616	-8	27433	7301	0	0	0	0	50	0	389732	1	1	
NR6A1	892645	345	29	24612	6447	0	0	0	0	50	0	407470	1	1	
NRAP	195180	587	1	89950	22589	0	0	0	0	50	0	403494	1	1	
NRARP	1724821	399	43	5530	1715	0	0	0	0	50	0	327124	1	1	
NRAS	600650	472	11	9849	2541	0	0	0	0	50	0	413511	1	1	
NRBF2	219747	715	8	14588	3808	0	0	0	0	50	0	424067	1	1	
NRBP1	1244404	179	39	27713	7483	0	0	0	0	50	0	425159	1	1	
NRBP2	2376841	247	22	26026	7028	0	0	0	0	50	0	573580	1	1	
NRCAM	441225	682	1	67529	17794	0	0	0	0	50	0	358512	1	1	
NRD1	707583	382	16	63476	16114	0	0	0	0	50	0	394618	1	1	
NRF1	459189	253	32	25081	7574	0	0	0	0	50	0	355733	1	1	
NRG1	28018	952	-32	60074	17206	0	0	0	0	50	0	401485	1	1	
NRG2	749094	290	57	42952	13328	0	0	0	0	50	0	308861	1	1	
NRG3	5107	1174	-53	38171	11536	0	0	0	0	50	0	465948	1	1	
NRG4	467195	406	28	6223	1505	0	0	0	0	50	0	430822	1	1	
NRGN	168652	622	14	3927	1218	0	0	0	0	4	0	25018	1	1	
NRIP1	103852	526	8	57316	15701	0	0	0	0	50	0	454132	1	1	
NRIP2	495532	443	28	14035	4193	0	0	0	0	50	0	427791	1	1	
NRIP3	595760	357	33	12243	3507	0	0	0	0	50	1	517293	1	1	
NRK	18768	NaN	2	80283	21798	0	0	0	0	50	1	390859	1	1	
NRL	992350	355	19	11158	4004	0	0	0	0	50	0	418383	1	1	
NRM	2115149	171	41	12488	4375	0	0	0	0	50	0	454741	1	1	
NRN1	49114	693	17	7175	2002	0	0	0	0	50	0	384720	1	1	
NRN1L	879834	158	50	7952	2716	0	0	0	0	50	2	467285	1	1	
NRP1	360090	488	-9	47390	12397	0	0	0	0	50	0	508606	1	1	
NRP2	278279	567	5	52045	14483	0	0	0	0	50	1	453019	1	1	
NRSN1	349698	825	-21	9667	2849	0	0	0	0	50	0	340998	1	1	
NRSN2	879317	185	41	9947	3136	0	0	0	0	50	1	411943	1	1	
NRTN	1217326	294	35	9037	3521	0	0	0	0	50	2	357665	1	1	
NRXN1	8891	1372	-25	81816	23037	0	0	0	0	50	0	329903	1	1	
NRXN2	1897094	411	56	87157	28133	0	0	0	0	50	0	399238	1	1	
NRXN3	21523	905	-32	59311	16247	0	0	0	0	50	0	337547	1	1	
NSA2	418815	581	30	13440	3465	0	0	0	0	50	2	366835	1	1	

NSD1	948717	227	42	134379	37380	0	0	0	0	50	1	497798	1	1	
NSDHL	211215	NaN	5	18830	5320	0	0	0	0	50	0	470813	1	1	
NSF	525541	203	12	38633	9982	0	0	0	0	50	0	490322	1	1	
NSFL1C	397239	386	42	18921	5124	0	0	1	0	4	1	56497	1	1	
NSL1	365714	364	26	16219	3920	0	0	0	0	50	0	443408	1	1	
NSMAF	200152	574	17	50925	12705	0	0	0	0	50	0	312984	1	1	
NSMCE1	227767	448	27	14007	3402	0	0	0	0	50	0	317177	1	1	
NSMCE2	328239	420	38	13055	3073	0	0	0	0	50	1	441371	1	1	
NSMCE4A	249185	396	25	19866	5334	0	0	0	0	50	0	418187	1	1	
NSUN2	253355	585	6	39662	10276	0	0	0	0	50	1	410480	1	1	
NSUN3	85578	1378	-9	17213	4690	0	0	0	0	50	2	474593	1	1	
NSUN4	597667	255	28	18949	5726	0	0	0	0	50	1	444822	1	1	
NSUN5	902769	422	52	23688	6930	0	0	0	0	50	1	466893	1	1	
NSUN6	74263	512	-4	23912	6538	0	0	0	0	50	0	474320	1	1	
NSUN7	238024	202	47	36120	10101	0	0	0	0	50	0	358302	1	1	
NT5C	1511891	168	25	10108	2996	0	0	0	0	50	0	366898	1	1	
NT5C1A	974845	388	36	18305	5362	0	0	0	0	50	0	329504	1	1	
NT5C1B	39949	1075	-7	30541	8708	0	0	0	0	50	1	378014	1	1	
NT5C2	562038	150	47	29505	7329	0	0	0	0	50	0	350875	1	1	
NT5C3	376609	359	13	18207	4620	0	0	0	0	50	0	478681	1	1	
NT5C3L	1760409	175	35	15645	4032	0	0	0	0	50	1	412223	1	1	
NT5DC1	260580	640	19	23758	5936	0	0	0	0	50	0	363055	1	1	
NT5DC2	1114087	192	48	30387	8526	0	0	0	0	50	0	420231	1	1	
NT5DC3	1181243	358	15	28504	7217	0	0	0	0	50	0	441161	1	1	
NT5E	393239	321	13	28763	8134	0	0	0	0	50	0	485149	1	1	
NT5M	900505	220	15	11375	3388	0	0	0	0	50	1	438620	1	1	
NTAN1	564013	463	22	16044	4347	0	0	0	0	50	0	361109	1	1	
NTF3	28523	735	17	13307	3892	0	0	0	0	50	0	402626	1	1	
NTF4	2070141	200	35	9786	3591	0	0	0	0	50	0	356741	1	1	
NTHL1	1747301	183	46	15477	4704	0	0	0	0	50	0	376299	1	1	
NTM	9703	1115	-5	19502	5593	0	0	0	0	50	1	466214	1	1	
NTN1	128482	632	-7	30135	8484	0	0	0	0	50	0	522298	1	1	
NTN3	2085452	321	49	27559	9506	0	0	0	0	50	0	413910	1	1	
NTN4	461515	237	7	32039	8344	0	0	0	0	50	1	497287	1	1	
NTN5	1597109	242	31	23576	7798	0	0	0	0	50	0	408625	1	1	
NTNG1	78332	877	-17	29435	7903	0	0	0	0	50	0	428666	1	1	
NTNG2	361444	509	37	26411	7546	0	0	0	0	50	0	353822	1	1	
NTRK1	1505782	208	45	43113	12852	0	0	0	0	50	0	472969	1	1	
NTRK2	17424	692	1	44128	11648	0	0	0	0	50	1	412153	1	1	
NTRK3	124519	730	-57	47187	12705	0	0	0	0	50	1	465024	1	1	
NTS	22180	677	-32	8932	2093	0	0	0	0	50	1	461930	1	1	
NTSR1	1286411	208	27	20139	6510	0	0	0	0	50	0	462098	1	1	
NTSR2	219483	336	21	19467	6720	0	0	0	0	50	0	401520	1	1	
NUAK1	143018	473	7	32802	9408	0	0	0	0	50	0	354137	1	1	
NUAK2	664542	178	30	30716	9415	0	0	0	0	50	2	323092	1	1	
NUB1	604407	282	42	31157	7945	0	0	0	0	50	0	383677	1	1	
NUBP1	257980	356	37	16737	4368	0	0	0	0	50	0	352842	1	1	
NUBP2	1604603	288	36	13468	4214	0	0	0	0	50	0	407358	1	1	
NUBPL	335822	583	-7	16401	4641	0	0	0	0	50	0	306936	1	1	
NUCB1	1927185	211	43	23646	6468	0	0	0	0	50	1	404320	1	1	

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NUCB2	522189	387	19	22757	4753	0	0	0	0	50	0	433776	1	1	
NUCKS1	732566	281	35	12901	2975	0	0	0	0	50	0	466032	1	1	
NUDC	1025094	188	34	17276	4312	0	0	0	0	50	0	363048	1	1	
NUDCD1	134762	731	17	30590	7693	0	0	0	0	50	0	400603	1	1	
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NUDT1	814176	430	38	9401	2401	0	0	0	0	50	0	345289	1	1	
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NUDT6	126682	414	19	15729	4620	0	0	0	0	50	0	415128	1	1	
NUDT7	79181	1194	-24	11942	3409	0	0	0	0	50	0	419734	1	1	
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NUDT9	530607	537	23	18018	4683	0	0	0	0	50	0	347074	1	1	
NUF2	130027	852	-9	24738	5649	0	0	0	0	50	1	552804	1	1	
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NUMA1	747702	311	59	104776	30632	0	0	0	0	1	0	33432	1	1	
NUMB	567659	180	41	32403	9513	0	0	0	0	50	1	406077	1	1	
NUMBL	918439	226	34	29589	9597	0	0	0	0	50	2	392658	1	1	
NUP107	486884	294	31	48419	12187	0	0	0	0	50	0	353871	1	1	
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NUP155	339666	151	25	71568	19068	0	0	0	0	50	0	529816	1	1	
NUP160	931839	158	14	73633	19880	0	0	0	0	50	0	450660	1	1	
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NUP210	359039	285	48	93527	28735	0	0	0	0	44	0	348824	1	1	
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NUP35	349831	524	11	16625	4669	0	0	0	0	50	0	372400	1	1	
NUP37	232146	467	9	16961	4354	0	0	0	0	50	0	419839	1	1	
NUP43	425807	234	39	19425	5208	0	0	0	0	50	0	345016	1	1	
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NUP54	525212	403	38	25851	7077	0	0	0	0	50	0	409668	1	1	
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NUP62CL	227679	NaN	32	9681	2562	0	0	0	0	50	0	406693	1	1	
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NUP88	1179795	474	24	37912	10220	0	0	0	0	50	1	404677	1	1	
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NUP98	449630	310	25	91399	26222	0	0	0	0	50	0	295407	1	1	
NUPL1	331109	381	37	29939	9121	0	0	0	0	50	0	416017	1	1	
NUPL2	509506	218	23	21196	6020	0	0	0	0	50	0	348509	1	1	
NUPR1	1133167	269	63	4984	1547	0	0	0	0	50	0	411068	1	1	
NUS1	190019	639	3	14686	4172	0	0	0	0	50	1	409437	1	1	
NUSAP1	897414	237	24	22680	6006	0	0	0	0	50	1	304710	1	1	
NUTF2	959655	143	49	6895	1505	0	0	0	0	43	1	358134	1	1	
NVL	626336	139	16	43841	12040	0	0	0	0	50	0	375571	1	1	
NWD1	947233	293	35	69867	21483	0	0	0	0	50	1	495887	1	1	
NXF1	2405109	248	44	32963	8890	0	0	0	0	50	0	388598	1	1	
NXF2	NaN	NaN	NaN	66500	16030	0	0	0	0	50	2	795578	1	1	
NXF2B	95507	NaN	6	66500	16030	0	0	0	0	50	0	384398	1	1	
NXF3	456169	NaN	16	28413	6741	0	0	0	0	50	0	369488	1	1	
NXF5	272029	NaN	23	19446	4725	0	0	0	0	50	0	479031	1	1	
NXN	941400	376	15	21553	6545	0	0	0	0	50	1	325024	1	1	
NXNL1	899127	211	26	10276	3269	0	0	0	0	50	0	356048	1	1	
NXNL2	130577	438	1	9352	2954	0	0	0	0	50	1	374206	1	1	
NXPH1	85530	915	-11	13587	3633	0	0	0	0	50	1	614950	1	1	
NXPH2	69057	672	-4	13083	3696	0	0	0	0	50	0	423311	1	1	
NXPH3	1007676	348	26	12355	3668	0	0	0	0	50	0	368648	1	1	
NXPH4	2162032	238	58	14637	4914	0	0	0	0	50	0	473627	1	1	
NXT1	188823	688	-22	7056	1911	0	0	0	0	50	1	538545	1	1	
NXT2	133688	NaN	30	10241	2611	0	0	0	0	50	0	495922	1	1	
NYNRIN	897133	265	40	91280	29029	0	0	0	0	50	0	507787	1	1	
NYX	590228	NaN	54	22134	8316	0	0	0	0	50	1	372666	1	1	
OAF	323731	198	31	13391	4123	0	0	0	0	50	0	445550	1	1	
OAS1	621550	527	22	23618	6160	0	0	0	0	50	0	386946	1	1	
OAS2	605960	433	54	37835	10087	0	0	0	0	50	1	481768	1	1	
OAS3	613755	433	38	53886	15960	0	0	0	0	50	0	545272	1	1	
OASL	1225663	380	40	26173	6734	0	0	0	0	50	1	351155	1	1	
OAT	280862	543	16	22190	6286	0	0	0	0	50	1	484316	1	1	
OAZ1	1603571	240	27	11466	3360	0	0	0	0	50	0	431256	1	1	
OAZ2	847146	269	42	9625	2702	0	0	0	0	50	0	516047	1	1	
OAZ3	1062482	255	29	14063	4060	0	0	0	0	50	0	440902	1	1	
OBFC1	529915	300	29	19194	4809	0	0	0	0	50	0	367983	1	1	
OBFC2A	160466	461	20	10584	2751	0	0	0	0	50	0	358967	1	1	
OBFC2B	2878071	171	46	10745	3115	0	0	0	0	50	1	480760	1	1	
OBP2A	327501	539	37	8967	2331	0	0	0	0	50	0	371119	1	1	
OBP2B	1875784	397	51	9009	2289	0	0	0	0	50	0	361032	1	1	
OBSL1	548994	487	35	93366	30933	0	0	0	0	50	0	489825	1	1	
OC90	100916	999	6	24493	6713	0	0	0	0	50	2	464576	1	1	
OCA2	154909	1141	-61	42098	12691	0	0	0	0	50	0	306544	1	1	
OCEL1	865138	212	38	13160	3997	0	0	1	0	26	1	176974	1	1	
OCIAD1	257328	372	63	13748	3220	0	0	0	0	50	1	410865	1	1	
OCIAD2	256817	372	61	8407	1904	0	0	0	0	50	1	412132	1	1	
OCLM	277882	399	-14	2275	560	0	0	0	0	12	0	62209	1	1	

OCLN	502559	312	32	26600	7021	0	0	0	0	50	0	333767	1	1	
OCM	2208864	358	32	5866	1358	0	0	0	0	50	0	411369	1	1	
OCM2	451365	522	25	5831	1351	0	0	0	0	17	0	126945	1	1	
OCRL	330789	NaN	22	47047	11711	0	0	0	0	50	1	485506	1	1	
ODAM	181352	975	12	14602	3920	0	0	0	0	50	0	353479	1	1	
ODC1	732059	270	47	23730	6216	0	0	0	0	50	1	439040	1	1	
ODF1	525392	236	55	12593	3304	0	0	0	0	50	0	439453	1	1	
ODF2	1916608	160	35	44653	11753	0	0	0	0	50	0	449050	1	1	
ODF2L	218105	874	-18	37030	8267	0	0	0	0	50	0	425726	1	1	
ODF3	1233553	437	17	12733	3836	0	0	0	0	50	0	363692	1	1	
ODF3B	1075525	207	42	12453	4095	0	0	0	0	50	1	421141	1	1	
ODF3L1	569836	231	44	13657	3920	0	0	0	0	50	0	393414	1	1	
ODF3L2	1370962	423	-24	13720	4802	0	0	0	0	50	0	353381	1	1	
ODF4	772200	257	20	12894	3528	0	0	0	0	50	0	340179	1	1	
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ODZ2	71443	880	-10	137515	39095	0	0	0	0	50	1	655907	1	1	
ODZ3	144640	636	-20	134400	37926	0	0	0	0	33	0	306404	1	1	
ODZ4	78290	871	0	137438	39592	0	0	0	0	2	0	46837	1	1	
OFD1	135235	NaN	48	52710	12957	0	0	0	0	50	0	392154	1	1	
OGDH	1420793	179	56	54740	15211	0	0	0	0	50	0	345380	1	1	
OGDHL	251871	545	15	51268	14252	0	0	0	0	50	1	486290	1	1	
OGFOD1	523951	285	13	28490	6769	0	0	0	0	50	1	496055	1	1	
OGFOD2	1093113	196	47	14182	4571	0	0	0	0	50	0	454111	1	1	
OGFR	1044503	208	48	33068	10192	0	0	0	0	50	0	396928	1	1	
OGFRL1	132568	459	-14	23058	5922	0	0	0	0	50	0	395535	1	1	
OGG1	954590	264	39	29400	7749	0	0	0	0	50	0	517916	1	1	
OGN	537639	574	47	15260	4081	0	0	0	0	50	1	350056	1	1	
OGT	749568	NaN	26	53368	14357	0	0	0	0	50	0	642614	1	1	
OIP5	897414	237	24	11382	3486	0	0	0	0	50	1	304710	1	1	
OIT3	635147	291	38	27356	7714	0	0	0	0	50	0	378266	1	1	
OLA1	389793	418	26	20755	5054	0	0	0	0	50	0	439173	1	1	
OLAH	255576	571	28	16450	4235	0	0	0	0	50	1	435911	1	1	
OLFM1	199862	446	28	23849	6223	0	0	0	0	50	0	389242	1	1	
OLFM2	1143339	469	-13	22442	6685	0	0	0	0	50	1	346955	1	1	
OLFM3	66875	991	-15	23268	6069	0	0	0	0	50	0	400281	1	1	
OLFM4	207557	842	2	25361	7168	0	0	0	0	50	0	408506	1	1	
OLFML1	108110	869	11	19971	5586	0	0	0	0	50	0	422149	1	1	
OLFML2A	1076828	207	26	32123	9604	0	0	0	0	50	0	386470	1	1	
OLFML2B	407279	388	15	36862	11039	0	0	0	0	50	0	347410	1	1	
OLFML3	365516	596	7	19698	6111	0	0	0	0	50	0	418740	1	1	
OLIG1	801943	554	66	12285	4872	0	0	0	0	50	1	398146	1	1	
OLIG2	824830	554	61	15127	5369	0	0	0	0	50	1	394268	1	1	
OLIG3	210173	486	29	13020	4179	0	0	0	0	50	0	396991	1	1	
OLR1	397577	398	18	14546	3136	0	0	0	0	50	1	421092	1	1	
OMA1	301227	564	-3	26782	6965	0	0	0	0	50	0	301455	1	1	
OMD	537639	574	47	21511	5243	0	0	0	0	50	1	350056	1	1	
OMG	473619	396	27	21637	6230	0	0	0	0	50	0	410690	1	1	
OMP	437413	450	40	7910	2401	0	0	0	0	50	0	413203	1	1	
ONECUT1	294072	514	18	22638	6804	0	0	0	0	50	1	416234	1	1	
ONECUT2	300344	480	15	24220	7721	0	0	0	0	50	1	357518	1	1	

ONECUT3	NaN	NaN	NaN	22890	8358	0	0	0	0	50	2	787906	1	1	
OOEP	732413	446	18	7420	2198	0	0	0	0	50	1	397712	1	1	
OPA1	148817	456	12	53508	13020	0	0	0	0	50	0	444066	1	1	
OPA3	1107927	194	44	15064	4865	0	0	0	0	50	0	361312	1	1	
OPALIN	799460	684	38	7602	2079	0	0	0	0	50	1	414498	1	1	
OPCML	9310	1074	-19	18368	5299	0	0	0	0	50	1	387457	1	1	
OPHN1	186481	NaN	-13	41944	10661	0	0	0	0	50	0	340928	1	1	
OPLAH	2720766	211	27	62853	20622	0	0	0	0	50	0	518427	1	1	
OPN1LW	2438903	NaN	17	18263	5194	0	0	0	0	50	0	598780	1	1	
OPN1MW	NaN	NaN	NaN	36554	10360	0	0	0	0	50	2	789908	1	1	
OPN1MW2	2438903	NaN	17	36554	10360	0	0	0	0	50	0	598780	1	1	
OPN1SW	830283	310	35	17416	4949	0	0	0	0	50	0	451465	1	1	
OPN3	172337	341	-13	19495	6146	0	0	0	0	50	0	418754	1	1	
OPN4	352918	192	27	24262	7448	0	0	0	0	50	0	489636	1	1	
OPN5	173532	829	-4	17801	5110	0	0	0	0	50	1	369936	1	1	
OPRD1	765350	208	27	17794	5873	0	0	0	0	50	0	417606	1	1	
OPRK1	147912	861	-14	18767	5488	0	0	0	0	50	0	487130	1	1	
OPRL1	1032302	312	51	17675	5950	0	0	0	0	50	0	409850	1	1	
OPRM1	44509	878	0	36155	10003	0	0	0	0	50	0	429471	1	1	
OPTC	529605	314	28	16492	5075	0	0	0	0	50	0	400750	1	1	
OPTN	244367	372	16	30142	7448	0	0	0	0	50	1	368137	1	1	
OR10A2	427462	681	8	14588	4564	0	0	0	0	50	0	358414	1	1	
OR10A3	105341	679	6	15218	4606	0	0	0	0	50	1	489573	1	1	
OR10A4	427462	681	8	15218	4774	0	0	0	0	50	0	358414	1	1	
OR10A5	427462	681	8	15379	4655	0	0	0	0	50	0	358414	1	1	
OR10A6	105341	679	6	15253	4571	0	0	0	0	50	1	489573	1	1	
OR10A7	411183	816	-1	15372	4578	0	0	0	0	50	0	383488	1	1	
OR10AD1	511392	352	32	15470	4564	0	0	0	0	50	0	368277	1	1	
OR10AG1	4262	1044	-40	14770	4235	0	0	0	0	50	0	468405	1	1	
OR10C1	404210	854	21	14581	5117	0	0	0	0	50	0	326725	1	1	
OR10G2	658946	624	20	14686	4886	0	0	0	0	50	0	465381	1	1	
OR10G3	707623	533	22	14833	4928	0	0	0	0	50	0	467250	1	1	
OR10G4	107524	830	-5	14861	4753	0	0	0	0	50	1	386491	1	1	
OR10G7	158396	830	-10	14784	4872	0	0	0	0	50	1	468930	1	1	
OR10G8	158396	830	-10	14819	4837	0	0	0	0	50	1	468930	1	1	
OR10H1	808269	590	18	15337	4844	0	0	0	0	50	0	478079	1	1	
OR10H2	878287	605	13	15085	4907	0	0	0	0	50	1	414498	1	1	
OR10H3	878287	605	13	15372	4557	0	0	0	0	50	1	414498	1	1	
OR10H4	843515	575	12	15379	4571	0	0	0	0	50	1	426342	1	1	
OR10H5	808269	590	18	15071	4816	0	0	0	0	50	0	478079	1	1	
OR10J1	347588	699	-5	15533	4774	0	0	0	0	50	0	348418	1	1	
OR10J3	285980	737	-6	15869	4879	0	0	0	0	50	0	486934	1	1	
OR10J5	492825	646	-4	14959	4529	0	0	0	0	50	1	421624	1	1	
OR10K1	177013	929	7	14889	4851	0	0	0	0	50	0	400729	1	1	
OR10K2	135429	902	5	14952	4725	0	0	0	0	50	1	324499	1	1	
OR10P1	1678592	523	-8	14644	5117	0	0	0	0	50	1	464905	1	1	
OR10Q1	637499	828	-25	15295	4949	0	0	0	0	50	1	327103	1	1	
OR10R2	177013	929	7	16135	5012	0	0	0	0	50	0	400729	1	1	
OR10S1	107524	830	-5	15834	5082	0	0	0	0	50	1	386491	1	1	
OR10T2	135429	902	5	15029	4774	0	0	0	0	50	1	324499	1	1	

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OR10V1	431271	409	27	14931	4599	0	0	0	0	50	0	489678	1	1	
OR10W1	604763	835	-19	14546	4732	0	0	0	0	50	0	322553	1	1	
OR10X1	179404	940	1	15631	4781	0	0	0	0	50	1	451822	1	1	
OR10Z1	179404	940	1	14994	4767	0	0	0	0	50	1	451822	1	1	
OR11A1	329776	872	7	15015	4935	0	0	0	0	50	0	431522	1	1	
OR11G2	371813	563	-29	16639	5117	0	0	0	0	50	1	399245	1	1	
OR11H1	69794	916	-70	15897	4662	0	0	0	0	50	0	368242	1	1	
OR11H12	141957	747	-11	15904	4655	0	0	0	0	50	0	452991	1	1	
OR11H4	371637	528	-29	15631	4823	0	0	0	0	50	1	397362	1	1	
OR11H6	371813	563	-29	15869	4963	0	0	0	0	50	1	399245	1	1	
OR11L1	87551	993	-35	15512	4837	0	0	0	0	50	0	476616	1	1	
OR12D2	329776	872	7	14966	4522	0	0	0	0	50	0	431522	1	1	
OR12D3	329776	872	7	15470	4543	0	0	0	0	50	0	431522	1	1	
OR13A1	126925	808	26	15988	4823	0	0	0	0	50	0	395465	1	1	
OR13C2	147494	920	-31	15610	4466	0	0	0	0	50	0	393596	1	1	
OR13C3	146816	930	-33	16891	5033	0	0	0	0	50	0	353066	1	1	
OR13C4	146816	930	-33	15393	4662	0	0	0	0	50	0	353066	1	1	
OR13C5	147494	920	-31	15519	4536	0	0	0	0	50	0	393596	1	1	
OR13C8	147494	920	-31	15498	4704	0	0	0	0	50	0	393596	1	1	
OR13C9	147494	920	-31	15631	4445	0	0	0	0	50	0	393596	1	1	
OR13D1	161420	821	-14	16856	4984	0	0	0	0	50	0	467026	1	1	
OR13F1	146816	930	-33	15421	4697	0	0	0	0	50	0	353066	1	1	
OR13G1	191710	995	-32	14987	4417	0	0	0	0	50	0	497035	1	1	
OR13H1	81234	NaN	4	14868	4578	0	0	0	0	50	1	614852	1	1	
OR13J1	847663	227	54	14728	4970	0	0	0	0	50	0	406126	1	1	
OR14A16	164924	995	-27	15029	4501	0	0	0	0	50	0	572047	1	1	
OR14C36	104321	936	-39	15057	4620	0	0	0	0	50	0	358631	1	1	
OR14I1	141426	710	-10	14966	4690	0	0	0	0	50	0	590002	1	1	
OR14J1	176114	872	4	15407	4858	0	0	0	0	50	1	382165	1	1	
OR1A1	506514	628	0	14945	4543	0	0	0	0	50	1	451304	1	1	
OR1A2	506514	628	0	15127	4403	0	0	0	0	50	1	451304	1	1	
OR1B1	407749	646	9	15057	5019	0	0	0	0	50	1	400435	1	1	
OR1C1	164924	995	-27	15162	4641	0	0	0	0	50	0	572047	1	1	
OR1D2	457580	465	8	15050	4648	0	0	0	0	50	0	403788	1	1	
OR1E1	365088	515	14	15225	4620	0	0	0	0	50	1	463316	1	1	
OR1E2	365088	515	14	15652	4739	0	0	0	0	50	1	463316	1	1	
OR1F1	1493009	253	42	15043	4655	0	0	0	0	50	0	527779	1	1	
OR1G1	445889	579	-8	15190	4592	0	0	0	0	50	0	293475	1	1	
OR1I1	990597	524	16	17094	5292	0	0	0	0	50	1	381976	1	1	
OR1J1	373314	646	3	15540	4788	0	0	0	0	50	0	439453	1	1	
OR1J2	373314	646	3	15113	4648	0	0	0	0	50	0	439453	1	1	
OR1J4	373314	646	3	14994	4767	0	0	0	0	50	0	439453	1	1	
OR1K1	433740	487	10	14840	5110	0	0	0	0	50	0	379841	1	1	
OR1L1	409923	553	12	15071	4480	0	0	0	0	50	0	332283	1	1	
OR1L3	409923	553	12	15736	4718	0	0	0	0	50	0	332283	1	1	
OR1L4	409923	553	12	15113	4543	0	0	0	0	50	0	332283	1	1	
OR1L6	433740	487	10	15064	4550	0	0	0	0	50	0	379841	1	1	
OR1L8	407749	646	9	14959	4571	0	0	0	0	50	1	400435	1	1	
OR1M1	311030	471	-63	15015	4746	0	0	0	0	20	0	110390	1	1	
OR1N1	373314	646	3	15057	4599	0	0	0	0	50	0	439453	1	1	

OR1N2	407749	646	9	15862	4970	0	0	0	0	50	1	400435	1	1	
OR1Q1	407749	646	9	15337	4466	0	0	0	0	50	1	400435	1	1	
OR1S1	637499	828	-25	15827	4690	0	0	0	0	50	1	327103	1	1	
OR1S2	637499	828	-25	15827	4690	0	0	0	0	50	1	327103	1	1	
OR2A1	NaN	NaN	NaN	14756	4795	0	0	0	0	50	2	784343	1	1	
OR2A12	222080	812	-11	15085	4487	0	0	0	0	50	0	394590	1	1	
OR2A14	221024	812	-11	14945	4627	0	0	0	0	50	0	394590	1	1	
OR2A2	221024	812	-11	15351	4704	0	0	0	0	50	0	394590	1	1	
OR2A25	222080	812	-11	14952	4620	0	0	0	0	50	0	394590	1	1	
OR2A4	129668	852	9	14833	4739	0	0	0	0	50	0	413609	1	1	
OR2A42	199649	767	-2	14756	4795	0	0	0	0	50	0	487018	1	1	
OR2A5	222080	812	-11	14987	4648	0	0	0	0	50	0	394590	1	1	
OR2A7	209930	767	-5	14854	4718	0	0	0	0	50	0	422163	1	1	
OR2AE1	1535089	438	36	15680	4732	0	0	0	0	50	0	427399	1	1	
OR2AG1	427462	681	8	15190	4865	0	0	0	0	50	0	358414	1	1	
OR2AG2	424776	548	8	15057	4914	0	0	0	0	50	0	389123	1	1	
OR2AK2	NaN	NaN	NaN	16121	5026	0	0	0	0	50	2	784574	1	1	
OR2AT4	752176	556	48	15281	4921	0	0	0	0	50	1	460103	1	1	
OR2B11	272980	927	-14	15113	4900	0	0	0	0	50	0	337659	1	1	
OR2B2	228884	634	40	17556	5082	0	0	0	0	50	0	291095	1	1	
OR2B3	155147	738	1	15449	4417	0	0	0	0	50	1	487424	1	1	
OR2B6	225015	562	24	14980	4760	0	0	0	0	50	0	424011	1	1	
OR2C1	1361831	303	29	14966	4837	0	0	0	0	50	1	423528	1	1	
OR2C3	272980	927	-14	15463	4844	0	0	0	0	50	0	337659	1	1	
OR2D2	403341	827	6	14637	4809	0	0	0	0	50	0	428057	1	1	
OR2D3	403341	827	6	16009	4823	0	0	0	0	50	0	428057	1	1	
OR2F1	368507	732	-11	15309	4809	0	0	0	0	50	0	350378	1	1	
OR2F2	368507	732	-11	15127	4886	0	0	0	0	50	0	350378	1	1	
OR2G2	204354	957	-25	15218	4795	0	0	0	0	50	0	507682	1	1	
OR2G3	204354	957	-25	14889	4620	0	0	0	0	50	0	507682	1	1	
OR2G6	112460	903	-20	15225	4746	0	0	0	0	50	0	434427	1	1	
OR2H1	404210	854	21	15050	4921	0	0	0	0	50	0	326725	1	1	
OR2H2	403531	798	18	14889	4914	0	0	0	0	50	1	340326	1	1	
OR2J2	162844	808	12	15064	4676	0	0	0	0	50	0	368928	1	1	
OR2J3	155147	738	1	14945	4690	0	0	0	0	50	1	487424	1	1	
OR2K2	348469	501	19	15253	4697	0	0	0	0	50	0	484715	1	1	
OR2L13	24438	1015	-27	15323	4480	0	0	0	0	50	0	445445	1	1	
OR2L2	20939	1015	-27	15274	4529	0	0	0	0	50	0	445445	1	1	
OR2L3	20939	1015	-27	15141	4578	0	0	0	0	50	0	445445	1	1	
OR2L8	27938	1015	-28	15176	4543	0	0	0	0	50	0	488838	1	1	
OR2M2	19998	935	-32	16961	4921	0	0	0	0	50	0	370888	1	1	
OR2M3	19998	935	-32	15120	4578	0	0	0	0	50	0	370888	1	1	
OR2M4	18846	936	-35	15071	4564	0	0	0	0	50	0	393456	1	1	
OR2M5	19998	935	-32	15169	4529	0	0	0	0	50	0	370888	1	1	
OR2M7	18846	936	-35	15225	4473	0	0	0	0	50	0	393456	1	1	
OR2S2	853975	298	55	15400	4844	0	0	0	0	50	0	337911	1	1	
OR2T1	104321	936	-39	17955	5334	0	0	0	0	50	0	358631	1	1	
OR2T10	116628	850	-20	15295	4403	0	0	0	0	50	0	384160	1	1	
OR2T11	116628	850	-20	15225	4746	0	0	0	0	50	0	384160	1	1	
OR2T12	18846	936	-35	15456	4746	0	0	0	0	50	0	393456	1	1	

OR2T2	112460	903	-20	15561	4914	0	0	0	0	50	0	434427	1	1	
OR2T27	141426	710	-10	15351	4662	0	0	0	0	50	0	590002	1	1	
OR2T29	116628	850	-20	15050	4480	0	0	0	0	50	0	384160	1	1	
OR2T3	112460	903	-20	15456	4641	0	0	0	0	50	0	434427	1	1	
OR2T33	18846	936	-35	15477	4725	0	0	0	0	50	0	393456	1	1	
OR2T34	116628	850	-20	15435	4662	0	0	0	0	50	0	384160	1	1	
OR2T35	141426	710	-10	15512	4900	0	0	0	0	50	0	590002	1	1	
OR2T4	104321	936	-39	17087	4900	0	0	0	0	50	0	358631	1	1	
OR2T5	112460	903	-20	15337	4571	0	0	0	0	50	0	434427	1	1	
OR2T6	104321	936	-39	15127	4340	0	0	0	0	50	0	358631	1	1	
OR2T8	87551	993	-35	15008	4669	0	0	0	0	50	0	476616	1	1	
OR2V2	978482	478	29	15372	4515	0	0	0	0	50	0	423731	1	1	
OR2W1	155147	738	1	15715	4508	0	0	0	0	50	1	487424	1	1	
OR2W3	87551	993	-35	14882	4921	0	0	0	0	50	0	476616	1	1	
OR2W5	272980	927	-14	15386	4879	0	0	0	0	50	0	337659	1	1	
OR2Y1	831824	515	18	14840	4816	0	0	0	0	50	1	374094	1	1	
OR2Z1	536422	487	-47	14924	4900	0	0	0	0	48	0	358939	1	1	
OR3A1	506514	628	0	14973	4935	0	0	0	0	50	1	451304	1	1	
OR3A2	506514	628	0	15407	4963	0	0	0	0	50	1	451304	1	1	
OR3A3	365088	515	14	15281	4984	0	0	0	0	50	1	463316	1	1	
OR4A15	1067	1102	-42	16821	4893	0	0	0	0	50	0	391804	1	1	
OR4A16	1067	1102	-42	16023	4662	0	0	0	0	50	0	391804	1	1	
OR4A47	99957	835	-45	15106	4382	0	0	0	0	50	0	449344	1	1	
OR4A5	68	1280	-38	15456	4536	0	0	0	0	50	0	534996	1	1	
OR4B1	400891	509	-27	15057	4452	0	0	0	0	50	0	385833	1	1	
OR4C11	1141	1100	-37	15295	4256	0	0	0	0	50	0	387408	1	1	
OR4C12	11630	1171	-38	15141	4473	0	0	0	0	50	0	413854	1	1	
OR4C13	11675	1171	-40	15218	4396	0	0	0	0	50	0	413350	1	1	
OR4C15	1141	1100	-37	18165	5166	0	0	0	0	50	0	387408	1	1	
OR4C16	1141	1100	-37	15253	4298	0	0	0	0	50	0	387408	1	1	
OR4C3	278638	642	-40	15855	4893	0	0	0	0	50	1	429765	1	1	
OR4C45	NaN	NaN	NaN	15113	4228	0	0	0	0	50	2	783776	1	1	
OR4C46	68	1239	-43	15155	4333	0	0	0	0	50	0	503622	1	1	
OR4C6	1295	1091	-20	15050	4438	0	0	0	0	50	1	376796	1	1	
OR4D1	851306	401	14	14917	4634	0	0	0	0	50	0	356300	1	1	
OR4D10	430021	507	-1	14903	4753	0	0	0	0	50	0	417662	1	1	
OR4D11	430021	507	-1	14889	4767	0	0	0	0	50	0	417662	1	1	
OR4D2	851306	401	14	14686	4697	0	0	0	0	50	0	356300	1	1	
OR4D5	107524	830	-5	15232	4865	0	0	0	0	50	1	386491	1	1	
OR4D6	430021	507	-1	15155	4669	0	0	0	0	50	0	417662	1	1	
OR4D9	430021	507	-1	15085	4718	0	0	0	0	50	0	417662	1	1	
OR4E2	658946	624	20	15148	4592	0	0	0	0	50	0	465381	1	1	
OR4F15	215780	643	-16	15225	4452	0	0	0	0	50	0	439495	1	1	
OR4F16	NaN	NaN	NaN	33082	10136	0	0	0	0	50	2	789684	1	1	
OR4F17	250228	708	5	14854	4424	0	0	0	0	50	0	425446	1	1	
OR4F21	89938	794	10	15078	4599	0	0	0	0	50	0	448112	1	1	
OR4F29	NaN	NaN	NaN	33082	10136	0	0	0	0	50	2	789684	1	1	
OR4F3	NaN	NaN	NaN	33082	10136	0	0	0	0	50	2	789684	1	1	
OR4F4	185501	643	-9	14861	4417	0	0	0	0	50	0	534996	1	1	
OR4F5	369933	594	NaN	14868	4410	0	0	0	0	50	0	478688	1	1	

OR4F6	215780	643	-16	15176	4501	0	0	0	0	50	0	439495	1	1	
OR4K1	420010	827	-51	15400	4340	0	0	0	0	50	1	327859	1	1	
OR4K13	383274	768	-37	14721	4452	0	0	0	0	50	1	368214	1	1	
OR4K14	420010	827	-51	15085	4487	0	0	0	0	50	1	327859	1	1	
OR4K15	420010	827	-51	16667	5278	0	0	0	0	50	1	327859	1	1	
OR4K17	383274	768	-37	16723	4949	0	0	0	0	50	1	368214	1	1	
OR4K2	431654	854	-49	15386	4459	0	0	0	0	50	1	356055	1	1	
OR4K5	431654	854	-49	15603	4767	0	0	0	0	50	1	356055	1	1	
OR4L1	383274	768	-37	15267	4452	0	0	0	0	50	1	368214	1	1	
OR4M1	275024	858	-57	15162	4599	0	0	0	0	50	1	358351	1	1	
OR4M2	156689	855	-31	15316	4550	0	0	0	0	50	1	408275	1	1	
OR4N2	275024	858	-57	14833	4550	0	0	0	0	50	1	358351	1	1	
OR4N4	156689	855	-31	15323	4627	0	0	0	0	50	1	408275	1	1	
OR4N5	371813	563	-29	14938	4508	0	0	0	0	50	1	399245	1	1	
OR4P4	1295	1091	-20	15498	4200	0	0	0	0	50	1	376796	1	1	
OR4Q3	275024	858	-57	15225	4515	0	0	0	0	50	1	358351	1	1	
OR4S1	278638	642	-40	15022	4487	0	0	0	0	50	1	429765	1	1	
OR4S2	1295	1091	-20	15302	4354	0	0	0	0	50	1	376796	1	1	
OR4X1	400891	509	-27	14833	4424	0	0	0	0	50	0	385833	1	1	
OR4X2	400891	509	-27	14714	4438	0	0	0	0	50	0	385833	1	1	
OR51A2	65798	1006	-15	15162	4578	0	0	0	0	50	0	414981	1	1	
OR51A4	65798	1006	-15	15120	4620	0	0	0	0	50	0	414981	1	1	
OR51A7	65798	1006	-15	15225	4452	0	0	0	0	50	0	414981	1	1	
OR51B2	100115	1056	1	15274	4529	0	0	0	0	50	2	349426	1	1	
OR51B4	100115	1056	1	15043	4529	0	0	0	0	50	2	349426	1	1	
OR51B5	100115	1056	1	14994	4725	0	0	0	0	50	2	349426	1	1	
OR51B6	100115	1056	1	15162	4536	0	0	0	0	50	2	349426	1	1	
OR51D1	212267	935	-3	15428	5131	0	0	0	0	50	0	419657	1	1	
OR51E1	212267	935	-3	15225	4956	0	0	0	0	50	0	419657	1	1	
OR51E2	207755	972	-1	15365	4942	0	0	0	0	50	0	416178	1	1	
OR51F1	207755	972	-1	14994	4704	0	0	0	0	50	0	416178	1	1	
OR51F2	66543	987	-3	16527	5040	0	0	0	0	50	0	345590	1	1	
OR51G1	65798	1006	-15	15386	4858	0	0	0	0	50	0	414981	1	1	
OR51G2	65798	1006	-15	15043	4802	0	0	0	0	50	0	414981	1	1	
OR51I1	99042	1030	1	15323	4606	0	0	0	0	50	2	389704	1	1	
OR51I2	99042	1030	1	15071	4732	0	0	0	0	50	2	389704	1	1	
OR51L1	97256	1024	-11	15085	4781	0	0	0	0	50	1	497959	1	1	
OR51M1	99042	1030	1	15785	4900	0	0	0	0	50	2	389704	1	1	
OR51Q1	99042	1030	1	15323	4795	0	0	0	0	50	2	389704	1	1	
OR51S1	66543	987	-3	15218	5173	0	0	0	0	50	0	345590	1	1	
OR51T1	65798	1006	-15	17094	5250	0	0	0	0	50	0	414981	1	1	
OR51V1	109545	1056	-1	15624	4641	0	0	0	0	50	0	353857	1	1	
OR52A1	109516	1024	-15	15232	4445	0	0	0	0	50	0	367612	1	1	
OR52A4	109516	1024	-15	14805	4494	0	0	0	0	50	0	367612	1	1	
OR52A5	109516	1024	-15	15414	4536	0	0	0	0	50	0	367612	1	1	
OR52B2	465433	806	-1	15428	4963	0	0	0	0	50	0	393953	1	1	
OR52B4	363779	797	-8	15414	4515	0	0	0	0	50	0	438592	1	1	
OR52B6	128694	895	9	16114	5012	0	0	0	0	50	0	420882	1	1	
OR52D1	99343	946	-2	15211	4970	0	0	0	0	50	0	425761	1	1	
OR52E2	97256	1024	-11	15799	4718	0	0	0	0	50	1	497959	1	1	

OR52E4	262387	914	-13	15127	4550	0	0	0	0	50	0	343175	1	1	
OR52E6	203856	922	-5	15267	4473	0	0	0	0	50	0	334397	1	1	
OR52E8	203856	922	-5	15281	4711	0	0	0	0	50	0	334397	1	1	
OR52H1	99343	946	-2	15554	4648	0	0	0	0	50	0	425761	1	1	
OR52I1	212267	935	-3	15624	4830	0	0	0	0	50	0	419657	1	1	
OR52I2	212267	935	-3	16982	5215	0	0	0	0	50	0	419657	1	1	
OR52J3	97256	1024	-11	14819	4648	0	0	0	0	50	1	497959	1	1	
OR52K1	190769	879	-1	15127	4802	0	0	0	0	50	1	389662	1	1	
OR52K2	264090	862	-7	15085	4844	0	0	0	0	50	2	455427	1	1	
OR52L1	432250	877	-13	15736	5138	0	0	0	0	50	0	356783	1	1	
OR52M1	190769	879	-1	14994	5019	0	0	0	0	50	1	389662	1	1	
OR52N1	203856	922	-5	15554	4648	0	0	0	0	50	0	334397	1	1	
OR52N2	203856	922	-5	15652	4613	0	0	0	0	50	0	334397	1	1	
OR52N4	139577	922	2	15673	4697	0	0	0	0	50	1	336504	1	1	
OR52N5	139577	922	2	15771	4788	0	0	0	0	50	1	336504	1	1	
OR52R1	66543	987	-3	15162	4725	0	0	0	0	50	0	345590	1	1	
OR52W1	466636	728	4	14798	5383	0	0	0	0	50	0	450765	1	1	
OR56A1	432250	877	-13	15372	4809	0	0	0	0	50	0	356783	1	1	
OR56A3	262387	914	-13	15155	4711	0	0	0	0	50	0	343175	1	1	
OR56A4	432250	877	-13	17577	5439	0	0	0	0	50	0	356783	1	1	
OR56A5	NaN	NaN	NaN	14987	4753	0	0	0	0	50	2	784301	1	1	
OR56B1	139577	922	2	15617	4858	0	0	0	0	50	1	336504	1	1	
OR56B4	465433	806	-1	15351	4767	0	0	0	0	50	0	393953	1	1	
OR5A1	430021	507	-1	15148	4760	0	0	0	0	50	0	417662	1	1	
OR5A2	417582	672	-4	15757	4676	0	0	0	0	50	1	389858	1	1	
OR5AC2	200002	811	-15	15043	4445	0	0	0	0	50	0	414659	1	1	
OR5AK2	474417	617	-38	15204	4284	0	0	0	0	50	0	365799	1	1	
OR5AN1	417582	672	-4	15239	4396	0	0	0	0	50	1	389858	1	1	
OR5AP2	NaN	NaN	NaN	15540	4431	0	0	0	0	50	2	783979	1	1	
OR5AR1	NaN	NaN	NaN	15155	4396	0	0	0	0	50	2	783944	1	1	
OR5AS1	4262	1044	-40	15820	4613	0	0	0	0	50	0	468405	1	1	
OR5B12	190469	812	-10	15428	4501	0	0	0	0	50	1	413455	1	1	
OR5B17	475497	835	-29	15253	4550	0	0	0	0	50	2	320915	1	1	
OR5B2	475497	835	-29	15197	4417	0	0	0	0	50	2	320915	1	1	
OR5B21	190469	812	-10	14973	4515	0	0	0	0	50	1	413455	1	1	
OR5B3	475497	835	-29	15365	4438	0	0	0	0	50	2	320915	1	1	
OR5C1	433740	487	10	15050	5152	0	0	0	0	50	0	379841	1	1	
OR5D13	4183	1091	-36	15372	4452	0	0	0	0	50	0	410704	1	1	
OR5D14	4183	1091	-36	15274	4550	0	0	0	0	50	0	410704	1	1	
OR5D16	4214	1074	-46	15932	4753	0	0	0	0	50	0	393722	1	1	
OR5D18	4183	1091	-36	15092	4669	0	0	0	0	50	0	410704	1	1	
OR5F1	4262	1044	-40	15190	4634	0	0	0	0	50	0	468405	1	1	
OR5H1	200002	811	-15	15302	4438	0	0	0	0	50	0	414659	1	1	
OR5H14	200002	811	-15	15246	4347	0	0	0	0	50	0	414659	1	1	
OR5H15	200002	811	-15	15316	4424	0	0	0	0	50	0	414659	1	1	
OR5H2	414958	885	-14	15463	4382	0	0	0	0	50	0	364560	1	1	
OR5H6	391500	849	-2	15995	4543	0	0	0	0	50	0	406938	1	1	
OR5I1	4262	1044	-40	15309	4515	0	0	0	0	50	0	468405	1	1	
OR5J2	10101	1007	-38	15148	4529	0	0	0	0	50	0	450254	1	1	
OR5K1	416592	885	-4	15183	4326	0	0	0	0	50	1	396662	1	1	

OR5K2	390532	796	2	15449	4501	0	0	0	0	50	0	383754	1	1	
OR5K3	416592	885	-4	15890	4375	0	0	0	0	50	1	396662	1	1	
OR5K4	414958	885	-14	15729	4515	0	0	0	0	50	0	364560	1	1	
OR5L1	4183	1091	-36	15015	4641	0	0	0	0	50	0	410704	1	1	
OR5L2	4183	1091	-36	14966	4690	0	0	0	0	50	0	410704	1	1	
OR5M1	NaN	NaN	NaN	15330	4578	0	0	0	0	50	2	784126	1	1	
OR5M10	NaN	NaN	NaN	15281	4627	0	0	0	0	50	2	784175	1	1	
OR5M11	NaN	NaN	NaN	14777	4480	0	0	0	0	50	2	784028	1	1	
OR5M3	NaN	NaN	NaN	15106	4256	0	0	0	0	50	2	783804	1	1	
OR5M8	NaN	NaN	NaN	15260	4396	0	0	0	0	50	2	783944	1	1	
OR5M9	NaN	NaN	NaN	15099	4452	0	0	0	0	50	2	784000	1	1	
OR5P2	103028	823	-1	15540	4809	0	0	0	0	50	0	438788	1	1	
OR5P3	103028	823	-1	15001	4634	0	0	0	0	50	0	438788	1	1	
OR5R1	NaN	NaN	NaN	15757	4676	0	0	0	0	50	2	784224	1	1	
OR5T1	10317	969	-43	15925	4676	0	0	0	0	50	0	369432	1	1	
OR5T2	10209	969	-40	17556	5019	0	0	0	0	50	0	399777	1	1	
OR5T3	10317	969	-43	16632	4830	0	0	0	0	50	0	369432	1	1	
OR5V1	329776	872	7	15666	4641	0	0	0	0	50	0	431522	1	1	
OR5W2	4214	1074	-46	15120	4431	0	0	0	0	50	0	393722	1	1	
OR6A2	427462	681	8	15729	4935	0	0	0	0	50	0	358414	1	1	
OR6B1	222080	812	-11	15085	4571	0	0	0	0	50	0	394590	1	1	
OR6B2	315906	569	21	14931	4746	0	0	0	0	50	0	479542	1	1	
OR6B3	315906	569	21	15855	5040	0	0	0	0	50	0	479542	1	1	
OR6C1	667726	802	-14	15274	4424	0	0	0	0	50	0	382417	1	1	
OR6C2	802038	706	3	15267	4452	0	0	0	0	50	0	403872	1	1	
OR6C3	667726	802	-14	15190	4445	0	0	0	0	50	0	382417	1	1	
OR6C4	1393447	546	-13	15008	4480	0	0	0	0	50	0	327320	1	1	
OR6C6	411183	816	-1	15351	4452	0	0	0	0	50	0	383488	1	1	
OR6C65	667726	802	-14	15330	4347	0	0	0	0	50	0	382417	1	1	
OR6C68	802038	706	3	15568	4424	0	0	0	0	50	0	403872	1	1	
OR6C70	802038	706	3	15225	4452	0	0	0	0	50	0	403872	1	1	
OR6C74	411183	816	-1	15162	4536	0	0	0	0	50	0	383488	1	1	
OR6C75	667726	802	-14	15183	4515	0	0	0	0	50	0	382417	1	1	
OR6C76	802038	706	3	15085	4613	0	0	0	0	50	0	403872	1	1	
OR6F1	191710	995	-32	14749	4718	0	0	0	0	50	0	497035	1	1	
OR6K2	175690	966	2	15729	4746	0	0	0	0	50	1	420952	1	1	
OR6K3	175690	966	2	15428	4438	0	0	0	0	50	1	420952	1	1	
OR6K6	103627	985	1	16744	4928	0	0	0	0	50	1	409689	1	1	
OR6M1	92984	637	-1	15029	4732	0	0	0	0	50	0	432418	1	1	
OR6N1	103627	985	1	15008	4690	0	0	0	0	50	1	409689	1	1	
OR6N2	103627	985	1	15407	4606	0	0	0	0	50	1	409689	1	1	
OR6P1	NaN	NaN	NaN	15218	4795	0	0	0	0	50	2	784343	1	1	
OR6Q1	NaN	NaN	NaN	15232	4781	0	0	0	0	50	2	784329	1	1	
OR6S1	709113	577	11	15722	5194	0	0	0	0	50	1	484281	1	1	
OR6T1	107524	830	-5	15344	5047	0	0	0	0	50	1	386491	1	1	
OR6V1	314565	676	-1	14980	4781	0	0	0	0	50	0	329399	1	1	
OR6X1	92984	637	-1	14917	4760	0	0	0	0	50	0	432418	1	1	
OR6Y1	179404	940	1	15813	4683	0	0	0	0	50	1	451822	1	1	
OR7A10	963401	546	14	14987	4543	0	0	0	0	50	1	388605	1	1	
OR7A17	963401	546	14	14861	4627	0	0	0	0	50	1	388605	1	1	

OR7A5	963401	546	14	15407	4753	0	0	0	0	50	1	388605	1	1	
OR7C1	963401	546	14	15344	4837	0	0	0	0	50	1	388605	1	1	
OR7C2	961949	546	4	15295	4844	0	0	0	0	50	1	474369	1	1	
OR7D2	311030	471	-63	15057	4662	0	0	0	0	20	0	110390	1	1	
OR7D4	398878	582	-50	14973	4746	0	0	0	0	40	1	320656	1	1	
OR7E24	398878	582	-50	16548	4872	0	0	0	0	40	1	320656	1	1	
OR7G1	311030	471	-63	16170	4956	0	0	0	0	20	0	110390	1	1	
OR7G2	311030	471	-63	16597	5159	0	0	0	0	20	0	110390	1	1	
OR7G3	311030	471	-63	14896	4802	0	0	0	0	20	0	110390	1	1	
OR8A1	171574	746	-1	15820	4760	0	0	0	0	50	0	515326	1	1	
OR8B12	171574	746	-1	14994	4557	0	0	0	0	50	0	515326	1	1	
OR8B2	149616	857	0	15267	4494	0	0	0	0	50	0	452865	1	1	
OR8B3	149616	857	0	15323	4417	0	0	0	0	50	0	452865	1	1	
OR8B4	149616	857	0	14966	4522	0	0	0	0	50	0	452865	1	1	
OR8B8	171093	824	-10	15190	4445	0	0	0	0	50	1	421274	1	1	
OR8D1	154391	921	-14	14896	4550	0	0	0	0	50	0	380723	1	1	
OR8D2	154391	921	-14	15001	4634	0	0	0	0	50	0	380723	1	1	
OR8D4	89099	736	-8	15267	4536	0	0	0	0	50	0	505463	1	1	
OR8G1	154391	921	-14	16884	4935	0	0	0	0	50	0	380723	1	1	
OR8G2	196141	921	-12	14742	4431	0	0	0	0	50	0	398349	1	1	
OR8G5	154391	921	-14	16919	4921	0	0	0	0	50	0	380723	1	1	
OR8H1	10317	969	-43	15127	4487	0	0	0	0	50	0	369432	1	1	
OR8H2	9992	1007	-32	15134	4543	0	0	0	0	50	0	443093	1	1	
OR8H3	9992	1007	-32	15176	4543	0	0	0	0	50	0	443093	1	1	
OR8I2	9992	1007	-32	15050	4522	0	0	0	0	50	0	443093	1	1	
OR8J1	10293	963	-36	15148	4781	0	0	0	0	50	0	485212	1	1	
OR8J3	10101	1007	-38	15183	4683	0	0	0	0	50	0	450254	1	1	
OR8K1	10293	963	-36	15582	4536	0	0	0	0	50	0	485212	1	1	
OR8K3	10317	969	-43	15183	4494	0	0	0	0	50	0	369432	1	1	
OR8K5	10101	1007	-38	15050	4333	0	0	0	0	50	0	450254	1	1	
OR8S1	1494035	421	25	17213	5530	0	0	0	0	50	0	364035	1	1	
OR8U8	12744	946	-38	4753	1106	0	0	0	0	50	0	378945	1	1	
OR9A2	314565	676	-1	15134	4459	0	0	0	0	50	0	329399	1	1	
OR9A4	198115	856	-6	15295	4550	0	0	0	0	50	2	413063	1	1	
OR9G1	NaN	NaN	NaN	14749	4487	0	0	0	0	50	2	784035	1	1	
OR9G4	384896	828	-34	15806	4837	0	0	0	0	50	2	375095	1	1	
OR9G9	252874	882	-38	14749	4487	0	0	0	0	50	1	333032	1	1	
OR9I1	NaN	NaN	NaN	15155	4690	0	0	0	0	50	2	784238	1	1	
OR9K2	341315	828	-2	16261	4886	0	0	0	0	50	0	461461	1	1	
OR9Q1	690075	744	-13	15085	4592	0	0	0	0	50	0	450527	1	1	
OR9Q2	637499	828	-25	15148	4781	0	0	0	0	50	1	327103	1	1	
ORAI1	720229	228	56	14574	4662	0	0	0	0	50	1	456379	1	1	
ORAI2	579276	202	61	12278	3955	0	0	0	0	50	0	363090	1	1	
ORAI3	1508459	247	46	13881	4851	0	0	0	0	50	0	404719	1	1	
ORAOV1	441431	536	41	7357	1673	0	0	0	0	50	1	401597	1	1	
ORC1L	815523	448	26	43078	12572	0	0	0	0	50	0	461433	1	1	
ORC2L	641949	201	29	30422	7336	0	0	0	0	50	1	324835	1	1	
ORC3L	236047	435	28	37289	9268	0	0	0	0	50	0	415380	1	1	
ORC4L	90907	937	4	23114	5509	0	0	0	0	50	1	442148	1	1	
ORC5L	152701	927	0	24353	6223	0	0	0	0	50	0	407162	1	1	

ORC6L	443420	253	-10	12950	3535	0	0	0	0	50	1	420861	1	1	
ORM1	206775	425	4	10479	2667	0	0	0	0	50	1	367290	1	1	
ORM2	206775	425	4	10479	2667	0	0	0	0	50	1	367290	1	1	
ORMDL1	398590	452	25	7749	2205	0	0	0	0	12	0	113666	1	1	
ORMDL2	1909014	256	38	7672	2261	0	0	0	0	50	0	457919	1	1	
ORMDL3	1602321	292	18	7721	2233	0	0	0	0	50	0	462833	1	1	
OS9	1245394	344	46	33992	9268	0	0	0	0	50	1	579299	1	1	
OSBP	432625	353	6	40705	11291	0	0	0	0	50	0	387282	1	1	
OSBP2	752472	303	37	45535	13328	0	0	0	0	50	0	460509	1	1	
OSBPL10	373732	604	7	38136	10983	0	0	0	0	50	0	416983	1	1	
OSBPL11	269912	188	31	38073	10059	0	0	0	0	50	0	402304	1	1	
OSBPL1A	150936	360	35	50043	12138	0	0	0	0	50	0	405797	1	1	
OSBPL2	990360	252	9	25130	6181	0	0	0	0	50	0	351477	1	1	
OSBPL3	254504	312	28	45990	11718	0	0	0	0	50	1	389711	1	1	
OSBPL5	513529	333	53	44352	12852	0	0	0	0	50	0	373051	1	1	
OSBPL6	150530	526	16	50274	12999	0	0	0	0	50	0	416143	1	1	
OSBPL7	1118277	217	27	42854	12103	0	0	0	0	50	0	360157	1	1	
OSBPL8	586978	492	3	46529	11473	0	0	0	0	50	0	367311	1	1	
OSBPL9	586185	288	18	40635	9912	0	0	0	0	50	1	408065	1	1	
OSCAR	767094	317	-50	15834	5544	0	0	0	0	50	0	362495	1	1	
OSCP1	608987	181	29	22183	5873	0	0	0	0	50	1	323582	1	1	
OSGEP	464497	395	17	16982	5026	0	0	0	0	50	0	420504	1	1	
OSGEPL1	398590	452	25	20895	5922	0	0	0	0	50	0	515172	1	1	
OSGIN1	387177	550	-6	27209	8638	0	0	0	0	50	0	299026	1	1	
OSGIN2	251472	419	35	27468	7602	0	0	0	0	50	0	372582	1	1	
OSM	548674	211	43	12306	3843	0	0	0	0	50	2	391706	1	1	
OSMR	193286	381	-10	50911	13013	0	0	0	0	50	0	411180	1	1	
OSR1	63105	842	-9	12957	4032	0	0	0	0	50	1	568078	1	1	
OSR2	113665	228	33	15736	4151	0	0	0	0	50	1	390593	1	1	
OST4	NaN	NaN	NaN	2009	532	0	0	0	0	26	2	228172	1	1	
OSTBETA	688371	189	44	6524	1771	0	0	0	0	50	3	461874	1	1	
OSTC	160719	574	14	7644	2100	0	0	0	0	50	0	396893	1	1	
OSTF1	94966	640	7	11599	2702	0	0	0	0	50	0	506744	1	1	
OSTM1	303865	459	38	16856	4711	0	0	0	0	50	0	327096	1	1	
OSTN	124914	878	7	6552	2016	0	0	0	0	50	0	394128	1	1	
OSTalpha	1042183	210	51	16807	5348	0	0	0	0	50	0	324268	1	1	
OTC	125559	NaN	36	18249	4872	0	0	0	0	50	0	338093	1	1	
OTOF	787643	408	41	106855	29708	0	0	0	0	50	0	399119	1	1	
OTOL1	236814	792	-13	23457	6867	0	0	0	0	50	0	368963	1	1	
OTOP1	178901	584	34	29834	9247	0	0	0	0	50	0	404642	1	1	
OTOP2	1045089	223	25	27433	8540	0	0	0	0	50	0	391125	1	1	
OTOP3	1045089	223	25	28707	9387	0	0	0	0	50	0	391125	1	1	
OTOR	76240	856	-21	6734	1687	0	0	0	0	50	0	416276	1	1	
OTOS	340416	482	28	4599	1239	0	0	0	0	50	1	440972	1	1	
OTP	276866	584	42	15484	5222	0	0	0	0	50	0	380170	1	1	
OTUB1	1322584	277	42	14063	3577	0	0	0	0	50	1	526869	1	1	
OTUB2	200224	560	38	12054	3171	0	0	0	0	50	0	378728	1	1	
OTUD1	NaN	NaN	NaN	22736	7630	0	0	0	0	50	2	787178	1	1	
OTUD3	437659	348	22	20482	5243	0	0	0	0	50	0	367731	1	1	
OTUD4	192885	1089	33	53424	14448	0	0	0	0	50	0	461524	1	1	

OTUD5	834315	NaN	40	28280	8554	0	0	0	0	50	0	367283	1	1	
OTUD6A	166632	NaN	16	14273	3976	0	0	0	0	50	0	419783	1	1	
OTUD6B	104917	935	1	16723	4235	0	0	0	0	50	1	419895	1	1	
OTUD7A	155907	445	13	45059	14224	0	0	0	0	50	0	432733	1	1	
OTUD7B	1115711	451	51	41958	12138	0	0	0	0	50	0	451269	1	1	
OTX1	240308	505	12	17129	5404	0	0	0	0	50	0	419230	1	1	
OTX2	191584	1012	-7	14630	4312	0	0	0	0	50	0	400470	1	1	
OVCA2	1415256	294	27	10850	3640	0	0	0	0	50	0	423479	1	1	
OVCH1	100195	539	-5	58464	15351	0	0	0	0	50	0	424949	1	1	
OVCH2	97859	823	0	29099	7651	0	0	0	0	50	1	436030	1	1	
OVGP1	397926	461	18	33726	9933	0	0	0	0	50	0	417809	1	1	
OVOL1	3834148	287	55	13405	3731	0	0	0	0	50	1	416493	1	1	
OVOL2	764857	499	-9	13811	3829	0	0	0	0	50	1	325395	1	1	
OXA1L	1153069	351	36	24584	7420	0	0	0	0	50	1	348348	1	1	
OXCT1	109769	687	11	26852	7315	0	0	0	0	50	0	489167	1	1	
OXCT2	975799	388	39	24766	7910	0	0	0	0	50	0	353969	1	1	
OXER1	343875	378	28	19754	7000	0	0	0	0	50	1	467257	1	1	
OXGR1	111002	623	-10	16576	4802	0	0	0	0	50	0	413938	1	1	
OXNAD1	188483	517	34	15897	4410	0	0	0	0	50	1	399623	1	1	
OXR1	124540	888	-2	46368	12390	0	0	0	0	50	1	420840	1	1	
OXSM	217009	717	-3	22323	6867	0	0	0	0	50	0	422198	1	1	
OXSR1	301294	386	31	27342	7350	0	0	0	0	50	2	436086	1	1	
OXT	835590	288	54	6293	1897	0	0	0	0	50	0	343882	1	1	
OXTR	158952	534	3	18564	6090	0	0	0	0	50	1	352478	1	1	
P2RX1	561462	215	32	20531	5593	0	0	0	0	50	1	395871	1	1	
P2RX2	819418	332	35	25403	6727	0	0	0	0	50	0	463491	1	1	
P2RX3	923815	191	-3	20636	5446	0	0	0	0	50	1	353164	1	1	
P2RX4	1003980	396	45	20013	5418	0	0	0	0	50	0	420490	1	1	
P2RX5	504736	354	20	21721	5894	0	0	0	0	50	0	460019	1	1	
P2RX6	577297	192	58	22372	6440	0	0	0	0	50	0	413014	1	1	
P2RX7	1061231	396	46	30674	7924	0	0	0	0	50	1	371714	1	1	
P2RY1	224331	861	8	18116	5446	0	0	0	0	50	0	371980	1	1	
P2RY10	14218	NaN	50	16884	4620	0	0	0	0	50	0	359247	1	1	
P2RY11	1675365	272	15	371	70	0	0	0	0	0	0	70	1	1	
P2RY12	51795	505	10	16828	4865	0	0	0	0	50	0	497973	1	1	
P2RY13	67416	548	15	17556	4935	0	0	0	0	50	0	441665	1	1	
P2RY14	130485	632	8	16800	4641	0	0	0	0	50	0	419461	1	1	
P2RY2	554585	189	59	17738	6160	0	0	0	0	50	0	398986	1	1	
P2RY4	161347	NaN	27	17234	5824	0	0	0	0	50	0	445277	1	1	
P2RY6	578209	176	56	15428	5383	0	0	0	0	50	1	375389	1	1	
P2RY8	NaN	NaN	NaN	17038	5726	0	0	0	0	50	2	785274	1	1	
P4HA1	539936	354	44	29022	7434	0	0	0	0	50	1	387779	1	1	
P4HA2	371617	246	35	28574	7714	0	0	0	0	50	0	370391	1	1	
P4HA3	641945	201	37	27293	8092	0	0	0	0	50	0	408401	1	1	
P4HB	3798594	211	19	26026	6881	0	0	0	0	50	1	363321	1	1	
P4HTM	1799657	241	41	27881	8323	0	0	0	0	50	0	446040	1	1	
PA2G4	2785610	165	39	20727	5166	0	0	0	0	50	1	393799	1	1	
PAAF1	544325	159	44	20125	5600	0	0	0	0	50	2	360010	1	1	
PABPC1	1141833	276	41	32459	8827	0	0	0	0	50	0	496594	1	1	
PABPC1L	952219	282	32	31031	8932	0	0	0	0	50	1	398468	1	1	

PABPC1L2A	NaN	NaN	NaN	9849	2814	0	0	0	0	50	2	782362	1	1	
PABPC1L2B	NaN	NaN	NaN	9849	2814	0	0	0	0	50	2	782362	1	1	
PABPC3	436184	650	30	30765	9093	0	0	0	0	50	0	511994	1	1	
PABPC4	978867	358	29	33628	9275	0	0	0	0	50	0	375368	1	1	
PABPC4L	NaN	NaN	NaN	21357	5754	0	0	0	0	50	2	785302	1	1	
PABPC5	8224	NaN	-28	18739	5390	0	0	0	0	50	0	495663	1	1	
PABPN1	1171456	330	20	15106	4739	0	0	0	0	50	0	425824	1	1	
PABPN1L	860087	252	37	14448	4305	0	0	0	0	50	0	481530	1	1	
PACRG	81261	1273	-28	15092	4123	0	0	0	0	50	0	475279	1	1	
PACRGL	42454	1252	22	11368	3206	0	0	0	0	50	0	410186	1	1	
PACS1	2403161	236	49	48706	13958	0	0	0	0	50	0	390992	1	1	
PACS2	892593	289	40	45430	12824	0	0	0	0	50	0	518945	1	1	
PACSIN1	888245	207	32	23156	5635	0	0	0	0	50	1	513709	1	1	
PACSIN2	627533	222	56	25354	6167	0	0	0	0	50	1	419419	1	1	
PACSIN3	1240468	184	31	21672	5859	0	0	0	0	50	0	421260	1	1	
PADI1	524388	182	42	33803	9331	0	0	0	0	50	2	331982	1	1	
PADI2	610093	194	45	33824	9436	0	0	0	0	50	1	423759	1	1	
PADI3	490967	168	38	33803	9394	0	0	0	0	50	0	328230	1	1	
PADI4	457546	210	34	33803	9331	0	0	0	0	50	0	399406	1	1	
PADI6	428762	210	31	35448	9618	0	0	0	0	50	0	366051	1	1	
PAEP	327501	539	37	9527	2464	0	0	0	0	50	0	371119	1	1	
PAF1	1748498	252	32	28014	6594	0	0	0	0	50	0	460327	1	1	
PAFAH1B1	612041	184	14	21203	5446	0	0	0	0	50	0	385140	1	1	
PAFAH1B2	426428	228	46	15449	3913	0	0	0	0	50	1	340501	1	1	
PAFAH1B3	792230	218	42	11536	3584	0	0	0	0	50	0	481950	1	1	
PAFAH2	774988	221	31	20118	5481	0	0	0	0	50	0	436184	1	1	
PAG1	185952	441	18	21812	5971	0	0	0	0	50	0	370279	1	1	
PAGE1	355308	NaN	14	7763	1960	0	0	0	0	50	0	492373	1	1	
PAGE2	214019	NaN	18	5936	1498	0	0	0	0	50	0	409283	1	1	
PAGE2B	214019	NaN	18	5922	1491	0	0	0	0	50	0	409283	1	1	
PAGE4	257202	NaN	7	5446	1379	0	0	0	0	50	2	387058	1	1	
PAGE5	140886	NaN	18	6790	1799	0	0	0	0	50	0	338639	1	1	
PAH	23724	961	-3	23415	6132	0	0	0	0	50	0	404082	1	1	
PAICS	662749	594	27	22323	5796	0	0	0	0	50	1	456855	1	1	
PAIP1	482851	434	19	24353	6727	0	0	0	0	50	1	320355	1	1	
PAIP2	835535	177	41	6916	1400	0	0	0	0	50	1	366793	1	1	
PAIP2B	349503	464	30	6685	1379	0	0	0	0	50	1	400365	1	1	
PAK1	502767	479	27	29365	7322	0	0	0	0	50	0	479108	1	1	
PAK1IP1	262380	410	14	20475	5082	0	0	0	0	50	1	440615	1	1	
PAK2	798731	446	41	27146	7105	0	0	0	0	50	0	350504	1	1	
PAK3	109883	NaN	18	30093	7854	0	0	0	0	50	0	389781	1	1	
PAK4	1652029	286	26	28434	9534	0	0	0	0	50	1	414561	1	1	
PAK6	829569	167	31	33096	10542	0	0	0	0	50	0	510979	1	1	
PAK7	93375	786	-46	35987	10045	0	0	0	0	50	0	500591	1	1	
PALB2	544239	561	38	59514	16275	0	0	0	0	50	1	465031	1	1	
PALLD	173564	359	-4	67053	19803	0	0	0	0	50	0	484323	1	1	
PALM	1914670	200	23	19243	5873	0	0	1	0	50	2	427854	1	1	
PALM2	276166	485	4	21112	5600	0	0	0	0	50	1	480893	1	1	
PALM2-AKAP2	250166	485	18	54754	15701	0	0	0	0	50	0	410137	1	1	
PALM3	NaN	NaN	NaN	32760	10122	0	0	0	0	50	2	789670	1	1	

PALMD	272208	540	-15	28182	7182	0	0	0	0	50	1	493647	1	1	
PAM	206242	550	9	50218	13223	0	0	0	0	50	1	472822	1	1	
PAMR1	646177	410	0	37289	10171	0	0	0	0	50	0	349412	1	1	
PAN2	2869106	184	52	60893	16912	0	0	0	0	50	1	498204	1	1	
PAN3	265548	616	57	44597	12859	0	0	0	0	50	0	215264	1	1	
PANK1	212241	345	18	29820	9051	0	0	0	0	50	0	381654	1	1	
PANK2	712060	170	37	27727	8834	0	0	1	0	50	1	388542	1	1	
PANK3	413558	432	32	18690	5187	0	0	0	0	50	1	384846	1	1	
PANK4	339388	228	38	39018	11298	0	0	0	0	50	0	338716	1	1	
PANX1	367552	774	-16	21280	5957	0	0	0	0	50	0	318535	1	1	
PANX2	944000	242	49	32333	10549	0	0	0	0	50	1	466228	1	1	
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PAOX	435826	472	10	27370	7175	0	0	0	0	50	0	395262	1	1	
PAPD4	260678	684	28	25319	6412	0	0	0	0	50	0	399140	1	1	
PAPD5	294222	418	24	35161	9926	0	0	0	0	50	0	420315	1	1	
PAPD7	253408	557	28	27377	7840	0	0	0	0	50	1	425460	1	1	
PAPL	1652812	254	29	22281	6300	0	0	0	0	50	0	421953	1	1	
PAPLN	525540	269	45	62594	18382	0	0	0	0	50	1	403865	1	1	
PAPOLA	328369	576	19	38479	10283	0	0	0	0	50	0	516082	1	1	
PAPOLB	NaN	NaN	NaN	31304	8890	0	0	0	0	50	2	788438	1	1	
PAPOLG	370439	436	18	37996	10199	0	0	0	0	50	2	495068	1	1	
PAPPA	69253	553	-19	81564	22764	0	0	0	0	33	0	272454	1	1	
PAPPA2	39980	863	-10	90293	25438	0	0	0	0	50	2	601230	1	1	
PAPSS1	144822	679	4	31808	8533	0	0	0	0	50	1	404103	1	1	
PAPSS2	379125	169	46	31395	8673	0	0	0	0	50	1	315693	1	1	
PAQR3	170032	699	18	15806	4270	0	0	0	0	50	0	343896	1	1	
PAQR4	1443513	234	49	12831	4599	0	0	0	0	50	0	372680	1	1	
PAQR5	366429	210	29	16807	4550	0	0	0	0	50	0	483175	1	1	
PAQR6	2266205	211	33	23912	5530	0	0	0	0	50	0	435456	1	1	
PAQR7	746382	372	24	16695	5250	0	0	0	0	50	0	568386	1	1	
PAQR9	397648	422	17	17955	5859	0	0	1	0	28	1	186984	1	1	
PARD3	139914	776	0	69587	18655	0	0	0	0	38	0	353528	1	1	
PARD3B	51582	973	-1	60473	17353	0	0	0	0	50	0	410137	1	1	
PARD6A	1065785	147	41	16366	5705	0	0	0	0	50	0	553924	1	1	
PARD6B	480540	161	43	18473	5194	0	0	0	0	50	2	323106	1	1	
PARD6G	161542	NaN	38	17836	6083	0	0	0	0	50	1	369159	1	1	
PARG	340607	454	28	50309	12670	0	0	0	0	50	1	439768	1	1	
PARK2	8197	1243	-30	24073	6209	0	0	0	0	50	0	432684	1	1	
PARK7	387339	207	26	9667	2807	0	0	0	0	50	0	489853	1	1	
PARL	1434591	408	37	19474	5264	0	0	0	0	50	1	444703	1	1	
PARM1	175795	775	18	14889	4956	0	0	0	0	50	0	410991	1	1	
PARN	519767	367	31	34615	7721	0	0	0	0	50	1	429177	1	1	
PARP1	805195	409	9	52199	13594	0	0	0	0	50	0	312837	1	1	
PARP10	2580629	247	28	48748	16730	0	0	0	0	50	0	555072	1	1	
PARP11	273563	859	31	18004	3941	0	0	0	0	50	0	514892	1	1	
PARP12	462854	639	35	35490	9660	0	0	0	0	50	1	437472	1	1	
PARP14	427462	423	47	90895	24017	0	0	0	0	50	0	430647	1	1	
PARP15	419536	311	44	35385	9807	0	0	0	0	50	2	454958	1	1	
PARP16	762474	223	53	16219	4613	0	0	0	0	50	0	389865	1	1	
PARP2	415850	401	-7	30478	7616	0	0	0	0	50	0	408821	1	1	

PARP3	1013177	370	39	27601	7406	0	0	0	0	50	0	388584	1	1	
PARP6	1129780	260	47	32872	8645	0	0	0	0	50	0	488075	1	1	
PARP8	76181	1215	14	44415	11634	0	0	0	0	50	0	406742	1	1	
PARP9	410045	404	35	44261	11515	0	0	0	0	50	0	396424	1	1	
PARS2	578299	343	23	22981	7091	0	0	0	0	50	0	423843	1	1	
PARVA	447343	318	-4	19264	5285	0	0	0	0	50	0	415352	1	1	
PARVB	158082	393	34	22372	6272	0	0	0	0	50	0	374185	1	1	
PASD1	153115	NaN	3	39830	10192	0	0	0	0	50	0	435582	1	1	
PASK	1394664	278	35	65072	19768	0	0	0	0	50	0	477967	1	1	
PATE1	607531	493	3	6867	1512	0	0	0	0	50	0	387562	1	1	
PATE2	607531	493	3	6104	1372	0	0	0	0	50	0	387562	1	1	
PATE3	NaN	NaN	NaN	5236	1211	0	0	0	0	31	2	344694	1	1	
PATE4	NaN	NaN	NaN	5236	1211	0	0	0	0	31	2	344694	1	1	
PATL1	431271	409	27	38990	11095	0	0	0	0	50	0	489678	1	1	
PATL2	NaN	NaN	NaN	27741	7791	0	0	0	0	50	2	787339	1	1	
PATZ1	723505	237	57	38388	11193	0	0	0	0	50	0	440496	1	1	
PAWR	230993	395	-8	16807	5096	0	0	0	0	50	0	454657	1	1	
PAX1	283661	885	-41	25228	8855	0	0	0	0	50	0	306866	1	1	
PAX2	1089188	481	19	24010	6335	0	0	0	0	50	1	340956	1	1	
PAX3	191783	682	11	27650	7567	0	0	0	0	50	0	389200	1	1	
PAX4	411207	619	-7	16835	5509	0	0	0	0	50	0	295897	1	1	
PAX5	429504	542	34	19670	5782	0	0	0	0	50	0	336203	1	1	
PAX6	172494	631	-11	22253	6202	0	0	0	0	50	0	478100	1	1	
PAX7	520847	598	28	27664	8267	0	0	0	0	50	1	451710	1	1	
PAX8	633218	385	36	22162	4550	0	0	0	0	50	0	432201	1	1	
PAX9	55912	494	-39	16471	5327	0	0	0	0	50	0	425957	1	1	
PAXIP1	162706	628	-6	54964	14168	0	0	0	0	50	0	517076	1	1	
PBK	406636	229	23	16786	4151	0	0	0	0	50	1	398209	1	1	
PBLD	490115	250	17	16226	4564	0	0	0	0	50	0	416850	1	1	
PBOV1	341233	545	21	6790	1820	0	0	0	0	35	0	299712	1	1	
PBRM1	1217701	231	47	84182	21259	0	0	0	0	50	0	465598	1	1	
PBX1	61567	624	-24	21889	5936	0	0	0	0	50	1	405405	1	1	
PBX2	2119974	392	28	21532	6293	0	0	0	0	50	0	467467	1	1	
PBX3	491989	545	36	22099	5978	0	0	0	0	50	0	422387	1	1	
PBX4	818567	284	-1	18746	5488	0	0	0	0	50	0	392931	1	1	
PBXIP1	1612870	224	35	36330	10626	0	0	0	0	50	0	363538	1	1	
PC	1649909	187	38	58142	17773	0	0	0	0	50	0	411264	1	1	
PCBD1	327428	592	29	5460	1407	0	0	0	0	50	1	453278	1	1	
PCBD2	727517	696	49	6664	1883	0	0	0	0	50	1	429037	1	1	
PCBP1	686152	156	52	17108	5383	0	0	0	0	50	1	314027	1	1	
PCBP2	1712232	191	56	19054	5243	0	0	0	0	50	0	443086	1	1	
PCBP3	724898	611	38	19138	5390	0	0	0	0	50	0	402906	1	1	
PCBP4	1029408	224	38	19915	6545	0	0	0	0	50	0	318374	1	1	
PCCA	139575	733	33	37772	10087	0	0	0	0	50	1	442820	1	1	
PCCB	229049	484	25	28483	8099	0	0	0	0	50	0	315539	1	1	
PCDH1	760355	281	23	60627	19425	0	0	0	0	50	0	476798	1	1	
PCDH10	9477	1355	-31	50981	16156	0	0	0	0	50	0	527205	1	1	
PCDH11X	123263	NaN	-21	68068	19922	0	0	0	0	50	0	397628	1	1	
PCDH11Y	0	0	0	66381	19656	0	0	0	0	46	0	390439	1	1	
PCDH12	696239	321	48	56868	18039	0	0	0	0	50	0	377804	1	1	

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PCDH15	2832	1222	-41	126063	34692	0	0	0	0	50	0	452389	1	1	
PCDH17	8275	1095	-28	56007	17325	0	0	0	0	50	0	543564	1	1	
PCDH18	87218	686	-17	55937	15883	0	0	0	0	50	0	526386	1	1	
PCDH19	128045	NaN	-15	55818	16989	0	0	0	0	50	0	365456	1	1	
PCDH20	3527	1075	-43	45948	14112	0	0	0	0	50	0	399553	1	1	
PCDH7	28650	682	6	62062	18935	0	0	0	0	50	0	502810	1	1	
PCDH8	248822	638	27	49931	17710	0	0	0	0	50	0	347977	1	1	
PCDH9	19605	831	-11	60746	17500	0	0	0	0	50	2	479962	1	1	
PCDHA1	861651	606	2	45843	14910	0	0	0	0	50	0	453530	1	1	
PCDHA10	NaN	NaN	NaN	47817	15225	0	0	0	0	50	2	794773	1	1	
PCDHA11	NaN	NaN	NaN	46151	14770	0	0	0	0	50	2	794318	1	1	
PCDHA12	NaN	NaN	NaN	45234	14532	0	0	0	0	50	2	794080	1	1	
PCDHA13	NaN	NaN	NaN	45927	14847	0	0	0	0	50	2	794395	1	1	
PCDHA2	861651	606	2	46690	15176	0	0	0	0	50	0	453530	1	1	
PCDHA3	861651	606	2	46725	15057	0	0	0	0	50	0	453530	1	1	
PCDHA4	861651	606	2	45360	14826	0	0	0	0	50	0	453530	1	1	
PCDHA5	896676	606	-12	46487	14833	0	0	0	0	50	0	476784	1	1	
PCDHA7	896676	606	-12	44884	14693	0	0	0	0	50	0	476784	1	1	
PCDHA8	896676	606	-12	46277	14917	0	0	0	0	50	0	476784	1	1	
PCDHA9	896676	606	-12	47474	15484	0	0	0	0	50	0	476784	1	1	
PCDHAC1	931701	643	-10	46599	14847	0	0	0	0	50	0	473375	1	1	
PCDHAC2	931701	643	-10	49553	16009	0	0	0	0	50	0	473375	1	1	
PCDHB1	987049	724	-11	39452	12187	0	0	0	0	50	0	471191	1	1	
PCDHB10	915569	724	-11	38059	12404	0	0	0	0	50	0	472647	1	1	
PCDHB11	915569	724	-11	38108	12166	0	0	0	0	50	0	472647	1	1	
PCDHB12	915569	724	-11	38003	12145	0	0	0	0	50	0	472647	1	1	
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PCDHB14	800016	708	-15	37982	12355	0	0	0	0	50	0	498442	1	1	
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PCDHB16	915569	724	-11	36904	12047	0	0	0	0	50	0	472647	1	1	
PCDHB2	987049	724	-11	38003	12334	0	0	0	0	50	0	471191	1	1	
PCDHB3	987049	724	-11	37765	12446	0	0	0	0	50	0	471191	1	1	
PCDHB4	915569	724	-11	37807	12341	0	0	0	0	50	0	472647	1	1	
PCDHB5	915569	724	-11	37730	12418	0	0	0	0	50	0	472647	1	1	
PCDHB6	915569	724	-11	37814	12271	0	0	0	0	50	0	472647	1	1	
PCDHB7	915569	724	-11	37513	12509	0	0	0	0	50	0	472647	1	1	
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PCDHB9	915569	724	-11	37905	12306	0	0	0	0	50	0	472647	1	1	
PCDHGA1	662513	568	2	45801	14175	0	0	0	0	50	0	490672	1	1	
PCDHGA10	NaN	NaN	NaN	46949	14728	0	0	0	0	50	2	794276	1	1	
PCDHGA11	NaN	NaN	NaN	46207	14672	0	0	0	0	50	2	794220	1	1	
PCDHGA12	NaN	NaN	NaN	45311	14455	0	0	0	0	50	2	794003	1	1	
PCDHGA2	662513	568	2	45374	14581	0	0	0	0	50	0	490672	1	1	
PCDHGA3	662513	568	2	45661	14672	0	0	0	0	50	0	490672	1	1	
PCDHGA4	NaN	NaN	NaN	45143	14707	0	0	0	0	50	2	794255	1	1	
PCDHGA5	NaN	NaN	NaN	44933	14392	0	0	0	0	50	2	793940	1	1	
PCDHGA6	NaN	NaN	NaN	44947	14693	0	0	0	0	50	2	794241	1	1	
PCDHGA7	NaN	NaN	NaN	45311	14308	0	0	0	0	50	2	793856	1	1	
PCDHGA8	NaN	NaN	NaN	45395	14413	0	0	0	0	50	2	793961	1	1	
PCDHGA9	NaN	NaN	NaN	45836	14455	0	0	0	0	50	2	794003	1	1	

PCDHGB1	662513	568	2	45080	14056	0	0	0	0	50	0	490672	1	1	
PCDHGB2	662513	568	2	45045	14154	0	0	0	0	50	0	490672	1	1	
PCDHGB3	662513	568	2	45318	14070	0	0	0	0	50	0	490672	1	1	
PCDHGB4	662513	568	2	44926	13769	0	0	0	0	50	0	490672	1	1	
PCDHGB5	662513	568	2	45444	14217	0	0	0	0	50	0	490672	1	1	
PCDHGB6	662513	568	2	45626	14182	0	0	0	0	50	0	490672	1	1	
PCDHGB7	662513	568	2	44982	14070	0	0	0	0	50	0	490672	1	1	
PCDHGC3	665835	568	9	47229	15330	0	0	0	0	50	0	488880	1	1	
PCDHGC4	665835	568	9	47516	15463	0	0	0	0	50	0	488880	1	1	
PCDHGC5	665835	568	9	47579	15841	0	0	0	0	50	0	488880	1	1	
PCDP1	309897	441	17	29071	7238	0	0	0	0	50	1	444087	1	1	
PCF11	308252	305	10	77616	21672	0	0	0	0	50	0	380744	1	1	
PCGF1	1019591	315	50	13685	3451	0	0	0	0	50	0	429359	1	1	
PCGF2	1158356	207	39	17395	5138	0	0	0	0	50	0	313467	1	1	
PCGF3	672497	312	27	12950	3031	0	0	0	0	50	1	505680	1	1	
PCGF5	190999	410	3	13685	3178	0	0	0	0	50	0	415233	1	1	
PCGF6	533950	125	43	17976	4935	0	0	0	0	50	1	352086	1	1	
PCID2	759371	229	38	21245	5173	0	0	0	0	50	0	446110	1	1	
PCIF1	725555	209	59	35609	10066	0	0	0	0	50	1	380828	1	1	
PCK1	181790	562	-4	31528	8477	0	0	0	0	50	1	392224	1	1	
PCK2	992350	355	19	33075	9954	0	0	0	0	50	0	418383	1	1	
PCLO	42656	1075	-27	252217	74123	0	0	0	0	18	0	249501	1	1	
PCM1	381765	253	2	104888	25795	0	0	0	0	50	1	482657	1	1	
PCMT1	424800	234	40	14553	4095	0	0	0	0	50	0	365652	1	1	
PCMTD1	63777	905	2	18466	4508	0	0	0	0	50	1	327425	1	1	
PCMTD2	442044	440	43	18221	5005	0	0	0	0	50	1	479682	1	1	
PCNA	497537	385	25	13412	3514	0	0	0	0	50	1	360969	1	1	
PCNP	549032	445	14	9198	2457	0	0	0	0	50	0	416808	1	1	
PCNT	991065	606	52	167370	46725	0	0	1	0	50	1	487473	1	1	
PCNX	262398	420	40	117047	33439	0	0	0	0	50	1	455098	1	1	
PCNXL2	146659	581	-1	107149	30317	0	0	0	0	29	1	264453	1	1	
PCNXL3	4038877	202	49	99260	31801	0	0	0	0	50	1	407722	1	1	
PCOLCE	1767777	242	60	22036	7028	0	0	0	0	50	0	430738	1	1	
PCOLCE2	398812	422	15	21133	5747	0	0	0	0	50	1	352177	1	1	
PCOTH	314992	678	51	11907	3150	0	0	0	0	50	0	264971	1	1	
PCP2	611341	384	33	6979	1967	0	0	0	0	50	0	407232	1	1	
PCP4	177752	829	-71	3402	777	0	0	0	0	8	0	56420	1	1	
PCP4L1	735152	293	41	3619	896	0	0	0	0	40	1	336812	1	1	
PCSK1N	NaN	NaN	NaN	11844	4809	0	0	0	0	50	2	784357	1	1	
PCSK2	536476	528	-40	32249	8932	0	0	0	0	50	0	348467	1	1	
PCSK4	2352825	221	38	37198	11648	0	0	0	0	50	0	360416	1	1	
PCSK5	96278	886	-24	47404	11900	0	0	0	0	50	0	380135	1	1	
PCSK6	372683	406	-1	56805	15960	0	0	0	0	50	0	373065	1	1	
PCSK7	431523	199	41	39515	11263	0	0	0	0	50	1	334278	1	1	
PCSK9	447775	230	13	33852	10731	0	0	0	0	50	0	496566	1	1	
PCTP	56508	631	-60	11151	2814	0	0	0	0	50	1	481075	1	1	
PCYOX1	669606	164	36	25389	6951	0	0	0	0	50	2	424074	1	1	
PCYOX1L	422727	380	28	24353	7294	0	0	0	0	50	1	380310	1	1	
PCYT1A	1103198	207	43	18991	4865	0	0	0	0	50	1	379764	1	1	
PCYT1B	424049	NaN	31	20727	5271	0	0	0	0	50	0	359121	1	1	

PCYT2	3798594	211	19	21049	5747	0	0	0	0	50	1	363321	1	1	
PDAP1	1115689	263	56	9548	2338	0	0	0	0	50	0	433489	1	1	
PDC	278089	492	-7	12754	3059	0	0	0	0	50	0	506065	1	1	
PDCD1	559742	487	29	14105	4480	0	0	0	0	50	2	507787	1	1	
PDCD10	145528	766	-10	11214	2709	0	0	0	0	50	0	415485	1	1	
PDCD11	544182	147	48	93947	26929	0	0	0	0	50	0	350511	1	1	
PDCD1LG2	307589	556	37	13937	3829	0	0	0	0	50	0	351344	1	1	
PDCD2	425191	598	-16	17948	4816	0	0	0	0	50	0	336686	1	1	
PDCD2L	689668	292	2	18193	5012	0	0	0	0	50	0	577437	1	1	
PDCD4	340524	254	9	24444	6426	0	0	0	0	50	0	437850	1	1	
PDCD5	358893	455	-32	6825	1575	0	0	0	0	50	0	441350	1	1	
PDCD6	935283	530	28	10031	2527	0	0	0	0	50	1	355796	1	1	
PDCD6IP	293448	409	9	44324	12166	0	0	0	0	50	1	455735	1	1	
PDCD7	678641	189	61	23128	7868	0	0	0	0	50	1	344057	1	1	
PDCL	433740	487	10	15484	3794	0	0	0	0	50	0	379841	1	1	
PDCL2	237456	456	32	12915	2814	0	0	0	0	50	0	526015	1	1	
PDCL3	235908	579	9	12439	3101	0	0	0	0	50	1	447524	1	1	
PDDC1	1788356	193	48	11284	3269	0	0	0	0	50	0	376684	1	1	
PDE10A	46364	571	-26	41762	10717	0	0	0	0	50	0	397558	1	1	
PDE11A	320610	618	18	50456	13552	0	0	0	0	50	1	495446	1	1	
PDE12	703082	422	29	29631	8967	0	0	0	0	50	0	422863	1	1	
PDE1A	359828	401	-5	29281	7343	0	0	0	0	50	0	420742	1	1	
PDE1B	643658	392	33	28749	7581	0	0	0	0	50	0	410683	1	1	
PDE1C	124074	828	6	33068	8365	0	0	0	0	50	1	379554	1	1	
PDE2A	741790	193	55	50589	13377	0	0	0	0	50	1	407022	1	1	
PDE3A	92407	514	-28	56560	16688	0	0	0	0	50	0	468804	1	1	
PDE3B	364855	539	-14	55545	15834	0	0	0	0	50	0	406896	1	1	
PDE4A	1956832	207	38	50883	15645	0	0	0	0	50	0	462028	1	1	
PDE4B	103928	596	-8	43834	11375	0	0	0	0	50	0	387303	1	1	
PDE4C	1178047	210	43	37898	11347	0	0	0	0	50	0	438382	1	1	
PDE4D	91124	682	10	46557	12600	0	0	0	0	50	0	509656	1	1	
PDE4DIP	NaN	NaN	NaN	145012	39809	0	0	0	0	50	2	819357	1	1	
PDE5A	183496	900	-6	46207	11249	0	0	0	0	50	1	394114	1	1	
PDE6A	1032925	135	43	45059	10948	0	0	0	0	50	0	484659	1	1	
PDE6B	639827	489	12	44254	11417	0	0	0	0	50	0	373163	1	1	
PDE6C	461114	305	19	44772	11109	0	0	0	0	50	0	385945	1	1	
PDE6D	979792	193	33	7889	1960	0	0	0	0	50	0	366842	1	1	
PDE6G	3745109	205	30	4557	1239	0	0	0	0	50	1	351778	1	1	
PDE6H	380047	476	8	4410	1134	0	0	0	0	50	0	404775	1	1	
PDE7A	167106	425	37	26670	6741	0	0	0	0	50	1	446824	1	1	
PDE7B	283639	392	6	23758	5663	0	0	0	0	50	1	370104	1	1	
PDE8A	393930	366	27	42812	11242	0	0	0	0	50	0	396571	1	1	
PDE8B	276128	451	26	45633	11991	0	0	0	0	50	0	419566	1	1	
PDE9A	411822	331	69	33439	7301	0	0	0	0	50	2	427756	1	1	
PDF	1202748	125	20	11501	3997	0	0	0	0	50	0	354158	1	1	
PDGFA	598406	318	9	11081	3052	0	0	0	0	19	0	164087	1	1	
PDGFB	1046938	205	60	12537	3675	0	0	0	0	50	1	397033	1	1	
PDGFC	39685	595	-24	17486	4732	0	0	0	0	50	0	382256	1	1	
PDGFD	19576	992	-10	18872	5005	0	0	0	0	50	2	480095	1	1	
PDGFRA	51422	518	27	55755	14763	0	0	0	0	50	1	452732	1	1	

PDGFRB	1065098	228	49	55461	16128	0	0	0	0	50	0	422345	1	1	
PDGFRL	462541	220	4	18781	5369	0	0	0	0	50	2	438389	1	1	
PDHA1	216523	NaN	39	22267	6125	0	0	0	0	50	1	367136	1	1	
PDHA2	16119	968	-25	18998	5551	0	0	0	0	50	0	458710	1	1	
PDHB	567081	265	35	18445	5033	0	0	0	0	50	0	430276	1	1	
PDHX	663753	258	6	26992	8246	0	0	0	0	50	0	575323	1	1	
PDIA2	1340678	205	43	26061	8001	0	0	0	0	50	0	429807	1	1	
PDIA3	784327	286	37	26236	6650	0	0	0	0	50	0	469203	1	1	
PDIA4	598458	279	31	32823	8631	0	0	0	0	50	1	433923	1	1	
PDIA5	468830	360	44	27286	6818	0	0	0	0	50	1	341278	1	1	
PDIA6	691715	507	50	22680	6153	0	0	0	0	50	2	386113	1	1	
PDIK1L	783481	212	23	17080	4634	0	0	0	0	50	0	443184	1	1	
PDILT	212375	823	0	29967	7812	0	0	0	0	50	0	370629	1	1	
PDK1	417145	365	23	22330	6083	0	0	0	0	50	0	398503	1	1	
PDK2	1197823	210	20	20888	5656	0	0	0	0	50	0	465465	1	1	
PDK3	512129	NaN	34	21497	5677	0	0	0	0	50	0	421435	1	1	
PDK4	195488	393	-3	21154	5642	0	0	0	0	50	0	434469	1	1	
PDLIM1	302337	444	6	16723	4571	0	0	0	0	50	0	357126	1	1	
PDLIM2	757216	224	45	19810	5747	0	0	0	0	50	1	430206	1	1	
PDLIM3	168463	422	4	21406	6209	0	0	0	0	50	1	338065	1	1	
PDLIM4	451605	191	40	16646	4753	0	0	0	0	50	1	367542	1	1	
PDLIM5	137154	349	18	32655	9282	0	0	0	0	50	0	385042	1	1	
PDLIM7	1120311	347	41	25277	7105	0	0	0	0	50	1	391951	1	1	
PDP1	319459	423	5	29477	8260	0	0	0	0	50	1	365897	1	1	
PDP2	942986	142	34	25858	7616	0	0	0	0	50	0	423577	1	1	
PDPK1	2083323	321	42	28546	7637	0	0	0	0	50	0	390362	1	1	
PDPN	64295	864	9	11718	3801	0	0	0	0	50	0	484351	1	1	
PDPR	1339196	137	19	44772	12096	0	0	0	0	0	0	12096	1	1	
PDRG1	1006109	386	37	7035	1743	0	0	0	0	50	0	333592	1	1	
PDS5A	606929	175	42	69671	17962	0	0	0	0	50	1	423500	1	1	
PDS5B	243309	471	50	75117	18963	0	0	0	0	50	0	504819	1	1	
PDSS1	339802	540	18	21280	5894	0	0	0	0	50	1	512050	1	1	
PDSS2	235480	588	33	20125	5663	0	0	0	0	50	0	424809	1	1	
PDX1	321222	612	38	13510	4466	0	0	0	0	50	0	326214	1	1	
PDXDC1	535071	214	23	40509	11046	0	0	0	0	50	0	430199	1	1	
PDXK	919787	170	68	16268	4291	0	0	0	0	50	1	382837	1	1	
PDXP	1136064	180	65	13832	5005	0	0	0	0	50	0	379680	1	1	
PDYN	461602	543	28	12565	3668	0	0	0	0	50	2	385931	1	1	
PDZD11	215874	NaN	52	7462	1925	0	0	0	0	50	0	446005	1	1	
PDZD2	440207	557	6	138145	42707	0	0	0	0	50	0	433083	1	1	
PDZD3	1258103	195	57	24766	7994	0	0	0	0	50	0	461741	1	1	
PDZD4	2103463	NaN	30	37660	11438	0	0	0	0	50	1	411677	1	1	
PDZD7	1020226	247	40	25242	8064	0	0	0	0	50	0	396403	1	1	
PDZD8	203138	607	5	56287	16814	0	0	0	0	50	1	419412	1	1	
PDZD9	643750	326	44	10493	2632	0	0	0	0	50	1	395647	1	1	
PDZK1	NaN	NaN	NaN	26187	7245	0	0	0	0	50	2	786793	1	1	
PDZK1IP1	364960	414	3	5845	1652	0	0	0	0	50	0	400848	1	1	
PDZRN3	82249	888	-7	52969	15050	0	0	0	0	50	0	558985	1	1	
PDZRN4	15244	1060	-21	53249	14371	0	0	1	0	50	1	420427	1	1	
PEA15	841605	386	29	6755	1750	0	0	0	0	50	0	374353	1	1	

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PEAR1	1362027	244	38	52696	14546	0	0	0	0	50	0	483315	1	1	
PEBP1	637549	608	17	9457	2639	0	0	0	0	50	0	374787	1	1	
PEBP4	718204	366	44	11886	2982	0	0	0	0	50	1	515599	1	1	
PECAM1	1304459	178	16	476	154	0	0	0	0	0	0	154	1	1	
PECI	180813	452	27	20440	5411	0	0	0	0	50	0	388514	1	1	
PECR	603452	419	35	15428	4354	0	0	0	0	50	0	436625	1	1	
PEF1	1093701	197	37	14119	4172	0	0	0	0	50	1	363181	1	1	
PEG10	393749	462	4	49126	476	0	0	0	0	13	0	105749	1	1	
PEG3	NaN	NaN	NaN	73717	18704	0	0	0	0	50	2	798252	1	1	
PELI1	379419	441	35	21091	5810	0	0	0	0	50	2	383943	1	1	
PELI2	315208	818	10	21014	5929	0	0	0	0	50	0	366646	1	1	
PELI3	1941577	194	51	22806	7371	0	0	0	0	50	1	395647	1	1	
PELO	158780	388	0	18935	5467	0	0	0	0	50	0	484001	1	1	
PELP1	1249398	222	26	54530	18109	0	0	0	0	50	0	444234	1	1	
PEMT	958193	236	12	11858	3619	0	0	0	0	50	0	433104	1	1	
PENK	411547	624	-16	13517	3577	0	0	0	0	50	0	334831	1	1	
PEPD	302640	598	-23	25179	7119	0	0	0	0	50	0	478989	1	1	
PER1	1381225	202	37	62776	20321	0	0	0	0	50	0	554176	1	1	
PER2	349323	252	28	63315	17661	0	0	0	0	50	1	604149	1	1	
PER3	370145	415	23	60494	16912	0	0	0	0	50	0	428190	1	1	
PERP	329471	484	24	9611	2779	0	0	0	0	50	0	485030	1	1	
PES1	653792	330	28	30226	8099	0	0	1	0	50	2	411670	1	1	
PET112L	146825	477	14	28301	7903	0	0	0	0	50	0	439999	1	1	
PET117	782027	479	-6	4151	1141	0	0	0	0	50	1	313306	1	1	
PEX1	750974	369	28	64988	17878	0	0	0	0	50	0	400701	1	1	
PEX10	561270	302	24	16772	5551	0	0	0	0	50	0	372848	1	1	
PEX11A	880974	190	35	12229	3605	0	0	0	0	50	1	438214	1	1	
PEX11B	NaN	NaN	NaN	12740	4270	0	0	0	0	50	2	783818	1	1	
PEX11G	609287	308	36	11627	3997	0	0	0	0	50	0	463288	1	1	
PEX12	756039	227	14	17556	5292	0	0	0	0	50	0	442456	1	1	
PEX13	635177	350	33	19838	5908	0	0	0	0	50	1	552678	1	1	
PEX14	819616	392	27	19089	5439	0	0	0	0	50	0	540869	1	1	
PEX16	427820	291	48	18242	5740	0	0	0	0	50	0	409262	1	1	
PEX19	891852	358	25	15547	3983	0	0	0	0	50	0	377419	1	1	
PEX2	66156	757	2	15281	4081	0	0	0	0	50	1	422968	1	1	
PEX26	516479	239	27	14966	4732	0	0	0	0	50	0	403046	1	1	
PEX3	318754	401	13	19488	4998	0	0	0	0	50	1	456610	1	1	
PEX5	1322142	267	27	33131	9478	0	0	0	0	50	1	386631	1	1	
PEX5L	307645	761	5	32088	8589	0	0	0	0	50	0	475090	1	1	
PEX6	1200368	259	40	46704	16485	0	0	0	0	50	0	446481	1	1	
PEX7	253053	408	33	16723	4487	0	0	0	0	50	0	432593	1	1	
PF4	230379	408	2	5068	1568	0	0	0	0	50	0	465437	1	1	
PF4V1	233432	444	6	5250	1575	0	0	0	0	50	0	422849	1	1	
PFAS	870950	218	18	65968	20657	0	0	0	0	50	1	365645	1	1	
PFDN1	764742	185	39	6468	1575	0	0	0	0	50	0	328286	1	1	
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PFDN6	1456953	262	30	6720	1890	0	0	0	0	50	0	411845	1	1	
PFKFB1	244981	NaN	0	24472	6398	0	0	0	0	50	0	559888	1	1	

PFKFB2	434877	155	24	27286	7196	0	0	0	0	50	1	520723	1	1	
PFKFB3	560233	399	38	27125	7252	0	0	0	0	50	0	450149	1	1	
PFKFB4	1480689	223	45	24227	6517	0	0	0	0	50	0	444521	1	1	
PFKM	484445	255	31	43666	12110	0	0	0	0	50	0	352086	1	1	
PFKP	221025	438	11	39914	11347	0	0	0	0	50	0	474677	1	1	
PFN1	1416161	231	30	6972	2079	0	0	0	0	50	0	367325	1	1	
PFN2	622464	490	17	8834	2359	0	0	0	0	50	0	384153	1	1	
PFN3	1038665	261	59	6454	2324	0	0	0	0	50	1	460180	1	1	
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PGA3	1023217	531	47	19537	5684	0	0	0	0	50	1	576058	1	1	
PGA4	NaN	NaN	NaN	19537	5684	0	0	0	0	50	2	785232	1	1	
PGA5	1124603	480	43	19537	5684	0	0	0	0	50	2	506457	1	1	
PGAM1	892254	188	39	12775	3584	0	0	0	0	50	2	423780	1	1	
PGAM2	1151124	282	56	12649	3605	0	0	0	0	50	0	457093	1	1	
PGAM4	549429	NaN	24	12453	3612	0	0	0	0	50	2	366842	1	1	
PGAM5	724450	495	35	15043	4760	0	0	0	0	50	0	491813	1	1	
PGAP1	549386	370	17	47775	12558	0	0	0	0	50	0	430927	1	1	
PGAP2	425863	258	23	20902	3269	0	0	0	0	50	1	390243	1	1	
PGAP3	1284992	226	38	16072	4781	0	0	0	0	50	0	412993	1	1	
PGBD1	273319	502	35	41027	10591	0	0	0	0	50	1	348229	1	1	
PGBD2	113516	547	-2	29547	7980	0	0	0	0	50	1	473459	1	1	
PGBD3	122000	224	15	29407	8099	0	0	0	0	50	0	358841	1	1	
PGBD4	409752	384	1	28945	8015	0	0	0	0	50	0	378903	1	1	
PGBD5	286328	478	10	23037	6237	0	0	0	0	50	0	440293	1	1	
PGC	429684	341	47	24521	7147	0	0	0	0	50	0	385560	1	1	
PGCP	235137	741	-10	23653	6734	0	0	0	0	50	0	468867	1	1	
PGD	712477	383	24	24780	6762	0	0	0	0	50	0	573384	1	1	
PGF	875817	222	53	8771	2506	0	0	0	0	50	0	357721	1	1	
PGGT1B	237444	619	9	19362	5166	0	0	0	0	50	1	430206	1	1	
PGK1	549810	NaN	14	21259	5915	0	0	0	0	50	1	460936	1	1	
PGK2	67972	1246	2	20349	5985	0	0	0	0	50	1	388703	1	1	
PGLS	961640	206	42	12425	4270	0	0	0	0	50	2	473305	1	1	
PGLYRP1	997099	261	31	9688	2933	0	0	0	0	50	1	439803	1	1	
PGLYRP2	524410	481	33	27349	9380	0	0	0	0	50	0	464520	1	1	
PGLYRP3	836876	556	24	17262	4872	0	0	0	0	50	0	578221	1	1	
PGLYRP4	1140044	401	32	18781	5453	0	0	0	0	50	0	335580	1	1	
PGM1	135416	330	3	33446	9247	0	0	0	0	50	1	397523	1	1	
PGM2	136995	603	38	31584	8169	0	0	0	0	50	0	370055	1	1	
PGM2L1	629890	143	29	31969	8372	0	0	0	0	50	1	326802	1	1	
PGM3	152280	734	8	27755	7462	0	0	0	0	50	0	523026	1	1	
PGM5	127057	681	-4	28329	8295	0	0	0	0	50	0	410081	1	1	
PGP	2179404	224	39	15141	5271	0	0	0	0	50	0	383964	1	1	
PGPEP1	1294357	210	39	10661	2947	0	0	0	0	50	0	433916	1	1	
PGPEP1L	217299	248	-20	9737	3010	0	0	0	0	50	0	432957	1	1	
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PGRMC2	277451	189	8	11998	3794	0	0	0	0	50	0	373513	1	1	
PGS1	980896	209	26	27426	8463	0	0	0	0	50	0	414183	1	1	
PHACTR1	251440	714	17	29659	8036	0	0	0	0	50	1	394667	1	1	
PHACTR2	346938	363	2	32599	9422	0	0	0	0	50	0	395024	1	1	

PHACTR3	137383	818	-29	28336	7952	0	0	0	0	50	1	421960	1	1	
PHACTR4	778726	182	29	36190	10199	0	0	0	0	50	0	452361	1	1	
PHAX	235652	347	15	20167	5096	0	0	0	0	50	0	372225	1	1	
PHB	733027	256	23	13496	4207	0	0	0	0	50	0	442442	1	1	
PHB2	2704950	211	47	15155	4417	0	0	0	0	50	1	523068	1	1	
PHC1	296906	416	12	49357	15134	0	0	0	0	50	0	419069	1	1	
PHC2	668735	413	31	42182	13069	0	0	0	0	50	1	319844	1	1	
PHC3	396500	426	32	49322	14644	0	0	0	0	50	1	393106	1	1	
PHEX	92340	NaN	14	39333	9681	0	0	0	0	50	0	428113	1	1	
PHF1	1441897	236	31	29946	7014	0	0	0	0	50	0	390558	1	1	
PHF10	233648	447	3	25970	6475	0	0	0	0	50	1	462595	1	1	
PHF11	422169	338	53	17514	4158	0	0	0	0	50	1	401303	1	1	
PHF12	1834230	220	37	50414	14581	0	0	0	0	50	0	467439	1	1	
PHF13	628180	259	38	15043	4172	0	0	0	0	50	1	443296	1	1	
PHF14	139683	990	-2	46067	11305	0	0	0	0	50	0	385224	1	1	
PHF15	909404	177	51	38983	11648	0	0	0	0	50	1	424193	1	1	
PHF16	830380	NaN	45	42084	10668	0	0	0	0	50	0	380212	1	1	
PHF17	163287	544	26	42938	11536	0	0	0	0	50	0	398013	1	1	
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PHF20	1341124	136	44	52052	13195	0	0	0	0	50	0	412251	1	1	
PHF21A	513122	344	32	35049	9828	0	0	0	0	50	0	371329	1	1	
PHF21B	350834	525	-5	26397	8211	0	0	0	0	50	0	449239	1	1	
PHF23	1782958	316	21	19775	6013	0	0	0	0	50	1	326809	1	1	
PHF3	256893	371	24	103299	26439	0	0	0	0	50	0	441329	1	1	
PHF5A	1480984	187	73	5901	1386	0	0	0	0	50	0	325241	1	1	
PHF6	271272	NaN	47	21091	4970	0	0	0	0	50	0	432572	1	1	
PHF7	1078407	229	62	20272	4634	0	0	0	0	50	1	410865	1	1	
PHF8	830265	NaN	30	56490	15603	0	0	0	0	50	0	424914	1	1	
PHGDH	425891	581	19	26299	8267	0	0	0	0	50	0	461951	1	1	
PHGR1	NaN	NaN	NaN	4067	1330	0	0	0	0	31	2	344813	1	1	
PHIP	209556	739	0	93639	24423	0	0	0	0	50	0	407414	1	1	
PHKA1	385429	NaN	18	62629	17087	0	0	0	0	50	1	373821	1	1	
PHKA2	182760	NaN	35	63196	17360	0	0	0	0	50	1	402150	1	1	
PHKB	320760	885	-3	59213	15547	0	0	0	0	50	1	372057	1	1	
PHKG1	738325	642	4	19796	5446	0	0	0	0	50	0	477064	1	1	
PHKG2	1632278	158	61	21182	6139	0	0	0	0	50	0	462980	1	1	
PHLDA1	604083	438	17	19446	6006	0	0	0	0	50	0	428134	1	1	
PHLDA2	552601	256	34	7441	2324	0	0	0	0	50	0	420994	1	1	
PHLDA3	842013	209	26	6090	2058	0	0	0	0	50	0	337533	1	1	
PHLDB2	192496	160	4	65765	17416	0	0	0	0	11	0	75768	1	1	
PHLDB3	392374	166	-19	31969	9674	0	0	0	0	50	0	393414	1	1	
PHLPP1	229775	442	34	83391	26187	0	0	0	0	50	0	468699	1	1	
PHLPP2	451025	366	17	65737	19145	0	0	0	0	50	0	370580	1	1	
PHOSPHO1	763613	346	27	14889	4725	0	0	0	0	50	0	451430	1	1	
PHOSPHO2	345692	393	35	12285	3087	0	0	0	0	50	0	415961	1	1	
PHOX2A	744547	182	58	13517	4606	0	0	0	0	50	1	370783	1	1	
PHOX2B	308280	376	22	15078	4935	0	0	0	0	50	0	457814	1	1	
PHPT1	1921909	176	44	7553	1792	0	0	0	0	50	1	408821	1	1	
PHRF1	1872122	236	49	79758	25557	0	0	0	0	50	0	355775	1	1	

PHTF1	298251	398	10	39165	10332	0	0	0	0	50	0	459158	1	1	
PHTF2	246673	730	25	39354	10626	0	0	0	0	31	0	260757	1	1	
PHYH	246468	433	33	17591	4480	0	0	0	0	50	0	467173	1	1	
PHYHD1	1580914	198	21	17913	2247	0	0	0	0	50	0	444920	1	1	
PHYHIP	587455	196	50	16688	4501	0	0	0	0	50	1	394975	1	1	
PHYHIPL	115861	812	-3	19782	4935	0	0	0	0	50	0	340137	1	1	
PI15	149375	824	-13	13125	3612	0	0	0	0	50	0	459067	1	1	
PI16	832054	220	41	22512	7224	0	0	0	0	50	0	434042	1	1	
PI3	842540	324	25	5908	1715	0	0	0	0	50	0	448567	1	1	
PI4K2A	514755	143	54	23996	6958	0	0	0	0	50	0	388661	1	1	
PI4K2B	218037	523	28	24717	6405	0	0	0	0	50	0	430962	1	1	
PI4KA	436102	288	42	105035	28336	0	0	1	0	50	2	415422	1	1	
PI4KB	1256374	184	31	41258	11935	0	0	0	0	50	0	421988	1	1	
PIAS1	325771	194	31	33005	9205	0	0	0	0	50	0	447545	1	1	
PIAS2	152679	618	42	32900	8953	0	0	0	0	50	0	288015	1	1	
PIAS3	NaN	NaN	NaN	31192	9569	0	0	0	0	50	2	789117	1	1	
PIAS4	2296242	207	29	25613	7462	0	0	0	0	50	0	507241	1	1	
PIBF1	258763	533	30	39690	9492	0	0	0	0	50	0	474565	1	1	
PICALM	366028	313	11	34167	9156	0	0	0	0	50	0	428624	1	1	
PICK1	1478013	200	76	21427	5789	0	0	0	0	50	0	359583	1	1	
PID1	105238	675	-12	13146	3465	0	0	0	0	50	0	565005	1	1	
PIF1	556478	205	50	30975	10479	0	0	0	0	50	1	362936	1	1	
PIGA	201763	NaN	43	24003	6972	0	0	0	0	50	0	473081	1	1	
PIGB	243817	487	11	28630	7301	0	0	0	0	50	0	382326	1	1	
PIGC	113155	450	11	14329	4445	0	0	0	0	50	0	456001	1	1	
PIGF	603816	252	35	12495	3486	0	0	0	0	50	0	432943	1	1	
PIGG	562684	624	19	48097	14903	0	0	0	0	50	0	341243	1	1	
PIGH	483892	311	46	9457	2744	0	0	0	0	50	1	400050	1	1	
PIGK	404438	673	-17	20706	5124	0	0	0	0	50	0	337407	1	1	
PIGL	905220	163	0	12908	3577	0	0	0	0	50	1	326669	1	1	
PIGM	820944	365	15	20426	6286	0	0	0	0	50	0	375788	1	1	
PIGN	125694	442	28	48286	12782	0	0	0	0	50	1	404397	1	1	
PIGO	782447	350	42	52094	17395	0	0	0	0	50	1	488740	1	1	
PIGP	353934	358	51	8148	2121	0	0	0	0	50	0	384790	1	1	
PIGQ	1115707	213	39	38381	11704	0	0	0	0	50	0	333676	1	1	
PIGR	467960	385	26	37877	11158	0	0	0	0	50	0	403543	1	1	
PIGS	1517567	225	24	27594	8358	0	0	0	0	50	0	346136	1	1	
PIGT	1037999	382	35	28581	8862	0	0	0	0	50	0	342685	1	1	
PIGU	1057035	190	51	22190	6202	0	0	0	0	50	0	379757	1	1	
PIGV	1022828	188	30	23793	7581	0	0	0	0	50	0	374269	1	1	
PIGW	416822	556	23	24514	7385	0	0	0	0	50	1	543354	1	1	
PIGX	818753	446	45	14056	3899	0	0	0	0	50	2	480760	1	1	
PIGY	449479	295	29	9023	2842	0	0	0	0	50	0	296457	1	1	
PIGZ	754196	306	29	27013	9653	0	0	0	0	50	0	469399	1	1	
PIH1D1	2173457	290	44	14903	4144	0	0	0	0	50	0	390320	1	1	
PIH1D2	389805	179	31	17171	4417	0	0	0	0	50	0	443954	1	1	
PIK3AP1	794261	622	28	40880	11242	0	0	0	0	50	0	539042	1	1	
PIK3C2A	513121	436	10	86142	22785	0	0	0	0	50	1	429093	1	1	
PIK3C2B	482894	188	34	82047	23646	0	0	0	0	50	0	386106	1	1	
PIK3C2G	24982	986	-31	75012	18690	0	0	0	0	50	0	420770	1	1	

PIK3C3	38836	1300	13	46480	11522	0	0	0	0	50	0	439544	1	1	
PIK3CA	401889	613	11	55258	13769	0	0	0	0	50	1	429338	1	1	
PIK3CB	281611	424	26	55083	14112	0	0	0	0	50	0	415891	1	1	
PIK3CD	533533	204	35	52815	14868	0	0	0	0	50	0	375438	1	1	
PIK3CG	171312	700	32	55209	15120	0	0	0	0	50	0	408030	1	1	
PIK3IP1	667559	221	43	13251	3801	0	0	0	0	50	2	428505	1	1	
PIK3R1	48999	619	32	39732	9849	0	0	0	0	50	1	396760	1	1	
PIK3R2	1249693	226	42	35980	11123	0	0	0	0	50	0	469602	1	1	
PIK3R3	1116382	318	20	24297	5649	0	0	0	0	50	0	477526	1	1	
PIK3R4	198723	430	17	68600	18613	0	0	0	0	50	0	388178	1	1	
PIK3R5	359348	636	10	43617	13398	0	0	0	0	50	1	394863	1	1	
PIK3R6	423397	636	11	37807	11333	0	0	0	0	50	1	406728	1	1	
PIKFYVE	256462	539	10	107751	28119	0	0	0	0	50	0	442372	1	1	
PILRB	1430637	204	54	13090	1610	0	0	0	0	50	0	357602	1	1	
PIM2	834040	NaN	38	15211	4865	0	0	0	0	50	0	294833	1	1	
PIM3	842221	271	15	15897	5124	0	0	0	0	50	0	457898	1	1	
PIN1	1069900	579	-26	8421	2205	0	0	0	0	50	0	403130	1	1	
PIN4	374992	NaN	53	9562	2555	0	0	0	0	50	1	317842	1	1	
PINK1	631461	208	35	28014	9282	0	0	0	0	50	0	429954	1	1	
PINX1	116190	574	16	17045	4270	0	0	0	0	50	0	394058	1	1	
PION	309983	573	35	45465	10962	0	0	0	0	50	0	394975	1	1	
PIP	321366	568	-9	7553	2044	0	0	0	0	50	0	338198	1	1	
PIP4K2A	196977	577	25	21091	5306	0	0	0	0	50	0	403284	1	1	
PIP4K2B	1198833	207	37	21525	5502	0	0	0	0	50	1	357490	1	1	
PIP4K2C	1347795	303	44	21574	5852	0	0	0	0	50	2	582323	1	1	
PIP5K1A	1409327	184	32	28756	7973	0	0	0	0	50	0	425852	1	1	
PIP5K1B	184422	543	27	27825	7308	0	0	0	0	50	0	412188	1	1	
PIP5K1C	2156221	206	32	33845	9772	0	0	0	0	50	0	513674	1	1	
PIP5KL1	1278941	201	51	19565	6118	0	0	0	0	50	1	438676	1	1	
PIPOX	1752742	236	34	19628	5593	0	0	0	0	50	0	444829	1	1	
PIR	193887	NaN	37	15183	3906	0	0	0	0	50	0	360556	1	1	
PIRT	58616	911	-49	6671	2023	0	0	0	0	50	0	312431	1	1	
PISD	538801	268	47	18690	5502	0	0	0	0	50	0	397873	1	1	
PITPNA	1362942	220	31	14623	3374	0	0	0	0	50	0	386253	1	1	
PITPNB	112113	310	-54	14812	3290	0	0	0	0	50	0	416241	1	1	
PITPNC1	648233	365	3	19362	4872	0	0	0	0	50	0	376803	1	1	
PITPNM1	1392213	215	53	61390	18977	0	0	0	0	50	0	303898	1	1	
PITPNM2	1122735	196	44	67200	19866	0	0	0	0	50	0	350833	1	1	
PITPNM3	255838	313	8	48748	14273	0	0	0	0	50	0	408394	1	1	
PITRM1	266524	438	16	53557	14063	0	0	0	0	50	1	403375	1	1	
PITX1	725156	226	27	15358	4655	0	0	0	0	50	0	481299	1	1	
PITX2	64585	758	-15	19215	5502	0	0	0	0	50	1	465367	1	1	
PITX3	1020192	169	44	14441	4900	0	0	0	0	50	0	509677	1	1	
PIWIL1	224466	621	-26	44275	11711	0	0	0	0	50	0	517293	1	1	
PIWIL2	635115	144	37	49623	13587	0	0	0	0	50	1	404124	1	1	
PIWIL3	399624	395	-4	45297	12012	0	0	0	0	50	0	368627	1	1	
PIWIL4	367057	478	6	43834	11501	0	0	0	0	50	0	377454	1	1	
PJA1	136194	NaN	39	31675	8897	0	0	0	0	50	1	370748	1	1	
PJA2	203821	583	15	36379	9044	0	0	0	0	50	0	349272	1	1	
PKD1	1696923	224	41	205184	69748	0	0	0	0	22	0	250824	1	1	

PKD1L1	239031	377	12	143094	41160	0	0	0	0	3	0	60942	1	1	
PKD1L3	NaN	NaN	NaN	87339	24171	0	0	0	0	50	2	803719	1	1	
PKD2	435445	367	21	48692	13573	0	0	0	0	50	0	425180	1	1	
PKD2L1	1071291	198	56	40747	11291	0	0	0	0	50	0	482783	1	1	
PKD2L2	946917	396	47	32543	7798	0	0	0	0	50	1	473690	1	1	
PKDCC	210167	164	-5	23653	7973	0	0	0	0	50	0	405650	1	1	
PKDREJ	519654	205	31	109606	32396	0	0	0	0	50	0	378287	1	1	
PKHD1	237026	946	0	204316	58730	0	0	0	0	50	0	426160	1	1	
PKHD1L1	134643	732	6	215166	58674	0	0	0	0	44	0	444479	1	1	
PKIA	46989	984	-2	3962	1057	0	0	0	0	50	0	353115	1	1	
PKIB	139315	1035	-16	4046	1099	0	0	0	0	50	0	401415	1	1	
PKIG	791812	171	44	3920	1099	0	0	0	0	50	3	439950	1	1	
PKLR	1574928	194	45	28245	9051	0	0	0	0	50	0	408905	1	1	
PKM2	1130931	192	36	29379	8568	0	0	0	0	50	1	400008	1	1	
PKMYT1	1443513	234	49	25179	7707	0	0	0	0	50	0	372680	1	1	
PKN1	954144	204	43	47334	14784	0	0	1	0	50	2	438277	1	1	
PKN2	280301	449	0	50680	13139	0	0	0	0	50	1	476266	1	1	
PKN3	1865107	197	38	44051	13783	0	0	0	0	50	0	470393	1	1	
PKNOX1	434727	131	65	22372	5999	0	0	0	0	50	1	419727	1	1	
PKNOX2	412479	731	16	24080	6559	0	0	0	0	50	1	416612	1	1	
PKP1	758588	193	23	37877	10423	0	0	0	0	50	0	448910	1	1	
PKP2	292831	381	-18	43918	12740	0	0	0	0	50	0	387772	1	1	
PKP3	1830414	344	53	38570	12754	0	0	0	0	50	0	402150	1	1	
PKP4	212889	532	5	59395	17528	0	0	0	0	50	1	422247	1	1	
PL-5283	NaN	NaN	NaN	2569	623	0	0	0	0	28	2	256879	1	1	
PLA1A	288657	595	42	23254	6419	0	0	0	0	50	0	366499	1	1	
PLA2G10	519767	367	45	8309	2443	0	0	0	0	50	1	359597	1	1	
PLA2G12A	211934	473	25	9569	2653	0	0	0	0	50	0	318878	1	1	
PLA2G12B	587592	291	43	9989	2653	0	0	0	0	50	0	443856	1	1	
PLA2G15	910198	281	30	20349	6132	0	0	0	0	50	0	377685	1	1	
PLA2G16	854193	303	56	8337	2268	0	0	0	0	50	0	324961	1	1	
PLA2G1B	1621662	187	56	7840	1883	0	0	0	0	50	0	465661	1	1	
PLA2G2A	490325	466	25	7532	1855	0	0	0	0	50	0	342496	1	1	
PLA2G2C	608368	501	27	7749	1932	0	0	0	0	50	2	392329	1	1	
PLA2G2E	437659	348	22	7329	1974	0	0	0	0	50	0	367731	1	1	
PLA2G2F	567393	501	23	10899	2835	0	0	0	0	50	0	343819	1	1	
PLA2G3	731144	218	40	25151	7483	0	0	0	0	50	0	493983	1	1	
PLA2G4A	265620	592	-18	39088	9590	0	0	0	0	50	0	378434	1	1	
PLA2G4B	874211	259	40	39382	11522	0	0	0	0	50	0	480634	1	1	
PLA2G4C	983603	431	26	29099	7798	0	0	0	0	50	0	503307	1	1	
PLA2G4D	680403	360	46	41076	12159	0	0	0	0	50	1	418537	1	1	
PLA2G4E	733131	267	42	42574	11858	0	0	0	0	50	2	400925	1	1	
PLA2G4F	655295	394	36	42595	12593	0	0	0	0	50	0	427868	1	1	
PLA2G5	528859	466	24	7196	1897	0	0	0	0	50	0	370076	1	1	
PLA2G6	1578246	197	69	40334	11851	0	0	0	0	50	0	444087	1	1	
PLA2G7	141205	551	-1	23037	5733	0	0	0	0	50	1	406196	1	1	
PLA2R1	260653	401	24	76503	18291	0	0	0	0	50	0	389326	1	1	
PLAA	116221	568	-17	40411	10892	0	0	0	0	50	0	498407	1	1	
PLAC1	268956	NaN	39	10633	2870	0	0	0	0	50	0	419118	1	1	
PLAC1L	336373	691	4	8092	2177	0	0	0	0	50	0	421491	1	1	

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PLAC4	187016	530	-16	6923	2590	0	0	0	0	50	1	511679	1	1	
PLAC8	361292	169	58	6097	1547	0	0	0	0	50	0	417144	1	1	
PLAC8L1	396247	406	-2	9072	2436	0	0	0	0	50	0	356776	1	1	
PLAC9	399614	626	2	4872	1554	0	0	0	0	50	0	451591	1	1	
PLAG1	343641	552	19	24759	6888	0	0	0	0	50	1	500976	1	1	
PLAGL1	358761	422	8	22498	6818	0	0	0	0	50	0	405188	1	1	
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PLAT	580110	382	45	28959	7602	0	0	0	0	50	0	418978	1	1	
PLAU	988012	191	43	27804	7077	0	0	0	0	50	2	464625	1	1	
PLAUR	441738	209	6	18578	5068	0	0	0	0	50	1	435442	1	1	
PLB1	478034	172	32	76951	20489	0	0	0	0	50	1	352296	1	1	
PLBD1	339369	778	7	28308	7434	0	0	0	0	50	0	458080	1	1	
PLBD2	442841	251	37	29414	8722	0	0	0	0	50	0	339514	1	1	
PLCB1	85844	872	-34	65296	16226	0	0	0	0	50	0	380562	1	1	
PLCB2	851107	167	36	61124	16198	0	0	0	0	50	0	386141	1	1	
PLCB3	1613996	257	65	62230	18095	0	0	0	0	50	0	419300	1	1	
PLCB4	77680	715	-57	64239	14910	0	0	0	0	50	1	470547	1	1	
PLCD1	318742	457	24	39893	11053	0	0	0	0	50	0	481299	1	1	
PLCD3	819156	170	30	39046	11879	0	0	0	0	50	0	498869	1	1	
PLCD4	986502	179	45	39088	10241	0	0	0	0	50	1	449533	1	1	
PLCE1	299843	633	2	121541	32158	0	0	0	0	50	0	371735	1	1	
PLCG1	383568	362	13	66493	17507	0	0	0	0	50	0	465913	1	1	
PLCG2	217457	451	36	66059	16387	0	0	0	0	50	1	453138	1	1	
PLCH1	326198	765	-9	85806	23121	0	0	0	0	50	0	431025	1	1	
PLCH2	339388	228	38	69755	21280	0	0	0	0	50	0	338716	1	1	
PLCL1	627125	907	10	54747	14721	0	0	0	0	50	0	428855	1	1	
PLCL2	105775	400	15	56133	15267	0	0	0	0	50	0	368326	1	1	
PLCXD1	NaN	NaN	NaN	16121	4795	0	0	0	0	50	2	784343	1	1	
PLCXD2	188186	322	-3	19873	5642	0	0	0	0	50	0	467509	1	1	
PLCXD3	219266	928	-15	16191	4305	0	0	0	0	50	0	366639	1	1	
PLCZ1	82407	911	-29	31766	7735	0	0	0	0	50	0	334607	1	1	
PLD1	180676	440	23	55867	14042	0	0	0	0	50	0	344526	1	1	
PLD2	1465720	208	27	47089	13748	0	0	0	0	50	0	375935	1	1	
PLD3	1006719	289	35	24549	7308	0	0	0	0	50	0	431389	1	1	
PLD4	855494	247	41	24997	7742	0	0	0	0	50	0	532973	1	1	
PLD5	75320	854	-18	23079	5712	0	0	0	0	50	0	409997	1	1	
PLD6	910162	218	11	12040	4025	0	0	0	0	50	0	427553	1	1	
PLDN	200904	369	3	9009	2226	0	0	0	0	50	0	439187	1	1	
PLEC	2478735	247	25	236719	75719	0	0	0	0	42	0	537656	1	1	
PLEK	208260	586	23	18326	4459	0	0	0	0	50	0	420889	1	1	
PLEK2	484235	291	32	18011	5005	0	0	0	0	50	0	349433	1	1	
PLEKHA1	255946	174	10	21021	5418	0	0	0	0	50	0	371952	1	1	
PLEKHA2	487952	201	38	21735	6027	0	0	0	0	50	0	344624	1	1	
PLEKHA3	170323	555	37	15645	3906	0	0	0	0	50	1	359611	1	1	
PLEKHA4	1766061	211	34	38493	12243	0	0	0	0	50	1	399812	1	1	
PLEKHA5	149622	577	-29	63056	16135	0	0	0	0	50	1	517727	1	1	
PLEKHA6	554014	370	33	52472	15379	0	0	0	0	50	0	465206	1	1	
PLEKHA7	511749	446	13	56336	16240	0	0	0	0	50	0	411740	1	1	
PLEKHA8	659459	466	26	23156	5677	0	0	0	0	50	0	450317	1	1	
PLEKHA9	168990	630	-14	19425	5271	0	0	0	0	50	0	461510	1	1	

PLEKHB1	547370	311	38	12334	3626	0	0	0	0	50	0	337085	1	1	
PLEKHB2	461881	331	16	11599	3038	0	0	0	0	50	0	397873	1	1	
PLEKHF1	222973	612	-63	13580	4144	0	0	0	0	47	1	338989	1	1	
PLEKHF2	385365	347	60	12481	3353	0	0	0	0	50	0	369558	1	1	
PLEKHG1	284652	263	27	69517	19061	0	0	0	0	50	0	438606	1	1	
PLEKHG2	1410725	230	39	66703	22190	0	0	0	0	50	0	544768	1	1	
PLEKHG3	608112	186	46	57372	17136	0	0	0	0	50	1	394072	1	1	
PLEKHG4	1201743	142	56	58457	18319	0	0	0	0	50	1	492191	1	1	
PLEKHG4B	836250	543	14	62622	18984	0	0	0	0	50	1	378994	1	1	
PLEKHG5	644634	203	44	53984	16240	0	0	0	0	50	1	422121	1	1	
PLEKHG6	2670962	198	46	39452	12565	0	0	0	0	50	1	532784	1	1	
PLEKHG7	244442	509	2	19838	4942	0	0	0	0	50	1	418698	1	1	
PLEKHH1	483892	311	46	68355	19992	0	0	0	0	50	1	400050	1	1	
PLEKHH2	503591	421	29	76468	20090	0	0	0	0	50	0	391566	1	1	
PLEKHH3	1740597	177	36	37716	13314	0	0	0	0	50	1	431606	1	1	
PLEKHJ1	1603571	240	27	7861	2051	0	0	0	0	50	0	431256	1	1	
PLEKHM1	748554	327	12	51912	15603	0	0	0	0	50	0	466123	1	1	
PLEKHM2	683349	174	22	51135	14721	0	0	0	0	50	0	457247	1	1	
PLEKHM3	331278	370	20	38255	10255	0	0	0	0	50	2	484379	1	1	
PLEKHN1	1971475	239	15	30737	9877	0	0	0	0	50	1	501445	1	1	
PLEKHO1	1202779	309	41	20265	6027	0	0	0	0	50	0	493654	1	1	
PLEKHO2	556478	205	50	23877	7476	0	0	0	0	50	1	362936	1	1	
PLG	181774	624	-9	41692	10955	0	0	0	0	50	0	529298	1	1	
PLGLB1	NaN	NaN	NaN	10472	2380	0	0	0	0	50	2	781928	1	1	
PLGLB2	NaN	NaN	NaN	10472	2380	0	0	0	0	50	2	781928	1	1	
PLIN1	880974	190	35	25424	8197	0	0	0	0	50	1	438214	1	1	
PLIN2	500437	324	-7	22022	6160	0	0	0	0	50	2	449225	1	1	
PLIN3	765978	187	52	21560	6433	0	0	0	0	50	0	357679	1	1	
PLIN4	2111443	278	43	63427	22547	0	0	0	0	50	0	422268	1	1	
PLIN5	2111443	278	43	22589	7231	0	0	0	0	50	0	422268	1	1	
PLK1	530660	509	35	29988	8862	0	0	0	0	50	0	506464	1	1	
PLK1S1	302588	632	-13	34769	8722	0	0	0	0	50	0	293790	1	1	
PLK2	125347	446	5	35140	9170	0	0	0	0	50	1	325318	1	1	
PLK3	574317	191	43	32004	9975	0	0	0	0	50	1	401562	1	1	
PLK4	230666	331	9	49525	12908	0	0	0	0	50	0	376320	1	1	
PLLP	701043	125	43	8946	2835	0	0	0	0	50	2	402101	1	1	
PLN	133888	1029	1	2688	735	0	0	0	0	50	2	389998	1	1	
PLOD1	518604	207	41	37079	10339	0	0	0	0	50	1	322546	1	1	
PLOD2	118043	471	-12	39515	9898	0	0	0	0	50	0	484666	1	1	
PLOD3	1022626	258	39	37219	10850	0	0	0	0	50	0	387464	1	1	
PLP1	472103	NaN	26	13958	4060	0	0	0	0	50	0	499289	1	1	
PLP2	724395	NaN	44	7630	2345	0	0	0	0	50	2	414680	1	1	
PLRG1	59883	1034	20	26663	7000	0	0	0	0	50	0	376054	1	1	
PLS1	435882	406	28	32620	8330	0	0	0	0	50	0	502145	1	1	
PLS3	231348	NaN	3	32893	8120	0	0	0	0	50	0	419125	1	1	
PLSCR1	123426	671	-12	16576	4193	0	0	0	0	50	0	511539	1	1	
PLSCR2	122649	611	-16	11767	2912	0	0	0	0	50	0	549717	1	1	
PLSCR3	1911735	206	36	14441	4711	0	0	0	0	50	1	434000	1	1	
PLSCR4	119025	361	-10	17045	4417	0	0	0	0	50	1	480627	1	1	
PLSCR5	124275	768	-20	13965	3759	0	0	0	0	50	0	423983	1	1	

PLTP	725555	209	59	24752	7630	0	0	0	0	50	1	380828	1	1	
PLUNC	478384	482	27	12663	4200	0	0	0	0	50	0	501991	1	1	
PLVAP	842088	211	43	22127	6244	0	0	0	0	50	0	425502	1	1	
PLXDC1	1452583	212	26	25683	6972	0	0	0	0	50	0	397824	1	1	
PLXDC2	19386	1014	-10	27265	7217	0	0	0	0	50	2	449813	1	1	
PLXNA1	422395	494	48	93408	28623	0	0	0	0	50	1	406679	1	1	
PLXNA2	258618	627	10	94437	27552	0	0	0	0	50	1	523376	1	1	
PLXNA3	2220716	NaN	41	92547	28077	0	0	0	0	50	0	371140	1	1	
PLXNA4	314659	746	9	100051	28490	0	0	0	0	50	0	422660	1	1	
PLXNB1	1401411	263	32	104216	33376	0	0	0	0	1	0	39662	1	1	
PLXNB2	939384	257	70	91784	27013	0	0	0	0	50	1	385217	1	1	
PLXNB3	2103463	NaN	30	95319	30471	0	0	0	0	50	1	411677	1	1	
PLXNC1	218710	580	31	79506	21861	0	0	0	0	50	1	414239	1	1	
PLXND1	754944	210	53	95424	28896	0	0	0	0	50	0	350574	1	1	
PM20D1	699823	377	35	25480	7259	0	0	0	0	50	0	508690	1	1	
PM20D2	376032	446	27	21679	6398	0	0	0	0	50	0	481208	1	1	
PMAIP1	200064	434	48	2744	805	0	0	0	0	31	0	288029	1	1	
PMCH	229712	552	12	8512	2198	0	0	0	0	50	0	449057	1	1	
PMEPA1	197938	488	15	14357	4249	0	0	0	0	50	0	337512	1	1	
PMF1	2280435	211	36	10507	2849	0	0	0	0	50	0	443366	1	1	
PMFBP1	443927	479	0	53739	12705	0	0	0	0	50	0	425376	1	1	
PML	375211	344	41	58947	18543	0	0	0	0	50	1	430318	1	1	
PMM1	1467336	183	66	13573	3626	0	0	0	0	50	0	407708	1	1	
PMM2	401569	247	-2	13013	3178	0	0	0	0	50	1	497651	1	1	
PMP2	191177	595	1	6951	1722	0	0	0	0	50	0	401667	1	1	
PMP22	228633	345	-72	8134	2387	0	0	0	0	39	0	233961	1	1	
PMPCA	1413299	233	44	26446	7784	0	0	0	0	50	0	463337	1	1	
PMPCB	375620	620	8	25088	6832	0	0	0	0	50	0	399399	1	1	
PMS1	424679	385	20	47908	11879	0	0	0	0	50	0	406021	1	1	
PMS2	NaN	NaN	NaN	43918	11669	0	0	0	0	50	2	791217	1	1	
PMVK	1695232	224	37	9765	2730	0	0	0	0	50	0	475412	1	1	
PNCK	1716845	NaN	44	22470	6468	0	0	0	0	50	0	375634	1	1	
PNKD	732698	197	35	24878	7819	0	0	0	0	50	1	429037	1	1	
PNKP	1673246	205	37	26264	8008	0	0	0	0	50	0	414190	1	1	
PNLDC1	652619	453	26	27447	6888	0	0	0	0	50	0	420826	1	1	
PNLIP	128161	704	-16	24052	6314	0	0	0	0	50	0	567539	1	1	
PNLIPRP1	128161	704	-16	24220	6272	0	0	0	0	50	0	567539	1	1	
PNLIPRP2	161760	618	-16	24423	6321	0	0	0	0	50	0	515102	1	1	
PNLIPRP3	127796	855	-19	24325	6125	0	0	0	0	50	0	456813	1	1	
PNMA1	600464	191	47	17213	5089	0	0	0	0	50	1	410711	1	1	
PNMA2	194700	452	14	17717	5278	0	0	0	0	50	0	434658	1	1	
PNMA3	265470	NaN	16	22302	6930	0	0	0	0	50	0	496706	1	1	
PNMA5	249931	NaN	35	21770	6517	0	0	0	0	50	0	385161	1	1	
PNMA6A	NaN	NaN	NaN	37856	12544	0	0	0	0	50	2	792092	1	1	
PNMAL1	1099113	393	25	22043	6307	0	0	0	0	50	0	409479	1	1	
PNMAL2	1099113	393	25	30282	9786	0	0	0	0	50	0	409479	1	1	
PNMT	1284992	226	38	13706	4333	0	0	0	0	50	0	412993	1	1	
PNN	314417	166	13	36799	9149	0	0	0	0	50	1	378350	1	1	
PNO1	197504	594	14	12873	3612	0	0	0	0	50	0	367913	1	1	
PNOC	311812	229	35	9002	2401	0	0	0	0	50	0	326641	1	1	

PNP	464497	395	17	14637	4053	0	0	0	0	50	0	420504	1	1	
PNPLA1	839966	358	30	26460	8274	0	0	0	0	50	0	381899	1	1	
PNPLA2	1799017	232	51	24486	8001	0	0	0	0	50	0	368949	1	1	
PNPLA3	155890	393	24	23940	7098	0	0	0	0	50	0	375179	1	1	
PNPLA4	43100	NaN	-9	12775	3731	0	0	0	0	50	0	572789	1	1	
PNPLA5	157623	473	13	21406	6356	0	0	0	0	50	0	443457	1	1	
PNPLA6	610314	205	34	68089	21413	0	0	0	0	50	0	402255	1	1	
PNPLA8	366326	803	-6	39662	10423	0	0	0	0	50	0	464828	1	1	
PNPO	1183803	203	21	13314	3696	0	0	0	0	50	0	420252	1	1	
PNPT1	501257	354	17	40733	10969	0	0	0	0	50	0	401471	1	1	
PNRC1	307937	375	29	15617	5131	0	0	0	0	50	1	394065	1	1	
PNRC2	NaN	NaN	NaN	7133	1771	0	0	0	0	50	2	781319	1	1	
POC1A	1096747	193	52	20748	5880	0	0	0	0	50	0	436583	1	1	
POC1B	236022	460	-6	24563	6538	0	0	0	0	50	0	357056	1	1	
POC5	265325	605	19	29491	7994	0	0	0	0	50	0	381304	1	1	
PODN	491749	391	14	32081	10507	0	0	0	0	50	0	408380	1	1	
PODNL1	930314	231	32	24528	8799	0	0	1	0	50	2	363461	1	1	
PODXL	236261	220	27	27223	8666	0	0	0	0	50	0	384594	1	1	
PODXL2	679358	336	45	29736	9072	0	0	0	0	50	1	413931	1	1	
POF1B	105434	NaN	-3	31010	7504	0	0	0	0	50	0	504189	1	1	
POFUT1	1013932	190	56	20237	5761	0	0	0	0	50	0	398748	1	1	
POFUT2	596236	334	45	24024	6657	0	0	0	0	50	0	433377	1	1	
POGK	258555	773	-7	30527	8323	0	0	0	0	50	0	478310	1	1	
POGZ	1356854	163	37	69902	20734	0	0	0	0	50	0	553315	1	1	
POLA1	255855	NaN	22	76160	19075	0	0	0	0	50	0	375368	1	1	
POLA2	3946871	242	49	30499	8666	0	0	0	0	50	1	407722	1	1	
POLB	524868	327	41	17997	4263	0	0	0	0	50	1	354739	1	1	
POLD1	1055164	491	28	55069	16940	0	0	0	0	50	1	439425	1	1	
POLD2	1151124	282	56	23436	7056	0	0	0	0	50	0	457093	1	1	
POLD3	540458	245	36	24094	6293	0	0	0	0	50	0	436723	1	1	
POLD4	1269888	177	51	5544	1512	0	0	0	0	50	1	407001	1	1	
POLDIP2	1405196	214	10	18690	5376	0	0	0	0	50	0	442414	1	1	
POLDIP3	914105	189	69	20993	6307	0	0	0	0	50	1	401184	1	1	
POLE	724450	495	35	116473	31682	0	0	0	0	50	0	491813	1	1	
POLE2	612579	342	25	27797	7063	0	0	0	0	50	1	448686	1	1	
POLE3	390186	297	36	7735	1841	0	0	0	0	50	0	381297	1	1	
POLE4	642459	577	26	5908	1820	0	0	0	0	50	0	441119	1	1	
POLG	636068	420	24	62174	17710	0	0	0	0	50	1	485016	1	1	
POLG2	1306314	184	23	24521	6769	0	0	0	0	50	0	467418	1	1	
POLH	1221714	194	46	35602	10220	0	0	0	0	50	1	484029	1	1	
POLI	98827	436	44	37646	9835	0	0	0	0	50	1	419083	1	1	
POLK	253484	500	54	45129	10920	0	0	0	0	50	0	446432	1	1	
POLL	843302	421	19	28385	8575	0	0	0	0	50	1	421701	1	1	
POLM	1151124	282	56	24430	7637	0	0	0	0	50	0	457093	1	1	
POLN	765279	332	34	46445	12250	0	0	0	0	50	0	420924	1	1	
POLQ	292766	680	7	130662	35007	0	0	0	0	50	0	433020	1	1	
POLR1A	983860	391	46	87108	24087	0	0	0	0	50	0	442407	1	1	
POLR1B	563286	166	34	57169	15575	0	0	0	0	50	0	447846	1	1	
POLR1C	1278255	230	56	19425	5481	0	0	0	0	50	0	392392	1	1	
POLR1D	350423	583	50	12691	3206	0	0	0	0	50	0	304633	1	1	

POLR1E	523221	234	35	21728	5698	0	0	0	0	50	0	372806	1	1	
POLR2A	1931875	194	29	97531	28994	0	0	0	0	50	2	462350	1	1	
POLR2B	570731	443	33	60452	15673	0	0	0	0	50	0	410179	1	1	
POLR2C	760307	159	42	14371	3731	0	0	0	0	50	2	427231	1	1	
POLR2D	588745	248	39	7455	1848	0	0	0	0	50	1	434056	1	1	
POLR2E	2387949	206	26	10962	2961	0	0	0	0	50	0	637042	1	1	
POLR2F	1370748	203	50	6671	1729	0	0	0	0	50	0	361438	1	1	
POLR2G	2405109	248	44	9100	2387	0	0	0	0	50	0	388598	1	1	
POLR2H	1447013	268	44	7903	1988	0	0	0	0	50	1	551999	1	1	
POLR2I	978272	326	6	6846	1554	0	0	0	0	50	1	296975	1	1	
POLR2J	642828	230	65	6139	1589	0	0	0	0	50	0	306873	1	1	
POLR2J2	NaN	NaN	NaN	5985	1659	0	0	0	0	31	2	345142	1	1	
POLR2J3	NaN	NaN	NaN	6027	1659	0	0	0	0	31	2	345142	1	1	
POLR2K	810757	396	25	3325	644	0	0	0	0	1	0	10241	1	1	
POLR2L	1799017	232	51	3388	1022	0	0	0	0	50	0	368949	1	1	
POLR3A	362530	184	31	70770	19383	0	0	0	0	50	0	471527	1	1	
POLR3B	247626	539	7	58443	15267	0	0	0	0	50	1	448420	1	1	
POLR3C	NaN	NaN	NaN	27496	7427	0	0	0	0	50	2	786975	1	1	
POLR3D	586506	193	43	19943	5866	0	0	0	0	50	1	429338	1	1	
POLR3E	483001	235	50	36512	9835	0	0	0	0	50	0	358540	1	1	
POLR3F	414549	436	23	16618	4025	0	0	0	0	50	0	494851	1	1	
POLR3G	84917	780	16	12215	2485	0	0	0	0	50	0	395661	1	1	
POLR3GL	NaN	NaN	NaN	11452	2933	0	0	0	0	50	2	782481	1	1	
POLR3H	1467336	183	66	10619	2800	0	0	0	0	50	0	407708	1	1	
POLR3K	712205	238	36	5628	1449	0	0	0	0	50	0	392147	1	1	
POLRMT	1832767	218	10	60543	18774	0	0	0	0	29	0	334362	1	1	
POM121	641244	332	59	47019	15960	0	0	0	0	50	0	334894	1	1	
POM121C	806294	337	66	47117	16051	0	0	0	0	50	0	405832	1	1	
POM121L12	10922	1116	-24	14049	4704	0	0	0	0	50	0	502642	1	1	
POM121L2	NaN	NaN	NaN	49077	16233	0	0	0	0	50	2	795781	1	1	
POMC	319647	280	37	13195	3857	0	0	0	0	50	0	362383	1	1	
POMGNT1	908945	190	29	33978	9429	0	0	0	0	50	0	504329	1	1	
POMP	167695	629	37	7511	1897	0	0	0	0	50	0	330295	1	1	
POMT1	651666	272	34	38038	10682	0	0	0	0	50	0	423682	1	1	
POMT2	554839	418	37	37891	11102	0	0	0	0	50	0	461601	1	1	
POMZP3	846738	301	66	9716	2653	0	0	0	0	50	0	410648	1	1	
PON1	134258	327	-2	18221	4921	0	0	0	0	50	0	453173	1	1	
PON2	137217	333	-1	18032	5005	0	0	0	0	50	1	529732	1	1	
PON3	135737	327	-2	18207	4914	0	0	0	0	50	0	453173	1	1	
POP1	635159	368	44	51450	14385	0	0	0	0	50	0	444934	1	1	
POP4	223167	612	-63	11508	2961	0	0	0	0	47	1	338989	1	1	
POP5	1615212	311	34	8526	2226	0	0	0	0	50	0	406924	1	1	
POP7	1483965	336	46	6734	2233	0	0	0	0	50	1	551152	1	1	
POPDC2	288657	595	42	17675	5572	0	0	0	0	50	0	366499	1	1	
POPDC3	108747	650	2	14525	4039	0	0	0	0	50	1	401926	1	1	
POR	1063656	218	54	34475	9688	0	0	0	0	50	0	434994	1	1	
PORCN	726793	NaN	2	23394	6888	0	0	0	0	50	0	443898	1	1	
POSTN	135260	641	-38	43400	11179	0	0	0	0	50	0	467481	1	1	
POT1	34691	524	-16	32690	8575	0	0	0	0	50	2	445123	1	1	
POTEA	236622	755	-37	26180	6307	0	0	0	0	50	0	497434	1	1	

POTEB	NaN	NaN	NaN	42742	10388	0	0	0	0	50	2	789936	1	1	
POTEC	NaN	NaN	NaN	28343	6706	0	0	0	0	50	2	786254	1	1	
POTED	42480	1066	-58	30520	7259	0	0	0	0	50	0	280007	1	1	
POTEE	462125	NaN	11	55034	13972	0	0	0	0	50	0	512659	1	1	
POTEF	347607	560	4	55083	13965	0	0	0	0	50	0	439614	1	1	
POTEG	148332	835	-50	26509	6419	0	0	0	0	50	0	409150	1	1	
POTEH	66885	909	-64	28399	6860	0	0	0	0	50	0	437094	1	1	
POTEM	NaN	NaN	NaN	26488	6440	0	0	0	0	50	2	785988	1	1	
POU1F1	58819	470	-15	16205	4249	0	0	0	0	50	2	464016	1	1	
POU2AF1	238940	567	19	12439	4088	0	0	0	0	50	0	401905	1	1	
POU2F1	399046	569	0	36645	11487	0	0	0	0	50	0	441259	1	1	
POU2F2	855248	369	32	23492	6874	0	0	0	0	50	0	397173	1	1	
POU2F3	323392	198	36	22302	6279	0	0	0	0	50	0	322805	1	1	
POU3F1	448782	374	32	21126	7392	0	0	0	0	50	1	369649	1	1	
POU3F2	171189	927	-7	21322	6650	0	0	0	0	50	0	390887	1	1	
POU3F3	165707	869	-17	23583	7959	0	0	0	0	50	0	470498	1	1	
POU3F4	12933	NaN	-23	17556	5292	0	0	0	0	50	1	527723	1	1	
POU4F1	41876	1004	-1	19796	6748	0	0	0	0	50	0	353640	1	1	
POU4F2	38882	987	-10	19817	6097	0	0	0	0	50	2	462336	1	1	
POU4F3	388550	463	20	16548	4977	0	0	0	0	50	0	557361	1	1	
POU5F1	3364017	401	19	17619	5502	0	0	0	0	50	0	292061	1	1	
POU5F1B	NaN	NaN	NaN	17220	5460	0	0	0	0	50	2	785008	1	1	
POU5F2	263452	587	3	15624	5145	0	0	0	0	50	0	419412	1	1	
POU6F1	496692	176	40	14833	4613	0	0	0	0	50	1	339430	1	1	
POU6F2	180662	897	4	33887	10549	0	0	0	0	50	1	368564	1	1	
PPA1	458949	217	39	15540	3570	0	0	0	0	50	0	327691	1	1	
PPA2	217228	603	29	17724	4347	0	0	0	0	50	1	396487	1	1	
PPAN	NaN	NaN	NaN	20811	5838	0	0	0	0	50	2	785386	1	1	
PPAN-P2RY11	1675365	272	15	20811	5838	0	0	0	0	2	0	17717	1	1	
PPAP2A	345749	277	33	17003	4711	0	0	0	0	50	0	403445	1	1	
PPAP2B	39932	563	7	15715	4361	0	0	0	0	50	0	547582	1	1	
PPAP2C	233160	578	-13	16079	5068	0	0	0	0	50	0	360542	1	1	
PPAPDC1A	261792	849	5	13748	3892	0	0	0	0	50	0	401352	1	1	
PPAPDC1B	763369	277	42	14875	4151	0	0	0	0	50	1	438760	1	1	
PPAPDC2	224825	673	12	13867	4823	0	0	0	0	50	0	486514	1	1	
PPAPDC3	745091	213	50	12873	4347	0	0	0	0	50	0	360962	1	1	
PPARD	670775	267	35	22757	6097	0	0	0	0	50	0	377230	1	1	
PPARG	372685	222	25	25718	6706	0	0	0	0	50	1	447384	1	1	
PPARGC1A	19326	405	2	40537	10808	0	0	0	0	50	1	362257	1	1	
PPARGC1B	908037	285	49	50589	14994	0	0	0	0	50	1	468594	1	1	
PPAT	651147	594	16	26215	7259	0	0	0	0	50	0	362264	1	1	
PPBP	230379	408	2	6475	1862	0	0	0	0	50	0	465437	1	1	
PPCDC	887844	262	43	10430	2905	0	0	0	0	50	0	522942	1	1	
PPCS	570562	583	27	14987	4879	0	0	0	0	50	1	378497	1	1	
PPDPF	1262904	298	54	5817	1680	0	0	0	0	50	0	369817	1	1	
PPEF1	141559	NaN	17	34160	8302	0	0	0	0	50	0	420469	1	1	
PPEF2	482292	429	45	38696	10150	0	0	0	0	50	1	424676	1	1	
PPFIA1	514596	530	44	61565	16576	0	0	0	0	50	1	390005	1	1	
PPFIA2	20298	1132	-25	64771	17087	0	0	0	0	50	0	541681	1	1	
PPFIA3	2011861	267	47	59745	18060	0	0	0	0	50	0	405790	1	1	

PPFIA4	430455	453	42	35301	10269	0	0	0	0	50	1	386932	1	1	
PPFIBP1	488829	369	7	53060	13552	0	0	0	0	50	1	502173	1	1	
PPFIBP2	104307	853	12	44968	12215	0	0	0	0	50	0	402493	1	1	
PPHLN1	174675	545	14	27083	7189	0	0	0	0	50	0	474306	1	1	
PPIA	1200579	164	55	8631	2205	0	0	0	0	50	1	483973	1	1	
PPIAL4A	NaN	NaN	NaN	24780	6657	0	0	0	0	50	2	786205	1	1	
PPIAL4B	NaN	NaN	NaN	24780	6657	0	0	0	0	50	2	786205	1	1	
PPIAL4C	397277	779	29	16520	4438	0	0	0	0	50	0	354844	1	1	
PPIAL4D	NaN	NaN	NaN	16394	4480	0	0	0	0	50	2	784028	1	1	
PPIAL4E	NaN	NaN	NaN	8197	2240	0	0	0	0	50	2	781788	1	1	
PPIAL4F	216744	582	41	16394	4480	0	0	0	0	50	0	402115	1	1	
PPIAL4G	119504	375	34	8253	2184	0	0	0	0	50	0	399616	1	1	
PPIB	743794	251	43	10927	3080	0	0	0	0	50	1	454545	1	1	
PPIC	183387	519	12	10633	3122	0	0	0	0	50	0	486052	1	1	
PPID	188459	429	14	19334	4795	0	0	0	0	50	0	419979	1	1	
PPIE	975799	388	39	17766	4305	0	0	0	0	50	0	353969	1	1	
PPIF	326131	300	53	10465	3101	0	0	1	0	1	1	5579	1	1	
PPIG	345417	404	38	39641	8932	0	0	0	0	50	1	424004	1	1	
PPIH	650376	461	21	9639	2373	0	0	0	0	50	0	397810	1	1	
PPIL1	836025	244	43	8505	2268	0	0	0	0	50	0	455224	1	1	
PPIL2	447011	252	56	28490	6538	0	0	0	0	50	0	353556	1	1	
PPIL3	635570	201	31	10465	2555	0	0	0	0	50	1	336567	1	1	
PPIL4	434611	150	40	26166	5943	0	0	0	0	50	1	364455	1	1	
PPIL5	563227	409	-4	21266	5131	0	0	0	0	50	0	397075	1	1	
PPIL6	328699	559	47	17514	4452	0	0	0	0	50	0	353549	1	1	
PPIP5K1	794398	269	37	74487	20895	0	0	0	0	50	0	455539	1	1	
PPIP5K2	204934	549	16	63056	16387	0	0	0	0	50	0	434854	1	1	
PPL	702265	206	19	87899	24598	0	0	0	0	50	0	455532	1	1	
PPM1A	281503	630	36	23723	5908	0	0	0	0	50	0	311080	1	1	
PPM1B	448266	420	32	25263	6720	0	0	0	0	50	1	420952	1	1	
PPM1D	288701	328	15	29806	8792	0	0	0	0	50	1	444143	1	1	
PPM1E	469298	448	11	37632	10500	0	0	0	0	50	0	480767	1	1	
PPM1F	471638	379	52	22414	6839	0	0	0	0	50	0	410046	1	1	
PPM1G	1244404	179	39	27818	7399	0	0	0	0	50	0	425159	1	1	
PPM1H	298536	426	0	25473	7728	0	0	0	0	50	0	425411	1	1	
PPM1K	432936	304	25	18781	5222	0	0	0	0	50	0	324457	1	1	
PPM1L	585349	509	-5	18137	4900	0	0	0	0	50	0	357784	1	1	
PPM1M	1114737	181	52	15127	4298	0	0	0	0	50	0	445732	1	1	
PPM1N	1107927	194	44	20426	7063	0	0	0	0	50	0	361312	1	1	
PPME1	628196	280	38	20251	5264	0	0	0	0	50	0	365239	1	1	
PPOX	728669	234	37	23513	7651	0	0	0	0	50	0	442974	1	1	
PPP1CA	1269888	177	51	17304	4746	0	0	0	0	50	1	407001	1	1	
PPP1CB	483830	229	30	17010	4326	0	0	0	0	50	0	352646	1	1	
PPP1CC	796153	347	50	16723	4193	0	0	0	0	50	1	385833	1	1	
PPP1R10	2080582	271	32	46585	14210	0	0	0	0	50	0	425362	1	1	
PPP1R11	1820240	496	30	6293	1876	0	0	0	0	50	0	371455	1	1	
PPP1R12A	222118	398	-8	52906	14147	0	0	0	0	50	0	450618	1	1	
PPP1R12B	770535	377	32	53844	14826	0	0	0	0	50	0	437171	1	1	
PPP1R12C	1036976	266	-1	38801	12334	0	0	0	0	50	0	289856	1	1	
PPP1R13B	712218	320	39	54320	15757	0	0	0	0	50	0	354074	1	1	

PPP1R13L	1269856	191	31	40061	13174	0	0	0	0	50	0	423360	1	1	
PPP1R14A	1410213	301	-1	7357	2261	0	0	1	0	3	1	16772	1	1	
PPP1R14B	1613996	257	65	7350	2226	0	0	0	0	50	0	419300	1	1	
PPP1R14C	346933	439	30	8281	2429	0	0	0	0	50	1	503671	1	1	
PPP1R14D	1036414	172	51	10878	2163	0	0	0	0	50	1	399637	1	1	
PPP1R15A	1766061	211	34	32620	10115	0	0	0	0	50	1	399812	1	1	
PPP1R15B	517418	230	28	34909	10157	0	0	0	0	50	0	419230	1	1	
PPP1R16A	1755818	291	7	25949	8134	0	0	0	0	24	0	213045	1	1	
PPP1R16B	264783	548	32	28574	8029	0	0	0	0	50	0	402234	1	1	
PPP1R1A	643658	392	33	8883	2457	0	0	0	0	50	0	410683	1	1	
PPP1R1B	1164935	239	28	10619	2800	0	0	0	0	50	1	371959	1	1	
PPP1R1C	197289	370	6	5880	1386	0	0	0	0	50	0	335426	1	1	
PPP1R2	762316	331	42	10913	2485	0	0	0	0	50	1	417144	1	1	
PPP1R3A	12173	914	-21	56175	14868	0	0	0	0	50	0	377279	1	1	
PPP1R3B	159748	526	23	14385	3717	0	0	0	0	50	0	406273	1	1	
PPP1R3C	276001	206	16	16009	4109	0	0	0	0	50	1	342657	1	1	
PPP1R3D	73597	856	-36	13993	4907	0	0	0	0	50	0	395423	1	1	
PPP1R3F	547555	NaN	25	37562	13132	0	0	0	0	50	3	404873	1	1	
PPP1R3G	NaN	NaN	NaN	16765	5852	0	0	0	0	50	2	785400	1	1	
PPP1R7	1363901	233	35	18753	4788	0	0	0	0	50	0	469693	1	1	
PPP1R8	717145	218	26	17598	5124	0	0	0	0	50	0	527191	1	1	
PPP1R9A	419387	534	-15	70399	18326	0	0	0	0	50	0	424144	1	1	
PPP1R9B	1277832	210	26	39648	12600	0	0	0	0	50	0	469189	1	1	
PPP2CA	838413	147	48	15764	4270	0	0	0	0	50	1	453789	1	1	
PPP2CB	365415	346	28	15764	4270	0	0	0	0	50	0	429107	1	1	
PPP2R1A	478211	896	-38	29442	8904	0	0	0	0	50	1	355971	1	1	
PPP2R1B	436031	242	25	34118	9751	0	0	0	0	50	1	353682	1	1	
PPP2R2A	194762	353	13	24185	5656	0	0	0	0	50	0	407148	1	1	
PPP2R2B	309460	509	1	25424	6160	0	0	0	0	50	0	496321	1	1	
PPP2R2C	480192	540	50	24248	6202	0	0	0	0	50	1	352408	1	1	
PPP2R2D	123624	470	-21	21721	5327	0	0	0	0	50	0	446754	1	1	
PPP2R3A	181711	590	2	60690	15645	0	0	0	0	50	0	407463	1	1	
PPP2R3B	NaN	NaN	NaN	29120	8176	0	0	0	0	50	2	787724	1	1	
PPP2R3C	640994	321	45	24045	5565	0	0	0	0	50	1	392875	1	1	
PPP2R4	1440213	206	34	18620	4837	0	0	0	0	50	0	533127	1	1	
PPP2R5A	485902	298	16	25445	6244	0	0	0	0	50	0	392693	1	1	
PPP2R5B	3184873	209	57	25123	7259	0	0	0	0	50	0	413854	1	1	
PPP2R5C	1400431	346	28	33880	8498	0	0	0	0	50	0	389970	1	1	
PPP2R5D	1200368	259	40	31101	8190	0	0	0	0	50	0	446481	1	1	
PPP2R5E	237658	445	20	24521	6055	0	0	0	0	50	0	448987	1	1	
PPP3CA	84583	574	5	27104	6874	0	0	0	0	50	1	480830	1	1	
PPP3CB	966152	220	40	27195	7035	0	0	0	0	50	0	455903	1	1	
PPP3CC	701231	142	41	26537	6874	0	0	0	0	50	2	423143	1	1	
PPP3R1	204289	594	23	9156	2037	0	0	0	0	50	0	422737	1	1	
PPP3R2	112839	1008	-11	8743	2261	0	0	0	0	50	0	432782	1	1	
PPP4C	NaN	NaN	NaN	15820	4256	0	0	0	0	50	2	783804	1	1	
PPP4R1	454636	202	51	48685	12824	0	0	0	0	50	0	380072	1	1	
PPP4R2	128046	483	17	21714	5334	0	0	0	0	50	0	396207	1	1	
PPP4R4	204538	714	17	46613	12040	0	0	0	0	50	0	380471	1	1	
PPP5C	1079866	357	39	25956	6594	0	0	0	0	50	0	354466	1	1	

PPP6C	951081	168	46	17430	4767	0	0	0	0	50	0	420378	1	1	
PPPDE1	718652	540	-1	9933	2688	0	0	0	0	50	0	444640	1	1	
PPPDE2	1471218	183	58	8582	2527	0	0	0	0	50	0	390474	1	1	
PPRC1	1029829	187	42	79443	26586	0	0	0	0	50	1	462140	1	1	
PPT1	873408	387	23	15869	4144	0	0	0	0	50	0	547267	1	1	
PPT2	2119974	392	28	15715	4445	0	0	0	0	50	0	467467	1	1	
PPTC7	890955	144	38	15190	4445	0	0	0	0	50	1	409325	1	1	
PPWD1	424356	444	25	33166	8477	0	0	0	0	50	0	478898	1	1	
PPY	920082	241	29	4718	1540	0	0	0	0	50	1	343385	1	1	
PPYR1	NaN	NaN	NaN	18137	5635	0	0	0	0	50	2	785183	1	1	
PQBP1	834040	NaN	38	13741	3647	0	0	0	0	50	0	294833	1	1	
PQLC1	361911	444	7	13643	3913	0	0	0	0	50	0	359352	1	1	
PQLC2	810462	448	40	14420	4564	0	0	0	0	50	0	333382	1	1	
PQLC3	491115	255	25	10248	3045	0	0	0	0	50	1	366268	1	1	
PRAC	873680	509	26	2905	875	0	0	0	0	36	0	203490	1	1	
PRAF2	833689	NaN	41	8477	3010	0	0	0	0	50	0	426979	1	1	
PRAM1	726124	214	1	32844	10164	0	0	0	0	50	0	441532	1	1	
PRAME	190814	641	23	25137	7413	0	0	0	0	50	0	388206	1	1	
PRAMEF1	141239	571	18	23478	6741	0	0	0	0	50	0	346087	1	1	
PRAMEF10	118495	792	12	23534	6685	0	0	0	0	50	0	358736	1	1	
PRAMEF11	NaN	NaN	NaN	21651	6048	0	0	0	0	50	2	785596	1	1	
PRAMEF12	141239	571	18	23520	7182	0	0	0	0	50	0	346087	1	1	
PRAMEF13	NaN	NaN	NaN	23499	6678	0	0	0	0	50	2	786226	1	1	
PRAMEF14	NaN	NaN	NaN	43806	12516	0	0	0	0	50	2	792064	1	1	
PRAMEF15	NaN	NaN	NaN	47348	13510	0	0	0	0	50	2	793058	1	1	
PRAMEF16	NaN	NaN	NaN	23492	6643	0	0	0	0	50	2	786191	1	1	
PRAMEF17	NaN	NaN	NaN	23541	6636	0	0	0	0	50	2	786184	1	1	
PRAMEF18	NaN	NaN	NaN	47138	13762	0	0	0	0	50	2	793310	1	1	
PRAMEF19	NaN	NaN	NaN	47138	13762	0	0	0	0	50	2	793310	1	1	
PRAMEF2	118495	792	12	23464	6713	0	0	0	0	50	0	358736	1	1	
PRAMEF20	NaN	NaN	NaN	46942	13706	0	0	0	0	50	2	793254	1	1	
PRAMEF21	61945	NaN	7	46942	13706	0	0	0	0	50	0	514248	1	1	
PRAMEF22	NaN	NaN	NaN	47257	13853	0	0	0	0	50	2	793401	1	1	
PRAMEF3	NaN	NaN	NaN	23632	6944	0	0	0	0	50	2	786492	1	1	
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PRAMEF5	NaN	NaN	NaN	47180	13426	0	0	0	0	50	2	792974	1	1	
PRAMEF6	NaN	NaN	NaN	47138	13468	0	0	0	0	50	2	793016	1	1	
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PRAMEF8	62200	792	6	69720	20811	0	0	0	0	38	0	313264	1	1	
PRAMEF9	60626	NaN	8	47348	13510	0	0	0	0	50	0	519687	1	1	
PRAP1	386585	472	13	7854	2100	0	0	0	0	50	0	387611	1	1	
PRB1	175992	673	-18	15834	5376	0	0	0	0	50	0	525868	1	1	
PRB2	175992	673	-18	19593	6972	0	0	0	0	50	0	525868	1	1	
PRB3	311837	673	-1	14756	5152	0	0	0	0	50	0	322994	1	1	
PRC1	753718	413	31	32200	8099	0	0	0	0	50	0	450373	1	1	
PRCD	1016866	197	24	2940	798	0	0	0	0	3	0	10374	1	1	
PRCP	306726	371	-6	26271	7119	0	0	0	0	50	0	409227	1	1	
PRDM1	162338	278	44	41174	11599	0	0	0	0	50	0	388563	1	1	
PRDM10	631721	248	1	59227	16310	0	0	0	0	50	0	431886	1	1	
PRDM11	145644	592	14	25802	7042	0	0	0	0	50	0	392602	1	1	

PRDM12	505506	211	24	18109	5453	0	0	0	0	50	0	403732	1	1	
PRDM13	225399	799	2	33474	11382	0	0	0	0	50	0	433832	1	1	
PRDM14	268840	727	10	28798	7826	0	0	0	0	50	0	405720	1	1	
PRDM15	279380	366	35	76937	20671	0	0	0	0	50	1	321181	1	1	
PRDM16	248448	632	16	63595	18242	0	0	0	0	50	1	525392	1	1	
PRDM2	68342	892	25	86534	23863	0	0	0	0	50	0	439684	1	1	
PRDM4	119393	805	22	40313	11053	0	0	0	0	50	0	420868	1	1	
PRDM5	19279	961	-16	33376	7637	0	0	0	0	50	2	428666	1	1	
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PRDM7	822636	221	26	26236	5663	0	0	0	0	50	0	431522	1	1	
PRDM8	60915	903	-4	32963	10759	0	0	0	0	50	0	406875	1	1	
PRDX1	809450	176	25	10353	2667	0	0	0	0	50	0	430094	1	1	
PRDX2	1937827	226	32	12824	3703	0	0	0	0	50	1	414729	1	1	
PRDX3	789279	149	29	13076	3661	0	0	0	0	50	0	465115	1	1	
PRDX4	494082	NaN	35	13657	4067	0	0	0	0	50	0	421435	1	1	
PRDX5	1613996	257	65	10521	3444	0	0	0	0	50	0	419300	1	1	
PRDX6	426891	390	12	11277	3276	0	0	0	0	50	0	521990	1	1	
PREB	1214097	238	50	20552	6454	0	0	0	0	50	1	447195	1	1	
PRELID1	942017	227	53	11102	3094	0	0	0	0	50	1	389921	1	1	
PRELID2	342210	568	-3	10185	2457	0	0	0	0	50	0	328559	1	1	
PRELP	529605	314	28	18550	5747	0	0	0	0	50	0	400750	1	1	
PREP	105381	510	12	36736	9233	0	0	0	0	50	0	483882	1	1	
PREPL	433205	522	29	37709	9352	0	0	0	0	50	0	385007	1	1	
PREX1	752875	360	47	84812	23086	0	0	0	0	50	2	461475	1	1	
PREX2	14825	990	1	87458	21910	0	0	0	0	50	0	369712	1	1	
PRF1	549339	573	40	26649	8631	0	0	0	0	50	2	463750	1	1	
PRG2	923815	191	-3	11368	3101	0	0	0	0	50	1	353164	1	1	
PRG3	923815	191	-3	11683	3017	0	0	0	0	50	1	353164	1	1	
PRG4	265627	419	-24	67725	21840	0	0	0	0	50	0	528374	1	1	
PRH1	NaN	NaN	NaN	8365	2576	0	0	0	0	50	2	782124	1	1	
PRH2	NaN	NaN	NaN	8253	2583	0	0	0	0	50	2	782131	1	1	
PRHOXNB	309835	614	47	8295	2751	0	0	0	0	50	0	360311	1	1	
PRIC285	1178905	193	54	127001	41902	0	0	0	0	50	1	458269	1	1	
PRICKLE1	175176	650	6	42035	11032	0	0	0	0	50	0	358449	1	1	
PRICKLE2	163412	502	3	42385	11438	0	0	0	0	50	1	354655	1	1	
PRICKLE3	724395	NaN	44	30527	8995	0	0	0	0	50	2	414680	1	1	
PRICKLE4	429684	341	47	19131	5628	0	0	0	0	50	0	385560	1	1	
PRIM1	2637730	154	47	22533	5040	0	0	0	0	50	1	531489	1	1	
PRIM2	177580	847	-16	26957	6433	0	0	0	0	50	0	395675	1	1	
PRIMA1	311378	676	19	7679	2359	0	0	0	0	50	1	486591	1	1	
PRKAA1	211936	496	-11	29358	7665	0	0	0	0	50	0	403193	1	1	
PRKAA2	39631	514	-5	28077	7476	0	0	0	0	50	0	453355	1	1	
PRKAB1	782827	498	17	13832	3745	0	0	0	0	50	1	354515	1	1	
PRKAB2	457805	737	33	14049	3738	0	0	0	0	50	0	381290	1	1	
PRKACA	1034381	321	36	18767	4711	0	0	0	0	50	0	434777	1	1	
PRKACB	205640	919	-13	21777	5397	0	0	0	0	50	0	371420	1	1	
PRKACG	168122	498	36	17346	4872	0	0	0	0	50	1	401576	1	1	
PRKAG1	1754222	212	60	17269	4697	0	0	0	0	50	0	492912	1	1	
PRKAG2	600611	437	20	29029	8141	0	0	0	0	50	0	440349	1	1	
PRKAG3	1077853	296	40	24521	7399	0	0	0	0	50	0	491456	1	1	

PRKAR1A	662487	313	-28	19579	5327	0	0	0	0	50	1	423906	1	1	
PRKAR1B	543988	401	7	19390	5516	0	0	0	0	50	1	489188	1	1	
PRKAR2A	1694388	196	44	20818	5537	0	0	0	0	50	0	425397	1	1	
PRKAR2B	231025	644	17	21483	5754	0	0	0	0	50	0	422177	1	1	
PRKCA	206987	603	-27	35147	8638	0	0	0	0	50	1	545069	1	1	
PRKCB	513265	610	21	37737	9324	0	0	0	0	50	0	344995	1	1	
PRKCD	845193	192	46	35287	8792	0	0	0	0	50	1	441294	1	1	
PRKCDBP	444453	625	-7	12215	4417	0	0	0	0	50	1	321986	1	1	
PRKCE	172588	465	32	37674	9996	0	0	0	0	50	0	470792	1	1	
PRKCG	831741	360	-41	35420	9982	0	0	0	0	50	0	395115	1	1	
PRKCH	312210	434	11	34923	9261	0	0	0	0	50	0	426979	1	1	
PRKCI	361822	270	18	31458	7581	0	0	0	0	50	1	456918	1	1	
PRKCQ	235334	561	7	37107	8862	0	0	1	0	50	1	451773	1	1	
PRKCSH	1255985	265	32	28084	7112	0	0	0	0	50	2	364000	1	1	
PRKCZ	1013925	293	28	30954	7833	0	0	0	0	50	0	424375	1	1	
PRKD1	23615	1041	-39	46459	12488	0	0	0	0	50	0	473088	1	1	
PRKD2	1153249	224	32	43869	12936	0	0	1	0	50	1	405426	1	1	
PRKD3	482178	231	38	45605	11956	0	0	0	0	50	0	361032	1	1	
PRKDC	902699	459	27	211470	55818	0	0	0	0	9	0	91441	1	1	
PRKG1	75025	995	-15	40061	10276	0	0	0	0	50	0	406371	1	1	
PRKG2	10566	894	-1	39319	10220	0	0	0	0	50	0	431634	1	1	
PRKRA	159623	482	29	16723	4277	0	0	0	0	50	0	470757	1	1	
PRKRIP1	579276	202	61	9723	2394	0	0	0	0	50	0	363090	1	1	
PRKRIR	234429	366	57	38220	10122	0	0	0	0	50	0	397873	1	1	
PRKX	104714	NaN	11	18361	4928	0	0	0	0	50	0	410396	1	1	
PRL	13319	831	-2	11494	3290	0	0	0	0	50	0	437395	1	1	
PRLH	492799	440	11	4137	1470	0	0	0	0	50	1	466151	1	1	
PRLHR	613868	617	8	17185	6272	0	0	0	0	50	0	387310	1	1	
PRLR	247066	854	17	31465	8456	0	0	0	0	50	1	374549	1	1	
PRM1	632841	308	37	2723	679	0	0	0	0	19	0	144914	1	1	
PRM2	632841	308	37	5180	1393	0	0	0	0	50	0	431361	1	1	
PRM3	632841	308	37	5103	1386	0	0	0	0	50	0	431361	1	1	
PRMT1	1733181	195	36	19411	4907	0	0	0	0	50	1	446607	1	1	
PRMT10	71970	263	20	42896	11326	0	0	0	0	50	0	385812	1	1	
PRMT2	530282	377	28	22288	5894	0	0	0	0	50	1	415870	1	1	
PRMT3	162124	694	-1	28175	6601	0	0	0	0	50	0	405447	1	1	
PRMT5	1177534	225	34	33670	9191	0	0	0	0	50	1	318059	1	1	
PRMT6	75609	921	-16	17941	5789	0	0	0	0	50	0	398174	1	1	
PRMT7	819579	281	46	35567	9562	0	0	0	0	50	0	472717	1	1	
PRMT8	227736	768	15	20517	5124	0	0	0	0	50	1	374339	1	1	
PRND	477570	485	26	8820	2415	0	0	0	0	50	0	443828	1	1	
PRNP	556280	447	11	12684	3486	0	0	0	0	50	0	433272	1	1	
PROC	443349	175	30	23583	6195	0	0	0	0	50	1	404558	1	1	
PROCA1	1695792	208	40	17031	4494	0	0	0	0	50	0	501767	1	1	
PROCR	1346435	168	46	11655	3654	0	0	0	0	50	0	457527	1	1	
PRODH	513620	343	5	30156	8841	0	0	0	0	50	0	460404	1	1	
PRODH2	1105613	321	38	26236	8519	0	0	0	0	50	0	379484	1	1	
PROK1	403650	479	31	5334	1554	0	0	0	0	50	0	376180	1	1	
PROK2	86859	605	6	6573	1869	0	0	0	0	50	0	407799	1	1	
PROKR1	260004	596	12	19215	5649	0	0	0	0	50	0	359723	1	1	

PROKR2	504598	489	14	18844	5474	0	0	0	0	50	0	436408	1	1	
PROL1	264684	915	25	11851	4004	0	0	0	0	50	0	342755	1	1	
PROM1	174831	435	37	44842	11900	0	0	0	0	50	1	430598	1	1	
PROM2	238302	558	8	41692	12845	0	0	0	0	50	1	450688	1	1	
PROP1	961008	363	32	10934	3535	0	0	0	0	50	0	368718	1	1	
PROS1	79315	1341	-10	34832	8995	0	0	0	0	50	2	477204	1	1	
PROSC	651180	379	15	14154	3864	0	0	0	0	50	0	413231	1	1	
PROX1	347543	799	-22	36729	10101	0	0	0	0	50	0	303961	1	1	
PROX2	884998	232	41	28973	8638	0	0	0	0	50	0	516810	1	1	
PROZ	759371	229	38	20293	5600	0	0	0	0	50	0	446110	1	1	
PRPF18	234408	635	32	17927	4438	0	0	0	0	50	0	303345	1	1	
PRPF19	794900	522	47	25795	7280	0	0	0	0	50	1	430885	1	1	
PRPF3	1301004	182	34	34888	9464	0	0	0	0	50	0	446033	1	1	
PRPF31	735613	439	-53	25438	7154	0	0	0	0	50	0	578004	1	1	
PRPF38A	815523	448	26	16380	4095	0	0	0	0	50	0	461433	1	1	
PRPF38B	743461	225	9	27734	7147	0	0	0	0	50	0	474257	1	1	
PRPF39	234083	565	14	35014	8288	0	0	0	0	50	0	453341	1	1	
PRPF4	426351	312	26	26901	7182	0	0	0	0	50	0	362719	1	1	
PRPF40A	285742	716	16	49140	11655	0	0	0	0	50	1	412783	1	1	
PRPF40B	2010227	265	53	44863	12131	0	0	0	0	50	0	414708	1	1	
PRPF6	1152034	208	48	47817	13209	0	0	0	0	50	0	472836	1	1	
PRPF8	1361271	198	27	118741	31955	0	0	0	0	50	0	404572	1	1	
PRPH	2154742	171	49	23373	7014	0	0	0	0	50	0	393323	1	1	
PRPH2	975176	194	36	17199	4830	0	0	0	0	50	0	464387	1	1	
PRPS1	226650	NaN	57	16128	4473	0	0	0	0	50	0	476350	1	1	
PRPS1L1	89480	675	-1	15638	4543	0	0	0	0	50	0	406644	1	1	
PRPS2	208595	NaN	46	16198	4592	0	0	0	0	50	0	487382	1	1	
PRPSAP1	1622536	209	24	19453	5621	0	0	0	0	50	0	471408	1	1	
PRPSAP2	792064	224	1	19033	5117	0	0	0	0	50	0	405853	1	1	
PRR11	834161	507	4	18242	5257	0	0	0	0	50	1	332584	1	1	
PRR12	1906661	195	38	95543	33880	0	0	0	0	50	0	470085	1	1	
PRR13	1712232	191	56	7511	2128	0	0	0	0	50	0	443086	1	1	
PRR14	2255010	158	60	28245	9639	0	0	0	0	50	0	455609	1	1	
PRR15	313344	579	-1	6272	1918	0	0	0	0	50	0	328125	1	1	
PRR15L	1183803	203	21	5180	1456	0	0	0	0	50	0	420252	1	1	
PRR16	8721	1054	-19	13594	4340	0	0	0	0	50	1	428302	1	1	
PRR18	199596	556	18	13349	5299	0	0	0	0	50	0	329462	1	1	
PRR19	792230	218	42	16940	5761	0	0	0	0	50	0	481950	1	1	
PRR20A	NaN	NaN	NaN	52710	18060	0	0	0	0	50	2	797608	1	1	
PRR20B	NaN	NaN	NaN	52710	18060	0	0	0	0	50	2	797608	1	1	
PRR20C	NaN	NaN	NaN	52710	18060	0	0	0	0	50	2	797608	1	1	
PRR20D	NaN	NaN	NaN	52710	18060	0	0	0	0	50	2	797608	1	1	
PRR20E	NaN	NaN	NaN	52710	18060	0	0	0	0	50	2	797608	1	1	
PRR21	315906	569	21	17969	6580	0	0	0	0	50	0	479542	1	1	
PRR22	990266	225	26	20020	6839	0	0	0	0	50	0	420105	1	1	
PRR23A	NaN	NaN	NaN	12383	4438	0	0	0	0	50	2	783986	1	1	
PRR23B	336415	520	11	12271	4487	0	0	0	0	50	0	389340	1	1	
PRR23C	NaN	NaN	NaN	12285	4284	0	0	0	0	50	2	783832	1	1	
PRR24	NaN	NaN	NaN	6454	2597	0	0	0	0	50	2	782145	1	1	
PRR25	1187310	273	39	18473	7063	0	0	0	0	50	0	458171	1	1	

PRR3	2080582	271	32	9380	2779	0	0	0	0	50	0	425362	1	1	
PRR4	365490	676	5	8610	2478	0	0	0	0	50	0	390369	1	1	
PRR5	320559	447	36	19054	6041	0	0	0	0	50	1	352667	1	1	
PRR5-ARHGAP8	310964	487	28	28637	8134	0	0	0	0	50	1	430864	1	1	
PRR5L	196876	169	-1	18522	5397	0	0	0	0	50	1	363748	1	1	
PRR7	1038665	261	59	13055	4354	0	0	0	0	50	1	460180	1	1	
PRRC1	210691	763	12	21679	7091	0	0	0	0	50	0	415688	1	1	
PRRG1	81601	NaN	3	12355	3374	0	0	0	0	50	2	538405	1	1	
PRRG2	2080142	210	41	10129	3164	0	0	0	0	50	0	429324	1	1	
PRRG3	125659	NaN	4	11438	3430	0	0	0	0	50	1	347844	1	1	
PRRG4	392152	375	10	11480	3241	0	0	0	0	50	0	542920	1	1	
PRRT1	2119974	392	28	14322	5271	0	0	0	0	50	0	467467	1	1	
PRRT2	NaN	NaN	NaN	16331	5404	0	0	0	0	50	2	784952	1	1	
PRRT4	NaN	NaN	NaN	42014	15022	0	0	0	0	50	2	794570	1	1	
PRRX1	61224	921	-7	13223	3850	0	0	0	0	50	0	466046	1	1	
PRRX2	702852	198	42	12250	4004	0	0	0	0	50	1	445928	1	1	
PRSS1	285408	636	11	12558	3486	0	0	0	0	50	0	476168	1	1	
PRSS12	161497	917	1	43848	12390	0	0	0	0	50	1	347998	1	1	
PRSS16	161388	645	24	25193	8218	0	0	0	0	50	0	407379	1	1	
PRSS2	NaN	NaN	NaN	6664	1988	0	0	0	0	50	2	781536	1	1	
PRSS21	1717244	210	42	15715	4550	0	0	0	0	50	0	473984	1	1	
PRSS22	1537882	210	47	15603	4893	0	0	0	0	50	0	401779	1	1	
PRSS23	230637	198	-7	18879	5397	0	0	0	0	50	0	402920	1	1	
PRSS27	1803069	200	47	14476	4277	0	0	0	0	50	0	379925	1	1	
PRSS3	912856	220	33	15785	4732	0	0	0	0	50	2	375333	1	1	
PRSS33	1717244	210	42	13377	4746	0	0	0	0	50	0	473984	1	1	
PRSS35	185011	557	-30	20489	5677	0	0	0	0	50	1	488383	1	1	
PRSS37	199781	856	-13	12061	3143	0	0	0	0	50	0	451178	1	1	
PRSS38	672760	406	5	15988	4949	0	0	0	0	50	0	326662	1	1	
PRSS41	NaN	NaN	NaN	15498	4914	0	0	0	0	50	2	784462	1	1	
PRSS42	413835	495	38	14574	4263	0	0	0	0	50	0	345149	1	1	
PRSS45	298503	495	41	11508	3171	0	0	0	0	50	0	373058	1	1	
PRSS48	203766	298	16	16275	4746	0	0	0	0	50	0	300321	1	1	
PRSS50	298503	495	41	19047	5733	0	0	0	0	50	0	373058	1	1	
PRSS53	1347539	227	37	27188	8554	0	0	0	0	50	0	442596	1	1	
PRSS54	742919	385	13	19880	5488	0	0	0	0	50	0	384034	1	1	
PRSS55	78691	633	3	17612	5047	0	0	0	0	50	1	393687	1	1	
PRSS8	1296884	351	35	16884	5208	0	0	0	0	50	1	440783	1	1	
PRSSL1	1832767	218	10	13643	4627	0	0	0	0	29	0	334362	1	1	
PRTFDC1	164255	142	18	12068	2884	0	0	0	0	50	0	390873	1	1	
PRTG	322073	254	-3	57575	16576	0	0	0	0	50	1	465388	1	1	
PRTN3	2168802	198	28	12523	4046	0	0	0	0	50	1	443968	1	1	
PRUNE	1617972	165	35	22484	6706	0	0	0	0	50	0	391657	1	1	
PRX	1008676	202	34	69258	24465	0	0	0	0	50	0	359205	1	1	
PRY	NaN	NaN	NaN	15050	4102	0	0	0	0	50	2	783650	1	1	
PRY2	NaN	NaN	NaN	15050	4102	0	0	0	0	50	2	783650	1	1	
PSAP	765338	182	40	27370	7133	0	0	0	0	50	0	337883	1	1	
PSAT1	248468	637	-20	18984	5103	0	0	0	0	50	0	513541	1	1	
PSCA	384374	412	23	5789	1666	0	0	0	0	50	0	459865	1	1	
PSD	975992	178	39	49658	16261	0	0	0	0	22	0	207074	1	1	

PSD2	714699	223	64	38507	11305	0	0	0	0	50	0	322434	1	1	
PSD3	129089	682	-9	53550	14469	0	0	0	0	50	0	581609	1	1	
PSD4	630071	479	37	52395	15456	0	0	0	0	50	0	494648	1	1	
PSEN1	474907	269	39	23828	6496	0	0	0	0	50	0	340830	1	1	
PSEN2	428197	373	1	22624	6503	0	0	0	0	50	0	349293	1	1	
PSENEN	1151198	321	30	5257	1421	0	0	0	0	50	0	375571	1	1	
PSG1	394104	283	-23	21749	6202	0	0	0	0	50	1	471597	1	1	
PSG11	263820	178	-32	16786	4802	0	0	0	0	50	0	387800	1	1	
PSG2	263820	178	-32	16765	4865	0	0	0	0	50	0	387800	1	1	
PSG3	386041	417	-19	21490	6041	0	0	0	0	50	0	370958	1	1	
PSG4	310387	125	-33	20958	5964	0	0	0	0	50	0	406252	1	1	
PSG5	307971	178	-25	16723	4865	0	0	0	0	50	0	419419	1	1	
PSG6	282702	238	-37	22351	6440	0	0	0	0	50	0	415534	1	1	
PSG7	282702	238	-37	20923	5999	0	0	0	0	50	0	415534	1	1	
PSG8	386041	417	-19	21637	6083	0	0	0	0	50	0	370958	1	1	
PSG9	312803	148	-41	21364	5999	0	0	0	0	50	0	442960	1	1	
PSIP1	200332	583	6	28581	6657	0	0	0	0	50	1	408289	1	1	
PSKH1	879834	158	50	20377	6566	0	0	0	0	50	2	467285	1	1	
PSKH2	191789	1214	-25	18900	5544	0	0	0	0	50	0	459494	1	1	
PSMA1	366243	381	-3	15036	3885	0	0	0	0	50	0	412496	1	1	
PSMA2	163131	744	-6	12138	3297	0	0	0	0	50	0	382193	1	1	
PSMA3	290719	552	26	13678	3332	0	0	0	0	50	0	429786	1	1	
PSMA4	505832	375	46	13839	3339	0	0	0	0	50	1	407995	1	1	
PSMA5	1073027	302	26	12677	3283	0	0	0	0	50	0	408177	1	1	
PSMA6	452722	188	40	12754	3311	0	0	0	0	50	1	352380	1	1	
PSMA7	861466	288	-13	12684	3507	0	0	0	0	50	1	378336	1	1	
PSMA8	168448	577	57	13223	3472	0	0	0	0	50	0	325640	1	1	
PSMB1	425191	598	-16	12257	3472	0	0	0	0	50	0	336686	1	1	
PSMB10	879834	158	50	13468	4466	0	0	0	0	50	2	467285	1	1	
PSMB11	1261207	185	41	14217	4788	0	0	0	0	50	0	424186	1	1	
PSMB2	1113527	325	34	10339	2807	0	0	0	0	50	0	346801	1	1	
PSMB3	1198833	207	37	10647	2835	0	0	0	0	50	1	357490	1	1	
PSMB4	1322568	174	42	13321	3920	0	0	0	0	50	0	459634	1	1	
PSMB5	1251074	185	39	14301	4368	0	0	0	0	50	0	426153	1	1	
PSMB6	1368906	195	28	11949	3675	0	0	0	0	50	0	387198	1	1	
PSMB7	492165	406	37	14042	4102	0	0	0	0	50	0	445991	1	1	
PSMB8	1253457	401	26	15967	4823	0	0	0	0	50	0	374913	1	1	
PSMB9	1253457	401	26	10927	3395	0	0	0	0	50	0	374913	1	1	
PSMC1	318736	622	14	22624	6041	0	0	0	0	50	1	472563	1	1	
PSMC2	355264	620	17	22463	5845	0	0	0	0	50	1	408835	1	1	
PSMC3	1022438	245	47	22533	6153	0	0	0	0	50	1	469623	1	1	
PSMC3IP	1884163	177	38	11725	2681	0	0	0	0	50	0	468503	1	1	
PSMC4	1335888	522	35	21483	5796	0	0	0	0	50	1	551698	1	1	
PSMC5	1446139	380	27	20818	5831	0	0	0	0	50	0	368599	1	1	
PSMC6	314095	313	11	21168	5376	0	0	0	0	50	0	387219	1	1	
PSMD1	1175473	345	36	49315	12803	0	0	0	0	50	1	400281	1	1	
PSMD10	201673	NaN	25	11508	3171	0	0	0	0	50	0	376985	1	1	
PSMD11	657957	438	15	21917	5824	0	0	0	0	50	0	377685	1	1	
PSMD12	486488	285	-1	23695	5978	0	0	0	0	50	0	473781	1	1	
PSMD13	1463610	437	24	21126	5334	0	0	0	0	50	0	358533	1	1	

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PSMD14	210764	520	13	16345	4088	0	0	0	0	50	0	438025	1	1	
PSMD2	1447013	268	44	45857	13132	0	0	0	0	50	1	551999	1	1	
PSMD3	1652518	216	28	26922	7707	0	0	0	0	50	0	446271	1	1	
PSMD4	1256374	184	31	19257	5355	0	0	0	0	50	0	421988	1	1	
PSMD5	645542	212	30	25249	7364	0	0	0	0	50	1	324674	1	1	
PSMD6	161890	582	19	19992	5208	0	0	0	0	50	0	350539	1	1	
PSMD7	459751	433	-7	16751	4228	0	0	0	0	50	0	442043	1	1	
PSMD8	1467279	253	0	17451	5208	0	0	0	0	50	1	393015	1	1	
PSMD9	831519	195	45	11459	3073	0	0	0	0	50	0	391986	1	1	
PSME1	974559	220	41	14672	3682	0	0	0	0	50	2	483035	1	1	
PSME2	974559	220	41	12838	3206	0	0	0	0	50	2	483035	1	1	
PSME3	1633092	190	33	14210	3514	0	0	0	0	50	0	400561	1	1	
PSME4	238848	489	9	95025	25053	0	0	0	0	50	0	397551	1	1	
PSMF1	524116	527	14	13678	4046	0	0	0	0	50	0	396060	1	1	
PSMG1	383292	235	30	14763	3948	0	0	0	0	50	0	506842	1	1	
PSMG2	434233	206	35	13531	3710	0	0	0	0	50	0	401037	1	1	
PSMG3	547999	271	44	6048	1869	0	0	0	0	50	1	366688	1	1	
PSMG4	NaN	NaN	NaN	9261	2667	0	0	0	0	50	2	782215	1	1	
PSORS1C1	3178076	283	21	7714	2261	0	0	0	0	50	0	414071	1	1	
PSORS1C2	3364017	401	19	6559	2156	0	0	0	0	50	0	292061	1	1	
PSPC1	309425	481	34	26425	7259	0	0	0	0	50	0	366849	1	1	
PSPH	749444	642	7	11459	3199	0	0	0	0	50	0	443912	1	1	
PSPN	943949	407	31	7252	2702	0	0	0	0	50	0	355579	1	1	
PSRC1	988224	302	29	18452	4543	0	0	0	0	50	0	433440	1	1	
PSTK	274189	673	11	17773	4697	0	0	0	0	50	0	370468	1	1	
PSTPIP1	327336	436	33	21777	5670	0	0	0	0	50	1	408695	1	1	
PSTPIP2	386983	300	54	18298	4025	0	0	0	0	50	1	382123	1	1	
PTAFR	794194	213	28	16807	4886	0	0	0	0	50	0	482020	1	1	
PTAR1	288169	640	-11	20468	5551	0	0	0	0	50	0	452781	1	1	
PTBP1	2041736	198	25	28196	8134	0	0	0	0	50	2	433391	1	1	
PTBP2	334207	676	-16	27069	7539	0	0	0	0	50	0	306397	1	1	
PTCD1	1327454	288	60	34293	10458	0	0	0	0	50	0	338653	1	1	
PTCD2	421218	342	27	20076	5229	0	0	0	0	50	0	402353	1	1	
PTCD3	971062	420	46	36617	8869	0	0	0	0	50	0	507752	1	1	
PTCH1	186893	510	53	75222	22218	0	0	0	0	50	0	409710	1	1	
PTCH2	656648	191	36	58863	19173	0	0	0	0	50	1	430304	1	1	
PTCHD1	397667	NaN	-2	43589	12628	0	0	0	0	50	0	432306	1	1	
PTCHD2	759100	482	25	68173	21266	0	0	0	0	50	0	385182	1	1	
PTCHD3	345745	581	2	37716	10920	0	0	0	0	50	0	419251	1	1	
PTCRA	1086050	203	41	13272	4788	0	0	0	0	50	0	330211	1	1	
PTDSS1	219234	671	13	24738	6174	0	0	0	0	50	0	462182	1	1	
PTDSS2	2206786	344	58	24780	6888	0	0	0	0	50	0	474446	1	1	
PTEN	259678	300	34	21196	4928	0	0	0	0	50	0	358610	1	1	
PTER	104989	791	-7	17472	4914	0	0	0	0	50	0	389956	1	1	
PTF1A	124603	469	1	15491	5320	0	0	0	0	50	1	383327	1	1	
PTGDR	405022	533	18	17010	5796	0	0	0	0	50	0	523593	1	1	
PTGDS	1979517	188	34	9814	2723	0	0	0	0	50	1	413833	1	1	
PTGER1	954144	204	43	18200	7399	0	0	0	0	50	2	438277	1	1	
PTGER2	405022	533	18	16947	5754	0	0	0	0	50	0	523593	1	1	
PTGER3	130184	907	-19	23828	7294	0	0	0	0	50	0	431977	1	1	

PTGER4	210761	496	-8	23317	7658	0	0	0	0	50	0	467271	1	1	
PTGES	600401	187	44	7476	2373	0	0	0	0	50	1	421176	1	1	
PTGES2	1898149	195	32	18585	5733	0	0	0	0	50	1	432509	1	1	
PTGES3	2757565	164	43	8974	1757	0	0	0	0	40	1	368144	1	1	
PTGFR	249935	671	-16	19208	5215	0	0	0	0	50	0	445438	1	1	
PTGFRN	760797	540	24	43106	13006	0	0	0	0	50	0	563227	1	1	
PTGIR	1139694	347	28	18158	6391	0	0	0	0	50	0	420014	1	1	
PTGIS	1117465	380	52	24990	7371	0	0	0	0	50	0	384202	1	1	
PTGR1	499818	309	16	17437	4760	0	0	0	0	50	0	365806	1	1	
PTGR2	502038	155	50	18193	4739	0	0	0	0	50	0	389550	1	1	
PTGS1	343200	635	27	30310	8330	0	0	0	0	50	0	479752	1	1	
PTGS2	275352	552	-19	30758	8113	0	0	0	0	50	1	515137	1	1	
PTH	264102	625	-6	5915	1561	0	0	0	0	17	0	169176	1	1	
PTH1R	442069	376	41	29827	8771	0	0	0	0	50	2	394709	1	1	
PTH2	2173457	290	44	4655	1876	0	0	0	0	50	0	390320	1	1	
PTH2R	221399	671	0	28231	7490	0	0	0	0	50	0	376033	1	1	
PTHLH	315469	581	-4	8848	2660	0	0	0	0	50	0	299124	1	1	
PTK2	466681	356	35	55993	14336	0	0	0	0	50	0	362719	1	1	
PTK2B	326685	491	30	52297	13853	0	0	0	0	50	1	392133	1	1	
PTK6	1262904	298	54	22603	6503	0	0	0	0	50	0	369817	1	1	
PTK7	1273888	301	39	53627	15442	0	0	0	0	50	1	517146	1	1	
PTMA	1003689	202	24	6153	1239	0	0	0	0	4	0	24549	1	1	
PTMS	2816186	232	48	5635	1190	0	0	0	0	4	0	22176	1	1	
PTN	189251	879	-26	8834	2128	0	0	0	0	50	1	397474	1	1	
PTOV1	1673246	205	37	20867	6328	0	0	0	0	50	0	414190	1	1	
PTP4A1	256545	154	15	8946	2352	0	0	0	0	50	1	356013	1	1	
PTP4A2	1200691	128	37	8890	2030	0	0	0	0	50	1	509124	1	1	
PTP4A3	170603	382	51	8813	2485	0	0	0	0	50	0	374276	1	1	
PTPDC1	449197	349	25	41629	11774	0	0	0	0	50	0	323953	1	1	
PTPLA	488883	383	4	14630	4123	0	0	0	0	50	1	359233	1	1	
PTPLAD1	602545	187	27	18970	4739	0	0	0	0	50	1	403536	1	1	
PTPLAD2	144026	601	5	12173	3052	0	0	0	0	50	1	365904	1	1	
PTPLB	306542	274	38	12922	3689	0	0	0	0	50	0	339689	1	1	
PTPMT1	1001413	219	34	12173	3010	0	0	0	0	50	0	356013	1	1	
PTPN1	621979	153	51	22589	5635	0	0	0	0	50	1	347067	1	1	
PTPN11	704590	167	43	30947	7735	0	0	0	0	50	2	435505	1	1	
PTPN12	306142	489	24	40348	10325	0	0	0	0	50	0	474943	1	1	
PTPN14	464456	404	-8	59773	16499	0	0	0	0	50	0	404838	1	1	
PTPN18	369510	593	29	23373	6888	0	0	0	0	50	2	412419	1	1	
PTPN2	435935	152	46	21896	5488	0	0	0	0	50	2	321804	1	1	
PTPN20A	NaN	NaN	NaN	44954	10066	0	0	0	0	50	2	789614	1	1	
PTPN20B	157964	642	23	44954	10066	0	0	0	0	50	0	425691	1	1	
PTPN21	154907	686	-6	58653	16800	0	0	0	0	50	0	495509	1	1	
PTPN22	326668	406	15	42357	10668	0	0	0	0	50	1	426111	1	1	
PTPN23	866535	215	46	79912	25277	0	0	0	0	50	0	461370	1	1	
PTPN3	352374	431	12	47285	12397	0	0	0	0	50	0	447048	1	1	
PTPN4	346126	446	25	48342	12243	0	0	0	0	50	0	521486	1	1	
PTPN5	605685	562	26	28770	8064	0	0	0	0	50	0	445004	1	1	
PTPN6	2704950	211	47	33257	8890	0	0	0	0	50	1	523068	1	1	
PTPN7	649164	297	34	19978	5894	0	0	0	0	50	0	443576	1	1	

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PTPN9	669446	257	47	30177	8253	0	0	0	0	50	1	430899	1	1	
PTPRA	807310	396	46	41391	10962	0	0	0	0	50	2	538608	1	1	
PTPRB	159250	454	-26	112819	30821	0	0	0	0	50	0	521927	1	1	
PTPRC	100900	412	0	68208	16884	0	0	0	0	41	0	389746	1	1	
PTPRCAP	1392213	215	53	9646	3521	0	0	0	0	50	0	303898	1	1	
PTPRD	15780	1275	-26	97853	26971	0	0	0	0	50	0	416304	1	1	
PTPRE	424354	683	-15	37149	9429	0	0	0	0	50	0	307503	1	1	
PTPRF	996816	182	33	94668	28224	0	0	0	0	50	0	370181	1	1	
PTPRG	223467	890	7	73990	19544	0	0	0	0	50	0	404320	1	1	
PTPRH	1036194	199	2	55713	16233	0	0	0	0	50	1	332038	1	1	
PTPRJ	601164	223	-10	67354	19103	0	0	0	0	50	1	461195	1	1	
PTPRK	107062	714	4	73941	19740	0	0	0	0	5	0	40075	1	1	
PTPRM	66398	696	-17	74886	20160	0	0	0	0	50	0	473956	1	1	
PTPRN	694442	193	44	48384	15246	0	0	0	0	50	3	450387	1	1	
PTPRN2	248205	792	-33	50547	15309	0	0	0	0	50	2	463890	1	1	
PTPRO	367328	560	-14	62615	16240	0	0	0	0	50	0	391832	1	1	
PTPRQ	NaN	NaN	NaN	108661	28847	0	0	0	0	50	2	808395	1	1	
PTPRR	157760	458	-26	33530	9016	0	0	0	0	50	0	509908	1	1	
PTPRS	1002562	262	26	96992	28903	0	0	0	0	50	0	396088	1	1	
PTPRT	17956	1018	-72	73864	20783	0	0	0	0	50	0	326263	1	1	
PTPRU	365922	395	24	73017	21126	0	0	0	0	50	0	390187	1	1	
PTPRZ1	64760	971	-15	116221	32123	0	0	0	0	50	2	500486	1	1	
PTRF	2209303	160	31	18809	5908	0	0	0	0	50	0	462511	1	1	
PTRH1	1098647	172	32	10304	3661	0	0	0	0	50	0	354669	1	1	
PTRH2	1084897	398	21	8785	2597	0	0	0	0	50	0	389669	1	1	
PTS	383407	362	9	7791	1869	0	0	0	0	50	0	485947	1	1	
PTTG1	197504	619	30	10339	2912	0	0	0	0	50	0	397110	1	1	
PTTG1IP	690574	213	62	9345	2478	0	0	0	0	50	1	318213	1	1	
PTTG2	NaN	NaN	NaN	9268	2807	0	0	0	0	50	2	782355	1	1	
PTX3	NaN	NaN	NaN	18564	5670	0	0	0	0	50	2	785218	1	1	
PTX4	1254229	256	34	22204	7805	0	0	0	0	50	2	363286	1	1	
PUF60	2279638	229	25	27944	8302	0	0	0	0	50	0	534646	1	1	
PUM1	498145	189	36	59577	17094	0	0	0	0	50	0	371175	1	1	
PUM2	532255	184	29	53501	15232	0	0	0	0	50	1	468027	1	1	
PURA	830974	290	48	15547	4844	0	0	0	0	50	0	487410	1	1	
PURB	1107527	219	54	14987	4774	0	0	0	0	50	0	511315	1	1	
PURG	339429	549	-11	18935	5278	0	0	0	0	50	0	375354	1	1	
PUS1	383304	269	30	21126	6258	0	0	0	0	50	1	512351	1	1	
PUS10	635242	350	33	27874	6944	0	0	0	0	50	1	552678	1	1	
PUS3	611330	414	14	24206	6412	0	0	0	0	50	0	399581	1	1	
PUS7	403383	192	37	34314	8652	0	0	0	0	50	0	405447	1	1	
PUS7L	132735	558	-16	35987	8911	0	0	0	0	50	1	481873	1	1	
PUSL1	1744013	273	28	14889	4893	0	0	0	0	50	1	448280	1	1	
PVALB	1248441	537	35	5950	1379	0	0	0	0	7	0	48076	1	1	
PVR	749323	335	-51	21084	6405	0	0	0	0	50	0	355474	1	1	
PVRIG	1465817	204	59	15533	5404	0	0	0	0	50	0	368417	1	1	
PVRL1	744818	555	30	32641	9695	0	0	0	0	50	0	477386	1	1	
PVRL2	920101	196	-3	32382	10647	0	0	0	0	50	1	348103	1	1	
PVRL3	79394	878	-15	27202	7868	0	0	0	0	50	0	521374	1	1	
PVRL4	689033	250	23	24892	7973	0	0	0	0	50	0	374983	1	1	

PWP1	122461	805	19	26271	6573	0	0	0	0	50	0	398363	1	1	
PWP2	879237	219	61	46480	13202	0	0	0	0	50	1	372253	1	1	
PWWP2A	199338	417	21	38927	11767	0	0	0	0	50	0	380198	1	1	
PWWP2B	152612	271	-1	28231	9548	0	0	0	0	50	1	406833	1	1	
PXDN	55677	536	-18	73598	21532	0	0	0	0	10	0	120064	1	1	
PXDNL	62919	1068	-16	73143	20979	0	0	0	0	50	0	408625	1	1	
PXK	574675	218	36	30009	7938	0	0	0	0	50	0	460537	1	1	
PXMP2	724450	495	35	9716	3010	0	0	0	0	50	0	491813	1	1	
PXMP4	714390	161	56	10570	3101	0	0	0	0	50	1	393470	1	1	
PXN	1615004	187	57	29827	8393	0	0	0	0	50	0	477050	1	1	
PXT1	968861	146	41	7140	1617	0	0	0	0	50	1	525826	1	1	
PYCARD	1203752	478	17	9534	3024	0	0	0	0	50	0	317513	1	1	
PYCR1	3798594	211	19	16975	5495	0	0	0	0	50	1	363321	1	1	
PYCR2	923085	239	20	15736	4991	0	0	0	0	50	1	353304	1	1	
PYCRL	2183482	235	37	13867	4676	0	0	0	0	50	0	386120	1	1	
PYDC1	NaN	NaN	NaN	4368	1428	0	0	0	0	31	2	344911	1	1	
PYDC2	101042	886	13	4816	1316	0	0	0	0	50	0	420546	1	1	
PYGB	607993	348	-8	42994	11774	0	0	0	0	50	0	372708	1	1	
PYGL	388112	431	28	43554	11466	0	0	0	0	50	0	451374	1	1	
PYGM	2261775	230	61	42854	11851	0	0	0	0	50	0	455112	1	1	
PYGO2	1612870	224	35	19418	6391	0	0	0	0	50	0	363538	1	1	
PYHIN1	97254	914	6	25508	6832	0	0	0	0	50	1	345324	1	1	
PYROXD1	500770	836	-29	25942	6545	0	0	0	0	50	1	335377	1	1	
PYROXD2	142644	581	4	29288	8680	0	0	0	0	50	1	478982	1	1	
PYY	920082	241	29	4823	1561	0	0	0	0	50	1	343385	1	1	
PZP	352696	301	19	75320	21091	0	0	0	0	50	1	483798	1	1	
ProSAPiP1	909603	255	55	31962	10668	0	0	0	0	50	0	336644	1	1	
QARS	1898051	203	36	39725	11179	0	0	0	0	50	1	452060	1	1	
QDPR	271816	901	31	12341	3598	0	0	0	0	50	0	383544	1	1	
QKI	81134	1131	1	18984	5208	0	0	0	0	50	1	384741	1	1	
QPCT	495490	182	32	18200	5110	0	0	0	0	50	0	374850	1	1	
QPCTL	939821	180	44	18284	6349	0	0	0	0	50	1	364378	1	1	
QPRT	NaN	NaN	NaN	14168	4900	0	0	0	0	50	2	784448	1	1	
QRFP	727815	241	22	6440	2170	0	0	0	0	50	0	408555	1	1	
QRFPR	268761	809	-2	21679	5957	0	0	0	0	50	0	386127	1	1	
QRICH1	1848854	185	39	38591	11116	0	0	0	0	50	0	466487	1	1	
QRICH2	1650351	209	21	81753	24591	0	0	0	0	50	0	533848	1	1	
QRSL1	227264	174	40	26754	7413	0	0	0	0	50	0	331156	1	1	
QSER1	408746	172	23	85890	24402	0	0	0	0	50	0	493941	1	1	
QSOX1	440831	254	9	36883	11438	0	0	0	0	50	0	510188	1	1	
QSOX2	936497	244	40	34587	10416	0	0	0	0	50	0	538489	1	1	
QTRT1	2174644	224	32	20160	6132	0	0	0	0	50	0	470876	1	1	
QTRTD1	426794	504	26	21014	5866	0	0	0	0	50	0	553203	1	1	
R3HCC1	NaN	NaN	NaN	12600	3738	0	0	0	0	50	2	783286	1	1	
R3HDM1	561193	558	20	56140	15176	0	0	0	0	50	0	356293	1	1	
R3HDM2	1862761	172	55	49770	13587	0	0	0	0	50	0	361550	1	1	
R3HDML	813168	376	10	12824	3514	0	0	0	0	50	0	315406	1	1	
RAB10	591333	135	44	10507	2576	0	0	0	0	50	0	377601	1	1	
RAB11A	701874	296	36	11039	2968	0	0	0	0	50	0	423325	1	1	
RAB11B	726988	204	0	11095	3080	0	0	0	0	50	0	402640	1	1	

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RAB11FIP1	660779	379	37	62097	19257	0	0	0	0	50	0	508606	1	1	
RAB11FIP2	100461	912	-1	26019	6636	0	0	0	0	50	0	381269	1	1	
RAB11FIP3	1422744	207	37	37933	11207	0	0	0	0	50	0	561939	1	1	
RAB11FIP4	501371	307	30	32459	8911	0	0	0	0	50	0	412258	1	1	
RAB11FIP5	489748	460	18	31402	10136	0	0	0	0	50	0	347732	1	1	
RAB12	241286	451	11	12495	3360	0	0	0	0	50	0	425558	1	1	
RAB13	2028800	222	34	10780	2702	0	0	0	0	50	0	359492	1	1	
RAB14	611254	365	27	11424	2772	0	0	0	0	50	3	394597	1	1	
RAB15	521616	387	35	10836	2877	0	0	0	0	50	0	415793	1	1	
RAB17	492799	440	11	10815	3024	0	0	0	0	50	1	466151	1	1	
RAB18	313003	549	0	10843	2744	0	0	0	0	50	0	431459	1	1	
RAB19	359405	521	24	11011	3017	0	0	0	0	50	0	545566	1	1	
RAB1A	640694	343	41	10647	2751	0	0	0	0	50	0	447440	1	1	
RAB1B	2133752	236	53	10325	2863	0	0	0	0	50	0	481383	1	1	
RAB20	495660	278	39	11564	3325	0	0	0	0	50	0	365302	1	1	
RAB21	260669	431	-3	11641	3101	0	0	0	0	50	0	395689	1	1	
RAB22A	841935	330	18	10136	2653	0	0	0	0	50	0	371644	1	1	
RAB23	314024	348	23	12453	3045	0	0	0	0	50	0	443597	1	1	
RAB24	942017	227	53	10836	2688	0	0	0	0	50	1	389921	1	1	
RAB25	2005405	213	39	10640	3178	0	0	0	0	50	0	428029	1	1	
RAB26	1938163	224	40	12950	3913	0	0	0	0	50	0	417984	1	1	
RAB27A	212605	573	-20	11515	2891	0	0	0	0	50	0	433223	1	1	
RAB27B	105818	372	-13	11340	2877	0	0	0	0	50	2	451815	1	1	
RAB28	134712	704	22	14077	3437	0	0	0	0	10	0	85841	1	1	
RAB2A	234041	512	24	11249	2758	0	0	0	0	50	0	398440	1	1	
RAB2B	707390	470	30	11410	2933	0	0	0	0	50	1	465661	1	1	
RAB30	307557	285	13	10458	2730	0	0	0	0	50	1	387541	1	1	
RAB31	441061	148	43	10283	2569	0	0	0	0	50	2	345758	1	1	
RAB32	56448	901	-33	11326	3080	0	0	0	0	50	0	345261	1	1	
RAB33A	339869	NaN	58	11781	3297	0	0	0	0	50	0	340571	1	1	
RAB33B	392237	299	32	11452	3122	0	0	0	0	50	0	378784	1	1	
RAB34	1695792	208	40	17381	4816	0	0	0	0	50	0	501767	1	1	
RAB35	1564246	225	45	10983	2163	0	0	0	0	50	0	429513	1	1	
RAB36	261227	555	48	17122	4802	0	0	0	0	50	0	369061	1	1	
RAB37	929990	484	15	16464	4641	0	0	0	0	50	1	334537	1	1	
RAB38	149319	616	-15	10724	2842	0	0	0	0	50	0	479955	1	1	
RAB39	421657	536	15	10752	3108	0	0	0	0	50	0	379757	1	1	
RAB39B	371405	NaN	-13	10521	3045	0	0	0	0	50	1	417648	1	1	
RAB3A	1178047	210	43	11270	2947	0	0	0	0	50	0	438382	1	1	
RAB3B	701660	353	22	11151	3003	0	0	0	0	50	0	505176	1	1	
RAB3C	142186	420	9	11865	2877	0	0	0	0	50	0	390964	1	1	
RAB3D	1385739	197	31	11158	3038	0	0	0	0	50	0	437115	1	1	
RAB3GAP1	358477	577	26	50890	13475	0	0	0	0	50	1	457765	1	1	
RAB3GAP2	651142	476	4	71813	18865	0	0	0	0	50	0	369166	1	1	
RAB3IL1	1998419	212	69	19166	5719	0	0	0	0	50	0	542794	1	1	
RAB3IP	561550	488	-11	24738	6153	0	0	0	0	50	0	384846	1	1	
RAB40A	458015	NaN	22	13510	4088	0	0	0	0	50	0	374283	1	1	
RAB40AL	208589	NaN	36	13489	4130	0	0	0	0	50	1	317534	1	1	
RAB40B	855855	243	21	13769	4228	0	0	0	0	50	1	351316	1	1	
RAB40C	1115707	213	39	14238	4032	0	0	0	0	50	0	333676	1	1	

RAB41	215874	NaN	52	11739	2877	0	0	0	0	50	0	446005	1	1	
RAB42	816470	183	25	5131	1547	0	0	0	0	50	0	405496	1	1	
RAB43	1142757	352	44	10570	3017	0	0	0	0	50	1	375004	1	1	
RAB4A	285692	361	9	11459	2926	0	0	0	0	50	0	467306	1	1	
RAB4B	1157241	186	29	10941	3129	0	0	0	0	50	0	361473	1	1	
RAB5A	103261	609	-8	11116	2912	0	0	0	0	50	0	392623	1	1	
RAB5B	2080397	229	31	11137	2891	0	0	0	0	50	0	399000	1	1	
RAB5C	2150553	206	33	11060	3031	0	0	0	0	50	0	432299	1	1	
RAB6A	549152	224	37	12838	3227	0	0	0	0	50	0	433524	1	1	
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RAB6C	342211	671	4	12425	3640	0	0	0	0	50	0	385679	1	1	
RAB7A	1090310	277	54	10759	2765	0	0	0	0	50	0	422009	1	1	
RAB7L1	717622	377	37	10500	2688	0	0	0	0	50	0	495082	1	1	
RAB8A	761374	298	42	10976	2716	0	0	0	0	50	1	369691	1	1	
RAB8B	451708	214	44	10997	2737	0	0	0	0	50	1	348733	1	1	
RAB9A	135235	NaN	48	10122	2688	0	0	0	0	50	0	392154	1	1	
RAB9B	472103	NaN	26	10129	2681	0	0	0	0	50	0	499289	1	1	
RABAC1	1150724	438	33	9240	2856	0	0	0	0	50	1	431144	1	1	
RABEP1	1246822	382	24	44751	11046	0	0	0	0	50	0	422870	1	1	
RABEP2	1189140	257	55	28245	8715	0	0	0	0	50	0	432040	1	1	
RABEPK	951081	168	46	18851	5236	0	0	0	0	50	0	420378	1	1	
RABGAP1	340132	482	34	55419	14091	0	0	0	0	50	0	336700	1	1	
RABGAP1L	235125	938	7	44317	11165	0	0	0	0	50	0	439208	1	1	
RABGEF1	539697	302	55	25445	6223	0	0	0	0	50	0	335265	1	1	
RABGGTA	915114	220	38	28532	8638	0	0	0	0	50	1	414449	1	1	
RABGGTB	152545	578	-9	17220	4410	0	0	0	0	50	0	406714	1	1	
RABIF	422793	318	28	6167	1771	0	0	0	0	50	0	404607	1	1	
RABL2A	522522	603	16	12327	2856	0	0	0	0	50	0	387016	1	1	
RABL2B	266017	295	32	12873	3003	0	0	0	0	50	0	400652	1	1	
RABL3	307936	475	10	12320	3241	0	0	0	0	50	0	420854	1	1	
RABL5	838595	278	46	9800	2359	0	0	0	0	50	0	512218	1	1	
RAC1	NaN	NaN	NaN	10815	3045	0	0	0	0	50	2	782593	1	1	
RAC2	845055	230	67	9835	2828	0	0	0	0	50	1	334915	1	1	
RAC3	3814891	211	28	9695	2884	0	0	0	0	50	1	350889	1	1	
RACGAP1	1018478	211	52	32319	8904	0	0	0	0	50	0	324030	1	1	
RAD1	241905	675	21	14504	3745	0	0	0	0	50	0	401338	1	1	
RAD17	467846	314	46	35427	9114	0	0	0	0	50	1	417732	1	1	
RAD18	302992	473	18	25970	6328	0	0	0	0	50	1	456736	1	1	
RAD21	482614	426	18	32914	7994	0	0	0	0	50	1	350084	1	1	
RAD21L1	NaN	NaN	NaN	29344	6881	0	0	0	0	50	2	786429	1	1	
RAD23A	1886809	335	40	18396	5208	0	0	0	0	50	0	357672	1	1	
RAD23B	255220	467	1	20671	5915	0	0	0	0	50	1	493668	1	1	
RAD50	715524	320	48	68649	16086	0	0	0	0	50	0	365239	1	1	
RAD51	1017781	161	47	19495	5306	0	0	0	0	50	0	385574	1	1	
RAD51AP1	275215	908	30	18354	4641	0	0	0	0	50	0	412153	1	1	
RAD51AP2	135410	1311	2	59269	14063	0	0	0	0	3	0	32760	1	1	
RAD51C	524193	222	17	19103	5404	0	0	0	0	50	0	383495	1	1	
RAD51L1	446885	404	37	20188	5705	0	0	0	0	50	0	461531	1	1	
RAD51L3	516190	504	23	19131	6195	0	0	0	0	50	0	423276	1	1	
RAD52	473725	289	44	21518	5803	0	0	0	0	50	2	421680	1	1	

RAD54B	544647	412	23	46592	11977	0	0	0	0	50	2	460656	1	1	
RAD54L2	647863	387	39	72954	21294	0	0	0	0	50	0	521087	1	1	
RAD9A	1269888	177	51	19684	5894	0	0	0	0	50	1	407001	1	1	
RAD9B	922262	206	43	22519	5495	0	0	0	0	50	1	439082	1	1	
RADIL	1009587	523	13	51989	16975	0	0	0	0	50	1	354683	1	1	
RAE1	181292	604	9	19376	4795	0	0	0	0	50	1	409675	1	1	
RAET1E	423805	245	34	13412	3556	0	0	0	0	50	0	393953	1	1	
RAET1G	423805	245	34	16709	4816	0	0	0	0	50	0	393953	1	1	
RAET1L	402308	382	51	12376	3458	0	0	0	0	50	0	439089	1	1	
RAF1	408529	172	32	33285	8946	0	0	0	0	50	0	368270	1	1	
RAG1	97499	412	-17	51660	14196	0	0	0	0	50	0	401632	1	1	
RAG1AP1	1801444	194	32	11655	2793	0	0	0	0	50	0	392000	1	1	
RAG2	96246	531	-26	26271	7077	0	0	0	0	50	0	450317	1	1	
RAGE	1531739	237	40	21658	5726	0	0	0	0	50	0	491757	1	1	
RAI1	1199281	260	16	91070	29407	0	0	0	0	50	0	454524	1	1	
RAI14	270712	554	-7	51681	12831	0	0	0	0	50	0	399315	1	1	
RAI2	61797	NaN	26	25739	7798	0	0	0	0	50	0	392833	1	1	
RALA	221320	445	20	10731	2646	0	0	0	0	50	0	433153	1	1	
RALB	221264	444	37	10675	2702	0	0	0	0	50	1	447825	1	1	
RALBP1	472280	369	46	33677	8407	0	0	0	0	50	1	360619	1	1	
RALGAPA1	258743	457	12	106701	28161	0	0	0	0	50	0	372582	1	1	
RALGAPA2	239875	869	6	95480	25858	0	0	0	0	50	0	417830	1	1	
RALGAPB	531076	440	45	75740	20881	0	0	0	0	50	1	565537	1	1	
RALGDS	1852158	322	51	45864	13671	0	0	0	0	50	0	391811	1	1	
RALGPS1	419512	353	41	28924	7742	0	0	0	0	50	2	427161	1	1	
RALGPS2	364466	434	-2	30814	7574	0	0	0	0	50	0	379449	1	1	
RALY	873171	398	61	15344	4669	0	0	0	0	50	0	410823	1	1	
RALYL	28254	1435	-22	15778	4109	0	0	0	0	50	0	339486	1	1	
RAMP1	571081	382	23	7350	2205	0	0	0	0	50	2	440965	1	1	
RAMP2	1633092	190	33	8813	2569	0	0	0	0	50	0	400561	1	1	
RAMP3	1003768	291	50	7420	2177	0	0	0	0	50	0	375025	1	1	
RAN	214809	440	-6	11291	2884	0	0	0	0	50	0	407981	1	1	
RANBP1	503106	277	64	10605	2541	0	0	0	0	50	0	339717	1	1	
RANBP10	1098330	136	50	31465	8750	0	0	0	0	50	0	364448	1	1	
RANBP17	214548	691	12	56266	14651	0	0	0	0	50	0	362285	1	1	
RANBP2	365106	418	20	162463	43064	0	0	0	0	42	0	367927	1	1	
RANBP3	1166723	392	36	29078	8050	0	0	0	0	50	1	353248	1	1	
RANBP3L	213853	402	5	25725	6384	0	0	0	0	50	1	373961	1	1	
RANBP6	350338	339	24	54670	15050	0	0	0	0	50	0	449414	1	1	
RANBP9	277023	378	29	36645	10479	0	0	0	0	50	2	452529	1	1	
RANGAP1	1301913	179	53	29638	8666	0	0	0	0	50	1	412930	1	1	
RANGRF	NaN	NaN	NaN	12642	2961	0	0	0	0	50	2	782509	1	1	
RAP1A	348519	394	29	9807	2436	0	0	0	0	50	1	503244	1	1	
RAP1B	439623	356	37	9765	2478	0	0	0	0	50	0	393295	1	1	
RAP1GAP	529490	297	34	39109	10535	0	0	0	0	50	0	423346	1	1	
RAP1GAP2	518031	418	12	37821	10290	0	0	0	0	50	1	402703	1	1	
RAP2A	343135	533	28	9170	2506	0	0	0	0	50	1	421848	1	1	
RAP2B	59808	598	-2	8967	2625	0	0	0	0	50	0	443128	1	1	
RAP2C	152540	NaN	18	9226	2534	0	0	0	0	50	0	306124	1	1	
RAPGEF1	629872	355	32	55531	15701	0	0	0	0	13	0	174566	1	1	

RAPGEF2	136300	480	3	75901	20531	0	0	0	0	3	0	41244	1	1	
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RAPGEF4	397338	345	16	52850	13720	0	0	0	0	50	2	432614	1	1	
RAPGEF5	747975	629	4	38682	9303	0	0	0	0	50	0	466921	1	1	
RAPGEF6	314836	627	30	90104	23212	0	0	0	0	50	0	335377	1	1	
RAPGEFL1	1502125	165	37	23296	6587	0	0	0	0	50	0	522977	1	1	
RAPH1	383558	333	19	63847	19607	0	0	0	0	50	2	463554	1	1	
RAPSN	1022438	245	47	20797	5810	0	0	0	0	50	1	469623	1	1	
RARA	1350242	191	23	25704	7518	0	0	0	0	50	0	415842	1	1	
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RARG	1677275	191	49	25151	7315	0	0	0	0	50	0	393820	1	1	
RARRES1	197614	972	-6	14910	4410	0	0	0	0	50	0	373016	1	1	
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RARRES3	854193	303	56	8372	2317	0	0	0	0	50	0	324961	1	1	
RARS	413838	432	30	34111	8750	0	0	0	0	50	0	480886	1	1	
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RASA1	154501	726	24	53627	14623	0	0	0	0	50	0	938070	1	1	
RASA2	405454	259	28	44485	11039	0	0	0	0	50	1	502985	1	1	
RASA3	434290	406	58	43449	11088	0	0	0	0	50	0	426181	1	1	
RASA4	NaN	NaN	NaN	40425	11949	0	0	0	0	50	2	791497	1	1	
RASAL1	518680	387	34	40355	12040	0	0	0	0	50	0	403221	1	1	
RASAL2	168177	435	-9	64974	17913	0	0	0	0	50	0	394233	1	1	
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RASD1	915530	220	-3	13902	3948	0	0	0	0	50	0	332626	1	1	
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RASEF	119712	813	-45	37912	10115	0	0	0	0	50	0	470344	1	1	
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RASGEF1C	1740168	432	23	23884	6629	0	0	0	0	50	0	312984	1	1	
RASGRF1	420514	488	42	64960	17570	0	0	0	0	50	1	441490	1	1	
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RASGRP1	97743	604	-5	40628	10990	0	0	0	0	50	0	451465	1	1	
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RASL10A	849693	251	36	9723	3339	0	0	0	0	50	1	424970	1	1	
RASL10B	675201	196	3	9996	3024	0	0	0	0	50	0	403795	1	1	
RASL11A	284055	265	46	11963	3598	0	0	0	0	50	0	423381	1	1	
RASL11B	170130	812	9	12362	3577	0	0	0	0	50	0	380415	1	1	
RASL12	688371	189	44	13167	3990	0	0	0	0	50	3	461874	1	1	
RASSF1	843769	206	51	19425	5859	0	0	0	0	50	0	402556	1	1	
RASSF10	267963	398	10	29008	9884	0	0	0	0	50	0	471009	1	1	
RASSF2	467742	485	32	16814	4627	0	0	0	0	50	0	397292	1	1	
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RASSF4	75634	905	25	16674	4452	0	0	0	0	50	0	434406	1	1	
RASSF5	504163	288	21	22624	6797	0	0	0	0	50	0	425019	1	1	
RASSF6	351984	573	28	19579	4613	0	0	0	0	50	1	477778	1	1	
RASSF7	1970020	236	42	18732	6531	0	0	0	0	50	0	398356	1	1	
RASSF8	143649	396	4	21910	5789	0	0	0	0	50	1	334551	1	1	

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RASSF9	22408	552	-27	21952	5600	0	0	0	0	50	0	406504	1	1	
RAVER1	1802015	191	21	36239	12502	0	0	0	0	50	2	507017	1	1	
RAVER2	269434	456	-10	34202	9541	0	0	0	0	50	0	387751	1	1	
RAX	293564	549	20	16261	5768	0	0	0	0	50	0	523215	1	1	
RAX2	2144458	206	34	8715	3108	0	0	0	0	50	0	378000	1	1	
RB1	349930	450	41	48356	12355	0	0	0	0	50	1	442540	1	1	
RB1CC1	97322	559	-1	82026	20307	0	0	0	0	50	1	450443	1	1	
RBAK	1723793	462	34	36855	8526	0	0	0	0	50	0	317793	1	1	
RBBP4	1452351	195	34	22288	5516	0	0	0	0	50	0	560098	1	1	
RBBP5	655446	431	37	27699	7350	0	0	0	0	50	0	388794	1	1	
RBBP6	283287	204	25	90832	24647	0	0	0	0	50	0	408415	1	1	
RBBP7	289514	NaN	39	22169	5593	0	0	0	0	50	0	428232	1	1	
RBBP8	254087	158	40	47838	10395	0	0	0	0	50	0	325808	1	1	
RBBP9	414549	436	23	9709	2450	0	0	0	0	50	0	494851	1	1	
RBCK1	802744	165	41	26222	7294	0	0	0	0	50	0	343399	1	1	
RBKS	933934	279	32	16296	4683	0	0	0	0	50	1	395507	1	1	
RBL1	822888	309	42	54705	14595	0	0	0	0	50	0	409080	1	1	
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RBM10	819569	NaN	38	47404	13097	0	0	0	0	50	0	325941	1	1	
RBM11	99517	964	-30	14441	3703	0	0	0	0	50	0	427070	1	1	
RBM12	1423559	169	53	44793	14070	0	0	0	0	50	0	366597	1	1	
RBM12B	221692	552	-4	49539	13671	0	0	0	0	50	1	382347	1	1	
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RBM15B	538437	536	39	42147	14028	0	0	0	0	50	1	507997	1	1	
RBM16	146505	412	17	63490	18242	0	0	0	0	50	0	377671	1	1	
RBM17	576205	399	45	20692	5558	0	0	0	0	50	0	449358	1	1	
RBM18	319049	597	19	9821	2632	0	0	0	0	50	0	484512	1	1	
RBM19	198554	673	11	49392	13167	0	0	0	0	50	0	396326	1	1	
RBM20	NaN	NaN	NaN	60900	17598	0	0	0	0	50	2	797146	1	1	
RBM22	1107515	211	54	21483	5880	0	0	0	0	50	0	512624	1	1	
RBM23	1177534	225	34	22379	6433	0	0	0	0	50	1	318059	1	1	
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RBM3	817501	NaN	29	8239	2219	0	0	0	0	50	0	408625	1	1	
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RBM4	1432488	187	46	17857	5390	0	0	0	0	50	0	482636	1	1	
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RBM44	570382	407	24	54124	13475	0	0	0	0	50	2	444115	1	1	
RBM45	234602	603	21	24353	6370	0	0	0	0	50	0	396214	1	1	
RBM46	73501	1021	-18	26803	7175	0	0	0	0	50	0	382165	1	1	
RBM47	247828	341	64	28959	8799	0	0	0	0	50	1	392371	1	1	
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RBM5	965735	196	35	42616	10808	0	0	0	0	50	0	439334	1	1	
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RBM7	157610	477	-8	13762	3437	0	0	0	0	50	0	458409	1	1	
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RBMS1	191666	366	5	21252	5481	0	0	0	0	50	0	380023	1	1	
RBMS2	2807863	166	57	21042	5754	0	0	0	0	50	0	513688	1	1	
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RBMY1A1	NaN	NaN	NaN	75999	20706	0	0	0	0	50	2	800254	1	1	
RBMY1B	NaN	NaN	NaN	101332	27608	0	0	0	0	50	2	807156	1	1	
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RBMY1F	NaN	NaN	NaN	50722	13748	0	0	0	0	50	2	793296	1	1	
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RBP1	226923	848	13	11137	2975	0	0	0	0	50	0	342622	1	1	
RBP2	232582	754	21	7147	1652	0	0	0	0	50	0	432159	1	1	
RBP3	117080	445	21	59115	19761	0	0	0	0	50	0	399462	1	1	
RBP4	450249	305	20	10451	2695	0	0	0	0	50	0	421652	1	1	
RBP5	2422791	224	38	7042	1820	0	0	0	0	50	0	348957	1	1	
RBP7	744954	240	24	7217	1582	0	0	0	0	50	0	452326	1	1	
RBPJ	178487	597	36	26677	7049	0	0	0	0	50	0	369285	1	1	
RBPMS	473452	363	27	13804	3941	0	0	0	0	50	0	371889	1	1	
RBPMS2	803907	264	47	10605	3213	0	0	0	0	50	0	393407	1	1	
RBX1	1044535	269	43	5943	1302	0	0	0	0	18	0	176351	1	1	
RC3H1	445943	353	13	56560	16436	0	0	0	0	50	0	476749	1	1	
RC3H2	407115	430	26	61152	17220	0	0	0	0	50	0	470708	1	1	
RCAN1	337408	491	39	14252	3850	0	0	0	0	50	0	346829	1	1	
RCAN2	55610	819	8	9884	2842	0	0	0	0	50	0	470183	1	1	
RCAN3	470059	348	28	12453	3129	0	0	0	0	50	1	404978	1	1	
RCBTB1	430735	338	67	26985	7455	0	0	0	0	50	0	386225	1	1	
RCBTB2	387005	404	41	28056	7728	0	0	0	0	50	1	555639	1	1	
RCC1	NaN	NaN	NaN	22736	6643	0	0	0	0	50	2	786191	1	1	
RCC2	399978	210	28	26390	7609	0	0	0	0	50	0	461041	1	1	
RCCD1	793838	291	37	18361	5894	0	0	0	0	50	0	485359	1	1	
RCE1	1628594	187	29	16184	5236	0	0	0	0	50	0	402248	1	1	
RCHY1	461415	491	19	14315	2863	0	0	0	0	50	0	402066	1	1	
RCL1	238716	573	26	18669	5565	0	0	0	0	50	1	460733	1	1	
RCN1	251970	683	-1	17024	4312	0	0	0	0	50	0	365834	1	1	
RCN2	335583	614	27	16646	3892	0	0	0	0	50	0	527289	1	1	
RCN3	2080142	210	41	16604	4627	0	0	0	0	50	0	429324	1	1	
RCOR1	1468114	190	42	24829	6524	0	0	0	0	50	0	621551	1	1	
RCOR2	1321109	201	51	25970	7966	0	0	0	0	50	1	407876	1	1	
RCOR3	279632	545	-1	30170	6307	0	0	0	0	50	0	363125	1	1	
RCSD1	520615	405	14	20671	6104	0	0	0	0	50	0	413511	1	1	
RCVRN	63518	366	-41	10255	2576	0	0	0	0	50	0	397586	1	1	
RD3	384781	399	5	9639	2940	0	0	0	0	50	0	422359	1	1	
RDBP	2314693	203	34	19376	5467	0	0	0	0	50	0	456526	1	1	

RDH10	259225	340	19	17059	4907	0	0	0	0	50	0	435974	1	1	
RDH11	479937	260	39	15967	4676	0	0	0	0	50	0	350763	1	1	
RDH12	482264	186	44	15610	4865	0	0	0	0	50	2	358267	1	1	
RDH13	1125216	432	-26	16352	5068	0	0	0	0	50	0	370972	1	1	
RDH14	39949	1075	-7	16058	5257	0	0	0	0	50	1	378014	1	1	
RDH16	2103486	286	26	15603	4683	0	0	0	0	50	1	479801	1	1	
RDH5	1814311	384	26	15218	5215	0	0	0	0	50	1	313544	1	1	
RDH8	1555841	413	0	15162	4914	0	0	0	0	50	1	438151	1	1	
RDM1	703538	424	31	15890	4102	0	0	0	0	50	0	435022	1	1	
RDX	137601	158	10	30653	7231	0	0	0	0	50	0	432005	1	1	
REC8	974559	220	41	27762	8295	0	0	0	0	50	2	483035	1	1	
RECK	866055	155	44	50099	12859	0	0	0	0	50	1	466249	1	1	
RECQL	518837	836	-23	33901	8225	0	0	0	0	50	1	329175	1	1	
RECQL4	1755818	291	7	58989	18921	0	0	0	0	24	0	213045	1	1	
RECQL5	1912060	198	37	51058	14777	0	0	0	0	50	0	467873	1	1	
REEP1	696855	425	37	13307	2401	0	0	0	0	50	0	432040	1	1	
REEP2	1196831	209	49	12803	3724	0	0	0	0	50	1	455098	1	1	
REEP3	207194	412	22	13223	3493	0	0	0	0	50	0	405629	1	1	
REEP4	584373	219	34	13013	3829	0	0	0	0	50	0	419412	1	1	
REEP5	248831	340	44	9793	2513	0	0	0	0	50	0	368207	1	1	
REEP6	2352825	221	38	9240	2751	0	0	0	0	50	0	360416	1	1	
REG1A	10958	1389	-22	8834	2107	0	0	0	0	50	0	344666	1	1	
REG1B	10958	1389	-22	8820	2121	0	0	0	0	50	0	344666	1	1	
REG3A	10958	1389	-22	9156	2436	0	0	0	0	50	0	344666	1	1	
REG3G	21996	1408	-29	9149	2359	0	0	0	0	50	0	457268	1	1	
REG4	415110	581	26	12306	3129	0	0	0	0	50	2	411495	1	1	
REL	635308	439	34	31598	8302	0	0	0	0	50	0	453831	1	1	
RELA	4131934	202	53	27202	8414	0	0	0	0	50	1	407722	1	1	
RELB	1135715	208	25	28196	9100	0	0	0	0	50	0	378119	1	1	
RELL1	137374	764	41	13734	3948	0	0	0	0	50	0	386232	1	1	
RELL2	771583	353	25	15162	4557	0	0	0	0	50	0	452095	1	1	
RELN	291011	954	7	177142	46277	0	0	0	0	50	0	406280	1	1	
RELT	561848	218	56	21217	6776	0	0	0	0	50	1	421169	1	1	
REM1	605825	450	-76	14329	4760	0	0	0	0	16	1	98630	1	1	
REM2	1177534	225	34	16541	5320	0	0	0	0	50	1	318059	1	1	
REN	557652	370	34	20622	5817	0	0	0	0	50	0	433209	1	1	
RENBP	2355024	NaN	25	21833	6013	0	0	0	0	50	0	601398	1	1	
REP15	346550	376	-4	11767	3206	0	0	0	0	50	0	440790	1	1	
REPIN1	315538	514	32	29890	9695	0	0	0	0	50	0	484841	1	1	
REPS1	310511	613	16	40383	11424	0	0	0	0	50	1	507563	1	1	
REPS2	291898	NaN	23	33411	9660	0	0	0	0	50	0	446782	1	1	
RER1	561270	302	24	10220	2695	0	0	0	0	50	0	372848	1	1	
RERE	916698	436	27	77140	23345	0	0	0	0	50	0	435407	1	1	
RERG	354506	469	3	10087	2765	0	0	0	0	50	1	437360	1	1	
RERGL	21334	1070	-35	10647	2709	0	0	0	0	50	0	439215	1	1	
RESP18	NaN	NaN	NaN	11746	3185	0	0	0	0	50	2	782733	1	1	
REST	590352	569	37	54838	14630	0	0	0	0	50	1	519953	1	1	
RET	454068	563	-19	55825	16646	0	0	0	0	50	0	405069	1	1	
RETN	688482	384	31	5530	1589	0	0	0	0	50	1	445354	1	1	
RETNLB	129526	941	-3	5719	1547	0	0	0	0	50	0	406322	1	1	

RETSAT	975949	211	18	30233	9100	0	0	0	0	50	1	339409	1	1	
REV1	383815	639	27	63623	17101	0	0	0	0	50	0	554386	1	1	
REV3L	343769	434	41	157605	42252	0	0	0	0	3	0	66241	1	1	
REXO1	2226995	214	26	59206	19082	0	0	0	0	50	1	475622	1	1	
REXO1L1	NaN	NaN	NaN	64792	20384	0	0	0	0	50	2	799932	1	1	
REXO2	98814	612	-12	12418	3080	0	0	0	0	50	0	499716	1	1	
REXO4	1827885	416	28	21399	5838	0	0	0	0	50	0	337127	1	1	
RFC1	668832	299	43	59507	14833	0	0	0	0	50	1	367668	1	1	
RFC2	997452	202	51	18291	4956	0	0	0	0	50	1	322196	1	1	
RFC3	84617	580	33	19068	4956	0	0	0	0	50	1	432817	1	1	
RFC4	449980	384	25	18704	5152	0	0	0	0	50	0	393316	1	1	
RFC5	639801	584	-3	17731	4760	0	0	0	0	50	1	494907	1	1	
RFESD	307041	359	32	10815	2814	0	0	0	0	50	2	372288	1	1	
RFFL	439420	504	19	18382	5054	0	0	0	0	50	0	382480	1	1	
RFK	106798	603	-10	8071	2009	0	0	0	0	50	0	460677	1	1	
RFNG	3850694	197	34	16310	5236	0	0	0	0	50	1	370034	1	1	
RFPL1	723458	203	35	15624	4494	0	0	0	0	50	0	436562	1	1	
RFPL2	462468	580	-25	20083	5810	0	0	0	0	50	0	369586	1	1	
RFPL3	413546	556	-16	15582	4536	0	0	0	0	50	0	435610	1	1	
RFPL4A	NaN	NaN	NaN	14315	3955	0	0	0	0	50	2	783503	1	1	
RFPL4B	96263	432	0	12978	3654	0	0	0	0	50	1	436793	1	1	
RFT1	907827	192	39	26922	8274	0	0	0	0	50	1	444976	1	1	
RFTN1	117533	528	29	29078	8155	0	0	0	0	50	1	460558	1	1	
RFTN2	647239	538	26	25508	6790	0	0	0	0	50	1	523978	1	1	
RFWD2	66809	929	-3	37968	9744	0	0	0	0	50	0	423129	1	1	
RFWD3	577167	151	31	38843	10990	0	0	0	0	50	1	428785	1	1	
RFX1	971756	231	32	48370	15050	0	0	0	0	50	2	372547	1	1	
RFX2	1209062	392	33	36561	10479	0	0	0	0	50	1	397096	1	1	
RFX3	159455	1028	3	40726	11102	0	0	0	0	50	2	423486	1	1	
RFX4	247645	482	-1	41013	11004	0	0	0	0	50	1	383488	1	1	
RFX5	1322568	174	42	30037	9590	0	0	0	0	50	0	459634	1	1	
RFX6	206546	730	-19	47327	12754	0	0	0	0	50	0	343350	1	1	
RFX7	204396	432	-2	72065	20650	0	0	0	0	50	0	425600	1	1	
RFX8	NaN	NaN	NaN	24465	6321	0	0	0	0	50	2	785869	1	1	
RFXANK	940952	232	17	13167	3948	0	0	0	0	50	1	405944	1	1	
RFXAP	191525	731	-15	13405	3962	0	0	0	0	50	0	464849	1	1	
RG9MTD1	549735	614	11	20440	5096	0	0	0	0	50	1	420084	1	1	
RG9MTD2	331308	847	9	17906	4186	0	0	0	0	50	0	365568	1	1	
RG9MTD3	489340	453	23	16562	4081	0	0	0	0	50	0	346416	1	1	
RGAG1	100181	NaN	21	65793	21882	0	0	0	0	50	0	437290	1	1	
RGAG4	582710	NaN	53	27811	8099	0	0	0	0	50	1	368186	1	1	
RGL1	493691	597	14	41244	10920	0	0	0	0	50	0	403123	1	1	
RGL2	1456953	262	30	37702	12740	0	0	0	0	50	0	411845	1	1	
RGL3	1255985	265	32	35651	11074	0	0	0	0	50	2	364000	1	1	
RGL4	610486	266	30	23632	7070	0	0	0	0	50	1	403081	1	1	
RGMA	243187	484	-19	22526	7021	0	0	0	0	50	1	432033	1	1	
RGMB	141802	729	11	23408	7105	0	0	0	0	50	0	491078	1	1	
RGN	830380	NaN	52	15302	4102	0	0	0	0	50	0	369341	1	1	
RGNEF	279980	577	39	88480	23660	0	0	0	0	50	0	361018	1	1	
RGP1	922448	190	48	21231	6720	0	0	0	0	50	2	430472	1	1	

RGPD1	NaN	NaN	NaN	177646	46508	0	0	0	0	50	2	826056	1	1	
RGPD2	177375	633	3	178262	46900	0	0	0	0	35	0	279965	1	1	
RGPD3	NaN	NaN	NaN	89124	23583	0	0	0	0	50	2	803131	1	1	
RGPD4	NaN	NaN	NaN	89173	23534	0	0	0	0	50	2	803082	1	1	
RGPD5	341807	568	18	271943	72415	0	0	0	0	5	0	99022	1	1	
RGPD6	281803	568	17	182644	48566	0	0	0	0	50	1	586096	1	1	
RGPD8	NaN	NaN	NaN	89299	23849	0	0	0	0	50	2	803397	1	1	
RGR	216056	869	-4	14749	4445	0	0	0	0	50	2	385259	1	1	
RGS1	269711	604	-12	10906	2702	0	0	0	0	50	0	364959	1	1	
RGS10	825813	217	22	9898	2177	0	0	0	0	50	0	285852	1	1	
RGS11	1340678	205	43	24213	6741	0	0	0	0	50	0	429807	1	1	
RGS12	570419	412	48	72562	21560	0	0	0	0	50	0	470967	1	1	
RGS13	306250	526	-13	8589	1827	0	0	0	0	50	0	440013	1	1	
RGS14	942017	227	53	28112	8785	0	0	0	0	50	1	389921	1	1	
RGS16	597206	812	-3	10290	2835	0	0	0	0	50	0	441420	1	1	
RGS17	158803	677	1	10976	2653	0	0	0	0	50	1	415093	1	1	
RGS18	96080	925	-20	12278	2926	0	0	0	0	50	0	405825	1	1	
RGS19	1032302	312	51	11102	3052	0	0	0	0	50	0	409850	1	1	
RGS2	307992	477	-15	11165	2569	0	0	0	0	50	1	451710	1	1	
RGS20	266629	345	18	20398	6062	0	0	0	0	50	1	410802	1	1	
RGS21	123814	860	-26	8113	1862	0	0	0	0	50	1	419923	1	1	
RGS22	290819	449	22	66052	15911	0	0	0	0	50	0	441259	1	1	
RGS4	315405	691	-14	15813	3696	0	0	0	0	50	0	351750	1	1	
RGS5	194452	794	-8	9520	2282	0	0	0	0	50	1	387639	1	1	
RGS6	101461	823	26	25172	5971	0	0	0	0	50	0	398118	1	1	
RGS7	134467	834	-27	26054	6118	0	0	0	0	50	1	388185	1	1	
RGS7BP	78559	688	-3	13139	3535	0	0	0	0	50	0	356027	1	1	
RGS8	650082	702	23	10794	2814	0	0	0	0	50	1	387632	1	1	
RGS9	391807	516	-16	35798	9352	0	0	0	0	50	1	510384	1	1	
RGS9BP	380440	455	-45	10801	4067	0	0	0	0	50	0	389753	1	1	
RGSL1	NaN	NaN	NaN	56049	13524	0	0	0	0	50	2	793072	1	1	
RHAG	66931	1248	-6	20818	5810	0	0	0	0	50	1	343924	1	1	
RHBDD1	221611	573	11	16184	4228	0	0	0	0	50	0	364714	1	1	
RHBDD2	1054488	218	59	17332	5957	0	0	0	0	50	1	421680	1	1	
RHBDD3	854820	251	51	17990	6811	0	0	0	0	50	1	412111	1	1	
RHBDF1	1005761	238	36	42791	12565	0	0	0	0	50	0	326879	1	1	
RHBDF2	1202221	197	29	43008	12411	0	0	0	0	50	1	407974	1	1	
RHBDL1	1207790	194	33	21350	6853	0	0	0	0	50	2	442589	1	1	
RHBDL2	603263	318	27	15533	4123	0	0	0	0	50	2	372792	1	1	
RHBDL3	671605	271	22	20153	6076	0	0	0	0	50	0	388556	1	1	
RHBG	2199280	201	27	22582	7154	0	0	0	0	50	1	484435	1	1	
RHCE	667862	185	32	21462	5670	0	0	0	0	50	2	378525	1	1	
RHCG	747784	363	22	24269	6853	0	0	0	0	50	0	583093	1	1	
RHD	642678	270	36	20881	6251	0	0	0	0	50	0	405286	1	1	
RHEB	660831	196	32	9807	2436	0	0	0	0	50	2	367339	1	1	
RHEBL1	1770671	214	65	9618	2562	0	0	0	0	50	0	479556	1	1	
RHO	779764	210	59	17395	4970	0	0	0	0	50	1	375879	1	1	
RHOA	1623187	201	33	9933	2625	0	0	0	0	50	0	385616	1	1	
RHOB	621277	189	19	9562	2849	0	0	0	0	50	0	415737	1	1	
RHOBTB1	99491	403	-13	35231	9436	0	0	0	0	50	2	456239	1	1	

RHOBTB2	740323	241	48	37527	10878	0	0	0	0	50	1	448987	1	1	
RHOBTB3	310056	242	46	31486	7994	0	0	0	0	50	0	388143	1	1	
RHOC	559669	325	27	9828	2730	0	0	0	0	50	1	455399	1	1	
RHOD	1615307	162	47	10591	3080	0	0	0	0	50	0	397796	1	1	
RHOF	826816	195	43	10598	3136	0	0	0	0	50	0	372883	1	1	
RHOG	425863	258	23	9296	2884	0	0	0	0	50	1	390243	1	1	
RHOH	486675	348	48	9303	2793	0	0	0	0	50	0	404712	1	1	
RHOJ	143550	637	-13	11039	2842	0	0	0	0	50	0	396095	1	1	
RHOQ	595763	213	36	10479	2835	0	0	0	0	50	0	475251	1	1	
RHOT1	675374	312	21	36309	8967	0	0	0	0	50	0	504392	1	1	
RHOT2	1207790	194	33	31213	9338	0	0	0	0	50	2	442589	1	1	
RHOU	689585	450	9	12726	3759	0	0	0	0	50	0	338240	1	1	
RHOV	1036414	172	51	11445	3654	0	0	0	0	50	1	399637	1	1	
RHOXF1	NaN	NaN	NaN	9254	2611	0	0	0	0	50	2	782159	1	1	
RHOXF2	NaN	NaN	NaN	29078	7840	0	0	0	0	50	2	787388	1	1	
RHOXF2B	800534	NaN	23	29078	7840	0	0	0	0	50	0	498988	1	1	
RHPN1	1882843	237	35	33040	10409	0	0	0	0	50	1	429373	1	1	
RHPN2	458398	356	-12	34797	9702	0	0	0	0	50	1	428463	1	1	
RIBC1	920771	NaN	70	20006	5131	0	0	0	0	50	0	408415	1	1	
RIBC2	460724	199	8	19544	4795	0	0	0	0	50	1	402367	1	1	
RIC3	244487	555	19	18662	5047	0	0	0	0	50	0	386617	1	1	
RIC8A	1463610	437	24	26516	8134	0	0	0	0	50	0	358533	1	1	
RIC8B	230956	396	11	26243	7252	0	0	0	0	50	0	487053	1	1	
RICH2	91679	790	-62	41475	11802	0	0	0	0	50	0	485408	1	1	
RICTOR	193512	336	-2	87521	23296	0	0	0	0	50	0	578235	1	1	
RIF1	228411	589	19	125496	33243	0	0	0	0	50	0	331254	1	1	
RILP	1361271	198	27	19607	6307	0	0	0	0	50	0	404572	1	1	
RILPL1	1039355	424	49	20370	5586	0	0	0	0	50	0	511098	1	1	
RILPL2	1129277	177	47	10535	3073	0	0	0	0	50	0	385217	1	1	
RIMBP2	225009	632	-35	52304	15463	0	0	0	0	50	1	514325	1	1	
RIMBP3	616215	NaN	23	77924	25396	0	0	0	0	50	0	438193	1	1	
RIMBP3B	NaN	NaN	NaN	155967	50673	0	0	0	0	50	2	830221	1	1	
RIMBP3C	572259	221	26	155967	50673	0	0	0	0	50	0	475412	1	1	
RIMKLA	573046	574	22	19341	5691	0	0	0	0	50	0	360451	1	1	
RIMKLB	302894	262	17	19243	5558	0	0	0	0	50	1	412188	1	1	
RIMS1	35104	964	-12	87976	24836	0	0	0	0	50	2	501529	1	1	
RIMS2	198819	1035	-8	71456	19600	0	0	0	0	50	0	407799	1	1	
RIMS3	678456	421	20	15288	4683	0	0	0	0	50	0	443842	1	1	
RIMS4	942798	168	40	13412	4018	0	0	0	0	50	1	465878	1	1	
RIN1	2048585	182	54	37191	12957	0	0	0	0	50	0	463799	1	1	
RIN2	213905	508	0	44590	12740	0	0	0	0	50	0	391965	1	1	
RIN3	447158	623	42	47929	14945	0	0	0	0	50	2	463778	1	1	
RING1	1474628	377	24	19726	6419	0	0	0	0	50	0	463036	1	1	
RINL	1989663	219	30	22099	7112	0	0	0	0	50	1	429506	1	1	
RINT1	454408	172	36	40509	10626	0	0	0	0	50	0	404894	1	1	
RIOK1	789838	250	17	30261	6930	0	0	0	0	50	0	433027	1	1	
RIOK2	381706	614	28	28980	7161	0	0	0	0	50	1	574112	1	1	
RIOK3	311512	215	57	27223	6545	0	0	0	0	50	1	401975	1	1	
RIPK1	437184	268	41	34412	8680	0	0	0	0	50	2	351274	1	1	
RIPK2	251042	447	5	27692	7231	0	0	0	0	50	1	428078	1	1	

RIPK3	897133	265	40	25942	7511	0	0	0	0	50	0	507787	1	1	
RIPK4	302894	182	30	37989	12096	0	0	0	0	50	0	471982	1	1	
RIPPLY1	148608	NaN	22	7637	2233	0	0	0	0	44	0	268352	1	1	
RIPPLY2	108781	870	-22	6643	1736	0	0	0	0	50	0	404901	1	1	
RIT1	2096440	179	32	11256	3024	0	0	0	0	50	0	364924	1	1	
RIT2	4853	1195	-57	11284	2786	0	0	0	0	50	0	423283	1	1	
RLBP1	649712	400	25	16268	4354	0	0	0	0	50	2	472346	1	1	
RLF	698659	303	25	96614	24661	0	0	0	0	50	1	485093	1	1	
RLIM	289586	NaN	13	30716	8911	0	0	0	0	50	0	378644	1	1	
RLN1	398278	629	13	9268	2534	0	0	0	0	50	1	422653	1	1	
RLN2	385172	605	16	11158	2849	0	0	0	0	50	1	429002	1	1	
RLN3	1013197	231	32	6937	2198	0	0	0	0	50	1	423822	1	1	
RLTPR	1065785	147	41	71092	22841	0	0	0	0	50	0	553924	1	1	
RMI1	458954	343	14	31164	8358	0	0	0	0	50	0	480893	1	1	
RMND1	336608	468	30	23247	6027	0	0	0	0	50	1	384377	1	1	
RMND5A	431437	538	16	20209	5159	0	0	0	0	50	0	408107	1	1	
RMND5B	821697	248	39	19971	5607	0	0	0	0	50	0	460229	1	1	
RNASE1	956361	577	8	7742	2233	0	0	0	0	50	1	459137	1	1	
RNASE10	464497	395	17	10773	2877	0	0	0	0	50	0	420504	1	1	
RNASE11	637784	493	22	10122	2562	0	0	0	0	50	0	323155	1	1	
RNASE12	637784	493	22	7525	1883	0	0	0	0	50	0	323155	1	1	
RNASE13	937278	320	20	7854	2121	0	0	0	0	50	0	382935	1	1	
RNASE2	1005555	429	4	8064	2226	0	0	0	0	50	1	348677	1	1	
RNASE3	1070609	561	16	7847	2380	0	0	0	0	50	0	347347	1	1	
RNASE4	709113	577	11	7343	2065	0	0	0	0	50	1	484281	1	1	
RNASE6	956361	577	8	7588	2009	0	0	0	0	50	1	459137	1	1	
RNASE7	937278	320	20	7812	2163	0	0	0	0	50	0	382935	1	1	
RNASE8	937278	320	20	7567	2156	0	0	0	0	50	0	382935	1	1	
RNASE9	637784	493	22	10885	2681	0	0	0	0	50	0	323155	1	1	
RNASEH1	254257	NaN	15	14840	3871	0	0	0	0	50	0	412580	1	1	
RNASEH2A	1937827	226	32	15169	4361	0	0	0	0	50	1	414729	1	1	
RNASEH2B	137500	621	34	17227	4067	0	0	0	0	50	0	390075	1	1	
RNASEH2C	4131934	202	53	8078	2569	0	0	0	0	50	1	407722	1	1	
RNASEK	1696302	360	24	5061	1344	0	0	0	0	50	1	319648	1	1	
RNASEL	597206	812	-3	37016	10150	0	0	0	0	50	0	441420	1	1	
RNASEN	191847	649	-9	71120	18277	0	0	0	0	50	0	547918	1	1	
RNASET2	225834	633	18	13496	3409	0	0	0	0	50	0	372491	1	1	
RND1	1655612	214	57	11732	3304	0	0	0	0	50	0	392147	1	1	
RND2	1507064	201	26	11305	3395	0	0	0	0	50	0	346423	1	1	
RND3	53679	438	5	12614	3241	0	0	0	0	50	1	358687	1	1	
RNF10	1583841	209	40	41314	11186	0	0	0	0	50	0	417053	1	1	
RNF103	621664	442	36	34552	8918	0	0	0	0	50	0	381724	1	1	
RNF11	503560	305	7	7763	2170	0	0	0	0	50	0	496566	1	1	
RNF111	591201	230	31	49399	13874	0	0	0	0	50	1	363349	1	1	
RNF112	588566	414	6	26642	8176	0	0	0	0	50	1	372281	1	1	
RNF113A	772178	NaN	38	17171	4543	0	0	0	0	50	0	444234	1	1	
RNF113B	470049	470	20	16009	4466	0	0	0	0	50	0	339787	1	1	
RNF114	589377	181	48	11795	3094	0	0	0	0	50	0	372183	1	1	
RNF115	638533	230	36	15729	4158	0	0	0	0	50	0	431816	1	1	
RNF121	737476	311	53	16926	4410	0	0	0	0	50	0	281421	1	1	

RNF122	91655	610	11	8260	1988	0	0	0	0	50	0	425733	1	1	
RNF123	1551582	271	48	66640	19397	0	0	0	0	50	0	431081	1	1	
RNF125	417722	442	28	11900	3199	0	0	0	0	50	0	521563	1	1	
RNF126	1832767	218	10	15652	4676	0	0	0	0	29	0	334362	1	1	
RNF128	149556	NaN	17	27986	8113	0	0	0	0	50	0	403466	1	1	
RNF13	536427	340	14	19768	5054	0	0	0	0	50	0	440146	1	1	
RNF130	1665304	424	17	21098	6034	0	0	0	0	50	0	490756	1	1	
RNF133	53042	1027	6	18613	5180	0	0	0	0	50	2	454335	1	1	
RNF135	585832	178	25	22820	6244	0	0	0	0	50	0	410361	1	1	
RNF138	409393	481	23	12999	3129	0	0	0	0	50	0	568974	1	1	
RNF139	472766	476	28	32585	9394	0	0	0	0	50	0	461902	1	1	
RNF14	696239	321	48	24402	6111	0	0	0	0	50	0	377804	1	1	
RNF141	755456	391	25	11893	3080	0	0	0	0	50	0	540127	1	1	
RNF144A	40925	1103	7	15092	3955	0	0	0	0	50	1	465129	1	1	
RNF144B	322018	573	-11	15547	4193	0	0	0	0	50	0	290808	1	1	
RNF145	123474	225	42	34937	9541	0	0	0	0	50	0	418425	1	1	
RNF146	113326	889	-6	17395	5285	0	0	0	0	50	0	430199	1	1	
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RNF149	442031	259	20	19810	5957	0	0	0	0	50	0	378728	1	1	
RNF150	134725	790	-13	21903	6258	0	0	0	0	50	0	423612	1	1	
RNF151	1747301	183	46	12166	3668	0	0	0	0	50	0	376299	1	1	
RNF152	96352	799	-12	9744	3108	0	0	0	0	50	1	509481	1	1	
RNF157	1737490	208	23	34713	9681	0	0	0	0	50	2	513933	1	1	
RNF160	316591	303	34	92358	24339	0	0	0	0	50	0	357833	1	1	
RNF165	452638	289	33	17486	5005	0	0	0	0	50	0	360647	1	1	
RNF166	802673	189	41	12138	3360	0	0	0	0	50	0	408009	1	1	
RNF167	1416161	231	30	17493	5292	0	0	0	0	50	0	367325	1	1	
RNF168	1173736	125	34	28952	7546	0	0	0	0	50	1	458990	1	1	
RNF169	620831	160	37	34370	10759	0	0	0	0	50	1	401366	1	1	
RNF17	486857	629	29	84245	21049	0	0	0	0	13	0	177100	1	1	
RNF170	513134	475	32	16660	4550	0	0	0	0	50	0	494039	1	1	
RNF175	143076	685	18	17073	4326	0	0	0	0	50	0	370321	1	1	
RNF180	56176	941	-5	30604	7805	0	0	0	0	50	0	381815	1	1	
RNF181	1158965	170	43	8078	2002	0	0	0	0	50	0	386631	1	1	
RNF182	256934	590	20	11977	3647	0	0	0	0	50	0	363916	1	1	
RNF183	426351	312	26	9289	2954	0	0	0	0	50	0	362719	1	1	
RNF185	699351	218	41	9961	2702	0	0	0	0	50	1	457163	1	1	
RNF186	559698	259	28	10668	3696	0	0	0	0	50	1	445697	1	1	
RNF187	NaN	NaN	NaN	11543	3577	0	0	0	0	50	2	783125	1	1	
RNF19A	1009773	212	41	42245	11368	0	0	0	0	50	1	433279	1	1	
RNF19B	858954	233	33	36743	10612	0	0	0	0	50	2	374045	1	1	
RNF2	346010	458	-1	17430	4305	0	0	0	0	50	1	468174	1	1	
RNF20	112827	872	-13	50358	12726	0	0	0	0	50	0	653282	1	1	
RNF207	627248	240	31	32151	9240	0	0	0	0	50	1	361984	1	1	
RNF208	1724821	399	43	12285	4221	0	0	0	0	50	0	327124	1	1	
RNF212	739370	247	43	16086	3444	0	0	0	0	50	1	526799	1	1	
RNF213	718251	198	24	266294	74011	0	0	0	0	13	0	188426	1	1	
RNF214	436617	360	36	35525	10003	0	0	0	0	50	0	379232	1	1	
RNF215	696089	214	57	18319	6167	0	0	0	0	50	1	447454	1	1	
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RNF217	120614	269	-24	14455	3458	0	0	0	0	50	0	384776	1	1	
RNF219	58504	954	4	36883	9380	0	0	0	0	50	1	474691	1	1	
RNF220	742455	355	34	28686	8127	0	0	0	0	50	0	388899	1	1	
RNF222	NaN	NaN	NaN	10346	3661	0	0	0	0	50	2	783209	1	1	
RNF24	683635	170	33	9037	2177	0	0	1	0	8	1	66024	1	1	
RNF25	1033606	269	43	23030	6832	0	0	0	0	50	0	459746	1	1	
RNF26	1054477	263	40	20153	7189	0	0	0	0	50	0	461559	1	1	
RNF31	974559	220	41	53312	16009	0	0	0	0	50	2	483035	1	1	
RNF32	299200	635	-10	18578	4963	0	0	0	0	50	0	408730	1	1	
RNF34	650760	244	38	19117	5117	0	0	0	0	50	1	488866	1	1	
RNF38	564580	248	40	25858	7574	0	0	0	0	50	0	438389	1	1	
RNF39	1820240	496	30	19978	6881	0	0	0	0	50	0	371455	1	1	
RNF4	816930	179	39	10493	2044	0	0	0	0	50	0	332234	1	1	
RNF40	1632278	158	61	50050	14672	0	0	0	0	50	0	462980	1	1	
RNF41	2878057	171	43	16065	4389	0	0	0	0	50	1	498246	1	1	
RNF43	782135	399	22	38038	12026	0	0	0	0	50	0	574609	1	1	
RNF44	607190	318	49	21378	6741	0	0	0	0	50	0	340795	1	1	
RNF5	2119974	392	28	9254	2569	0	0	0	0	50	0	467467	1	1	
RNF6	96737	562	25	33782	9688	0	0	0	0	50	0	375410	1	1	
RNF7	406166	406	29	6363	987	0	0	0	0	8	0	56700	1	1	
RNF8	485024	426	37	26411	6769	0	0	0	0	50	0	433160	1	1	
RNFT1	962470	223	14	22351	5831	0	0	0	0	50	0	426314	1	1	
RNFT2	225255	411	4	23352	6888	0	0	0	0	50	1	370020	1	1	
RNGTT	202476	672	37	31255	7679	0	0	0	0	50	0	416234	1	1	
RNH1	2088403	221	50	22855	7091	0	0	0	0	50	0	417683	1	1	
RNLS	193044	396	33	18627	5040	0	0	0	0	50	0	423507	1	1	
RNMT	142674	697	42	25109	5782	0	0	0	0	50	0	400456	1	1	
RNMTL1	662733	483	10	20664	6153	0	0	0	0	50	0	336147	1	1	
RNPC3	NaN	NaN	NaN	7294	2135	0	0	0	0	50	2	781683	1	1	
RNPEP	751933	168	31	32487	9408	0	0	0	0	50	1	396781	1	1	
RNPEPL1	837485	485	35	24647	7294	0	0	0	0	50	0	373352	1	1	
RNPS1	2220466	233	46	15288	4494	0	0	0	0	50	0	434084	1	1	
ROBLD3	2005405	213	39	6300	1890	0	0	0	0	50	0	428029	1	1	
ROBO1	72749	790	-19	84364	23702	0	0	0	0	50	0	416661	1	1	
ROBO2	22183	1224	-17	70868	18109	0	0	0	0	50	1	496111	1	1	
ROBO3	175852	743	14	68082	21567	0	0	0	0	50	0	463652	1	1	
ROBO4	175852	743	14	49042	15890	0	0	0	0	50	0	463652	1	1	
ROCK1	185443	407	-6	71652	16401	0	0	0	0	50	0	398314	1	1	
ROCK2	495833	170	25	73052	17143	0	0	0	0	50	1	449274	1	1	
ROD1	510989	242	31	28154	8050	0	0	0	0	50	0	384503	1	1	
ROM1	2695768	217	42	16380	5964	0	0	0	0	50	1	466214	1	1	
ROMO1	1423559	169	53	4046	1162	0	0	0	0	50	0	366597	1	1	
ROPN1	244828	450	24	10689	3066	0	0	0	0	50	0	374633	1	1	
ROPN1B	215425	583	27	10801	3038	0	0	0	0	50	1	459907	1	1	
ROPN1L	628188	219	21	11760	3171	0	0	0	0	50	0	417956	1	1	
ROR1	138354	492	-3	46655	13237	0	0	0	0	50	0	428197	1	1	
ROR2	457045	572	30	46305	13839	0	0	0	0	50	1	354123	1	1	
RORA	231490	883	13	35056	8876	0	0	0	0	50	0	383075	1	1	
RORB	95756	913	-21	23821	5915	0	0	0	0	50	0	411159	1	1	
RORC	1014595	212	33	26355	7371	0	0	0	0	50	0	351512	1	1	

ROS1	168682	310	-18	119609	31843	0	0	0	0	50	0	451598	1	1	
RP1	148553	735	-8	107723	28420	0	0	0	0	50	0	413231	1	1	
RP1L1	99570	456	15	115157	36358	0	0	0	0	50	0	402122	1	1	
RP2	705104	NaN	42	17850	4599	0	0	0	0	50	0	483238	1	1	
RP9	376764	459	15	11613	2835	0	0	0	0	50	1	339794	1	1	
RPA1	1473497	224	18	31857	8358	0	0	0	0	50	0	465479	1	1	
RPA2	891090	272	20	14049	3696	0	0	0	0	50	1	409409	1	1	
RPA3	218130	434	16	6398	1582	0	0	0	0	50	0	404803	1	1	
RPA4	53531	NaN	36	12845	3661	0	0	0	0	50	0	417123	1	1	
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RPAP1	744461	166	44	67585	22253	0	0	1	0	50	3	406455	1	1	
RPAP2	363408	559	0	31696	7994	0	0	0	0	50	0	387513	1	1	
RPAP3	429377	382	5	34804	8498	0	0	0	0	50	0	363195	1	1	
RPE	181785	778	-2	12803	3346	0	0	0	0	50	0	420147	1	1	
RPE65	201619	477	-16	27657	7119	0	0	0	0	50	1	435365	1	1	
RPF1	238252	685	-2	18067	4697	0	0	0	0	50	0	370566	1	1	
RPF2	343624	410	29	16198	3983	0	0	0	0	50	0	459221	1	1	
RPGR	141269	NaN	28	68859	16653	0	0	0	0	50	0	498589	1	1	
RPGRIP1	722324	263	39	65730	17325	0	0	0	0	50	1	504616	1	1	
RPGRIP1L	248316	406	-15	68264	16828	0	0	0	0	50	0	362887	1	1	
RPH3A	651570	527	28	35966	9499	0	0	0	0	50	1	490056	1	1	
RPIA	103964	309	18	15862	4508	0	0	0	0	50	0	378882	1	1	
RPL10	2277674	NaN	40	11081	2968	0	0	0	0	50	0	404474	1	1	
RPL10A	683460	280	36	11284	2954	0	0	0	0	50	0	473249	1	1	
RPL10L	10737	1057	-48	10640	2989	0	0	0	0	50	0	400820	1	1	
RPL11	960799	225	28	9373	2408	0	0	0	0	50	0	404558	1	1	
RPL12	784133	209	45	8701	2345	0	0	0	0	50	1	393204	1	1	
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RPL13A	2173457	290	44	10465	3017	0	0	0	0	50	0	390320	1	1	
RPL14	195734	546	20	11165	3052	0	0	0	0	50	0	359779	1	1	
RPL15	399346	319	6	10108	3059	0	0	0	0	50	0	439306	1	1	
RPL17	236267	352	55	9772	2429	0	0	0	0	50	1	333305	1	1	
RPL18	1597109	242	31	9541	2954	0	0	0	0	50	0	408625	1	1	
RPL18A	1216364	212	37	9009	2562	0	0	0	0	50	1	345779	1	1	
RPL19	1426821	212	31	10276	2639	0	0	0	0	50	0	386533	1	1	
RPL21	284055	265	46	8484	2121	0	0	0	0	50	0	423381	1	1	
RPL22	627248	240	31	6839	1582	0	0	0	0	50	1	361984	1	1	
RPL22L1	211469	610	16	6524	1519	0	0	0	0	14	0	81361	1	1	
RPL23	1255539	159	41	7252	2051	0	0	0	0	50	0	445382	1	1	
RPL23A	1695792	208	40	8064	2205	0	0	0	0	50	0	501767	1	1	
RPL24	548150	419	13	8281	2177	0	0	0	0	50	0	403137	1	1	
RPL26	772200	257	20	7518	1974	0	0	0	0	50	0	340179	1	1	
RPL26L1	488219	181	36	7469	1981	0	0	0	0	50	0	388920	1	1	
RPL27	1507064	201	26	7112	1897	0	0	0	0	50	0	346423	1	1	
RPL27A	338882	406	24	7644	2079	0	0	0	0	50	0	424291	1	1	
RPL28	1038859	194	22	13811	3997	0	0	0	0	50	0	344036	1	1	
RPL29	1045639	224	36	8064	2268	0	0	0	0	50	0	350021	1	1	
RPL3	932556	250	69	20699	5593	0	0	0	0	50	1	399301	1	1	
RPL30	625892	272	35	6181	1505	0	0	0	0	50	0	451773	1	1	
RPL31	335036	406	23	7448	2107	0	0	0	0	50	0	428071	1	1	

RPL32	508965	269	39	6951	1869	0	0	0	0	50	0	401933	1	1	
RPL34	160719	574	14	6146	1708	0	0	0	0	50	0	396893	1	1	
RPL35	1125524	207	41	6272	1876	0	0	0	0	50	0	370020	1	1	
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RPL36	879991	295	21	5446	1526	0	0	0	0	50	0	396795	1	1	
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RPL36AL	563227	409	-4	5453	1414	0	0	0	0	50	0	397075	1	1	
RPL37	212186	526	19	5047	1421	0	0	0	0	50	0	380786	1	1	
RPL37A	590718	460	37	4900	1295	0	0	0	0	50	0	457436	1	1	
RPL38	297367	535	-8	3920	931	0	0	0	0	50	0	389179	1	1	
RPL39	762240	NaN	61	2814	672	0	0	0	0	3	0	28371	1	1	
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RPL3L	1756887	183	42	20608	5894	0	0	0	0	50	0	393113	1	1	
RPL4	507061	219	40	21637	6167	0	0	0	0	50	0	308924	1	1	
RPL41	2878044	171	40	1610	280	0	0	0	0	0	0	280	1	1	
RPL5	582788	274	4	15561	3885	0	0	0	0	50	0	475972	1	1	
RPL6	715909	201	31	14588	4123	0	0	0	0	50	0	345345	1	1	
RPL7	259225	340	19	12943	3269	0	0	0	0	50	0	435974	1	1	
RPL7A	1827885	416	28	13622	3871	0	0	0	0	50	0	337127	1	1	
RPL7L1	1086050	203	41	12572	3451	0	0	0	0	50	0	330211	1	1	
RPL8	1454261	384	20	12691	4025	0	0	0	0	50	0	458885	1	1	
RPL9	648710	177	43	10129	2597	0	0	0	0	50	1	434896	1	1	
RPLP0	1608347	225	59	15897	4767	0	0	0	0	50	0	333165	1	1	
RPLP1	307077	298	19	5845	1694	0	0	0	0	50	1	457800	1	1	
RPLP2	1799017	232	51	5992	1673	0	0	0	0	50	0	368949	1	1	
RPN1	1216952	303	49	30212	8890	0	0	0	0	50	0	376684	1	1	
RPN2	787991	404	44	35714	10780	0	0	0	0	50	1	450513	1	1	
RPP14	596733	221	40	6531	1764	0	0	0	0	50	0	432278	1	1	
RPP21	2023315	430	29	7987	2198	0	0	0	0	50	0	379274	1	1	
RPP25	792240	199	45	9275	3325	0	0	0	0	50	1	423199	1	1	
RPP30	103854	510	4	16989	4725	0	0	0	0	50	1	359352	1	1	
RPP38	254900	620	21	13965	4053	0	0	0	0	50	0	332178	1	1	
RPP40	119393	391	24	18830	4774	0	0	0	0	50	0	418572	1	1	
RPRD1A	370331	430	22	16002	4263	0	0	0	0	50	0	506170	1	1	
RPRD1B	582740	137	45	16464	4641	0	0	0	0	50	0	380135	1	1	
RPRD2	1460825	163	36	70966	21980	0	0	0	0	50	0	534051	1	1	
RPRM	22780	737	-11	5236	1694	0	0	0	0	7	1	94913	1	1	
RPRML	618151	366	28	5586	2037	0	0	0	0	50	2	399784	1	1	
RPS10	892621	233	25	8533	2345	0	0	0	0	50	0	315070	1	1	
RPS11	2126800	210	42	8260	2177	0	0	0	0	50	0	420539	1	1	
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RPS14	1087686	188	71	7630	2324	0	0	0	0	50	0	347788	1	1	
RPS15	2352825	221	38	7371	2163	0	0	0	0	50	0	360416	1	1	
RPS15A	728854	279	21	6853	1778	0	0	0	0	50	0	473739	1	1	
RPS16	1410725	230	39	7420	2261	0	0	0	0	50	0	544768	1	1	
RPS17	NaN	NaN	NaN	14154	3822	0	0	0	0	50	2	783370	1	1	
RPS18	1456953	262	30	7903	2240	0	0	0	0	50	0	411845	1	1	
RPS19	1360684	454	23	7490	2128	0	0	0	0	50	0	367675	1	1	
RPS19BP1	721040	467	72	6797	2086	0	0	0	0	50	0	397838	1	1	

RPS2	1747301	183	46	14420	4648	0	0	0	0	50	0	376299	1	1	
RPS20	344871	489	59	7819	2135	0	0	0	0	50	1	269185	1	1	
RPS21	1190359	252	33	4613	1141	0	0	0	0	50	3	315392	1	1	
RPS23	146308	572	30	7301	2065	0	0	0	0	50	0	401478	1	1	
RPS24	361024	184	30	15295	4214	0	0	0	0	50	0	483693	1	1	
RPS25	1457410	180	55	6692	1750	0	0	0	0	50	0	368228	1	1	
RPS26	2693176	215	38	5894	1708	0	0	0	0	50	1	356629	1	1	
RPS27	2028800	222	34	4613	1078	0	0	0	0	50	0	359492	1	1	
RPS27A	964970	349	25	8267	2044	0	0	0	0	50	0	386477	1	1	
RPS27L	451944	230	36	4550	1057	0	0	0	0	50	0	406049	1	1	
RPS28	778783	209	14	3619	1085	0	0	0	0	50	0	451171	1	1	
RPS29	563227	409	-4	3871	896	0	0	0	0	37	0	281085	1	1	
RPS3	587975	205	39	12173	3745	0	0	0	0	50	0	402710	1	1	
RPS3A	214920	335	26	13776	3423	0	0	0	0	50	1	371945	1	1	
RPS4X	374992	NaN	53	13447	3773	0	0	0	0	50	1	317842	1	1	
RPS4Y1	0	0	0	13419	3801	0	0	0	0	50	1	416332	1	1	
RPS4Y2	0	0	0	13391	3745	0	0	0	0	50	1	416332	1	1	
RPS5	1900140	270	-14	10332	3024	0	0	0	0	50	1	394471	1	1	
RPS6	498767	339	12	12663	3591	0	0	0	0	50	0	496825	1	1	
RPS6KA1	901637	184	32	39627	11424	0	0	0	0	50	0	527240	1	1	
RPS6KA2	235623	646	9	39711	10920	0	0	0	0	50	1	429380	1	1	
RPS6KA3	242944	NaN	36	38493	9954	0	0	0	0	50	0	354263	1	1	
RPS6KA4	1610483	257	51	38129	11956	0	0	0	0	50	0	440104	1	1	
RPS6KA5	410309	521	27	41237	10780	0	0	0	0	50	0	436730	1	1	
RPS6KA6	19108	NaN	-22	38941	9863	0	0	0	0	50	1	553805	1	1	
RPS6KB1	959758	216	20	27195	7140	0	0	0	0	50	1	359940	1	1	
RPS6KB2	1331051	161	52	24444	7203	0	0	0	0	50	1	398118	1	1	
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RPS6KL1	884998	232	41	26614	8372	0	0	0	0	50	0	516810	1	1	
RPS7	253814	371	14	10122	2709	0	0	0	0	50	1	458416	1	1	
RPS8	574317	191	43	10822	2849	0	0	0	0	50	1	401562	1	1	
RPS9	717623	458	-6	9681	2982	0	0	0	0	50	1	354487	1	1	
RPSA	160739	595	32	14868	4284	0	0	0	0	50	0	439075	1	1	
RPTN	486922	468	25	40404	9219	0	0	0	0	50	0	381689	1	1	
RPTOR	782748	381	22	67858	19082	0	0	0	0	50	0	586523	1	1	
RPUSD1	1187310	273	39	15288	4851	0	0	0	0	50	0	458171	1	1	
RPUSD2	892776	192	48	26271	8295	0	0	0	0	50	2	477659	1	1	
RPUSD3	953772	264	43	17115	5775	0	0	0	0	50	0	534303	1	1	
RPUSD4	601483	341	26	18907	5495	0	0	0	0	50	1	438725	1	1	
RQCD1	939398	179	48	15036	4431	0	0	0	0	50	1	405244	1	1	
RRAD	942986	142	34	15064	4823	0	0	0	0	50	0	423577	1	1	
RRAGA	500397	450	-27	15526	4256	0	0	0	0	50	0	364581	1	1	
RRAGB	59904	NaN	23	19593	4872	0	0	0	0	50	0	377398	1	1	
RRAGC	524940	458	24	20454	5292	0	0	0	0	50	0	367367	1	1	
RRAGD	408382	574	54	20489	5278	0	0	0	0	50	0	253876	1	1	
RRAS	1733181	195	36	10906	3353	0	0	0	0	50	1	446607	1	1	
RRAS2	428878	363	-3	10724	2716	0	0	0	0	50	0	360738	1	1	
RRBP1	580543	347	0	49938	13692	0	0	0	0	50	0	430759	1	1	
RREB1	664661	310	35	84847	25802	0	0	0	0	50	0	427070	1	1	
RRH	212757	462	28	17234	4606	0	0	0	0	50	0	355845	1	1	

RRM1	392720	601	31	40992	10479	0	0	0	0	50	1	587384	1	1	
RRM2	805187	220	47	23002	6146	0	0	0	0	50	0	455371	1	1	
RRM2B	504282	507	33	22589	5845	0	0	0	0	50	1	483021	1	1	
RRN3	564013	463	22	33838	8708	0	0	0	0	50	0	361109	1	1	
RRP1	835438	194	66	23681	6475	0	0	0	0	50	1	327271	1	1	
RRP12	892254	188	39	65478	19068	0	0	0	0	50	2	423780	1	1	
RRP15	75487	488	-20	14707	3500	0	0	0	0	50	0	391979	1	1	
RRP1B	892193	157	72	38577	10500	0	0	0	0	50	0	409094	1	1	
RRP7A	969686	196	65	14203	4046	0	0	0	0	50	1	352779	1	1	
RRP8	424523	491	17	22764	6573	0	0	0	0	50	0	443625	1	1	
RRP9	1013177	370	39	24290	6958	0	0	0	0	50	0	388584	1	1	
RRS1	259302	268	12	17556	5502	0	0	0	0	50	0	401961	1	1	
RS1	65885	NaN	26	11641	2996	0	0	0	0	50	0	388955	1	1	
RSAD1	1332860	200	23	21518	7105	0	0	0	0	50	0	475419	1	1	
RSAD2	40919	1132	10	18445	4781	0	0	0	0	50	0	483966	1	1	
RSBN1	318105	406	18	39718	11417	0	0	0	0	50	2	451745	1	1	
RSBN1L	262077	795	25	42357	11634	0	0	0	0	50	0	435890	1	1	
RSC1A1	677127	162	28	30240	8757	0	0	0	0	50	1	330337	1	1	
RSF1	577731	354	33	73570	18536	0	0	0	0	50	0	500675	1	1	
RSL1D1	558203	294	37	24864	6783	0	0	0	0	50	0	363209	1	1	
RSL24D1	195231	721	-36	8946	1806	0	0	0	0	50	0	512253	1	1	
RSPH10B	NaN	NaN	NaN	91077	21861	0	0	0	0	50	2	801409	1	1	
RSPH10B2	974099	506	41	91077	21861	0	0	0	0	50	0	537999	1	1	
RSPH3	514213	348	42	27818	8113	0	0	0	0	50	1	370391	1	1	
RSPH4A	247712	479	10	36638	8953	0	0	0	0	50	0	398426	1	1	
RSPH6A	906385	203	41	35630	10024	0	0	0	0	50	0	439145	1	1	
RSPH9	1626879	278	43	13902	3969	0	0	0	0	50	0	482370	1	1	
RSPO1	445248	274	29	13321	3647	0	0	0	0	50	1	434413	1	1	
RSPO2	187803	942	-9	12789	2919	0	0	0	0	50	0	405426	1	1	
RSPO3	106114	826	-9	14175	3360	0	0	0	0	50	1	351729	1	1	
RSPO4	779522	586	27	11844	3339	0	0	0	0	50	0	524566	1	1	
RSPRY1	717872	149	48	29708	7777	0	0	0	0	50	3	351449	1	1	
RSRC1	196207	1080	-3	17297	4564	0	0	0	0	50	0	327929	1	1	
RSRC2	868107	154	39	23184	5733	0	0	0	0	50	1	406483	1	1	
RSU1	506025	792	1	14441	3745	0	0	0	0	50	0	439621	1	1	
RTBDN	1937827	226	32	12915	4095	0	0	0	0	50	1	414729	1	1	
RTCD1	333324	526	7	19411	5453	0	0	0	0	50	0	389144	1	1	
RTDR1	223123	573	53	17437	5096	0	0	0	0	50	0	366009	1	1	
RTEL1	1110751	172	45	65793	18942	0	0	0	0	50	0	422870	1	1	
RTF1	820644	237	37	36925	9338	0	0	0	0	50	0	355432	1	1	
RTKN	1069803	343	45	29134	8876	0	0	0	0	50	0	390285	1	1	
RTKN2	111669	382	9	31465	7931	0	0	0	0	50	0	440237	1	1	
RTL1	356726	585	-24	65919	19782	0	0	0	0	50	0	422597	1	1	
RTN1	298900	639	-2	38983	12005	0	0	0	0	50	0	354585	1	1	
RTN2	1183590	164	41	26537	8701	0	0	0	0	50	0	365260	1	1	
RTN3	1291649	168	46	52591	14714	0	0	0	0	50	1	445732	1	1	
RTN4	913521	362	11	59521	17066	0	0	0	0	26	0	140693	1	1	
RTN4IP1	223177	271	40	20048	5635	0	0	0	0	50	0	378931	1	1	
RTN4R	530222	292	44	21973	7973	0	0	0	0	50	1	421680	1	1	
RTN4RL1	1445978	224	22	21168	6804	0	0	0	0	50	0	357350	1	1	

RTN4RL2	923775	197	9	19621	7049	0	0	0	0	50	0	363020	1	1	
RTP1	425258	445	28	13111	3647	0	0	0	0	50	0	493549	1	1	
RTP2	88374	374	24	11291	3031	0	0	0	0	50	0	403662	1	1	
RTP3	289420	565	32	11816	3031	0	0	0	0	50	0	477022	1	1	
RTP4	377182	466	33	12299	3388	0	0	0	0	50	1	345009	1	1	
RTTN	64673	504	37	113120	31255	0	0	0	0	50	1	408324	1	1	
RUFY1	1583299	229	17	36519	9576	0	0	0	0	17	0	220220	1	1	
RUFY2	740263	294	23	35763	8568	0	0	0	0	50	0	474565	1	1	
RUFY3	262894	589	25	39375	10353	0	0	0	0	50	1	477309	1	1	
RUFY4	671005	344	28	28784	8092	0	0	0	0	50	2	392357	1	1	
RUNDC1	1507064	201	26	29694	9408	0	0	0	0	50	0	346423	1	1	
RUNDC2A	570118	441	51	19292	5026	0	0	0	0	50	0	499268	1	1	
RUNDC3A	1009890	175	40	23002	6461	0	0	0	0	50	0	564690	1	1	
RUNDC3B	287293	839	-3	24374	6412	0	0	0	0	50	1	387254	1	1	
RUNX1	164915	429	45	24353	7567	0	0	0	0	50	1	433629	1	1	
RUNX1T1	5155	1075	-30	30597	8589	0	0	0	0	50	0	495873	1	1	
RUNX2	54989	416	8	26131	7721	0	0	0	0	50	0	410235	1	1	
RUNX3	566264	443	27	21189	6615	0	0	0	0	50	0	406126	1	1	
RUSC1	1668953	177	44	45563	14959	0	0	0	0	50	0	381178	1	1	
RUSC2	1081620	300	28	72870	23625	0	0	0	0	50	0	419510	1	1	
RUVBL1	834133	419	46	23240	6391	0	0	0	0	50	1	484897	1	1	
RUVBL2	1998663	190	39	23653	6839	0	0	0	0	50	0	445221	1	1	
RWDD1	254581	479	14	13013	2863	0	0	0	0	50	0	356314	1	1	
RWDD2A	153997	734	6	14735	3808	0	0	0	0	50	0	482895	1	1	
RWDD2B	316591	303	34	16352	4186	0	0	0	0	50	0	357833	1	1	
RWDD3	172385	582	-13	13916	3619	0	0	0	0	50	0	452473	1	1	
RWDD4A	150717	254	-3	10059	2352	0	0	0	0	50	0	425586	1	1	
RXFP1	151976	534	-10	39389	9877	0	0	0	0	50	0	505274	1	1	
RXFP2	223402	693	5	39158	9877	0	0	0	0	50	0	443345	1	1	
RXFP3	268032	863	8	22232	7378	0	0	0	0	50	0	378763	1	1	
RXFP4	1880483	213	32	17367	6279	0	0	0	0	50	1	468048	1	1	
RXRA	300063	295	42	23198	6727	0	0	0	0	50	0	373191	1	1	
RXRB	1474628	377	24	26110	8288	0	0	0	0	50	0	463036	1	1	
RXRG	291474	623	-10	24241	6902	0	0	0	0	50	0	411159	1	1	
RYBP	102513	607	32	11046	3003	0	0	0	0	50	1	457611	1	1	
RYK	538368	306	16	31143	8526	0	0	0	0	50	1	407281	1	1	
RYR1	1481209	353	17	253645	72632	0	0	0	0	40	0	405111	1	1	
RYR2	86856	1024	-24	255486	66234	0	0	0	0	11	0	169309	1	1	
RYR3	140241	806	-13	249564	66003	0	0	0	0	31	0	289387	1	1	
S100A1	NaN	NaN	NaN	4907	1246	0	0	0	0	31	2	344729	1	1	
S100A10	769085	225	29	5194	1148	0	0	0	0	50	0	413581	1	1	
S100A11	527465	349	35	5383	1463	0	0	0	0	50	0	424613	1	1	
S100A12	1140044	401	32	4795	1232	0	0	0	0	50	0	335580	1	1	
S100A13	1555611	183	33	5159	1288	0	0	0	0	50	0	406560	1	1	
S100A14	1454773	186	26	5418	1449	0	0	0	0	50	0	381003	1	1	
S100A16	1454773	186	26	5439	1281	0	0	0	0	50	0	381003	1	1	
S100A2	1454773	186	26	5089	1253	0	0	0	0	50	0	381003	1	1	
S100A3	1454773	186	26	5278	1316	0	0	0	0	50	0	381003	1	1	
S100A4	1454773	186	26	5355	1239	0	0	0	0	50	0	381003	1	1	
S100A5	1454773	186	26	5894	1351	0	0	0	0	50	0	381003	1	1	

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S100A6	1454773	186	26	4718	1225	0	0	0	0	50	0	381003	1	1	
S100A7	1140114	279	38	5425	1211	0	0	0	0	50	0	350959	1	1	
S100A7A	1140044	401	32	5355	1239	0	0	0	0	50	0	335580	1	1	
S100A7L2	1140114	279	38	6062	1309	0	0	0	0	50	0	350959	1	1	
S100A8	1140044	401	32	4984	1148	0	0	0	0	50	0	335580	1	1	
S100A9	1140044	401	32	5964	1449	0	0	0	0	50	0	335580	1	1	
S100B	530282	377	28	4914	1092	0	0	0	0	50	1	415870	1	1	
S100G	294904	NaN	28	4207	1001	0	0	0	0	6	0	47936	1	1	
S100P	501655	278	47	4865	1309	0	0	0	0	50	0	387163	1	1	
S100PBP	1179496	180	20	20797	5621	0	0	0	0	50	0	372253	1	1	
S100Z	246938	418	21	5299	1253	0	0	0	0	50	0	401324	1	1	
S1PR1	190734	597	4	18375	5754	0	0	0	0	50	0	351435	1	1	
S1PR2	1729517	200	31	16576	5810	0	0	0	0	50	0	472304	1	1	
S1PR3	248480	646	4	18270	5607	0	0	0	0	50	0	406140	1	1	
S1PR4	908206	241	21	17696	6601	0	0	0	0	50	1	364784	1	1	
S1PR5	2036812	226	23	18046	7175	0	0	0	0	50	2	439054	1	1	
SAA1	601955	371	17	6328	1673	0	0	0	0	50	0	419720	1	1	
SAA2	601955	371	17	6692	1813	0	0	0	0	50	0	419720	1	1	
SAA4	601955	371	17	6797	1708	0	0	0	0	50	0	419720	1	1	
SAAL1	631291	436	20	24864	6069	0	0	0	0	50	0	487781	1	1	
SAC3D1	3267059	207	46	16667	6097	0	0	0	0	50	0	402752	1	1	
SACM1L	319452	385	45	31087	7553	0	0	0	0	50	2	409899	1	1	
SACS	180800	625	14	227780	61432	0	0	0	0	2	0	75215	1	1	
SAE1	1351246	165	36	19642	4445	0	0	0	0	50	0	526603	1	1	
SAFB	879991	295	21	46970	12460	0	0	0	0	50	0	396795	1	1	
SAFB2	873075	295	17	48601	13181	0	0	0	0	50	0	422177	1	1	
SAG	419346	227	28	21189	5649	0	0	0	0	50	0	476616	1	1	
SAGE1	246199	NaN	26	46249	12320	0	0	0	0	50	0	499149	1	1	
SALL1	332955	935	-42	64414	19271	0	0	0	0	50	0	307006	1	1	
SALL2	707507	470	26	47880	15708	0	0	0	0	50	0	429079	1	1	
SALL3	47663	635	-65	61831	20300	0	0	0	0	50	1	459970	1	1	
SALL4	166846	214	-9	51128	15568	0	0	0	0	50	0	445550	1	1	
SAMD1	1023789	215	34	20608	6986	0	0	0	0	50	0	323015	1	1	
SAMD10	1152034	208	48	10038	3087	0	0	0	0	50	0	472836	1	1	
SAMD11	1851188	467	3	32970	11130	0	0	0	0	50	0	490735	1	1	
SAMD12	190644	575	17	10633	2870	0	0	0	0	50	0	322560	1	1	
SAMD13	226331	769	-12	6083	1540	0	0	0	0	50	0	318269	1	1	
SAMD14	1237828	210	23	22036	6902	0	0	0	0	50	0	434399	1	1	
SAMD3	84835	891	27	27363	6636	0	0	0	0	50	1	426377	1	1	
SAMD4A	653012	376	38	37695	10836	0	0	0	0	50	0	496356	1	1	
SAMD4B	1748498	252	32	34202	10507	0	0	0	0	50	0	460327	1	1	
SAMD5	97528	850	-17	8344	2702	0	0	0	0	50	0	469483	1	1	
SAMD7	400118	622	17	22449	6300	0	0	0	0	50	0	397537	1	1	
SAMD8	215938	188	39	21651	5733	0	0	0	0	50	0	361662	1	1	
SAMD9	362550	625	8	79898	20356	0	0	0	0	50	0	388416	1	1	
SAMD9L	362550	625	8	79611	20328	0	0	0	0	50	0	388416	1	1	
SAMHD1	817783	225	47	32557	8288	0	0	0	0	50	0	503853	1	1	
SAMM50	155890	393	24	24227	6559	0	0	0	0	50	0	375179	1	1	
SAMSN1	157937	898	56	19460	4732	0	0	0	0	50	0	327033	1	1	
SAP130	541058	248	36	53032	16940	0	0	0	0	50	0	426993	1	1	

SAP18	447305	240	43	8722	2471	0	0	0	0	50	1	372477	1	1	
SAP25	NaN	NaN	NaN	9716	3262	0	0	0	0	50	2	782810	1	1	
SAP30	249666	413	23	10948	3227	0	0	0	0	50	0	362775	1	1	
SAP30BP	1898715	198	32	16247	4102	0	0	0	0	50	1	432509	1	1	
SAP30L	581156	416	29	9443	2401	0	0	0	0	50	1	397040	1	1	
SAPS1	1035412	209	5	44632	12866	0	0	0	0	50	1	338198	1	1	
SAPS2	960335	257	60	47096	13447	0	0	0	0	50	1	308168	1	1	
SAPS3	832270	272	48	46725	11655	0	0	0	0	50	0	512057	1	1	
SAR1A	458949	217	39	10374	2667	0	0	0	0	50	0	327691	1	1	
SAR1B	887915	177	46	10367	2674	0	0	0	0	50	1	399245	1	1	
SARM1	1407654	189	19	34951	11396	0	0	0	0	18	0	154476	1	1	
SARNP	1861663	256	32	11354	2821	0	0	0	0	50	1	413280	1	1	
SARS	1000045	287	32	26341	6986	0	0	0	0	50	0	415730	1	1	
SARS2	1794625	282	21	27391	8267	0	0	0	0	37	1	278355	1	1	
SART1	3854361	208	57	40453	11648	0	0	0	0	50	1	425138	1	1	
SART3	437636	399	40	49434	12810	0	0	0	0	50	1	480235	1	1	
SASH1	77939	454	-8	62230	17990	0	0	0	0	50	1	390719	1	1	
SASH3	370406	NaN	69	19061	5530	0	0	0	0	50	2	437444	1	1	
SASS6	292450	530	4	34174	8624	0	0	0	0	50	0	463939	1	1	
SAT1	491139	NaN	46	9163	2093	0	0	0	0	50	0	444528	1	1	
SAT2	2069567	213	34	8897	2296	0	0	0	0	50	0	362775	1	1	
SATB1	67460	883	-6	38479	10493	0	0	0	0	50	0	456358	1	1	
SATB2	104340	978	2	36813	10269	0	0	0	0	50	1	360150	1	1	
SATL1	82752	NaN	-16	32179	8036	0	0	0	0	50	0	448518	1	1	
SAV1	458995	259	31	19271	5257	0	0	0	0	50	0	390075	1	1	
SBDS	485411	355	34	12880	3269	0	0	0	0	50	0	335202	1	1	
SBF1	1028405	207	46	93828	28854	0	0	0	0	50	1	413224	1	1	
SBF2	530606	482	12	94535	25291	0	0	0	0	50	0	358267	1	1	
SBK1	1139917	221	55	20083	6944	0	0	0	0	50	0	547141	1	1	
SBK2	1094560	399	4	16436	5698	0	0	0	0	50	1	293111	1	1	
SBNO1	1090982	125	37	71400	18942	0	0	0	0	50	0	511980	1	1	
SBNO2	2398425	234	17	69818	21175	0	0	0	0	50	0	531139	1	1	
SBSN	1081638	390	41	29141	8386	0	0	0	0	50	1	357574	1	1	
SC4MOL	171541	540	6	15365	3577	0	0	0	0	50	1	432019	1	1	
SC5DL	173979	744	28	15372	3864	0	0	0	0	50	0	423241	1	1	
SC65	1760409	175	35	21987	6195	0	0	0	0	50	1	412223	1	1	
SCAF1	1733181	195	36	61915	21644	0	0	0	0	50	1	446607	1	1	
SCAI	951391	290	31	32704	8498	0	0	0	0	50	0	389144	1	1	
SCAMP2	764533	195	46	16653	4851	0	0	0	0	50	2	423304	1	1	
SCAMP3	1574928	194	45	17444	5152	0	0	0	0	50	0	408905	1	1	
SCAMP4	1944774	239	36	11795	3199	0	0	0	0	50	0	438879	1	1	
SCAMP5	840042	199	44	12208	3164	0	0	0	0	50	0	404572	1	1	
SCAND1	1257811	144	50	8253	3171	0	0	0	0	50	1	437668	1	1	
SCAND3	239465	576	27	66528	17262	0	0	0	0	50	1	458143	1	1	
SCAP	875682	197	45	62335	20153	0	0	0	0	50	0	433328	1	1	
SCAPER	393531	675	22	72765	18816	0	0	0	0	50	0	528745	1	1	
SCARA3	350607	232	30	30065	9310	0	0	0	0	50	0	521514	1	1	
SCARA5	413257	154	32	24325	7595	0	0	0	0	50	1	361781	1	1	
SCARB1	1090766	206	35	27937	7721	0	0	0	0	50	0	325864	1	1	
SCARB2	515813	403	39	24633	6468	0	0	0	0	50	0	542850	1	1	

SCARF1	1361271	198	27	42035	11200	0	0	0	0	50	0	404572	1	1	
SCARF2	606391	351	4	42126	13587	0	0	0	0	50	0	433398	1	1	
SCCPDH	439136	282	3	21875	6139	0	0	0	0	50	1	480081	1	1	
SCD	1162653	171	42	18088	5012	0	0	0	0	50	0	432908	1	1	
SCD5	740142	473	21	19803	5670	0	0	0	0	50	1	363174	1	1	
SCEL	193860	752	51	37534	8561	0	0	0	0	50	0	362250	1	1	
SCFD1	386053	583	2	34132	8435	0	0	0	0	50	0	440118	1	1	
SCFD2	170883	852	18	33579	10248	0	0	0	0	50	0	420329	1	1	
SCG2	276568	364	-7	31150	7868	0	0	0	0	50	0	418698	1	1	
SCG3	415519	247	27	24731	5740	0	0	0	0	50	1	445298	1	1	
SCG5	244857	383	1	10913	2926	0	0	0	0	50	0	518707	1	1	
SCGB1A1	3053973	413	49	4753	1253	0	0	0	0	34	0	179410	1	1	
SCGB1C1	1003496	437	11	4935	1365	0	0	0	0	50	1	295183	1	1	
SCGB1D1	2778889	450	53	4627	1316	0	0	0	0	22	0	119882	1	1	
SCGB1D2	3058870	450	42	4669	1274	0	0	0	0	50	0	320607	1	1	
SCGB1D4	3058870	450	42	4305	1197	0	0	0	0	50	0	320607	1	1	
SCGB2A1	2778889	450	53	5089	1169	0	0	0	0	22	0	119882	1	1	
SCGB2A2	3058870	450	42	4977	1155	0	0	0	0	50	0	320607	1	1	
SCGB3A1	855370	515	13	4998	1827	0	0	0	0	50	1	375893	1	1	
SCGB3A2	137041	470	2	4690	1442	0	0	0	0	50	1	355271	1	1	
SCGBL	790899	512	-33	4942	1379	0	0	0	0	50	0	358358	1	1	
SCGN	260299	630	23	14833	3458	0	0	0	0	50	0	351001	1	1	
SCHIP1	94850	870	-8	24808	6566	0	0	0	0	50	0	578494	1	1	
SCIN	119569	510	-1	36750	9618	0	0	0	0	50	0	426867	1	1	
SCLT1	98655	645	8	36519	8568	0	0	0	0	50	0	506765	1	1	
SCLY	435787	356	32	22456	6608	0	0	0	0	50	1	307727	1	1	
SCMH1	287585	346	25	35532	9807	0	0	0	0	50	1	430738	1	1	
SCML1	70191	NaN	15	16828	4529	0	0	0	0	50	0	444920	1	1	
SCML2	82842	NaN	17	35714	9625	0	0	0	0	50	0	381703	1	1	
SCML4	294918	581	36	20552	6181	0	0	0	0	50	0	380366	1	1	
SCN10A	304612	680	21	98091	27426	0	0	0	0	38	0	397460	1	1	
SCN11A	276625	707	18	91224	23772	0	0	0	0	50	1	461671	1	1	
SCN1A	98532	550	-11	101983	26789	0	0	0	0	50	1	480648	1	1	
SCN1B	738570	419	-34	16989	4809	0	0	0	0	50	0	381451	1	1	
SCN2A	119701	879	-9	103537	27041	0	0	0	0	50	0	616889	1	1	
SCN2B	707709	293	56	10857	3003	0	0	0	0	50	0	315504	1	1	
SCN3A	103604	683	-8	103313	26950	0	0	0	0	50	0	483133	1	1	
SCN3B	681725	451	6	11137	2975	0	0	0	0	50	0	372036	1	1	
SCN4A	1455216	404	25	92512	25193	0	0	0	0	50	0	367892	1	1	
SCN4B	707709	293	56	11431	3332	0	0	0	0	50	0	315504	1	1	
SCN5A	366751	578	25	102193	29162	0	0	0	0	50	1	503244	1	1	
SCN7A	68529	918	-11	86184	21861	0	0	0	0	50	1	570073	1	1	
SCN8A	575393	464	27	100303	26684	0	0	0	0	50	0	462441	1	1	
SCN9A	93566	908	-9	100716	26082	0	0	0	0	50	0	598115	1	1	
SCNM1	1562281	184	33	11781	3318	0	0	0	0	50	0	412216	1	1	
SCNN1A	2670962	198	46	36778	10472	0	0	0	0	50	1	532784	1	1	
SCNN1B	520509	611	32	32648	8743	0	0	0	0	50	1	456365	1	1	
SCNN1D	1744013	273	28	34930	10703	0	0	0	0	50	1	448280	1	1	
SCNN1G	547445	631	23	33096	8862	0	0	0	0	50	0	346675	1	1	
SCO1	59713	749	-45	15141	4347	0	0	0	0	50	0	536683	1	1	

SCO2	1075525	207	42	12705	4242	0	0	0	0	50	1	421141	1	1	
SCOC	186461	708	3	9534	2436	0	0	0	0	50	1	384440	1	1	
SCP2	609222	386	23	29127	7119	0	0	0	0	50	2	494522	1	1	
SCPEP1	333715	254	-10	23373	6216	0	0	0	0	50	1	399175	1	1	
SCRG1	249791	553	8	5117	1288	0	0	0	0	50	1	452347	1	1	
SCRIB	2182434	229	28	80437	26957	0	0	0	0	50	1	491708	1	1	
SCRN1	549429	560	23	22267	5810	0	0	0	0	50	0	369131	1	1	
SCRN2	1071489	214	29	21224	6496	0	0	0	0	50	0	370643	1	1	
SCRN3	385177	419	24	21854	5509	0	0	0	0	50	0	507591	1	1	
SCRT1	2525749	200	28	16443	5628	0	0	0	0	50	0	514801	1	1	
SCRT2	622277	480	42	14728	4760	0	0	0	0	50	1	553476	1	1	
SCT	NaN	NaN	NaN	5873	2107	0	0	0	0	50	2	781655	1	1	
SCTR	211577	497	30	22519	6272	0	0	0	0	50	0	426048	1	1	
SCUBE1	473937	440	30	50876	13237	0	0	0	0	50	0	410879	1	1	
SCUBE2	623689	357	31	52829	13888	0	0	0	0	50	1	483546	1	1	
SCUBE3	654416	207	36	51037	13391	0	0	0	0	50	0	446621	1	1	
SCXA	NaN	NaN	NaN	18984	6636	0	0	0	0	50	2	786184	1	1	
SCXB	NaN	NaN	NaN	18984	6636	0	0	0	0	50	2	786184	1	1	
SCYL1	3988328	197	46	40691	11746	0	0	0	0	50	1	407722	1	1	
SCYL2	184701	578	3	47544	12474	0	0	0	0	50	0	351400	1	1	
SCYL3	181109	624	5	37534	10367	0	0	0	0	50	0	414463	1	1	
SDAD1	486576	399	44	36484	8624	0	0	0	0	50	1	366912	1	1	
SDC1	532338	320	37	15050	4879	0	0	0	0	50	0	406441	1	1	
SDC2	230943	740	-2	10192	2870	0	0	0	0	50	0	414498	1	1	
SDC3	392864	269	48	20692	7595	0	0	0	0	50	0	402521	1	1	
SDC4	1005559	233	36	10024	2891	0	0	0	0	50	0	345058	1	1	
SDCBP	200469	608	11	15414	4158	0	0	0	0	50	1	450359	1	1	
SDCBP2	417756	427	36	14721	4410	0	0	0	0	50	2	419251	1	1	
SDCCAG1	661668	174	27	57113	13468	0	0	0	0	50	0	319333	1	1	
SDCCAG3	1303729	233	36	21882	6342	0	0	0	0	50	1	424487	1	1	
SDCCAG8	182671	1011	0	37968	8820	0	0	0	0	50	1	371826	1	1	
SDF2	1651143	225	31	10479	3087	0	0	0	0	50	0	424907	1	1	
SDF2L1	521773	194	37	10787	3409	0	0	0	0	50	0	382774	1	1	
SDF4	2356409	196	27	20370	5355	0	0	0	0	50	0	525952	1	1	
SDHA	1040169	530	24	33271	9800	0	0	0	0	50	1	366863	1	1	
SDHAF1	NaN	NaN	NaN	5341	2009	0	0	0	0	50	2	781557	1	1	
SDHAF2	1404745	245	58	8617	2198	0	0	0	0	50	0	313789	1	1	
SDHB	678965	221	52	14518	3773	0	0	0	0	50	2	412125	1	1	
SDHC	743182	293	35	10969	2450	0	0	0	0	50	0	540302	1	1	
SDHD	389805	179	31	7924	2450	0	0	0	0	50	0	443954	1	1	
SDK1	48060	954	-23	109823	33355	0	0	0	0	9	0	107310	1	1	
SDPR	158359	484	4	21042	5880	0	0	0	0	50	1	340242	1	1	
SDR16C5	435368	613	-7	15778	4256	0	0	0	0	50	0	286139	1	1	
SDR39U1	898202	411	17	14252	4732	0	0	0	0	50	0	349251	1	1	
SDR42E1	207928	635	13	19201	5789	0	0	0	0	50	0	505337	1	1	
SDR9C7	2103486	286	26	15414	4620	0	0	0	0	50	1	479801	1	1	
SDS	444479	276	36	16303	5012	0	0	0	0	50	0	397117	1	1	
SDSL	444479	276	36	16240	5138	0	0	0	0	50	0	397117	1	1	
SEBOX	1405196	214	10	15729	4326	0	0	0	0	50	0	442414	1	1	
SEC11A	341258	214	52	9247	2513	0	0	0	0	50	0	381808	1	1	

SEC11C	280782	512	53	9968	2653	0	0	0	0	50	0	331660	1	1	
SEC13	742508	333	57	16744	4319	0	0	0	0	50	0	293986	1	1	
SEC14L1	777991	192	20	36792	9954	0	0	0	0	50	0	441581	1	1	
SEC14L2	676863	214	52	22505	5887	0	0	0	0	50	1	428855	1	1	
SEC14L3	657636	288	48	20853	5376	0	0	0	0	50	0	386428	1	1	
SEC14L4	655714	288	38	21140	5551	0	0	0	0	50	0	350294	1	1	
SEC14L5	635794	302	9	35035	10136	0	0	0	0	50	0	525357	1	1	
SEC16A	1413299	233	44	115836	35238	0	0	0	0	50	0	463337	1	1	
SEC16B	103475	499	-10	53809	15134	0	0	0	0	50	1	499275	1	1	
SEC22A	338654	421	48	15680	4228	0	0	0	0	50	2	472094	1	1	
SEC22B	738180	388	24	11046	2898	0	0	0	0	50	0	576310	1	1	
SEC22C	352808	445	32	16198	4382	0	0	0	0	50	1	426944	1	1	
SEC23A	314158	376	-7	39256	10598	0	0	0	0	50	0	442995	1	1	
SEC23B	414545	392	23	39109	10871	0	0	0	0	50	0	430780	1	1	
SEC23IP	450354	404	39	50827	13790	0	0	0	0	50	0	450016	1	1	
SEC24A	899027	175	40	54950	15820	0	0	0	0	14	1	119196	1	1	
SEC24B	202883	438	21	63462	18459	0	0	0	0	50	0	351883	1	1	
SEC24C	1009357	191	42	54334	16499	0	0	0	0	50	2	482986	1	1	
SEC24D	248929	623	24	52451	14476	0	0	0	0	50	0	429156	1	1	
SEC31A	775541	268	38	62013	17136	0	0	0	0	50	0	442365	1	1	
SEC31B	1153157	264	50	58968	17472	0	0	0	0	50	0	407008	1	1	
SEC61A1	817705	419	42	23884	7091	0	0	0	0	50	0	381745	1	1	
SEC61A2	334974	227	29	25291	7196	0	0	0	0	50	0	505617	1	1	
SEC61B	203560	410	37	4851	1554	0	0	0	0	50	0	408534	1	1	
SEC61G	277856	325	-11	3731	868	0	0	0	0	50	1	361802	1	1	
SEC62	398638	553	20	20965	4865	0	0	0	0	50	0	493059	1	1	
SEC63	290010	481	37	40089	9534	0	0	0	0	50	0	364301	1	1	
SECISBP2	163101	627	15	43540	11711	0	0	0	0	50	0	363027	1	1	
SECISBP2L	372654	382	9	53711	14224	0	0	0	0	50	0	516250	1	1	
SECTM1	2856070	193	24	12243	3780	0	0	0	0	50	0	390390	1	1	
SEH1L	436900	355	69	21672	5901	0	0	0	0	50	1	389907	1	1	
SEL1L	192523	330	-11	41097	10668	0	0	0	0	50	0	434868	1	1	
SEL1L2	116952	820	-29	36274	8813	0	0	0	0	50	1	404726	1	1	
SEL1L3	247887	575	54	57792	15519	0	0	0	0	50	0	306943	1	1	
SELE	269222	597	12	31598	7987	0	0	0	0	50	0	361977	1	1	
SELENBP1	1322568	174	42	23989	6776	0	0	0	0	50	0	459634	1	1	
SELK	128709	552	39	5040	1281	0	0	0	0	50	0	335489	1	1	
SELL	293592	597	13	20307	4683	0	0	0	0	50	0	367290	1	1	
SELM	731144	218	40	7238	2338	0	0	0	0	50	0	493983	1	1	
SELO	944000	242	49	32424	10500	0	0	0	0	50	1	466228	1	1	
SELP	294306	478	6	42630	11088	0	0	0	0	50	0	432880	1	1	
SELPLG	448698	280	40	18837	6720	0	0	0	0	50	2	375655	1	1	
SELS	372683	406	2	9772	2744	0	0	0	0	50	0	405167	1	1	
SELT	370681	397	34	10157	2653	0	0	0	0	50	1	390334	1	1	
SELV	1148741	322	25	16149	6174	0	0	0	0	50	0	373254	1	1	
SEMA3A	61350	601	-27	39963	10017	0	0	0	0	50	0	408240	1	1	
SEMA3B	843769	206	51	37051	11606	0	0	0	0	50	0	402556	1	1	
SEMA3C	114018	419	-27	38696	10108	0	0	0	0	50	0	449533	1	1	
SEMA3D	17511	646	-28	40285	10115	0	0	0	0	50	1	378350	1	1	
SEMA3E	74057	955	-30	40005	10227	0	0	0	0	50	0	454237	1	1	

SEMA3F	905995	196	40	39382	11648	0	0	0	0	50	0	440937	1	1	
SEMA3G	1078407	229	62	38458	12131	0	0	0	0	50	1	410865	1	1	
SEMA4A	2294665	211	39	37821	11361	0	0	0	0	50	0	416556	1	1	
SEMA4B	876945	154	52	41258	12628	0	0	0	0	50	2	468349	1	1	
SEMA4C	822597	392	46	40901	12817	0	0	0	0	50	1	543809	1	1	
SEMA4D	163051	596	34	52458	14931	0	0	0	0	50	0	369138	1	1	
SEMA4F	964055	364	41	37478	12187	0	0	0	0	50	0	432285	1	1	
SEMA4G	1020226	247	40	43701	12705	0	0	0	0	50	0	396403	1	1	
SEMA5A	45422	891	-2	54670	14819	0	0	0	0	50	0	420973	1	1	
SEMA5B	504904	328	34	57358	17066	0	0	0	0	50	0	386407	1	1	
SEMA6A	184843	1024	4	51842	14623	0	0	0	0	17	0	133553	1	1	
SEMA6B	2111443	278	43	42672	14637	0	0	0	0	50	0	422268	1	1	
SEMA6C	1562281	184	33	46410	15771	0	0	0	0	50	0	412216	1	1	
SEMA6D	140187	583	-58	55034	15001	0	0	0	0	50	1	385203	1	1	
SEMA7A	640438	204	54	33579	9618	0	0	0	0	50	1	450541	1	1	
SEMG1	842540	324	25	23422	5957	0	0	0	0	50	0	448567	1	1	
SEMG2	842540	324	25	29610	7329	0	0	0	0	50	0	448567	1	1	
SENP1	457498	255	30	33530	8470	0	0	0	0	50	0	359233	1	1	
SENP2	943739	367	46	30688	7826	0	0	0	0	50	1	453516	1	1	
SENP3	1957426	194	24	28672	8414	0	0	0	0	50	2	432103	1	1	
SENP5	766452	258	33	38696	9688	0	0	0	0	50	0	399518	1	1	
SENP6	428787	364	24	57988	14063	0	0	0	0	50	0	337113	1	1	
SENP7	555098	622	1	54439	13706	0	0	0	0	50	1	554491	1	1	
SENP8	1132082	352	26	10766	2737	0	0	0	0	50	0	409486	1	1	
15-Sep	333484	410	-6	8778	2016	0	0	0	0	50	0	396578	1	1	
SEPHS1	246468	433	33	19894	5537	0	0	0	0	50	0	467173	1	1	
SEPHS2	2338593	142	59	21329	6958	0	0	0	0	50	0	432796	1	1	
SEPN1	746382	372	24	29582	8701	0	0	0	0	50	0	568386	1	1	
SEPP1	343552	626	-12	20804	5572	0	0	0	0	50	0	302743	1	1	
SEPSECS	338354	506	32	25522	6944	0	0	0	0	50	0	396179	1	1	
1-Sep	2312884	165	47	18963	5145	0	0	0	0	50	0	374290	1	1	
10-Sep	191347	329	22	23828	5677	0	0	0	0	50	0	380037	1	1	
11-Sep	402678	462	39	22470	5376	0	0	0	0	50	1	411236	1	1	
12-Sep	706891	195	33	18270	5103	0	0	0	0	50	1	383229	1	1	
14-Sep	841217	627	-10	22715	5320	0	0	0	0	50	0	505799	1	1	
2-Sep	1242448	383	24	19061	4753	0	0	0	0	50	0	427077	1	1	
3-Sep	1335011	323	67	19432	4865	0	0	0	0	50	0	314594	1	1	
4-Sep	874267	376	16	25942	7049	0	0	0	0	50	0	361564	1	1	
5-Sep	728313	211	8	19453	4781	0	0	0	0	50	0	441448	1	1	
6-Sep	656561	NaN	61	22848	5775	0	0	0	0	50	0	385077	1	1	
7-Sep	355149	577	33	23303	5257	0	0	0	0	50	0	488747	1	1	
8-Sep	717720	356	59	27111	6615	0	0	0	0	50	0	338380	1	1	
9-Sep	673808	391	24	37009	10724	0	0	0	0	50	0	596666	1	1	
SEPW1	812020	262	36	4746	1218	0	0	0	0	50	0	456687	1	1	
SEPX1	1766472	214	39	6104	1519	0	0	0	0	25	0	219114	1	1	
SERAC1	572602	209	40	33726	8862	0	0	0	0	50	0	395402	1	1	
SERBP1	454341	466	-6	20629	5726	0	0	0	0	50	0	404411	1	1	
SERF1A	NaN	NaN	NaN	14112	3360	0	0	0	0	50	2	782908	1	1	
SERF1B	NaN	NaN	NaN	14112	3360	0	0	0	0	50	2	782908	1	1	
SERF2	784327	286	37	3318	672	0	0	0	0	11	0	60935	1	1	

SERGEF	645462	595	17	23324	6517	0	0	0	0	50	0	375074	1	1	
SERHL2	969686	196	65	16555	4256	0	0	0	0	50	1	352779	1	1	
SERINC1	140855	973	-19	23205	6195	0	0	0	0	50	1	451535	1	1	
SERINC2	748895	262	28	22890	6594	0	0	0	0	50	0	447293	1	1	
SERINC3	781823	276	46	24059	6643	0	0	0	0	50	1	430115	1	1	
SERINC4	784327	286	37	14140	3941	0	0	0	0	50	0	469203	1	1	
SERINC5	362413	673	36	24409	6461	0	0	0	0	50	0	456925	1	1	
SERP1	503198	347	15	3577	812	0	0	0	0	6	0	40467	1	1	
SERP2	190099	161	43	3500	826	0	0	0	0	50	0	347718	1	1	
SERPINA1	201688	843	9	20867	5866	0	0	0	0	50	0	434014	1	1	
SERPINA10	203903	744	-1	22211	6160	0	0	0	0	50	0	394478	1	1	
SERPINA11	278548	858	13	20769	6216	0	0	0	0	50	1	326935	1	1	
SERPINA12	278548	858	13	20867	5656	0	0	0	0	50	1	326935	1	1	
SERPINA3	316239	858	10	21049	5999	0	0	0	0	50	0	363209	1	1	
SERPINA4	316239	858	10	21210	6090	0	0	0	0	50	0	363209	1	1	
SERPINA5	316239	858	10	20279	5698	0	0	0	0	50	0	363209	1	1	
SERPINA6	203903	744	-1	20202	5712	0	0	0	0	50	0	394478	1	1	
SERPINA7	23303	NaN	21	20818	5726	0	0	0	0	50	0	390103	1	1	
SERPINA9	278548	858	13	21588	6216	0	0	0	0	50	1	326935	1	1	
SERPINB1	469210	229	37	19355	5089	0	0	0	0	50	0	375592	1	1	
SERPINB10	133459	522	19	20503	5033	0	0	0	0	50	0	402444	1	1	
SERPINB11	174293	370	-5	20083	5264	0	0	0	0	50	0	437920	1	1	
SERPINB12	190401	339	20	20839	5201	0	0	0	0	50	0	392581	1	1	
SERPINB13	190401	339	20	20174	5110	0	0	0	0	50	0	392581	1	1	
SERPINB2	152044	522	12	21280	5516	0	0	0	0	50	0	515340	1	1	
SERPINB3	174293	370	-5	20188	5033	0	0	0	0	50	0	437920	1	1	
SERPINB4	174293	370	-5	20293	4928	0	0	0	0	50	0	437920	1	1	
SERPINB5	200746	166	24	19208	4984	0	0	0	0	50	0	375704	1	1	
SERPINB6	446135	201	44	19320	4935	0	0	0	0	50	1	360031	1	1	
SERPINB7	159863	441	-11	19537	5054	0	0	0	0	50	0	414407	1	1	
SERPINB8	114875	671	26	19516	4844	0	0	0	0	50	0	386547	1	1	
SERPINB9	457673	201	41	19068	5187	0	0	0	0	50	1	323617	1	1	
SERPINC1	443726	385	13	23373	6468	0	0	0	0	50	0	537320	1	1	
SERPIND1	435437	288	41	25088	6748	0	0	0	0	50	2	404306	1	1	
SERPINE1	1066804	272	39	20356	5684	0	0	0	0	50	0	453978	1	1	
SERPINE2	314351	346	11	20832	5733	0	0	0	0	50	0	417515	1	1	
SERPINE3	202753	434	28	21273	6048	0	0	0	0	50	0	446054	1	1	
SERPINF1	1447501	189	32	20811	6174	0	0	0	0	50	0	424319	1	1	
SERPINF2	1447501	189	32	24710	7252	0	0	0	0	50	0	424319	1	1	
SERPINH1	546732	227	41	20580	6153	0	0	0	0	50	0	365785	1	1	
SERPINI1	145987	567	-12	21336	5229	0	0	0	0	50	0	467635	1	1	
SERPINI2	135686	933	-18	21119	5131	0	0	0	0	50	1	422107	1	1	
SERTAD1	1010633	202	34	11137	3836	0	0	0	0	50	0	355971	1	1	
SERTAD2	632067	332	25	15253	4676	0	0	0	0	50	1	513023	1	1	
SERTAD3	1010633	202	34	9471	3024	0	0	0	0	50	0	355971	1	1	
SERTAD4	178673	440	-8	17885	4858	0	0	0	0	50	0	393897	1	1	
SESN1	385493	465	26	28448	7105	0	0	0	0	50	0	470015	1	1	
SESN2	766835	170	29	23968	7091	0	0	0	0	50	0	457940	1	1	
SESN3	349302	468	13	25235	6580	0	0	0	0	50	0	370300	1	1	
SESTD1	66477	684	11	36253	9086	0	0	0	0	50	0	489328	1	1	

SET	1865107	197	38	16758	3738	0	0	0	0	50	0	470393	1	1	
SETBP1	15027	678	31	81431	23527	0	0	0	0	50	1	420938	1	1	
SETD1A	1508459	247	46	82677	26439	0	0	0	0	50	0	404719	1	1	
SETD1B	NaN	NaN	NaN	92848	29750	0	0	0	0	50	2	809298	1	1	
SETD2	593886	365	46	128387	34930	0	0	0	0	50	0	391349	1	1	
SETD3	340080	429	-11	31136	8281	0	0	0	0	50	0	442435	1	1	
SETD4	219580	318	66	23114	6160	0	0	0	0	50	2	408751	1	1	
SETD5	781227	404	34	71421	21168	0	0	0	0	50	0	490504	1	1	
SETD6	661173	320	1	23534	6958	0	0	0	0	50	0	407498	1	1	
SETD7	400132	191	15	18767	4942	0	0	0	0	50	1	397726	1	1	
SETD8	1167786	177	45	17955	4914	0	0	0	0	50	0	417158	1	1	
SETDB2	413604	343	39	37226	9226	0	0	0	0	50	0	414603	1	1	
SETMAR	96339	400	-20	34104	9303	0	0	0	0	50	0	333067	1	1	
SETX	888858	429	36	135030	35700	0	0	0	0	50	0	453187	1	1	
SEZ6	1793486	220	36	49371	14931	0	0	0	0	50	0	403823	1	1	
SEZ6L	196333	672	-62	50883	15036	0	0	0	0	50	1	467320	1	1	
SEZ6L2	NaN	NaN	NaN	45143	14497	0	0	0	0	50	2	794045	1	1	
SF1	2261775	230	61	41027	11074	0	0	0	0	50	0	455112	1	1	
SF3A1	696089	214	57	40208	11116	0	0	0	0	50	1	447454	1	1	
SF3A2	1603571	240	27	22533	7434	0	0	0	0	50	0	431256	1	1	
SF3A3	445132	232	42	26705	6265	0	0	0	0	50	1	352450	1	1	
SF3B1	736523	276	30	66444	18291	0	0	0	0	50	0	444514	1	1	
SF3B14	243145	226	33	6580	1610	0	0	0	0	50	0	355481	1	1	
SF3B2	3581017	208	47	45619	12635	0	0	0	0	50	1	385700	1	1	
SF3B3	905402	131	40	61243	17591	0	0	0	0	40	1	352345	1	1	
SF3B4	798975	560	17	20559	6678	0	0	0	0	50	1	450401	1	1	
SF3B5	321795	374	17	4396	1085	0	0	0	0	50	3	504189	1	1	
SF4	930697	232	10	33138	8694	0	0	0	0	50	0	421204	1	1	
SFI1	741049	313	37	63588	17451	0	0	0	0	50	0	448791	1	1	
SFMBT1	1008757	282	50	44534	11683	0	0	0	0	50	1	392280	1	1	
SFMBT2	169112	363	12	45724	12341	0	0	0	0	50	0	412531	1	1	
SFN	1022828	188	30	12222	3507	0	0	0	0	50	0	374269	1	1	
SFPQ	822666	380	36	34895	10507	0	0	0	0	50	0	324163	1	1	
SFRP1	248918	632	-4	15813	4200	0	0	0	0	50	0	464688	1	1	
SFRP2	142627	793	-3	14812	4004	0	0	0	0	50	0	422121	1	1	
SFRP4	100826	683	10	17619	4662	0	0	0	0	50	0	523712	1	1	
SFRP5	555867	209	33	15617	4585	0	0	0	0	50	0	442603	1	1	
SFRS1	854628	182	27	13048	3983	0	0	0	0	50	0	358918	1	1	
SFRS11	296676	445	-11	24444	7119	0	0	0	0	50	0	388381	1	1	
SFRS12	388631	437	33	31780	8519	0	0	0	0	50	1	391265	1	1	
SFRS12IP1	81822	632	-1	8540	1624	0	0	0	0	50	0	421225	1	1	
SFRS13A	NaN	NaN	NaN	14497	3857	0	0	0	0	50	2	783405	1	1	
SFRS13B	376032	446	27	13090	3752	0	0	0	0	50	0	481208	1	1	
SFRS14	1327004	215	24	53690	15337	0	0	0	0	50	0	435827	1	1	
SFRS15	291511	621	26	57008	16912	0	0	0	0	50	0	508473	1	1	
SFRS16	1135715	208	25	34342	9863	0	0	0	0	50	0	378119	1	1	
SFRS17A	NaN	NaN	NaN	34237	9947	0	0	0	0	50	2	789495	1	1	
SFRS18	259457	638	13	41524	10094	0	0	0	0	50	0	610442	1	1	
SFRS2	827288	206	22	10332	3738	0	0	0	0	50	0	285460	1	1	
SFRS2B	273779	513	16	12936	4830	0	0	0	0	50	1	444367	1	1	

SFRS2IP	817865	602	11	73948	19460	0	0	0	0	50	1	492562	1	1	
SFRS3	889664	178	40	8337	2478	0	0	0	0	50	1	413000	1	1	
SFRS4	494473	235	21	24780	6825	0	0	0	0	50	0	337981	1	1	
SFRS5	610490	333	47	13860	3927	0	0	0	0	50	0	393330	1	1	
SFRS6	316530	559	-45	17010	5145	0	0	0	0	50	0	388535	1	1	
SFRS7	850854	184	26	11900	3745	0	0	0	0	50	0	362761	1	1	
SFRS8	364490	367	7	47719	13685	0	0	0	0	50	0	397572	1	1	
SFRS9	1563159	216	45	11053	3185	0	0	0	0	50	0	437045	1	1	
SFT2D1	199596	556	18	8477	2233	0	0	0	0	50	0	329462	1	1	
SFT2D2	442995	299	18	8463	2310	0	0	0	0	50	0	391881	1	1	
SFT2D3	NaN	NaN	NaN	9492	4116	0	0	0	0	50	2	783664	1	1	
SFTA2	2223866	223	25	3976	1211	0	0	0	0	28	1	244230	1	1	
SFTA3	58829	624	-18	4844	1393	0	0	0	0	50	0	382998	1	1	
SFTPA1	478276	NaN	11	13335	3780	0	0	0	0	50	0	485534	1	1	
SFTPA2	478276	NaN	11	12327	3696	0	0	0	0	50	0	485534	1	1	
SFTPB	1158965	170	43	19978	5768	0	0	0	0	50	0	386631	1	1	
SFTPC	587455	196	50	9926	3052	0	0	0	0	50	1	394975	1	1	
SFTPD	570627	613	29	18501	5775	0	0	0	0	50	1	440349	1	1	
SFXN1	184629	674	15	16688	4501	0	0	0	0	50	0	336840	1	1	
SFXN2	878626	180	27	16772	4501	0	0	0	0	50	0	399868	1	1	
SFXN3	744964	188	46	16548	4830	0	0	1	0	21	1	100737	1	1	
SFXN4	789279	149	29	17724	4704	0	0	0	0	50	0	465115	1	1	
SFXN5	453374	421	27	17374	5201	0	0	0	0	50	0	470820	1	1	
SGCA	1277832	210	26	19145	6097	0	0	0	0	50	0	469189	1	1	
SGCB	114535	815	8	16338	4221	0	0	0	0	50	0	438263	1	1	
SGCD	48800	1181	3	15967	4508	0	0	0	0	50	1	399735	1	1	
SGCE	393749	462	4	25102	6524	0	0	0	0	50	0	381976	1	1	
SGCG	189677	771	-4	14882	4060	0	0	0	0	50	0	477876	1	1	
SGCZ	3398	1175	-34	15813	4494	0	0	0	0	50	0	387436	1	1	
SGEF	94659	975	-13	40145	11473	0	0	0	0	50	0	459088	1	1	
SGIP1	116994	601	-8	42210	12033	0	0	0	0	50	0	388892	1	1	
SGK1	97901	129	15	33271	8666	0	0	0	0	50	0	367542	1	1	
SGK196	304258	559	12	17388	4893	0	0	0	0	50	0	417193	1	1	
SGK2	345777	303	4	21749	6139	0	0	0	0	50	0	418390	1	1	
SGK223	132314	199	43	67368	21357	0	0	0	0	50	0	395367	1	1	
SGK269	311464	502	30	85869	24444	0	0	0	0	50	1	369663	1	1	
SGK3	391086	405	25	26110	6461	0	0	0	0	50	0	445354	1	1	
SGK494	1651143	225	31	20958	5901	0	0	0	0	50	0	424907	1	1	
SGMS1	295850	573	28	20832	5586	0	0	0	0	50	1	458899	1	1	
SGMS2	144491	683	6	18389	5005	0	0	0	0	50	1	524783	1	1	
SGOL1	100093	761	9	29246	7210	0	0	0	0	50	0	562261	1	1	
SGOL2	555530	248	24	65597	14959	0	0	0	0	50	0	400953	1	1	
SGPL1	424452	579	30	29232	7791	0	0	0	0	50	2	376579	1	1	
SGPP1	321254	311	18	21189	6867	0	0	0	0	50	1	480088	1	1	
SGPP2	283423	596	13	19362	6153	0	0	0	0	50	0	346045	1	1	
SGSH	674340	219	22	24941	7420	0	0	0	0	50	0	493584	1	1	
SGSM1	365627	308	-21	58688	15799	0	0	0	0	50	1	445165	1	1	
SGSM2	780080	271	29	53389	14819	0	0	0	0	50	0	449869	1	1	
SGSM3	469297	355	56	37982	10948	0	0	0	0	50	0	379862	1	1	
SGTA	1354357	291	25	16471	4235	0	0	0	0	50	0	423101	1	1	

SGTB	414857	242	34	16219	3836	0	0	0	0	50	0	395227	1	1	
SH2B1	1146511	221	56	39081	12579	0	0	0	0	50	0	539336	1	1	
SH2B2	574073	361	45	28357	9359	0	0	0	0	50	0	411754	1	1	
SH2B3	466447	479	47	27685	9191	0	0	0	0	50	1	464170	1	1	
SH2D1A	216982	NaN	-14	6573	1806	0	0	0	0	50	0	325472	1	1	
SH2D1B	363646	391	1	6895	1736	0	0	0	0	50	0	385189	1	1	
SH2D2A	1649536	208	53	19873	6041	0	0	0	0	50	0	427007	1	1	
SH2D3A	736129	272	27	27671	9436	0	0	0	0	50	0	482230	1	1	
SH2D3C	1194942	179	58	44268	13608	0	0	0	0	50	0	477190	1	1	
SH2D4A	145909	265	-11	24157	6188	0	0	0	0	50	1	490357	1	1	
SH2D4B	302345	686	-11	18984	4998	0	0	0	0	50	0	416059	1	1	
SH2D5	634204	208	34	20755	6713	0	0	0	0	50	0	398279	1	1	
SH2D6	1067736	180	39	8582	2842	0	0	0	0	50	0	464870	1	1	
SH2D7	434458	271	63	22246	6650	0	0	0	0	50	1	413679	1	1	
SH3BGR	294735	503	5	12481	3185	0	0	0	0	50	0	429695	1	1	
SH3BGRL	137219	NaN	-22	5978	1519	0	0	0	0	50	0	443667	1	1	
SH3BGRL2	205695	824	2	5684	1372	0	0	0	0	50	0	431914	1	1	
SH3BGRL3	1021101	217	22	4746	1344	0	0	0	0	44	0	260967	1	1	
SH3BP1	1136064	180	65	34860	10794	0	0	0	0	50	0	379680	1	1	
SH3BP2	643291	228	43	31969	9800	0	0	0	0	50	1	431921	1	1	
SH3BP4	133390	408	-10	46928	14056	0	0	0	0	50	0	449477	1	1	
SH3BP5	516326	303	32	23177	6307	0	0	0	0	50	0	386659	1	1	
SH3BP5L	411701	567	-4	19222	6020	0	0	0	0	50	0	345030	1	1	
SH3D19	211734	335	23	39557	11452	0	0	0	0	50	0	393967	1	1	
SH3D20	748554	327	12	12194	4522	0	0	0	0	50	0	466123	1	1	
SH3GL1	2100413	216	32	18879	5124	0	0	0	0	50	0	361067	1	1	
SH3GL2	28189	392	-31	18319	4592	0	0	0	0	50	0	408086	1	1	
SH3GL3	179993	757	-3	18088	4508	0	0	0	0	50	0	427280	1	1	
SH3GLB1	315130	393	-12	18844	4886	0	0	0	0	50	0	369684	1	1	
SH3GLB2	1517799	203	29	19999	5789	0	0	0	0	50	0	375144	1	1	
SH3KBP1	340334	NaN	58	35161	9632	0	0	0	0	50	0	340571	1	1	
SH3PXD2A	539433	300	35	54495	16275	0	0	0	0	50	0	447146	1	1	
SH3PXD2B	495571	267	42	45458	13006	0	0	0	0	50	2	376257	1	1	
SH3RF1	241771	244	24	43204	13727	0	0	0	0	50	1	407414	1	1	
SH3RF2	396248	406	-7	35462	11200	0	0	0	0	50	0	406112	1	1	
SH3RF3	266032	464	13	37009	12320	0	0	0	0	50	0	330743	1	1	
SH3TC2	350600	254	15	63812	18739	0	0	0	0	50	1	405181	1	1	
SH3YL1	304765	624	-18	17535	4893	0	0	0	0	50	0	348838	1	1	
SHANK1	632386	593	31	102249	35847	0	0	0	0	0	0	35847	1	1	
SHANK2	544815	678	36	89243	27013	0	0	0	0	49	1	378238	1	1	
SHANK3	669934	295	41	83475	28497	0	0	0	0	50	0	402605	1	1	
SHARPIN	2720766	211	27	18809	6391	0	0	0	0	50	0	518427	1	1	
SHB	486918	551	16	24962	7588	0	0	0	0	50	0	380632	1	1	
SHBG	2069567	213	34	19880	6181	0	0	0	0	50	0	362775	1	1	
SHC1	1612870	224	35	28917	8862	0	0	0	0	50	0	363538	1	1	
SHC2	1370962	423	-24	28539	9198	0	0	0	0	50	0	353381	1	1	
SHC3	207531	633	8	29631	8778	0	0	0	0	50	1	436086	1	1	
SHC4	398758	314	9	31787	8890	0	0	0	0	50	0	474180	1	1	
SHCBP1	422519	419	-38	34643	8806	0	0	0	0	50	0	386540	1	1	
SHD	2132502	244	39	17059	4886	0	0	0	0	50	0	403298	1	1	

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SHE	1711793	337	45	24423	7287	0	0	0	0	50	0	406980	1	1	
SHF	667418	544	27	21119	6181	0	0	0	0	50	1	542409	1	1	
SHFM1	170353	1045	10	3906	735	0	0	0	0	40	0	344386	1	1	
SHH	213448	634	23	21910	7469	0	0	0	0	50	0	391720	1	1	
SHISA2	96652	584	12	14294	4480	0	0	0	0	50	0	460733	1	1	
SHISA3	197282	646	24	11466	3675	0	0	0	0	50	0	383509	1	1	
SHISA4	736064	208	24	9828	2982	0	0	0	0	50	0	506044	1	1	
SHISA5	1480689	223	45	11914	3689	0	0	0	0	50	0	444521	1	1	
SHISA6	NaN	NaN	NaN	26803	8393	0	0	0	0	50	2	787941	1	1	
SHISA7	NaN	NaN	NaN	24885	9324	0	0	0	0	50	2	788872	1	1	
SHISA9	NaN	NaN	NaN	22666	6650	0	0	0	0	50	2	786198	1	1	
SHKBP1	820124	226	40	35161	10913	0	0	0	0	50	0	416535	1	1	
SHMT1	957114	254	9	24423	6993	0	0	0	0	50	0	366485	1	1	
SHMT2	2162032	238	58	25088	7651	0	0	0	0	50	0	473627	1	1	
SHOC2	313830	252	16	29260	8057	0	0	0	0	50	1	412370	1	1	
SHOX	NaN	NaN	NaN	15393	4389	0	0	0	0	50	2	783937	1	1	
SHOX2	162819	946	-8	17381	5467	0	0	0	0	50	0	411999	1	1	
SHPK	504736	354	20	23359	7343	0	0	0	0	50	0	460019	1	1	
SHPRH	93507	878	7	86828	22582	0	0	0	0	50	0	396837	1	1	
SHQ1	140728	510	21	29463	7791	0	0	0	0	50	0	387674	1	1	
SHROOM1	718028	356	58	40145	14182	0	0	0	0	50	0	344218	1	1	
SHROOM3	570950	418	17	96397	30254	0	0	0	0	50	0	395388	1	1	
SHROOM4	36907	NaN	11	73850	20986	0	0	0	0	50	0	460544	1	1	
SI	13371	1355	-23	95116	23954	0	0	0	0	50	0	354298	1	1	
SIAE	172228	604	18	26439	7329	0	0	0	0	50	0	274428	1	1	
SIAH1	170149	392	3	15400	4466	0	0	0	0	50	1	430899	1	1	
SIAH2	348288	544	27	15694	4865	0	0	0	0	50	1	414162	1	1	
SIAH3	820469	632	51	13244	3892	0	0	0	0	50	2	476077	1	1	
SIDT1	466309	468	21	42700	11480	0	0	0	0	50	0	387576	1	1	
SIDT2	426428	228	46	42791	11830	0	0	0	0	50	1	340501	1	1	
SIGIRR	2206786	344	58	20188	6377	0	0	0	0	50	0	474446	1	1	
SIGLEC1	942842	353	32	81921	27489	0	0	0	0	50	0	418922	1	1	
SIGLEC10	393294	583	17	34321	10493	0	0	0	0	50	0	460614	1	1	
SIGLEC11	1679101	205	45	34349	10570	0	0	0	0	50	0	408702	1	1	
SIGLEC12	360870	583	-4	30401	9310	0	0	0	0	50	0	318381	1	1	
SIGLEC14	443199	644	-23	19565	5950	0	0	0	0	50	0	331877	1	1	
SIGLEC15	384767	380	42	15862	5285	0	0	0	0	50	1	425523	1	1	
SIGLEC5	443199	644	-23	27237	8211	0	0	0	0	50	0	331877	1	1	
SIGLEC6	328446	627	-26	23170	6713	0	0	0	0	50	0	433825	1	1	
SIGLEC7	355132	632	1	23051	6979	0	0	0	0	50	0	438557	1	1	
SIGLEC8	393294	583	17	24346	7700	0	0	0	0	50	0	460614	1	1	
SIGLEC9	355132	632	1	22596	7182	0	0	0	0	50	0	438557	1	1	
SIGMAR1	731413	298	51	10962	3444	0	0	0	0	50	0	319746	1	1	
SIK1	807666	312	65	38185	12299	0	0	0	0	50	0	406147	1	1	
SIK2	426569	296	19	46291	13286	0	0	0	0	50	0	406882	1	1	
SIK3	421847	300	34	64064	17542	0	0	0	0	50	0	353983	1	1	
SIKE1	600310	596	-5	11011	2723	0	0	0	0	50	1	411754	1	1	
SIL1	1351545	442	35	23149	6713	0	0	0	0	50	1	391286	1	1	
SILV	2080397	229	31	32312	10276	0	0	0	0	50	0	399000	1	1	
SIM1	103376	626	0	38409	10752	0	0	0	0	50	1	426839	1	1	

SIM2	451019	447	47	35014	10787	0	0	0	0	50	0	525259	1	1	
SIN3A	775031	296	47	64449	17493	0	0	0	0	50	0	381402	1	1	
SIP1	314287	166	3	14707	3794	0	0	0	0	50	1	391629	1	1	
SIPA1	4131934	202	53	49784	17185	0	0	0	0	50	1	407722	1	1	
SIPA1L1	161803	523	34	89929	25466	0	0	0	0	50	1	405090	1	1	
SIPA1L2	94875	598	-14	85834	24395	0	0	0	0	50	0	490917	1	1	
SIPA1L3	688670	605	-17	87024	26838	0	0	0	0	50	0	414666	1	1	
SIRPA	467799	486	41	24997	7490	0	0	0	0	50	1	455231	1	1	
SIRPB1	421731	424	39	37947	11571	0	0	0	0	50	1	432698	1	1	
SIRPB2	397239	386	42	16940	5005	0	0	0	0	50	1	446138	1	1	
SIRPD	422390	424	46	9821	2947	0	0	0	0	50	0	410326	1	1	
SIRPG	421072	486	32	19110	5796	0	0	0	0	50	0	327565	1	1	
SIRT1	321700	296	-2	37429	10451	0	0	0	0	50	0	453229	1	1	
SIRT2	1989663	219	30	20433	5397	0	0	0	0	50	1	429506	1	1	
SIRT3	1463610	437	24	19495	6251	0	0	0	0	50	0	358533	1	1	
SIRT4	1621662	187	56	15449	4627	0	0	0	0	50	0	465661	1	1	
SIRT5	277510	425	37	16380	4830	0	0	0	0	50	0	402192	1	1	
SIRT6	2256881	244	42	17423	5635	0	0	0	0	50	0	422569	1	1	
SIRT7	3798594	211	19	19880	6181	0	0	0	0	50	1	363321	1	1	
SIT1	1202125	248	37	9709	3080	0	0	0	0	50	1	408730	1	1	
SIVA1	711772	247	36	8729	2653	0	0	0	0	50	0	370265	1	1	
SIX1	352813	482	5	13839	4200	0	0	0	0	50	0	379897	1	1	
SIX2	74076	508	23	14077	4403	0	0	0	0	50	0	447657	1	1	
SIX3	133317	566	23	15848	5215	0	0	0	0	50	0	402073	1	1	
SIX4	352813	482	5	37625	11851	0	0	0	0	50	0	379897	1	1	
SIX5	929036	203	43	33747	13041	0	0	0	0	50	1	444647	1	1	
SIX6	325446	618	0	11886	3759	0	0	0	0	50	0	424389	1	1	
SKA1	277376	392	52	13391	3241	0	0	0	0	50	0	405370	1	1	
SKA2	843250	507	9	8848	1820	0	0	0	0	50	1	373247	1	1	
SKA3	447305	240	43	21952	5726	0	0	0	0	50	1	372477	1	1	
SKAP1	1097775	588	4	19264	4424	0	0	0	0	50	1	480907	1	1	
SKAP2	1041630	540	14	19425	4263	0	0	0	0	50	1	390607	1	1	
SKI	788773	262	30	35056	11417	0	0	0	0	50	0	445319	1	1	
SKIL	368934	202	23	34650	8925	0	0	0	0	50	1	439397	1	1	
SKIV2L	2314693	203	34	61831	19082	0	0	0	0	50	0	456526	1	1	
SKIV2L2	344578	395	38	54313	13622	0	0	0	0	50	0	397040	1	1	
SKP1	766424	144	54	9128	2107	0	0	0	0	50	1	432299	1	1	
SKP2	174910	599	-4	24353	6874	0	0	0	0	50	0	435477	1	1	
SLA	NaN	NaN	NaN	16170	4620	0	0	0	0	50	2	784168	1	1	
SLA2	1019481	176	62	13671	3423	0	0	0	0	50	1	360598	1	1	
SLAIN1	131557	900	38	17633	4921	0	0	0	0	50	0	409780	1	1	
SLAIN2	310987	328	55	28595	8659	0	0	0	0	50	1	317527	1	1	
SLAMF1	1160206	634	30	16940	4732	0	0	0	0	50	1	451479	1	1	
SLAMF6	1145424	590	26	16975	4634	0	0	0	0	50	1	427707	1	1	
SLAMF7	1188881	618	29	16919	4795	0	0	0	0	50	1	431557	1	1	
SLAMF8	802263	403	6	14056	4298	0	0	0	0	50	0	307356	1	1	
SLAMF9	812025	365	13	14938	3584	0	0	0	0	50	0	341250	1	1	
SLBP	884891	350	36	14140	3521	0	0	0	0	50	0	476378	1	1	
SLC10A1	610490	333	47	17192	5194	0	0	0	0	50	0	393330	1	1	
SLC10A2	199120	713	24	17360	5047	0	0	0	0	5	0	36876	1	1	

SLC10A3	2163759	NaN	42	22246	7868	0	0	0	0	50	0	434609	1	1	
SLC10A4	310162	396	52	20755	7007	0	0	0	0	50	0	396550	1	1	
SLC10A5	158801	681	12	21280	6335	0	0	0	0	50	0	360759	1	1	
SLC10A6	266749	603	40	18746	5488	0	0	0	0	50	0	306810	1	1	
SLC10A7	60942	1043	16	18046	5264	0	0	0	0	50	0	375788	1	1	
SLC11A1	734742	197	37	27384	8505	0	0	0	0	50	1	428834	1	1	
SLC11A2	566864	155	40	31521	9198	0	0	0	0	50	0	385154	1	1	
SLC12A1	263035	455	-25	57995	15505	0	0	0	0	50	0	480613	1	1	
SLC12A2	257189	531	24	61180	17423	0	0	0	0	50	0	394723	1	1	
SLC12A3	785707	125	37	52241	14854	0	0	0	0	50	0	386134	1	1	
SLC12A4	871877	158	52	58303	16835	0	0	0	0	50	2	471555	1	1	
SLC12A5	630342	381	51	58184	16912	0	0	0	0	50	0	437682	1	1	
SLC12A6	498240	193	16	60158	16891	0	0	0	0	50	0	391881	1	1	
SLC12A7	639628	424	31	54110	16156	0	0	0	0	2	0	30870	1	1	
SLC12A8	372775	150	47	35469	10668	0	0	0	0	10	0	73059	1	1	
SLC12A9	1339207	433	48	43169	15568	0	0	0	0	50	0	470988	1	1	
SLC13A1	99560	955	-15	30149	8617	0	0	0	0	50	1	453082	1	1	
SLC13A2	1517567	225	24	31647	9765	0	0	0	0	50	0	346136	1	1	
SLC13A3	293732	642	28	29911	9128	0	0	0	0	50	0	444654	1	1	
SLC13A4	471922	312	2	31521	9240	0	0	0	0	50	0	467145	1	1	
SLC13A5	800049	424	7	28364	8449	0	0	0	0	50	0	281344	1	1	
SLC14A1	381180	401	25	22379	6475	0	0	0	0	50	0	390747	1	1	
SLC14A2	374175	438	-8	46109	13510	0	0	0	0	50	0	500283	1	1	
SLC15A1	334185	409	41	36946	9611	0	0	0	0	50	2	521199	1	1	
SLC15A2	516880	677	28	37562	10192	0	0	0	0	50	2	348922	1	1	
SLC15A3	802735	546	56	28000	9296	0	0	0	0	50	1	496265	1	1	
SLC15A4	34588	1027	-23	28021	9023	0	0	0	0	50	1	491540	1	1	
SLC15A5	NaN	NaN	NaN	29064	8148	0	0	0	0	50	2	787696	1	1	
SLC16A1	601487	276	16	24598	7301	0	0	0	0	50	1	366996	1	1	
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SLC16A5	1311590	159	28	24542	7756	0	0	0	0	50	0	486507	1	1	
SLC16A6	764688	237	11	25872	7560	0	0	0	0	50	0	427294	1	1	
SLC16A7	22532	899	-36	23751	6762	0	0	0	0	50	0	341915	1	1	
SLC16A8	1478013	200	76	23436	8715	0	0	0	0	50	0	359583	1	1	
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SLC17A2	392745	685	34	21917	6454	0	0	0	0	50	0	360878	1	1	
SLC17A3	313920	673	30	25228	7301	0	0	0	0	50	0	421463	1	1	
SLC17A4	272695	635	29	25018	7280	0	0	0	0	50	0	339465	1	1	
SLC17A5	713348	132	31	24948	7140	0	0	0	0	50	2	413217	1	1	
SLC17A6	51732	865	-14	29575	8078	0	0	0	0	50	2	583989	1	1	
SLC17A7	2173457	290	44	28028	8239	0	0	0	0	50	0	390320	1	1	
SLC17A8	188107	693	-3	30065	8029	0	0	0	0	50	0	382319	1	1	

SLC17A9	961230	336	40	21973	6566	0	0	0	0	50	0	452830	1	1	
SLC18A1	158991	511	-4	26901	7413	0	0	0	0	50	0	414526	1	1	
SLC18A2	202102	624	0	26362	7343	0	0	0	0	50	0	404012	1	1	
SLC18A3	118787	312	32	24556	9023	0	0	0	0	50	1	410718	1	1	
SLC19A1	422182	618	40	27993	9723	0	0	0	0	50	2	404600	1	1	
SLC19A2	294526	487	16	24185	7609	0	0	0	0	50	1	352842	1	1	
SLC19A3	164044	353	-10	24724	7007	0	0	0	0	50	0	452347	1	1	
SLC1A1	228047	813	19	26355	7644	0	0	0	0	50	0	407967	1	1	
SLC1A2	643540	263	15	28574	8491	0	0	0	0	50	1	417956	1	1	
SLC1A3	376343	436	11	27258	8022	0	0	0	0	50	0	421946	1	1	
SLC1A4	653388	340	36	25585	8582	0	0	0	0	50	0	465612	1	1	
SLC1A5	1166804	224	36	25781	9058	0	0	0	0	50	1	371315	1	1	
SLC1A7	509533	391	21	27517	8666	0	0	0	0	50	2	454251	1	1	
SLC20A1	613047	214	57	33754	9842	0	0	0	0	50	0	415492	1	1	
SLC20A2	582397	459	34	32025	9870	0	0	0	0	50	0	557053	1	1	
SLC22A1	653494	449	3	28140	7665	0	0	0	0	50	0	328496	1	1	
SLC22A10	1307417	572	17	26852	8050	0	0	0	0	50	0	417984	1	1	
SLC22A11	1970283	411	54	26838	8631	0	0	0	0	50	0	380254	1	1	
SLC22A12	1970283	411	54	26817	8925	0	0	0	0	50	0	380254	1	1	
SLC22A13	301168	437	22	27118	8456	0	0	0	0	50	0	437283	1	1	
SLC22A14	301168	437	22	29568	8715	0	0	0	0	50	0	437283	1	1	
SLC22A15	589216	538	9	27426	8022	0	0	0	0	50	0	400008	1	1	
SLC22A16	248863	469	20	28805	8239	0	0	0	0	50	0	449379	1	1	
SLC22A17	1220624	456	31	25774	8897	0	0	0	0	50	1	489685	1	1	
SLC22A18	552601	256	34	20475	7098	0	0	0	0	50	0	420994	1	1	
SLC22A18AS	552601	256	34	12236	4018	0	0	0	0	50	0	420994	1	1	
SLC22A2	653647	326	-9	27804	8064	0	0	0	0	50	0	367052	1	1	
SLC22A20	3317462	168	54	17024	5488	0	0	0	0	50	0	384888	1	1	
SLC22A23	465372	453	27	33481	10556	0	0	0	0	50	0	438256	1	1	
SLC22A24	NaN	NaN	NaN	27307	8183	0	0	0	0	50	2	787731	1	1	
SLC22A25	1852481	572	32	27202	7994	0	0	0	0	50	0	358981	1	1	
SLC22A3	545081	363	-12	27419	8554	0	0	0	0	50	1	409885	1	1	
SLC22A4	531594	238	44	27237	8295	0	0	0	0	50	1	373443	1	1	
SLC22A5	543074	264	63	27538	8372	0	0	0	0	50	0	310569	1	1	
SLC22A6	2447828	398	48	27524	8764	0	0	0	0	50	0	323939	1	1	
SLC22A7	1293543	363	51	26271	9114	0	0	0	0	50	1	480879	1	1	
SLC22A8	2447828	398	48	26915	8218	0	0	0	0	50	0	323939	1	1	
SLC22A9	1061448	478	28	27678	7980	0	0	0	0	50	1	459529	1	1	
SLC23A1	832127	177	48	29932	9275	0	0	0	0	50	1	408387	1	1	
SLC23A2	476336	464	37	32613	9576	0	0	0	0	50	0	421729	1	1	
SLC23A3	773232	177	36	30667	9254	0	0	0	0	50	1	392553	1	1	
SLC24A1	501873	240	44	23919	6321	0	0	0	0	50	1	386141	1	1	
SLC24A2	493733	635	-12	33215	9289	0	0	0	0	50	0	295701	1	1	
SLC24A3	161681	913	-20	32879	9100	0	0	0	0	50	0	453565	1	1	
SLC24A4	368522	642	27	30975	8589	0	0	0	0	50	0	469595	1	1	
SLC24A5	219744	588	-38	25214	7105	0	0	0	0	50	1	411383	1	1	
SLC24A6	441204	251	37	28868	9247	0	0	0	0	50	0	339514	1	1	
SLC25A1	487560	277	18	15554	4774	0	0	0	0	50	0	393302	1	1	
SLC25A10	3745109	205	30	14532	4494	0	0	0	0	50	1	351778	1	1	
SLC25A11	1416161	231	30	15610	4823	0	0	0	0	50	0	367325	1	1	

SLC25A12	443171	185	35	34503	9744	0	0	0	0	50	0	426335	1	1	
SLC25A13	149460	802	2	34300	9779	0	0	0	0	50	1	355369	1	1	
SLC25A14	301928	NaN	28	16744	4550	0	0	0	0	50	2	517328	1	1	
SLC25A15	270527	470	44	15218	4312	0	0	0	0	50	1	468734	1	1	
SLC25A16	782017	294	35	16849	4802	0	0	0	0	50	0	481957	1	1	
SLC25A17	854552	191	47	15540	4536	0	0	0	0	50	1	439761	1	1	
SLC25A18	431029	390	-37	15827	4753	0	0	0	0	50	0	405762	1	1	
SLC25A19	1723762	171	31	16030	4697	0	0	0	0	50	0	384559	1	1	
SLC25A2	800016	708	-15	14602	4424	0	0	0	0	50	0	498442	1	1	
SLC25A20	1790488	140	38	15309	4389	0	0	0	0	50	1	433286	1	1	
SLC25A21	68926	481	-44	15596	4144	0	0	0	0	50	0	412083	1	1	
SLC25A22	1788356	193	48	15960	5124	0	0	0	0	50	0	376684	1	1	
SLC25A23	865106	219	33	23219	7084	0	0	0	0	50	2	412020	1	1	
SLC25A24	226531	454	-15	26537	7021	0	0	0	0	50	0	350063	1	1	
SLC25A26	85846	616	0	10850	3115	0	0	0	0	50	0	408702	1	1	
SLC25A27	141781	596	1	16492	4592	0	0	0	0	50	1	406791	1	1	
SLC25A28	383678	436	18	17710	5537	0	0	0	0	50	1	431508	1	1	
SLC25A29	412002	237	37	14280	5124	0	0	0	0	50	0	380408	1	1	
SLC25A3	487754	218	21	20265	5838	0	0	0	0	50	0	335825	1	1	
SLC25A30	680643	296	78	15008	4144	0	0	0	0	50	0	422590	1	1	
SLC25A31	220342	437	-6	15757	4571	0	0	0	0	50	0	398755	1	1	
SLC25A32	430771	673	28	16751	4732	0	0	0	0	50	0	451759	1	1	
SLC25A33	749351	268	33	16030	4760	0	0	0	0	50	0	390551	1	1	
SLC25A34	683349	174	22	14553	4998	0	0	0	0	50	0	457247	1	1	
SLC25A35	870950	218	18	17108	4522	0	0	0	0	50	1	365645	1	1	
SLC25A36	209562	727	18	15512	4648	0	0	0	0	50	0	399917	1	1	
SLC25A37	474894	409	36	16709	4900	0	0	0	0	50	0	469728	1	1	
SLC25A38	160739	595	32	15120	4599	0	0	0	0	50	0	439075	1	1	
SLC25A39	1036092	172	39	18039	5565	0	0	0	0	50	0	586922	1	1	
SLC25A4	317559	530	42	14882	4207	0	0	0	0	50	0	309519	1	1	
SLC25A40	237024	758	6	17731	4466	0	0	0	0	50	0	511959	1	1	
SLC25A41	865106	219	33	18221	5698	0	0	0	0	50	2	412020	1	1	
SLC25A42	1293709	215	30	15673	5012	0	0	0	0	50	0	440706	1	1	
SLC25A43	655775	NaN	34	16618	5264	0	0	0	0	50	0	475321	1	1	
SLC25A44	2294665	211	39	15442	4655	0	0	0	0	50	0	416556	1	1	
SLC25A45	4112809	242	50	14301	4410	0	0	0	0	50	1	406875	1	1	
SLC25A46	127798	846	-7	21000	6027	0	0	0	0	50	1	401667	1	1	
SLC25A5	617823	NaN	30	14707	4382	0	0	0	0	50	1	445494	1	1	
SLC25A6	NaN	NaN	NaN	15274	4592	0	0	0	0	50	2	784140	1	1	
SLC26A1	675007	256	45	34167	12348	0	0	0	0	50	2	418131	1	1	
SLC26A10	1329939	344	52	27510	9156	0	0	0	0	50	1	484764	1	1	
SLC26A11	684326	219	17	29624	9961	0	0	0	0	50	0	379302	1	1	
SLC26A2	1070181	149	44	36155	10633	0	0	0	0	50	0	434238	1	1	
SLC26A3	511053	515	19	38843	11032	0	0	0	0	50	0	326977	1	1	
SLC26A4	515284	579	37	39494	11389	0	0	0	0	50	1	461930	1	1	
SLC26A5	355264	620	17	38374	10892	0	0	0	0	50	1	408835	1	1	
SLC26A6	1386275	212	37	38514	11844	0	0	0	0	50	0	533974	1	1	
SLC26A7	79500	987	-11	34776	9282	0	0	0	0	50	1	486409	1	1	
SLC26A8	876298	407	33	49189	13580	0	0	0	0	50	0	431214	1	1	
SLC26A9	690729	431	33	44863	12887	0	0	0	0	50	0	476154	1	1	

SLC27A1	930383	202	34	31787	9940	0	0	0	0	50	1	434014	1	1	
SLC27A2	308506	282	1	31052	8827	0	0	0	0	50	1	538398	1	1	
SLC27A3	1687837	175	33	35042	11809	0	0	0	0	50	1	385364	1	1	
SLC27A4	1928973	188	64	31983	9597	0	0	0	0	50	0	467257	1	1	
SLC27A5	2673870	276	11	33222	11067	0	0	0	0	50	0	476175	1	1	
SLC27A6	39183	962	-10	31325	8491	0	0	0	0	50	2	520121	1	1	
SLC28A1	355337	291	25	33880	9947	0	0	0	0	50	1	530439	1	1	
SLC28A2	494393	471	23	33390	9555	0	0	0	0	50	0	429261	1	1	
SLC28A3	396533	595	2	35483	9667	0	0	0	0	50	0	449582	1	1	
SLC29A1	1107034	216	51	23009	6853	0	0	0	0	50	0	399238	1	1	
SLC29A2	1963418	182	55	22617	7098	0	0	0	0	50	0	412622	1	1	
SLC29A3	619612	487	40	23142	7455	0	0	0	0	50	0	539567	1	1	
SLC29A4	1791782	289	11	26124	8232	0	0	0	0	13	0	161574	1	1	
SLC2A1	918944	334	35	24192	7623	0	0	0	0	50	0	496195	1	1	
SLC2A10	292810	636	33	25396	9128	0	0	0	0	50	0	307573	1	1	
SLC2A11	643596	182	57	25816	8141	0	0	0	0	50	1	425670	1	1	
SLC2A12	102277	359	16	30058	9212	0	0	0	0	50	0	383852	1	1	
SLC2A13	70254	909	-18	32060	9625	0	0	0	0	50	0	380394	1	1	
SLC2A14	149291	305	14	25893	7770	0	0	0	0	50	0	334565	1	1	
SLC2A2	167361	735	18	26299	7616	0	0	0	0	50	0	417095	1	1	
SLC2A3	122883	305	13	24647	7420	0	0	0	0	50	0	364084	1	1	
SLC2A4	1782958	316	21	24703	8267	0	0	0	0	50	1	326809	1	1	
SLC2A4RG	1126597	202	36	18676	6398	0	0	0	0	50	1	361445	1	1	
SLC2A5	865627	264	31	27503	8449	0	0	0	0	50	1	383663	1	1	
SLC2A6	1858670	315	39	24409	8393	0	0	0	0	50	0	406028	1	1	
SLC2A7	840956	264	31	25172	8071	0	0	0	0	50	1	403907	1	1	
SLC2A8	700547	270	42	23275	7637	0	0	0	0	50	2	442547	1	1	
SLC2A9	222993	916	37	28042	8456	0	0	0	0	50	0	376082	1	1	
SLC30A1	380154	236	22	24570	7518	0	0	0	0	50	1	395885	1	1	
SLC30A10	623319	641	-12	23499	7371	0	0	0	0	50	1	411138	1	1	
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SLC30A3	1238919	230	39	18921	6174	0	0	0	0	50	0	358974	1	1	
SLC30A4	207518	299	10	21560	6034	0	0	0	0	50	0	398167	1	1	
SLC30A5	420762	273	29	40215	11151	0	0	0	0	50	1	474040	1	1	
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SLC30A7	173324	727	-4	19530	5145	0	0	0	0	50	0	342223	1	1	
SLC30A8	496501	456	8	18893	5173	0	0	0	0	50	1	431382	1	1	
SLC30A9	270740	261	28	29379	7896	0	0	0	0	50	0	399672	1	1	
SLC31A1	437406	312	17	9828	2541	0	0	0	0	50	0	356482	1	1	
SLC31A2	448462	456	9	7203	2121	0	0	0	0	50	0	383614	1	1	
SLC32A1	450934	551	36	25270	7952	0	0	0	0	50	0	382704	1	1	
SLC33A1	284462	473	4	27062	8008	0	0	0	0	50	1	400939	1	1	
SLC34A1	1038665	261	59	32592	10605	0	0	0	0	50	1	460180	1	1	
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SLC34A3	1724821	399	43	28938	9933	0	0	0	0	50	0	327124	1	1	
SLC35A1	229577	534	27	17024	4900	0	0	0	0	50	0	335531	1	1	
SLC35A2	834040	NaN	38	21980	6685	0	0	0	0	50	0	294833	1	1	
SLC35A3	287540	530	9	16352	4774	0	0	0	0	50	0	433391	1	1	
SLC35A4	706371	319	29	14819	5656	0	0	0	0	50	1	463330	1	1	
SLC35A5	279107	502	33	21483	5796	0	0	0	0	50	0	377146	1	1	

SLC35B1	880183	361	30	16345	4718	0	0	0	0	50	0	398335	1	1	
SLC35B2	1037256	312	54	20706	6825	0	0	0	0	50	0	388717	1	1	
SLC35B3	294217	804	-11	20538	5628	0	0	0	0	50	0	348355	1	1	
SLC35B4	286704	493	14	17115	4557	0	0	0	0	50	1	351134	1	1	
SLC35C2	543487	612	42	18172	5558	0	0	0	0	50	2	451388	1	1	
SLC35D1	387355	673	-4	18102	5250	0	0	0	0	50	0	345541	1	1	
SLC35D2	340302	400	21	17311	4949	0	0	0	0	50	0	478870	1	1	
SLC35D3	177175	449	21	19600	6755	0	0	0	0	50	0	379127	1	1	
SLC35E1	815495	258	44	19950	6405	0	0	0	0	50	0	412454	1	1	
SLC35E2	1569768	214	33	32956	10367	0	0	0	0	50	0	348663	1	1	
SLC35E3	534146	294	25	15491	4627	0	0	0	0	50	0	316148	1	1	
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SLC35F1	200805	959	-18	20237	6118	0	0	0	0	50	1	362229	1	1	
SLC35F2	392825	538	12	18802	5411	0	0	0	0	50	0	396004	1	1	
SLC35F3	277114	649	1	24339	7182	0	0	0	0	50	0	365743	1	1	
SLC35F4	175308	918	27	25991	7483	0	0	0	0	50	0	398279	1	1	
SLC35F5	518912	544	19	27076	7196	0	0	0	0	50	0	379659	1	1	
SLC36A1	736209	598	22	23786	7105	0	0	0	0	50	0	526022	1	1	
SLC36A2	821078	530	48	23989	7259	0	0	0	0	50	1	435120	1	1	
SLC36A3	871795	530	57	25697	7399	0	0	0	0	50	1	482167	1	1	
SLC36A4	219463	580	-18	25725	6972	0	0	0	0	50	0	390390	1	1	
SLC37A2	428178	762	30	26390	7378	0	0	0	0	50	0	364133	1	1	
SLC37A3	354350	587	28	28343	7147	0	0	0	0	50	2	434021	1	1	
SLC37A4	1424132	180	57	22470	6783	0	0	0	0	50	0	345380	1	1	
SLC38A1	752720	334	9	25340	6664	0	0	0	0	50	0	451409	1	1	
SLC38A10	2679984	197	27	58989	18627	0	0	0	0	50	0	437878	1	1	
SLC38A11	80659	427	-3	19453	5558	0	0	0	0	50	0	403032	1	1	
SLC38A2	755445	311	14	26180	7021	0	0	0	0	50	0	485219	1	1	
SLC38A3	846254	199	44	25767	7308	0	0	0	0	50	0	405503	1	1	
SLC38A4	518041	415	-10	28210	7490	0	0	0	0	50	0	427616	1	1	
SLC38A6	220020	527	-2	28469	7546	0	0	0	0	50	0	365575	1	1	
SLC38A7	572798	188	2	22932	6993	0	0	0	0	50	1	406868	1	1	
SLC38A8	494952	460	3	21371	6853	0	0	0	0	50	0	351554	1	1	
SLC38A9	340223	390	24	29057	7525	0	0	0	0	50	0	452711	1	1	
SLC39A1	2028800	222	34	15148	5579	0	0	0	0	50	0	359492	1	1	
SLC39A10	104678	431	3	42511	10661	0	0	0	0	50	1	310254	1	1	
SLC39A11	276039	538	-34	17017	5348	0	0	0	0	50	1	387429	1	1	
SLC39A12	94785	360	-9	34986	9618	0	0	0	0	50	1	459641	1	1	
SLC39A13	1022438	245	47	18368	5908	0	0	0	0	50	1	469623	1	1	
SLC39A14	683723	144	32	29253	8568	0	0	0	0	50	2	424991	1	1	
SLC39A2	1005555	429	4	14826	4956	0	0	0	0	50	1	348677	1	1	
SLC39A3	1354357	291	25	16429	5726	0	0	0	0	50	0	423101	1	1	
SLC39A4	2043455	200	36	32970	11277	0	0	0	0	50	0	332850	1	1	
SLC39A5	2878071	171	46	25585	9380	0	0	0	0	50	1	480760	1	1	
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SLC39A7	1474628	377	24	23009	7189	0	0	0	0	50	0	463036	1	1	
SLC39A8	275900	441	4	24647	7021	0	0	0	0	50	1	408009	1	1	
SLC39A9	857161	395	40	15120	4788	0	0	0	0	50	0	410473	1	1	
SLC3A1	433205	522	29	35140	8876	0	0	0	0	50	0	385007	1	1	
SLC3A2	2342595	181	71	32809	9968	0	0	0	0	50	0	477421	1	1	

SLC40A1	446631	511	-2	28189	8435	0	0	0	0	50	0	413308	1	1	
SLC41A1	717622	377	37	25151	7987	0	0	0	0	50	0	495082	1	1	
SLC41A2	759566	294	30	28889	8029	0	0	0	0	50	0	442904	1	1	
SLC41A3	210410	610	32	29736	9387	0	0	0	0	50	0	351820	1	1	
SLC43A1	923775	197	9	28070	8386	0	0	0	0	50	0	363020	1	1	
SLC43A2	1362107	198	29	28539	8463	0	0	0	0	50	0	437773	1	1	
SLC43A3	923815	191	-3	24577	7343	0	0	0	0	50	1	353164	1	1	
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SLC44A3	329970	274	-13	33425	8995	0	0	0	0	50	2	398895	1	1	
SLC44A4	2485614	188	36	36169	10346	0	0	0	0	50	0	418222	1	1	
SLC44A5	178229	935	-21	39536	10045	0	0	0	0	50	0	395003	1	1	
SLC45A1	971531	321	25	36169	11606	0	0	0	0	50	0	405468	1	1	
SLC45A2	268032	863	8	26481	7833	0	0	0	0	50	0	378763	1	1	
SLC45A3	747509	281	33	25767	9387	0	0	0	0	50	0	479451	1	1	
SLC45A4	277190	239	57	38878	12047	0	0	0	0	50	2	397138	1	1	
SLC46A1	1410113	190	28	22015	7364	0	0	0	0	50	0	420399	1	1	
SLC46A2	514712	498	10	22575	7665	0	0	0	0	50	0	384930	1	1	
SLC46A3	167695	629	37	23163	6615	0	0	0	0	50	0	330295	1	1	
SLC47A1	558023	414	2	28672	8687	0	0	0	0	50	0	372645	1	1	
SLC47A2	547418	219	-8	30128	9205	0	0	0	0	50	1	448448	1	1	
SLC48A1	395089	320	14	7231	2198	0	0	0	0	50	0	446138	1	1	
SLC4A1	1009890	175	40	45073	13979	0	0	0	0	50	0	564690	1	1	
SLC4A10	229857	820	0	58730	15778	0	0	0	0	50	0	378973	1	1	
SLC4A11	1086365	338	49	48097	14252	0	0	0	0	50	0	379883	1	1	
SLC4A1AP	1116452	205	37	40537	10766	0	0	0	0	50	1	368921	1	1	
SLC4A2	622098	373	41	60725	19369	0	0	0	0	50	0	494340	1	1	
SLC4A3	547550	487	29	61544	19768	0	0	0	0	35	1	393708	1	1	
SLC4A4	216580	975	-4	59808	15792	0	0	0	0	50	0	416283	1	1	
SLC4A5	1065336	272	45	57708	16254	0	0	0	0	50	0	488446	1	1	
SLC4A7	110819	413	-3	61684	16919	0	0	0	0	50	0	448630	1	1	
SLC4A8	527734	331	43	56560	15470	0	0	0	0	50	1	376236	1	1	
SLC4A9	683517	143	39	47355	14931	0	0	0	0	50	1	400491	1	1	
SLC5A1	451895	458	-26	33516	9555	0	0	0	0	50	0	371546	1	1	
SLC5A10	661956	198	16	30254	9583	0	0	0	0	50	0	358050	1	1	
SLC5A11	280701	277	18	33838	10052	0	0	0	0	50	1	395766	1	1	
SLC5A12	52729	921	-8	31157	9016	0	0	0	0	50	1	475902	1	1	
SLC5A2	832764	558	-3	33047	10486	0	0	0	0	50	0	449393	1	1	
SLC5A3	823351	574	88	34923	10374	0	0	0	0	50	0	422576	1	1	
SLC5A4	498785	580	-34	33292	9548	0	0	0	0	50	1	325633	1	1	
SLC5A5	1291250	204	37	31395	10353	0	0	0	0	50	0	330113	1	1	
SLC5A6	1238919	230	39	31283	9961	0	0	0	0	50	0	358974	1	1	
SLC5A7	122653	911	-16	28693	8582	0	0	0	0	50	0	419461	1	1	
SLC5A8	261778	828	-15	30800	8869	0	0	0	0	50	0	365680	1	1	
SLC5A9	27457	480	-10	35063	10696	0	0	0	0	50	2	471793	1	1	
SLC6A1	154960	444	36	30401	8491	0	0	0	0	50	1	488187	1	1	
SLC6A11	225460	545	30	32186	8869	0	0	0	0	50	0	410690	1	1	
SLC6A12	321580	557	28	31199	8722	0	0	0	0	50	1	468027	1	1	
SLC6A13	316827	557	28	30576	8589	0	0	0	0	50	1	468755	1	1	
SLC6A14	82720	NaN	4	33040	8561	0	0	0	0	50	1	525364	1	1	

SLC6A15	20920	1015	-34	38675	10570	0	0	0	0	50	0	479486	1	1	
SLC6A16	2237411	309	35	36694	10661	0	0	0	0	50	0	405881	1	1	
SLC6A17	552043	400	33	36239	10549	0	0	0	0	50	0	381577	1	1	
SLC6A18	657890	541	24	31192	9359	0	0	0	0	50	0	515634	1	1	
SLC6A19	657890	541	24	31724	9247	0	0	0	0	50	0	515634	1	1	
SLC6A2	130705	565	-32	33628	9590	0	0	0	0	50	1	440146	1	1	
SLC6A20	286183	385	43	29631	8568	0	0	0	0	50	1	376355	1	1	
SLC6A3	606209	490	30	31087	9212	0	0	0	0	50	2	524132	1	1	
SLC6A4	558157	298	25	31731	9030	0	0	0	0	50	0	374542	1	1	
SLC6A5	148079	842	1	39977	11557	0	0	0	0	50	1	381668	1	1	
SLC6A6	484954	242	47	31563	8778	0	0	0	0	50	0	359912	1	1	
SLC6A7	1002307	228	49	31766	9457	0	0	0	0	50	1	391069	1	1	
SLC6A8	1716845	NaN	44	31738	9338	0	0	0	0	50	0	375634	1	1	
SLC6A9	875223	214	39	35777	10612	0	0	0	0	50	1	391258	1	1	
SLC7A1	222765	467	9	31150	9464	0	0	0	0	50	0	416983	1	1	
SLC7A10	380625	270	-9	25690	8204	0	0	1	0	50	2	420259	1	1	
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SLC7A13	192785	1147	3	22911	7056	0	0	0	0	50	1	347508	1	1	
SLC7A14	372782	466	24	37723	11417	0	0	0	0	50	0	573048	1	1	
SLC7A2	462453	253	2	37030	10934	0	0	0	0	50	2	466340	1	1	
SLC7A3	824487	NaN	-9	30450	9597	0	0	0	0	50	1	359457	1	1	
SLC7A4	577297	192	58	29974	10430	0	0	0	0	50	0	413014	1	1	
SLC7A5	604095	133	34	24780	8022	0	0	0	0	50	2	376754	1	1	
SLC7A6	864889	281	38	25522	7742	0	0	0	0	50	0	552118	1	1	
SLC7A6OS	819579	281	46	15638	4312	0	0	0	0	50	0	472717	1	1	
SLC7A7	1153069	351	36	25361	7651	0	0	0	0	50	1	348348	1	1	
SLC7A8	1257542	168	41	26523	8085	0	0	0	0	50	0	478618	1	1	
SLC7A9	475532	451	-24	24521	7231	0	0	0	0	50	0	363685	1	1	
SLC8A1	39449	706	-11	50456	14014	0	0	0	0	50	2	603981	1	1	
SLC8A2	797690	276	38	44604	14238	0	0	0	0	50	0	446544	1	1	
SLC8A3	527365	409	28	47789	13594	0	0	0	0	50	0	409675	1	1	
SLC9A1	886940	336	27	40012	12320	0	0	0	0	50	0	419048	1	1	
SLC9A10	268687	508	22	61362	15204	0	0	0	0	50	0	476917	1	1	
SLC9A11	426813	335	9	58681	14462	0	0	0	0	50	0	447426	1	1	
SLC9A2	75782	858	-5	40404	11739	0	0	0	0	50	0	411628	1	1	
SLC9A3	787824	367	29	41153	12796	0	0	0	0	50	0	412748	1	1	
SLC9A3R1	983414	484	17	17689	5348	0	0	0	0	50	0	384020	1	1	
SLC9A3R2	1747301	183	46	16583	5215	0	0	0	0	50	0	376299	1	1	
SLC9A4	184297	671	6	40082	11179	0	0	0	0	50	0	498904	1	1	
SLC9A5	1155617	142	51	44198	13615	0	0	0	0	50	0	377181	1	1	
SLC9A6	248961	NaN	24	35602	10052	0	0	0	0	50	0	447937	1	1	
SLC9A7	686372	NaN	45	36610	10556	0	0	0	0	50	0	414771	1	1	
SLC9A8	649593	165	52	29708	8218	0	0	0	0	50	1	320796	1	1	
SLC9A9	209532	954	7	33138	8820	0	0	0	0	50	0	393925	1	1	
SLCO1A2	481259	873	-33	34440	9009	0	0	0	0	50	1	336259	1	1	
SLCO1B1	518292	799	-25	35420	9352	0	0	0	0	50	1	334208	1	1	
SLCO1B3	151869	521	-24	36008	9457	0	0	0	0	50	1	641641	1	1	
SLCO1C1	91874	501	-24	38724	9534	0	0	0	0	50	0	424011	1	1	
SLCO2A1	547213	487	21	32172	9492	0	0	0	0	50	0	338541	1	1	
SLCO2B1	752269	449	48	35070	10752	0	0	1	0	50	2	442687	1	1	

SLCO3A1	70107	867	-8	36372	10962	0	0	0	0	50	0	555807	1	1	
SLCO4A1	1254192	192	24	35343	11130	0	0	0	0	50	0	432481	1	1	
SLCO4C1	36388	870	-5	36400	10283	0	0	0	0	50	0	422653	1	1	
SLCO5A1	145499	674	16	41937	12222	0	0	0	0	50	0	336574	1	1	
SLCO6A1	132386	647	-12	36400	10052	0	0	0	0	50	0	474964	1	1	
SLFN11	761918	456	11	44835	12327	0	0	0	0	50	0	333732	1	1	
SLFN12	763419	456	18	29323	7406	0	0	0	0	50	1	377643	1	1	
SLFN12L	NaN	NaN	NaN	31262	7966	0	0	0	0	50	2	787514	1	1	
SLFN13	763419	456	18	44702	12208	0	0	1	0	50	1	377643	1	1	
SLFN14	NaN	NaN	NaN	45563	12250	0	0	0	0	50	2	791798	1	1	
SLFN5	753178	505	16	44310	12222	0	0	0	0	50	1	317849	1	1	
SLFNL1	341851	171	29	19838	6118	0	0	0	0	50	0	490931	1	1	
SLIT1	1008851	470	26	77994	21735	0	0	0	0	50	0	498162	1	1	
SLIT2	44181	1366	3	79079	20335	0	0	0	0	16	0	149030	1	1	
SLIT3	401911	706	20	77525	21427	0	0	0	0	50	0	563451	1	1	
SLITRK1	9008	874	-31	33775	10136	0	0	0	0	50	0	392735	1	1	
SLITRK2	1640	NaN	-34	41321	12145	0	0	0	0	50	0	439215	1	1	
SLITRK3	26494	1315	-17	47432	14266	0	0	0	0	50	2	503132	1	1	
SLITRK4	4706	NaN	-30	41237	11641	0	0	0	0	50	0	443226	1	1	
SLITRK5	20779	1253	-27	46424	14077	0	0	0	0	50	0	400358	1	1	
SLITRK6	18898	822	-27	41503	11627	0	0	0	0	50	0	428365	1	1	
SLK	508085	271	37	64078	15344	0	0	0	0	50	0	401303	1	1	
SLMAP	788284	196	35	42406	10430	0	0	0	0	50	0	321356	1	1	
SLMO1	533826	240	48	9093	2415	0	0	0	0	50	0	398104	1	1	
SLMO2	948552	126	25	10017	2688	0	0	0	0	50	0	430444	1	1	
SLN	322905	676	-5	1645	455	0	0	0	0	45	0	275387	1	1	
SLPI	842540	324	25	6951	1722	0	0	0	0	50	0	448567	1	1	
SLTM	532170	212	23	53193	13734	0	0	0	0	50	0	431025	1	1	
SLU7	197504	619	30	31143	7098	0	0	0	0	50	0	397110	1	1	
SLURP1	427585	373	34	5313	1449	0	0	0	0	50	0	345541	1	1	
SMAD1	204089	1182	24	23597	6181	0	0	0	0	50	0	391482	1	1	
SMAD2	108087	185	42	23989	6335	0	0	0	0	50	0	400134	1	1	
SMAD3	444194	194	45	23016	6132	0	0	0	0	50	2	336273	1	1	
SMAD4	156084	422	41	28098	7581	0	0	0	0	50	1	487683	1	1	
SMAD5	284497	449	34	23716	5999	0	0	0	0	50	0	409724	1	1	
SMAD6	580112	197	46	24038	8281	0	0	0	0	50	1	407351	1	1	
SMAD7	160419	191	79	20643	6510	0	0	0	0	50	1	443919	1	1	
SMAD9	189427	731	7	23345	6559	0	0	0	0	50	0	470806	1	1	
SMAGP	494861	194	40	5782	1169	0	0	0	0	50	0	344659	1	1	
SMAP1	169371	764	11	23793	6531	0	0	0	0	50	0	407652	1	1	
SMAP2	718633	438	37	22085	5803	0	0	0	0	50	0	386029	1	1	
SMARCA1	278446	NaN	-7	54698	13783	0	0	0	0	50	0	408961	1	1	
SMARCA2	113887	805	18	81585	21420	0	0	0	0	50	0	379512	1	1	
SMARCA4	1984564	190	40	85092	23877	0	0	0	0	50	0	437507	1	1	
SMARCA5	183412	821	9	54712	13559	0	0	0	0	50	0	402150	1	1	
SMARCAD1	128578	311	16	53900	12859	0	0	0	0	50	0	339885	1	1	
SMARCAL1	590685	384	31	47887	13664	0	0	0	0	50	1	444535	1	1	
SMARCB1	637355	196	52	19740	5250	0	0	0	0	50	1	403515	1	1	
SMARCC1	843941	200	39	56875	15071	0	0	0	0	50	1	387401	1	1	
SMARCD1	1003045	211	56	26103	7413	0	0	0	0	50	1	390411	1	1	

SMARCD2	1446139	380	27	26593	7931	0	0	0	0	50	0	368599	1	1	
SMARCD3	610106	290	32	25375	7112	0	0	0	0	50	1	455595	1	1	
SMARCE1	1042327	196	19	21595	5201	0	0	0	0	50	0	316092	1	1	
SMC1A	920771	NaN	70	64036	15764	0	0	0	0	50	0	408415	1	1	
SMC1B	461206	199	17	64400	15526	0	0	0	0	50	0	385756	1	1	
SMC2	114849	953	-33	62006	15484	0	0	0	0	50	0	332220	1	1	
SMC3	438920	177	46	64057	15029	0	0	0	0	4	0	34132	1	1	
SMC4	435184	513	16	66927	16212	0	0	0	0	50	0	426776	1	1	
SMC5	196227	395	-11	57463	13979	0	0	0	0	50	0	457590	1	1	
SMC6	135213	1245	1	57393	13587	0	0	0	0	10	0	97930	1	1	
SMCHD1	502296	394	33	103684	26642	0	0	0	0	50	0	400239	1	1	
SMCP	59999	804	12	6118	1337	0	0	0	0	50	0	423913	1	1	
SMCR7	925111	223	18	23625	6027	0	0	0	0	50	1	395185	1	1	
SMCR7L	766902	467	74	22337	7231	0	0	0	0	50	0	386974	1	1	
SMCR8	957114	254	9	46116	13062	0	0	0	0	50	0	366485	1	1	
SMEK1	340189	467	40	42098	10885	0	0	0	0	50	0	414421	1	1	
SMEK2	597106	382	25	43729	11165	0	0	0	0	50	2	400855	1	1	
SMG1	790295	125	37	185262	50652	0	0	0	0	8	0	104405	1	1	
SMG6	1171119	368	30	70819	20195	0	0	0	0	50	0	377783	1	1	
SMG7	716427	385	25	64015	17444	0	0	0	0	50	0	572257	1	1	
SMN1	NaN	NaN	NaN	30310	8204	0	0	0	0	50	2	787752	1	1	
SMN2	NaN	NaN	NaN	30898	8330	0	0	0	0	50	2	787878	1	1	
SMNDC1	449754	359	18	12425	3010	0	0	0	0	50	0	412027	1	1	
SMO	811174	420	54	38605	11963	0	0	0	0	50	2	422716	1	1	
SMOC1	607548	307	41	22323	6069	0	0	0	0	50	0	363391	1	1	
SMOC2	121125	883	-32	23653	6209	0	0	0	0	50	1	357784	1	1	
SMOX	784685	231	26	29176	8330	0	0	0	0	50	0	440587	1	1	
SMPD1	424837	471	17	31087	9989	0	0	0	0	50	0	399931	1	1	
SMPD2	328699	559	47	21371	6139	0	0	0	0	50	0	353549	1	1	
SMPD3	794719	279	46	31969	9863	0	0	0	0	50	0	405804	1	1	
SMPD4	349797	593	22	43407	12810	0	0	0	0	50	0	434924	1	1	
SMPDL3A	138284	1073	-1	23198	5992	0	0	0	0	50	1	309939	1	1	
SMPDL3B	891090	272	20	24710	7021	0	0	0	0	50	1	409409	1	1	
SMPX	93024	NaN	0	4683	1260	0	0	0	0	22	0	181720	1	1	
SMR3A	264684	915	25	6363	2310	0	0	0	0	50	0	342755	1	1	
SMR3B	264684	915	25	3850	1358	0	0	0	0	50	0	342755	1	1	
SMS	92980	NaN	23	19187	4816	0	0	0	0	50	0	352849	1	1	
SMTN	726734	202	32	47537	15064	0	0	0	0	50	0	347186	1	1	
SMTNL1	923607	249	32	25851	7056	0	0	0	0	50	2	356237	1	1	
SMTNL2	1239739	318	24	22582	7154	0	0	0	0	50	0	350917	1	1	
SMU1	953054	286	0	26418	6888	0	0	0	0	50	0	346045	1	1	
SMUG1	798393	279	48	12950	4291	0	0	0	0	50	0	350161	1	1	
SMURF1	918974	379	46	38801	10465	0	0	0	0	50	1	497686	1	1	
SMURF2	937631	151	-8	38794	9905	0	0	0	0	50	1	342013	1	1	
SMYD1	175471	543	6	25403	6328	0	0	0	0	50	1	450681	1	1	
SMYD2	465993	505	-11	22792	5516	0	0	0	0	50	0	452774	1	1	
SMYD3	219137	939	-6	22267	5684	0	0	0	0	50	0	359877	1	1	
SMYD4	1458897	153	26	40208	11347	0	0	0	0	50	0	421764	1	1	
SMYD5	536944	452	20	21868	5579	0	0	0	0	50	0	338401	1	1	
SNAI1	575200	181	51	12929	3976	0	0	0	0	50	1	400764	1	1	

SNAI2	16597	598	-22	13461	3654	0	0	0	0	50	0	379071	1	1	
SNAI3	802673	189	41	14014	4655	0	0	0	0	50	0	408009	1	1	
SNAP23	552242	269	39	11158	2786	0	0	0	0	50	0	411943	1	1	
SNAP25	168916	372	-41	13223	2968	0	0	0	0	50	0	421120	1	1	
SNAP29	470051	216	39	13118	3535	0	0	0	0	50	0	329693	1	1	
SNAP47	595623	459	1	24325	7448	0	0	0	0	50	0	332654	1	1	
SNAP91	181148	734	-28	45619	13937	0	0	0	0	50	1	403620	1	1	
SNAPC1	246220	410	26	19467	4536	0	0	0	0	50	0	395381	1	1	
SNAPC2	952640	320	27	15827	5656	0	0	0	0	50	0	411586	1	1	
SNAPC3	201198	650	5	21147	5523	0	0	0	0	50	0	397271	1	1	
SNAPC4	1194160	258	28	71680	22820	0	0	0	0	50	1	330967	1	1	
SNAPC5	507061	219	40	5173	1358	0	0	0	0	50	0	308924	1	1	
SNAPIN	1656449	183	40	6720	2205	0	0	0	0	50	0	418439	1	1	
SNCA	65544	475	-7	7329	1974	0	0	0	0	50	0	407295	1	1	
SNCAIP	142971	684	-6	45857	12943	0	0	0	0	50	0	478002	1	1	
SNCB	579630	359	40	7042	1883	0	0	0	0	50	0	423822	1	1	
SNCG	401785	164	45	6678	1722	0	0	1	0	6	1	33565	1	1	
SND1	566402	650	22	46158	13167	0	0	0	0	50	0	378819	1	1	
SNED1	1332160	278	33	71337	20328	0	0	0	0	50	2	451108	1	1	
SNF8	793101	174	29	13342	3605	0	0	0	0	50	0	451388	1	1	
SNHG3-RCC1	846521	183	26	21182	6160	0	0	0	0	50	0	355474	1	1	
SNIP1	445473	274	30	19593	5712	0	0	0	0	50	1	412832	1	1	
SNN	602364	214	40	4340	1351	0	0	0	0	50	0	427322	1	1	
SNPH	441449	468	32	24073	7448	0	0	0	0	50	0	385630	1	1	
SNRK	153482	399	30	37835	10759	0	0	0	0	50	0	461237	1	1	
SNRNP200	904852	213	43	108486	29841	0	0	0	0	50	1	474096	1	1	
SNRNP25	1005761	238	36	6860	1855	0	0	0	0	50	0	326879	1	1	
SNRNP27	844060	221	37	8106	2184	0	0	0	0	50	1	344246	1	1	
SNRNP35	1090769	424	50	12453	3549	0	0	0	0	50	0	438599	1	1	
SNRNP40	643810	234	30	18354	4998	0	0	0	0	50	1	384272	1	1	
SNRNP48	825677	209	14	17899	4235	0	0	0	0	50	0	428610	1	1	
SNRNP70	2041001	200	41	21756	6594	0	0	0	0	50	0	458465	1	1	
SNRPA	1127178	201	27	14266	3983	0	0	0	0	50	0	386421	1	1	
SNRPA1	372683	406	2	13181	3661	0	0	0	0	50	0	405167	1	1	
SNRPB	652241	477	33	12068	3892	0	0	0	0	50	1	472213	1	1	
SNRPB2	76240	856	-21	11788	2954	0	0	0	0	50	0	416276	1	1	
SNRPC	995432	242	24	8407	2093	0	0	0	0	50	0	373310	1	1	
SNRPD1	301496	165	46	6076	1736	0	0	0	0	50	1	337855	1	1	
SNRPD2	950605	194	45	6104	1603	0	0	0	0	50	1	373975	1	1	
SNRPD3	480889	194	48	6461	1792	0	0	0	0	50	0	360332	1	1	
SNRPE	527029	280	26	5103	1134	0	0	0	0	50	0	296345	1	1	
SNRPF	426671	400	5	4620	1113	0	0	0	0	35	0	238203	1	1	
SNRPG	671278	370	38	4235	910	0	0	0	0	13	0	124964	1	1	
SNRPN	NaN	NaN	NaN	11774	3913	0	0	0	0	50	2	783461	1	1	
SNTA1	539120	237	49	24318	8148	0	0	0	0	50	1	385567	1	1	
SNTB1	154339	819	2	26334	8127	0	0	0	0	50	1	375347	1	1	
SNTB2	1187512	NaN	32	26201	8428	0	0	0	0	50	1	334635	1	1	
SNTG1	2777	1189	-32	27034	7070	0	0	0	0	50	0	427385	1	1	
SNTG2	78833	824	-24	27839	7525	0	0	0	0	50	0	356216	1	1	
SNTN	155962	905	-12	7616	2002	0	0	0	0	50	0	492807	1	1	

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SNUPN	594867	165	39	18648	4767	0	0	0	0	50	0	412951	1	1	
SNURF	233460	1194	-44	3794	1036	0	0	0	0	44	0	391902	1	1	
SNW1	442490	359	42	28987	7427	0	0	0	0	50	2	408261	1	1	
SNX1	742159	223	45	27146	7021	0	0	0	0	50	1	422646	1	1	
SNX10	918425	418	29	10773	2457	0	0	0	0	50	0	454174	1	1	
SNX11	1195543	255	11	13713	3864	0	0	0	0	50	0	406812	1	1	
SNX12	790100	NaN	37	8281	2324	0	0	0	0	50	0	487753	1	1	
SNX13	139013	585	-4	50085	12369	0	0	0	0	50	1	423843	1	1	
SNX14	393321	384	19	49749	12264	0	0	0	0	50	2	454713	1	1	
SNX15	3209258	207	49	17031	5208	0	0	0	0	50	0	481376	1	1	
SNX16	156346	680	6	17794	4529	0	0	0	0	50	0	509348	1	1	
SNX17	1245306	182	52	24038	6811	0	0	0	0	50	1	445158	1	1	
SNX18	68402	643	7	34755	10248	0	0	0	0	50	0	515529	1	1	
SNX19	130522	523	7	48489	14910	0	0	0	0	50	0	455574	1	1	
SNX2	144132	532	31	27181	6797	0	0	0	0	50	2	510370	1	1	
SNX20	294632	792	1	17542	5600	0	0	0	0	50	0	386841	1	1	
SNX21	742720	180	48	18970	6062	0	0	0	0	50	2	302897	1	1	
SNX22	743794	251	43	10003	2765	0	0	0	0	50	1	454545	1	1	
SNX24	154483	532	18	8946	2268	0	0	0	0	50	0	423920	1	1	
SNX25	295066	528	30	43855	10640	0	0	0	0	50	0	456407	1	1	
SNX27	1294954	173	29	27069	7224	0	0	0	0	50	0	472493	1	1	
SNX29	477277	758	18	22176	5943	0	0	0	0	50	0	348334	1	1	
SNX3	336217	451	42	8281	2240	0	0	0	0	50	1	406280	1	1	
SNX30	573618	453	19	22127	6139	0	0	0	0	50	0	371735	1	1	
SNX31	1141276	196	50	23233	5642	0	0	0	0	50	0	421162	1	1	
SNX32	3779084	287	42	20657	5803	0	0	0	0	50	1	388185	1	1	
SNX33	586224	231	34	28546	7805	0	0	0	0	50	0	387065	1	1	
SNX4	319722	132	35	23758	5789	0	0	0	0	50	0	350882	1	1	
SNX5	756104	499	29	21385	5264	0	0	0	0	50	0	458661	1	1	
SNX6	516968	165	10	22043	5509	0	0	0	0	50	1	436436	1	1	
SNX7	42534	903	-21	23338	5852	0	0	0	0	50	0	367500	1	1	
SNX8	806717	291	44	23548	6734	0	0	0	0	50	0	405762	1	1	
SNX9	255375	169	40	31318	7658	0	0	0	0	50	0	331618	1	1	
SOAT1	437024	336	3	28658	7315	0	0	0	0	50	0	419482	1	1	
SOAT2	1727618	177	46	26432	7735	0	0	0	0	50	0	384125	1	1	
SOBP	288292	592	36	42287	13279	0	0	0	0	50	0	359933	1	1	
SOCS1	632841	308	37	9912	3528	0	0	0	0	50	0	431361	1	1	
SOCS2	359700	369	30	9695	2926	0	0	0	0	50	2	426657	1	1	
SOCS3	962609	209	27	10829	3493	0	0	0	0	50	0	441658	1	1	
SOCS4	795059	144	37	22134	5733	0	0	0	0	50	0	362278	1	1	
SOCS5	630448	252	34	26733	7182	0	0	0	0	50	0	354634	1	1	
SOCS6	64018	264	7	26194	7574	0	0	0	0	50	1	439586	1	1	
SOCS7	1035666	181	22	28301	9121	0	0	0	0	50	0	362887	1	1	
SOD1	268523	621	34	7924	2177	0	0	0	0	50	0	308035	1	1	
SOD2	643775	604	19	11480	2989	0	0	0	0	50	0	393757	1	1	
SOD3	269537	617	31	11452	3815	0	0	0	0	50	0	281652	1	1	
SOHLH1	362222	524	29	19586	6307	0	0	0	0	50	0	474586	1	1	
SOHLH2	81451	880	-44	21826	5894	0	0	0	0	50	0	337225	1	1	
SOLH	1205944	213	38	52339	17066	0	0	0	0	50	0	359989	1	1	
SON	908921	375	68	121744	37520	0	0	0	0	19	0	187124	1	1	

SORBS1	295509	445	17	68663	19537	0	0	0	0	50	1	455259	1	1	
SORBS2	157889	374	-1	73934	20419	0	0	0	0	50	0	522200	1	1	
SORBS3	757216	224	45	34076	9940	0	0	0	0	50	1	430206	1	1	
SORCS1	6116	881	-26	62818	17843	0	0	0	0	50	0	417998	1	1	
SORCS2	279342	555	36	57869	17395	0	0	0	0	50	0	357294	1	1	
SORCS3	14547	986	-29	61705	17528	0	0	0	0	50	0	465955	1	1	
SORD	724004	565	19	17906	5320	0	0	0	0	50	0	488775	1	1	
SORL1	199734	650	21	114023	29512	0	0	0	0	36	0	259994	1	1	
SORT1	1030626	302	28	42238	11816	0	0	0	0	50	0	433230	1	1	
SOS1	805852	351	18	67949	17983	0	0	0	0	50	0	448133	1	1	
SOS2	778308	166	46	68096	17773	0	0	0	0	50	4	399420	1	1	
SOST	1081050	192	35	10311	3297	0	0	0	0	50	1	361809	1	1	
SOSTDC1	291856	699	-19	10311	2814	0	0	0	0	50	0	404117	1	1	
SOX1	67826	793	-33	18382	6356	0	0	0	0	50	0	416605	1	1	
SOX10	1370748	203	50	22687	6986	0	0	0	0	50	0	361438	1	1	
SOX11	10248	1198	-17	21518	6370	0	0	0	0	50	1	484589	1	1	
SOX12	879317	185	41	14931	4977	0	0	0	0	50	1	411943	1	1	
SOX13	560073	314	31	31654	8666	0	0	0	0	50	1	427952	1	1	
SOX14	85683	880	-2	11613	3654	0	0	0	0	50	0	433783	1	1	
SOX15	1957426	194	24	11095	3731	0	0	0	0	50	2	432103	1	1	
SOX17	240943	554	-8	19845	6384	0	0	0	0	50	0	428211	1	1	
SOX18	1152034	208	48	17906	6433	0	0	0	0	50	0	472836	1	1	
SOX2	39313	1104	-14	15477	4557	0	0	0	0	50	2	565012	1	1	
SOX21	154313	759	41	13006	4487	0	0	0	0	50	0	361347	1	1	
SOX3	24994	NaN	-22	20811	7350	0	0	0	0	50	1	543739	1	1	
SOX30	260667	1079	41	36806	11032	0	0	0	0	50	0	360948	1	1	
SOX4	117516	676	1	22274	7651	0	0	0	0	50	1	384951	1	1	
SOX5	29515	973	-7	39053	10507	0	0	0	0	50	1	384195	1	1	
SOX6	126866	989	-18	43820	11557	0	0	0	0	50	1	406266	1	1	
SOX7	110362	481	9	18571	6062	0	0	0	0	50	0	440510	1	1	
SOX8	1131712	304	22	21455	6874	0	0	0	0	50	0	472934	1	1	
SOX9	159643	606	-41	24976	7322	0	0	0	0	50	0	444857	1	1	
SP1	1707021	145	57	38248	11732	0	0	0	0	50	0	446124	1	1	
SP100	478720	559	38	56833	12845	0	0	0	0	50	0	435946	1	1	
SP110	473233	643	31	38633	9625	0	0	0	0	50	0	445501	1	1	
SP140	504037	626	37	48097	11186	0	0	0	0	50	1	441966	1	1	
SP140L	535116	642	36	31087	7070	0	0	0	0	50	1	376299	1	1	
SP2	1127646	178	25	29799	9387	0	0	0	0	50	0	362159	1	1	
SP3	296444	376	27	38276	11494	0	0	0	0	50	1	436058	1	1	
SP4	105280	643	26	38178	11697	0	0	0	0	50	0	433552	1	1	
SP5	318434	709	28	18732	6489	0	0	0	0	50	0	427476	1	1	
SP6	1071489	214	29	18018	5817	0	0	0	0	50	0	370643	1	1	
SP7	1701810	166	58	20552	6832	0	0	0	0	50	0	406098	1	1	
SP8	109058	730	11	23877	8316	0	0	0	0	50	0	517552	1	1	
SP9	NaN	NaN	NaN	22757	7882	0	0	0	0	50	2	787430	1	1	
SPA17	172228	604	18	8022	1890	0	0	0	0	50	0	274428	1	1	
SPACA1	176962	684	32	14966	4123	0	0	0	0	50	0	429870	1	1	
SPACA3	286646	837	-10	10878	3150	0	0	0	0	50	1	422044	1	1	
SPACA4	1597109	242	31	5887	1988	0	0	0	0	50	0	408625	1	1	
SPACA5	NaN	NaN	NaN	16744	4256	0	0	0	0	50	2	783804	1	1	

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SPACA5B	566535	NaN	19	16744	4256	0	0	0	0	50	0	431130	1	1	
SPAG1	806617	270	36	47719	12194	0	0	0	0	50	0	427609	1	1	
SPAG11A	69060	693	-5	5502	1617	0	0	0	0	50	0	417550	1	1	
SPAG11B	NaN	NaN	NaN	17864	4606	0	0	0	0	50	2	784154	1	1	
SPAG16	38908	1199	-3	33047	8365	0	0	0	0	50	0	381206	1	1	
SPAG17	192120	741	-7	115213	28931	0	0	0	0	50	0	440650	1	1	
SPAG4	1423559	169	53	22064	6496	0	0	0	0	50	0	366597	1	1	
SPAG5	1651143	225	31	60452	16744	0	0	0	0	50	0	424907	1	1	
SPAG6	177548	462	14	25802	7168	0	0	0	0	50	0	414778	1	1	
SPAG7	1416161	231	30	11984	2926	0	0	0	0	50	0	367325	1	1	
SPAG8	847663	227	54	28462	8393	0	0	0	0	50	0	406126	1	1	
SPAG9	1009546	138	-3	67781	17941	0	0	0	0	50	1	334803	1	1	
SPAM1	87688	541	-19	26474	7063	0	0	0	0	50	1	424550	1	1	
SPANXA1	NaN	NaN	NaN	10276	2576	0	0	0	0	50	2	782124	1	1	
SPANXA2	NaN	NaN	NaN	10276	2576	0	0	0	0	50	2	782124	1	1	
SPANXB1	NaN	NaN	NaN	10626	2772	0	0	0	0	50	2	782320	1	1	
SPANXB2	NaN	NaN	NaN	10626	2772	0	0	0	0	50	2	782320	1	1	
SPANXC	23523	NaN	-15	5040	1302	0	0	0	0	50	1	436079	1	1	
SPANXD	NaN	NaN	NaN	5089	1295	0	0	0	0	31	2	344778	1	1	
SPANXE	28355	NaN	-20	5089	1295	0	0	0	0	50	1	405391	1	1	
SPANXF1	NaN	NaN	NaN	10626	2772	0	0	0	0	50	2	782320	1	1	
SPANXN1	2363	NaN	-22	3843	840	0	0	0	0	33	1	325150	1	1	
SPANXN2	4811	NaN	-27	9163	2366	0	0	0	0	50	0	564732	1	1	
SPANXN3	4577	NaN	-29	7336	1778	0	0	0	0	50	0	451458	1	1	
SPANXN4	2776	NaN	-19	5250	1218	0	0	0	0	19	0	109487	1	1	
SPANXN5	476232	NaN	26	3829	854	0	0	0	0	19	0	121996	1	1	
SPARC	725286	496	43	15904	4004	0	0	0	0	50	1	499674	1	1	
SPARCL1	526761	537	16	34629	8106	0	0	0	0	50	0	404348	1	1	
SPAST	378148	197	28	31255	8960	0	0	0	0	50	0	446495	1	1	
SPATA1	241849	585	-1	24080	5950	0	0	0	0	50	0	329189	1	1	
SPATA12	418332	332	46	9149	2884	0	0	0	0	50	0	398097	1	1	
SPATA13	255006	569	36	63280	18158	0	0	0	0	50	0	391167	1	1	
SPATA16	222219	577	-15	29449	7301	0	0	0	0	50	0	385714	1	1	
SPATA17	87153	966	-21	19075	4613	0	0	0	0	50	1	512330	1	1	
SPATA18	137116	878	9	27559	7406	0	0	0	0	50	0	427203	1	1	
SPATA19	270077	622	-14	8827	2303	0	0	0	0	50	0	340732	1	1	
SPATA2	589377	181	48	25186	7763	0	0	0	0	50	0	372183	1	1	
SPATA20	1532661	200	20	40145	11830	0	0	0	0	50	0	444269	1	1	
SPATA21	813996	191	40	23772	6762	0	0	0	0	50	0	338401	1	1	
SPATA22	365088	515	14	18879	4725	0	0	0	0	50	1	463316	1	1	
SPATA24	NaN	NaN	NaN	10955	2527	0	0	0	0	50	2	782075	1	1	
SPATA2L	1090549	219	38	19824	7098	0	0	0	0	50	0	325458	1	1	
SPATA3	NaN	NaN	NaN	9492	2919	0	0	0	0	50	2	782467	1	1	
SPATA4	134663	504	-4	15512	4186	0	0	0	0	50	0	454839	1	1	
SPATA5	100687	528	11	44835	12789	0	0	0	0	50	0	501893	1	1	
SPATA5L1	340172	254	10	35826	12264	0	0	0	0	50	0	408170	1	1	
SPATA6	27215	691	-19	25305	6510	0	0	0	0	50	1	419006	1	1	
SPATA7	140042	800	-13	30891	7875	0	0	0	0	50	0	414932	1	1	
SPATA8	93099	986	-46	5334	1512	0	0	0	0	50	0	346892	1	1	
SPATA9	305999	216	35	12922	3479	0	0	0	0	50	0	338156	1	1	

SPATC1	2650698	211	27	27979	9695	0	0	0	0	50	0	506884	1	1	
SPATS1	993997	443	40	15666	3948	0	0	0	0	50	0	489804	1	1	
SPATS2	2172889	217	43	27909	7413	0	0	0	0	50	0	447853	1	1	
SPATS2L	476225	433	24	28504	7637	0	0	0	0	50	0	427721	1	1	
SPC24	1808766	233	33	10171	2723	0	0	0	0	50	1	399553	1	1	
SPC25	173915	724	7	11970	2709	0	0	0	0	50	0	466172	1	1	
SPCS1	1217701	272	47	8442	2562	0	0	0	0	50	0	573524	1	1	
SPCS2	767563	454	24	11704	3017	0	0	0	0	50	0	434868	1	1	
SPCS3	128128	550	11	9142	2597	0	0	0	0	50	0	463001	1	1	
SPDEF	890476	207	34	16905	4683	0	0	0	0	50	1	422758	1	1	
SPDYA	481869	238	32	16583	3934	0	0	0	0	50	0	361760	1	1	
SPDYC	3317462	168	54	14868	4137	0	0	0	0	50	0	384888	1	1	
SPDYE1	1042621	239	49	17304	4431	0	0	0	0	50	1	381227	1	1	
SPDYE2	NaN	NaN	NaN	41314	10640	0	0	0	0	50	2	790188	1	1	
SPDYE2L	NaN	NaN	NaN	41314	10640	0	0	0	0	50	2	790188	1	1	
SPDYE3	1430637	204	54	27916	7574	0	0	0	0	50	0	357602	1	1	
SPDYE4	NaN	NaN	NaN	12278	3178	0	0	0	0	50	2	782726	1	1	
SPDYE5	785864	337	70	17395	4487	0	0	0	0	50	0	446880	1	1	
SPDYE6	NaN	NaN	NaN	20657	5320	0	0	0	0	50	2	784868	1	1	
SPEF1	860065	241	43	12026	3409	0	0	0	0	50	0	472983	1	1	
SPEF2	140884	598	-5	94647	23667	0	0	0	0	50	0	440090	1	1	
SPEG	581956	335	35	156191	53263	0	0	0	0	50	0	460747	1	1	
SPEM1	1906324	206	33	15120	4662	0	0	0	0	50	1	462924	1	1	
SPEN	823686	169	28	177492	54579	0	0	0	0	50	0	375109	1	1	
SPERT	813295	613	47	22001	6496	0	0	0	0	50	2	439320	1	1	
SPESP1	373553	452	33	17430	4767	0	0	0	0	50	1	371826	1	1	
SPG11	666585	441	35	125097	32193	0	0	0	0	50	0	380856	1	1	
SPG20	137590	850	-16	33341	9352	0	0	0	0	50	0	480340	1	1	
SPG21	705779	185	57	16023	4116	0	0	0	0	50	1	397075	1	1	
SPG7	1107401	203	39	42182	12460	0	0	0	0	50	0	312095	1	1	
SPHAR	285692	361	9	3262	770	0	0	0	0	31	0	212597	1	1	
SPHK1	1622536	209	24	23226	7791	0	0	0	0	50	0	471408	1	1	
SPHK2	1597109	242	31	30366	11319	0	0	0	0	50	0	408625	1	1	
SPHKAP	93607	615	-9	84567	23562	0	0	0	0	50	0	363384	1	1	
SPI1	1106152	245	46	13888	3584	0	0	0	0	50	0	509936	1	1	
SPIB	1038277	491	30	13083	3948	0	0	0	0	50	1	410634	1	1	
SPIC	305133	649	-1	12740	3157	0	0	0	0	50	0	394121	1	1	
SPIN1	126591	495	-6	13433	3472	0	0	0	0	50	0	442617	1	1	
SPIN2A	145137	NaN	18	12859	3542	0	0	0	0	50	0	288253	1	1	
SPIN2B	145137	NaN	18	12922	3542	0	0	0	0	50	0	288253	1	1	
SPIN3	145082	NaN	13	12845	3556	0	0	0	0	50	0	373814	1	1	
SPIN4	90301	NaN	-19	12208	3542	0	0	0	0	50	1	429618	1	1	
SPINK1	137041	470	2	4256	1078	0	0	0	0	50	1	355271	1	1	
SPINK13	72574	418	-9	5180	1141	0	0	0	0	40	1	311927	1	1	
SPINK14	63265	390	-8	5187	1239	0	0	0	0	46	1	354186	1	1	
SPINK2	595179	572	12	4438	1211	0	0	0	0	50	0	396459	1	1	
SPINK4	856503	167	38	4606	1211	0	0	0	0	50	1	417298	1	1	
SPINK5	68058	390	-10	58723	13328	0	0	0	0	50	2	470141	1	1	
SPINK6	63265	390	-8	4312	1043	0	0	0	0	46	1	354186	1	1	
SPINK7	72574	418	-9	4578	1134	0	0	0	0	40	1	311927	1	1	

SPINK8	1054170	263	37	5313	1197	0	0	0	0	50	0	357455	1	1	
SPINK9	79210	459	-15	4711	1064	0	0	0	0	28	0	248773	1	1	
SPINLW1	1069725	438	36	7840	1757	0	0	0	0	50	0	413413	1	1	
SPINT1	1036414	172	51	26705	7525	0	0	0	0	50	1	399637	1	1	
SPINT2	1410213	301	-1	12796	3647	0	0	0	0	50	1	345849	1	1	
SPINT3	NaN	NaN	NaN	4627	1169	0	0	0	0	31	2	344652	1	1	
SPINT4	777303	359	16	5320	1232	0	0	0	0	50	0	388066	1	1	
SPIRE1	483118	292	49	38451	10626	0	0	0	0	50	0	386484	1	1	
SPIRE2	1220713	219	43	35434	10829	0	0	0	0	50	0	477799	1	1	
SPN	NaN	NaN	NaN	18361	6986	0	0	0	0	50	2	786534	1	1	
SPNS1	1189140	257	55	25564	8771	0	0	0	0	50	0	432040	1	1	
SPNS2	1252775	318	22	26838	8820	0	0	0	0	50	0	359044	1	1	
SPNS3	1297591	273	30	25088	8197	0	0	0	0	50	2	418747	1	1	
SPO11	181292	604	9	20741	5320	0	0	0	0	50	1	409675	1	1	
SPOCD1	1213493	183	35	59199	18732	0	0	0	0	50	1	407155	1	1	
SPOCK1	216344	646	26	22834	5684	0	0	0	0	50	0	344855	1	1	
SPOCK2	757700	169	40	22757	5845	0	0	0	0	50	0	351449	1	1	
SPOCK3	7931	1043	-11	23142	5271	0	0	0	0	50	2	462546	1	1	
SPON1	414198	644	-10	41223	10920	0	0	0	0	50	0	309071	1	1	
SPON2	789524	319	29	16247	5089	0	0	0	0	50	0	398041	1	1	
SPOP	943930	348	28	19425	4956	0	0	0	0	50	0	370489	1	1	
SPOPL	85990	638	15	20566	5033	0	0	0	0	50	0	383929	1	1	
SPP1	445914	367	8	16394	3955	0	0	0	0	50	0	538475	1	1	
SPP2	288133	558	9	11333	2653	0	0	0	0	50	1	441105	1	1	
SPPL2A	329469	225	20	26845	7154	0	0	0	0	50	1	437206	1	1	
SPPL2B	1503606	267	31	29827	9254	0	0	0	0	50	0	402080	1	1	
SPPL3	1410077	392	45	19418	5677	0	0	0	0	50	1	584087	1	1	
SPR	450159	421	23	12425	4291	0	0	0	0	50	0	463771	1	1	
SPRED1	96035	704	-21	22904	5635	0	0	0	0	50	1	442351	1	1	
SPRED2	545446	346	36	21434	5782	0	0	0	0	50	0	430773	1	1	
SPRED3	1467279	253	0	20104	7049	0	0	0	0	50	1	393015	1	1	
SPRN	485067	472	8	6818	2842	0	0	0	0	50	0	404327	1	1	
SPRR1A	426723	748	28	4529	1225	0	0	0	0	50	1	398370	1	1	
SPRR1B	687290	704	30	4536	1218	0	0	0	0	50	2	421358	1	1	
SPRR2A	687290	704	30	3696	987	0	0	0	0	50	2	421358	1	1	
SPRR2B	687290	704	30	3843	987	0	0	0	0	50	2	421358	1	1	
SPRR2D	687290	704	30	3696	987	0	0	0	0	50	2	421358	1	1	
SPRR2E	687290	704	30	3696	987	0	0	0	0	50	2	421358	1	1	
SPRR2F	687290	704	30	3696	987	0	0	0	0	50	2	421358	1	1	
SPRR2G	822908	602	28	3745	1001	0	0	0	0	33	0	285740	1	1	
SPRR3	426723	748	28	8288	2506	0	0	0	0	50	1	398370	1	1	
SPRR4	426723	748	28	4102	1022	0	0	0	0	5	0	28000	1	1	
SPRY1	98850	613	21	15841	4403	0	0	0	0	50	0	422338	1	1	
SPRY2	44501	729	60	15414	4578	0	0	0	0	50	0	393785	1	1	
SPRY3	NaN	NaN	NaN	13979	4228	0	0	0	0	50	2	783776	1	1	
SPRY4	394296	573	28	15743	4774	0	0	0	0	50	2	436765	1	1	
SPRYD3	1726226	177	38	22596	6195	0	0	0	0	50	1	433209	1	1	
SPRYD4	2793663	184	61	10108	3122	0	0	0	0	50	0	523271	1	1	
SPRYD5	4214	1074	-46	23310	5733	0	0	0	0	50	0	393722	1	1	
SPSB1	980939	281	32	13216	4130	0	0	0	0	50	0	440671	1	1	

SPSB2	2822601	232	32	12663	4221	0	0	0	0	50	1	406280	1	1	
SPSB3	1604603	288	36	17794	5138	0	0	0	0	50	0	407358	1	1	
SPSB4	245950	574	22	12915	4431	0	0	0	0	50	0	411327	1	1	
SPTA1	177547	940	1	125223	31521	0	0	0	0	40	0	357973	1	1	
SPTAN1	1917687	197	43	128191	32627	0	0	0	0	50	1	427735	1	1	
SPTB	584151	204	38	118531	32501	0	0	0	0	50	0	360661	1	1	
SPTBN1	714370	430	22	124187	31864	0	0	0	0	50	0	432803	1	1	
SPTBN2	1432488	187	46	118475	35182	0	0	0	0	50	0	482636	1	1	
SPTBN5	874211	259	40	180460	54404	0	0	0	0	50	0	480634	1	1	
SPTLC1	485523	340	32	24626	6601	0	0	0	0	50	0	341208	1	1	
SPTLC2	500852	320	40	28420	7973	0	0	0	0	50	1	329707	1	1	
SPTLC3	64005	571	-59	28154	7609	0	0	0	0	50	1	388108	1	1	
SPTY2D1	637558	457	28	34076	9562	0	0	0	0	50	1	432726	1	1	
SPZ1	316792	617	34	21917	5236	0	0	0	0	50	0	401303	1	1	
SQLE	518053	572	19	27118	7826	0	0	0	0	50	0	321706	1	1	
SQRDL	201356	490	1	22715	6454	0	0	0	0	50	1	449113	1	1	
SQSTM1	1610057	359	38	22092	6321	0	0	0	0	50	0	355047	1	1	
SR140	361096	467	23	54082	13118	0	0	0	0	50	0	621159	1	1	
SRA1	706371	319	29	11781	3486	0	0	0	0	50	1	463330	1	1	
SRBD1	73148	419	28	50939	13447	0	0	0	0	50	1	386659	1	1	
SRC	685195	571	60	26943	7812	0	0	0	0	50	1	334061	1	1	
SRCAP	1632278	158	61	153097	53060	0	0	0	0	50	0	462980	1	1	
SRCIN1	1028227	232	33	57323	18781	0	0	0	0	50	0	381402	1	1	
SRCRB4D	870785	220	59	28147	8981	0	0	0	0	50	2	375074	1	1	
SRD5A1	253440	585	-1	13034	3682	0	0	0	0	50	0	337141	1	1	
SRD5A2	157835	693	3	12565	3857	0	0	0	0	50	1	401373	1	1	
SRD5A3	235221	348	8	15890	4585	0	0	0	0	50	0	361193	1	1	
SREBF1	1129921	260	21	56665	19145	0	0	0	0	50	0	451220	1	1	
SREBF2	1336623	243	62	56021	17437	0	0	0	0	50	0	368081	1	1	
SRF	1308754	363	35	24374	8197	0	0	0	0	50	1	439250	1	1	
SRFBP1	70781	809	-4	22085	5635	0	0	0	0	50	0	367752	1	1	
SRGAP1	320926	460	-13	55797	14427	0	0	0	0	50	0	396221	1	1	
SRGAP2	472089	300	6	50148	13566	0	0	0	0	50	0	494403	1	1	
SRGAP3	373293	469	22	56679	15120	0	0	0	0	50	0	634004	1	1	
SRGN	766231	183	55	7987	2240	0	0	0	0	50	1	414176	1	1	
SRL	825667	154	32	23772	6552	0	0	0	0	50	0	458696	1	1	
SRM	577167	408	34	15505	4214	0	0	0	0	50	0	423899	1	1	
SRMS	1262904	298	54	24045	7434	0	0	0	0	50	0	369817	1	1	
SRP14	846041	256	23	7021	1988	0	0	0	0	50	0	391237	1	1	
SRP19	242849	340	34	7609	1904	0	0	0	0	50	1	355831	1	1	
SRP54	629868	171	32	26929	6146	0	0	0	0	50	2	412419	1	1	
SRP68	1611239	218	22	32228	8638	0	0	0	0	50	0	473452	1	1	
SRP72	662749	594	27	34972	8918	0	0	0	0	50	1	456855	1	1	
SRP9	927421	168	9	6412	1631	0	0	0	0	50	1	396235	1	1	
SRPK1	761613	404	28	34125	8463	0	0	0	0	50	0	510384	1	1	
SRPK2	452775	468	34	36911	9331	0	0	0	0	50	0	361634	1	1	
SRPK3	2103463	NaN	30	28805	8197	0	0	0	0	50	1	411677	1	1	
SRPR	385871	426	29	32221	9128	0	0	0	0	50	0	449155	1	1	
SRPRB	513771	523	23	13657	3983	0	0	0	0	50	0	301637	1	1	
SRPX	141319	NaN	17	23443	6608	0	0	0	0	50	0	420469	1	1	

SRPX2	190839	NaN	23	23590	6524	0	0	0	0	15	0	133231	1	1	
SRR	780080	271	29	17031	5040	0	0	0	0	50	0	449869	1	1	
SRRD	163136	553	-46	17220	4788	0	0	0	0	50	1	398195	1	1	
SRRM1	466068	348	27	44254	14105	0	0	0	0	50	0	419867	1	1	
SRRM2	1717244	210	42	128387	46228	0	0	0	0	23	0	252217	1	1	
SRRM3	851224	195	50	31668	10647	0	0	0	0	50	2	398223	1	1	
SRRM4	116468	835	2	30450	9114	0	0	0	0	50	1	400827	1	1	
SRRM5	NaN	NaN	NaN	36022	9863	0	0	0	0	50	2	789411	1	1	
SRRT	1339207	433	48	45038	11809	0	0	0	0	50	0	470988	1	1	
SRXN1	622277	480	42	6545	2275	0	0	0	0	50	1	553476	1	1	
SRY	0	0	0	10304	2611	0	0	0	0	50	1	416332	1	1	
SS18	167310	632	37	22218	5061	0	0	0	0	50	0	330645	1	1	
SS18L1	861466	288	-13	20636	5257	0	0	0	0	50	1	378336	1	1	
SS18L2	350455	445	42	4102	1022	0	0	0	0	7	0	75166	1	1	
SSB	338901	489	35	22435	5117	0	0	0	0	50	0	307174	1	1	
SSBP1	200522	844	14	7924	1988	0	0	0	0	50	0	347788	1	1	
SSBP2	159943	864	23	19152	4998	0	0	0	0	50	0	537166	1	1	
SSBP3	695802	369	25	20433	5502	0	0	0	0	50	0	452256	1	1	
SSBP4	1384225	259	42	20020	5726	0	0	0	0	50	1	473445	1	1	
SSC5D	NaN	NaN	NaN	74529	25809	0	0	0	0	50	2	805357	1	1	
SSFA2	180253	346	18	64876	17990	0	0	0	0	50	0	384412	1	1	
SSH1	474364	293	45	57715	16562	0	0	0	0	50	2	430927	1	1	
SSH2	724760	390	21	71211	19719	0	0	0	0	50	0	621992	1	1	
SSH3	1369264	177	44	32872	9800	0	0	0	0	50	0	469336	1	1	
SSNA1	1722012	202	36	6069	1659	0	0	0	0	50	1	445893	1	1	
SSPN	157088	383	25	11907	3675	0	0	0	0	50	0	400085	1	1	
SSPO	455147	615	28	256907	76384	0	0	0	0	9	0	163548	1	1	
SSR1	755548	283	24	14700	3969	0	0	0	0	50	0	522956	1	1	
SSR2	1880483	213	32	9156	2814	0	0	0	0	50	1	468048	1	1	
SSR3	545591	679	10	9548	2548	0	0	0	0	50	0	432040	1	1	
SSR4	2103463	NaN	30	8918	2548	0	0	0	0	50	1	411677	1	1	
SSRP1	926574	191	-11	36806	9184	0	0	0	0	50	0	345072	1	1	
SSSCA1	3945819	202	45	9814	3122	0	0	0	0	50	1	407722	1	1	
SST	124494	431	13	5656	1799	0	0	0	0	50	0	436464	1	1	
SSTR1	49574	544	-46	18697	5999	0	0	0	0	50	1	445844	1	1	
SSTR2	238181	336	-7	18039	5355	0	0	0	0	50	0	427917	1	1	
SSTR3	845055	230	67	19670	6811	0	0	0	0	50	1	334915	1	1	
SSTR4	199022	554	-50	18214	6377	0	0	0	0	50	1	404845	1	1	
SSTR5	1154740	294	20	16989	6132	0	0	0	0	50	0	485373	1	1	
SSU72	1690623	248	29	10101	2520	0	0	0	0	50	0	429639	1	1	
SSX1	603602	NaN	5	10325	2170	0	0	0	0	50	0	378784	1	1	
SSX2	NaN	NaN	NaN	25914	5376	0	0	0	0	50	2	784924	1	1	
SSX2B	NaN	NaN	NaN	20916	4074	0	0	0	0	50	2	783622	1	1	
SSX2IP	335727	572	-6	32319	7518	0	0	0	0	50	0	314797	1	1	
SSX3	660654	NaN	14	11067	2520	0	0	0	0	50	0	419160	1	1	
SSX4	NaN	NaN	NaN	22232	4060	0	0	0	0	50	2	783608	1	1	
SSX4B	660654	NaN	14	22232	4060	0	0	0	0	50	0	419160	1	1	
SSX5	590474	NaN	11	12271	2891	0	0	0	0	50	0	396130	1	1	
SSX7	250163	NaN	25	10241	2254	0	0	0	0	50	0	476490	1	1	
ST13	894425	269	44	19537	4697	0	0	0	0	50	0	465409	1	1	

ST14	622463	276	19	43498	11942	0	0	0	0	50	1	393309	1	1	
ST18	155128	793	-15	53571	14133	0	0	0	0	50	0	413441	1	1	
ST20	228288	702	18	4074	1176	0	0	0	0	50	0	365855	1	1	
ST3GAL1	198193	357	24	17192	4795	0	0	0	0	50	0	401786	1	1	
ST3GAL2	935790	134	42	17605	4928	0	0	0	0	50	1	484407	1	1	
ST3GAL3	939679	230	33	22932	6111	0	0	0	0	50	2	369663	1	1	
ST3GAL4	349521	514	31	17003	4627	0	0	0	0	50	0	481719	1	1	
ST3GAL5	1164530	216	51	21581	5677	0	0	0	0	50	1	440650	1	1	
ST3GAL6	338260	516	10	17325	4347	0	0	0	0	50	0	426258	1	1	
ST5	519265	369	26	56581	16709	0	0	0	0	50	1	307202	1	1	
ST6GAL1	447917	433	32	20664	5397	0	0	0	0	50	1	414351	1	1	
ST6GAL2	52131	1042	-22	27531	8106	0	0	0	0	50	1	475580	1	1	
ST6GALNAC1	999845	191	31	29918	8617	0	0	0	0	50	0	418411	1	1	
ST6GALNAC2	1016866	197	24	18704	5593	0	0	0	0	50	0	404348	1	1	
ST6GALNAC3	259709	989	-11	15778	4088	0	0	0	0	50	0	425551	1	1	
ST6GALNAC4	1278941	201	51	15085	4424	0	0	0	0	50	1	438676	1	1	
ST6GALNAC5	319154	834	-17	16877	4690	0	0	0	0	50	0	371742	1	1	
ST6GALNAC6	1278941	201	51	16695	4851	0	0	0	0	50	1	438676	1	1	
ST7	507440	389	19	31906	8330	0	0	0	0	50	0	407484	1	1	
ST7L	561127	355	19	30191	8050	0	0	0	0	50	0	424487	1	1	
ST8SIA1	401092	910	-22	17913	4914	0	0	0	0	50	0	353472	1	1	
ST8SIA2	288853	578	-30	18753	5355	0	0	0	0	50	1	495397	1	1	
ST8SIA3	298355	599	9	19103	5152	0	0	0	0	50	0	449400	1	1	
ST8SIA4	24350	1122	36	18109	4949	0	0	0	0	50	1	459326	1	1	
ST8SIA5	292667	608	15	19082	5173	0	0	0	0	50	1	502460	1	1	
ST8SIA6	514060	523	-4	20097	5628	0	0	0	0	50	0	440811	1	1	
STAB1	1114087	192	48	130235	37534	0	0	0	0	50	0	420231	1	1	
STAB2	907417	599	10	131530	34958	0	0	0	0	21	1	226100	1	1	
STAC	151436	827	-17	20951	5320	0	0	0	0	50	0	421407	1	1	
STAC2	1426821	212	31	20804	5992	0	0	0	0	50	0	386533	1	1	
STAC3	2162032	238	58	19173	4725	0	0	0	0	50	0	473627	1	1	
STAG1	245682	512	22	65856	16233	0	0	0	0	50	0	466221	1	1	
STAG2	338292	NaN	7	66696	16023	0	0	0	0	50	0	430493	1	1	
STAG3	1382416	198	55	62958	17136	0	0	0	0	50	0	340991	1	1	
STAG3L1	NaN	NaN	NaN	10661	2821	0	0	0	0	50	2	782369	1	1	
STAG3L2	745065	173	55	7168	1841	0	0	0	0	50	1	424886	1	1	
STAG3L3	661753	332	50	7203	1806	0	0	0	0	50	0	350238	1	1	
STAG3L4	349765	556	55	7819	2030	0	0	0	0	50	0	287259	1	1	
STAM	488136	364	7	27923	7252	0	0	0	0	50	1	507360	1	1	
STAM2	394536	218	24	27244	6986	0	0	0	0	50	1	397635	1	1	
STAMBP	1124858	404	43	21644	5887	0	0	0	0	50	1	391377	1	1	
STAMBPL1	175317	289	20	22631	5740	0	0	0	0	50	0	364938	1	1	
STAP1	128996	689	35	15533	3829	0	0	0	0	50	0	461440	1	1	
STAP2	2122615	220	27	22897	6545	0	0	1	0	2	1	20895	1	1	
STAR	705837	277	46	14504	4018	0	0	0	0	50	1	455861	1	1	
STARD10	529647	207	50	14791	4025	0	0	0	0	50	0	367199	1	1	
STARD13	157153	583	41	58142	16261	0	0	0	0	50	0	350343	1	1	
STARD3	1224964	213	33	23632	5915	0	0	0	0	50	1	360857	1	1	
STARD3NL	161770	578	11	12278	3199	0	0	0	0	50	0	389368	1	1	
STARD4	181104	636	26	10745	2653	0	0	0	0	50	0	382711	1	1	

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STARD5	245396	787	28	10934	3010	0	0	0	0	50	0	398713	1	1	
STARD6	99256	451	41	11452	2870	0	0	0	0	50	1	513947	1	1	
STARD7	850399	251	48	18858	5103	0	0	0	0	50	0	479493	1	1	
STARD8	172747	NaN	15	54488	16240	0	0	0	0	50	0	386743	1	1	
STAT1	529053	318	42	39781	9485	0	0	0	0	50	1	368578	1	1	
STAT2	2869106	184	52	43715	11893	0	0	0	0	50	1	498204	1	1	
STAT3	2140948	160	32	40425	10143	0	0	0	0	50	0	399959	1	1	
STAT4	529053	318	19	39368	9730	0	0	0	0	50	0	423899	1	1	
STAT5A	2072592	190	33	40537	11060	0	0	0	0	50	0	377454	1	1	
STAT5B	2101162	190	31	40390	10766	0	0	0	0	50	0	424970	1	1	
STAT6	2122802	172	52	42840	12348	0	0	0	0	50	0	377496	1	1	
STATH	9753	991	-4	3584	805	0	0	0	0	50	0	367164	1	1	
STAU1	877789	147	49	29477	8323	0	0	0	0	50	2	469469	1	1	
STAU2	261922	447	16	31633	8414	0	0	0	0	50	1	397222	1	1	
STBD1	416594	436	26	17682	5019	0	0	0	0	50	0	503713	1	1	
STC1	321715	555	14	12432	3444	0	0	0	0	50	1	453782	1	1	
STC2	471196	519	41	15085	4256	0	0	0	0	50	1	460873	1	1	
STEAP1	128669	1182	-10	17248	4550	0	0	0	0	50	2	510041	1	1	
STEAP2	132955	1140	6	25053	6930	0	0	0	0	50	1	384160	1	1	
STEAP3	176742	558	14	24003	7770	0	0	0	0	50	0	374423	1	1	
STEAP4	155853	454	-6	22589	6727	0	0	0	0	50	0	377538	1	1	
STH	365925	469	18	6321	1890	0	0	0	0	50	1	465045	1	1	
STIL	321135	366	6	65198	17353	0	0	0	0	50	0	351106	1	1	
STIM1	409663	476	31	34685	9457	0	0	0	0	50	0	371931	1	1	
STIM2	116073	934	37	39088	10388	0	0	0	0	50	0	426335	1	1	
STIP1	1602391	278	57	28441	6923	0	0	0	0	50	0	410249	1	1	
STK10	329023	272	49	49588	12971	0	0	0	0	50	1	365134	1	1	
STK11	2214581	234	29	22022	6076	0	0	0	0	50	1	402808	1	1	
STK16	694442	193	44	15428	4354	0	0	0	0	50	3	450387	1	1	
STK17A	655380	310	23	20958	5691	0	0	0	0	50	0	500262	1	1	
STK17B	140953	373	14	19117	4970	0	0	0	0	50	0	365323	1	1	
STK19	2314693	203	34	18914	5992	0	0	0	0	50	0	456526	1	1	
STK24	513130	468	59	23457	6279	0	0	0	0	50	1	327145	1	1	
STK25	1215841	426	39	21742	6083	0	0	0	0	50	2	390320	1	1	
STK3	332778	550	25	25816	6020	0	0	0	0	50	1	505603	1	1	
STK31	367849	441	14	53326	12950	0	0	0	0	50	2	377090	1	1	
STK32A	95084	839	-7	21637	5033	0	0	0	0	50	1	409717	1	1	
STK32B	66595	613	12	21700	5411	0	0	0	0	50	0	425663	1	1	
STK32C	148625	280	4	24710	6895	0	0	0	0	50	1	354277	1	1	
STK33	314196	551	13	26873	6496	0	0	0	0	50	1	440286	1	1	
STK35	505026	539	32	25599	8358	0	0	0	0	50	1	419692	1	1	
STK36	1033606	269	43	65156	19936	0	0	0	0	50	0	459746	1	1	
STK38	942238	148	37	24654	5796	0	0	0	0	50	0	428421	1	1	
STK38L	555677	345	37	24605	5782	0	0	0	0	50	0	418957	1	1	
STK39	135182	980	-1	28343	7483	0	0	0	0	50	0	408499	1	1	
STK4	938230	294	42	25319	6307	0	0	0	0	50	0	566041	1	1	
STK40	636943	212	28	22036	6272	0	0	0	0	50	1	412090	1	1	
STMN1	801428	221	31	10276	2639	0	0	0	0	50	0	432110	1	1	
STMN2	147465	518	-12	9373	2345	0	0	0	0	50	0	510916	1	1	
STMN3	1094905	193	54	9310	2471	0	0	0	0	50	0	482545	1	1	

STMN4	360513	561	6	11445	2730	0	0	0	0	50	0	450086	1	1	
STOM	580458	388	39	14518	4235	0	0	0	0	50	0	443576	1	1	
STOML1	337765	439	34	19390	6293	0	0	0	0	50	2	411831	1	1	
STOML2	945481	350	41	17752	5537	0	0	0	0	50	0	440321	1	1	
STOML3	181679	1010	-2	15085	4466	0	0	0	0	50	0	374752	1	1	
STON1	NaN	NaN	NaN	36743	9919	0	0	0	0	50	2	789467	1	1	
STON1-GT-F2A1L	75084	934	-3	59332	16079	0	0	0	0	50	0	416626	1	1	
STON2	203328	364	-1	44695	12677	0	0	0	0	50	0	561113	1	1	
STOX1	916932	216	43	49371	13377	0	0	0	0	50	1	493444	1	1	
STOX2	169045	458	-14	45549	13104	0	0	0	0	50	0	364686	1	1	
STRA13	3814891	211	28	3367	959	0	0	0	0	50	1	350889	1	1	
STRA6	530359	220	45	33929	10675	0	0	0	0	50	2	399448	1	1	
STRA8	425774	594	40	17024	4459	0	0	0	0	50	2	443597	1	1	
STRADA	1097630	319	10	23184	6216	0	0	0	0	50	0	331072	1	1	
STRADB	468064	491	26	21567	5754	0	0	0	0	50	0	497238	1	1	
STRAP	323662	534	22	18193	4676	0	0	0	0	50	0	498603	1	1	
STRBP	341358	431	29	34300	9443	0	0	0	0	50	0	480998	1	1	
STRC	784339	198	44	85491	28791	0	0	0	0	33	0	287700	1	1	
STRN	580141	370	0	40173	10500	0	0	0	0	50	0	393379	1	1	
STRN3	431319	370	14	40733	10969	0	0	0	0	50	0	451192	1	1	
STRN4	1166804	224	36	38262	11256	0	0	0	0	50	1	371315	1	1	
STS	61317	NaN	23	29372	8176	0	0	0	0	50	0	377398	1	1	
STT3A	391073	595	23	35966	9940	0	0	0	0	50	0	430500	1	1	
STT3B	270559	511	-4	42182	11137	0	0	0	0	50	0	415079	1	1	
STUB1	1207790	194	33	15631	4067	0	0	0	0	50	2	442589	1	1	
STX10	1948449	221	41	12845	3472	0	0	0	0	50	0	421708	1	1	
STX11	298896	322	23	14238	3990	0	0	0	0	50	0	473277	1	1	
STX12	726175	202	30	14602	3521	0	0	0	0	50	0	371812	1	1	
STX16	1026997	504	15	16653	4557	0	0	0	0	50	0	381556	1	1	
STX17	244386	519	14	15540	4137	0	0	0	0	50	0	408212	1	1	
STX18	140686	633	44	17654	4396	0	0	0	0	50	0	300111	1	1	
STX19	85529	1378	-18	15071	3640	0	0	0	0	50	0	396060	1	1	
STX1A	1082063	214	54	15624	3381	0	0	0	0	50	0	487235	1	1	
STX1B	1398193	247	40	15183	3780	0	0	0	0	50	1	517692	1	1	
STX2	218767	440	-19	16646	4081	0	0	0	0	50	0	396739	1	1	
STX3	395993	494	8	16128	4032	0	0	0	0	50	0	386470	1	1	
STX4	1398193	247	40	15547	4067	0	0	0	0	50	1	517692	1	1	
STX5	2405109	248	44	18165	5103	0	0	0	0	50	0	388598	1	1	
STX6	217489	398	22	13349	3367	0	0	0	0	50	0	387751	1	1	
STX7	180943	618	12	13867	3395	0	0	0	0	50	0	377888	1	1	
STX8	84658	634	-10	12313	3206	0	0	0	0	50	1	487760	1	1	
STXBP1	1015071	168	40	32767	8666	0	0	0	0	50	0	555898	1	1	
STXBP2	688482	384	31	30373	8645	0	0	0	0	50	1	445354	1	1	
STXBP3	772267	191	9	31339	7574	0	0	0	0	50	0	411460	1	1	
STXBP4	132396	845	-50	28644	7602	0	0	0	0	50	0	390173	1	1	
STXBP5	94997	696	-5	58849	15995	0	0	0	0	50	0	391293	1	1	
STXBP5L	319082	785	-8	60865	16184	0	0	0	0	50	0	412188	1	1	
STXBP6	259495	800	-3	11025	2688	0	0	0	0	50	0	395990	1	1	
STYK1	408572	432	0	21371	6034	0	0	0	0	50	0	408555	1	1	

STYX	310977	213	19	12278	2758	0	0	0	0	50	2	392735	1	1	
STYXL1	1072825	218	49	16296	4137	0	0	0	0	50	0	422688	1	1	
SUB1	487935	442	22	6825	1554	0	0	0	0	43	0	283549	1	1	
SUCLA2	322899	636	35	23730	6384	0	0	0	0	50	0	350189	1	1	
SUCLG1	293337	672	-17	17430	5103	0	0	0	0	50	0	381570	1	1	
SUCLG2	66926	891	7	24451	6692	0	0	0	0	50	0	419489	1	1	
SUCNR1	200470	526	2	16576	4697	0	0	0	0	50	0	465220	1	1	
SUDS3	635715	823	32	17465	4186	0	0	0	0	50	1	423976	1	1	
SUFU	872436	165	36	24647	7000	0	0	0	0	50	0	399987	1	1	
SUGT1	307262	469	26	19537	4613	0	0	0	0	50	1	417312	1	1	
SULF1	137404	578	-19	45353	11179	0	0	0	0	50	0	463946	1	1	
SULF2	266328	588	41	44982	11571	0	0	0	0	50	0	386785	1	1	
SULT1A1	1141256	269	53	17836	4508	0	0	0	0	50	0	443632	1	1	
SULT1A2	1141256	269	53	15323	3955	0	0	0	0	50	0	443632	1	1	
SULT1A3	NaN	NaN	NaN	30562	7910	0	0	0	0	50	2	787458	1	1	
SULT1A4	1906000	253	52	30562	7910	0	0	0	0	50	0	372008	1	1	
SULT1B1	14468	1020	1	15722	3577	0	0	0	0	50	1	413595	1	1	
SULT1C2	361432	609	-10	17311	4067	0	0	0	0	50	0	281939	1	1	
SULT1C3	354622	708	-17	16086	3612	0	0	0	0	50	0	285411	1	1	
SULT1C4	361799	483	-2	15960	3633	0	0	0	0	50	0	455413	1	1	
SULT1E1	9735	1009	4	15673	3500	0	0	0	0	50	1	446677	1	1	
SULT2A1	881316	336	39	15001	3437	0	0	0	0	50	0	442512	1	1	
SULT2B1	1590428	242	33	19005	5145	0	0	0	0	50	0	407421	1	1	
SULT4A1	157623	473	13	14728	3731	0	0	0	0	50	0	443457	1	1	
SULT6B1	545763	253	35	14049	3255	0	0	0	0	50	0	443023	1	1	
SUMF1	155099	172	10	18844	5495	0	0	0	0	50	0	425740	1	1	
SUMF2	738325	642	4	20825	5551	0	0	0	0	50	0	477064	1	1	
SUMO1	371912	192	41	5586	1218	0	0	0	0	50	0	390880	1	1	
SUMO2	1511891	168	25	5124	1176	0	0	0	0	50	0	366898	1	1	
SUMO3	690574	213	62	5502	1302	0	0	0	0	50	1	318213	1	1	
SUMO4	NaN	NaN	NaN	4830	1260	0	0	0	0	31	2	344743	1	1	
SUN1	642960	310	29	42728	12103	0	0	0	0	50	2	462308	1	1	
SUN2	1291659	272	73	35952	10710	0	0	0	0	50	0	330708	1	1	
SUN3	147364	445	21	18823	4655	0	0	0	0	50	0	406154	1	1	
SUN5	461222	461	40	20048	4984	0	0	0	0	50	1	483805	1	1	
SUOX	2080397	229	31	26250	8400	0	0	0	0	50	0	399000	1	1	
SUPT16H	713944	380	38	54810	13314	0	0	0	0	50	0	484232	1	1	
SUPT3H	68471	830	4	19187	4690	0	0	0	0	50	1	431704	1	1	
SUPT4H1	782135	399	22	6202	1610	0	0	0	0	9	0	114863	1	1	
SUPT5H	1410725	230	39	55951	15113	0	0	0	0	50	0	544768	1	1	
SUPT6H	1673468	208	36	89229	22596	0	0	0	0	50	0	406777	1	1	
SUPT7L	1192074	306	43	20811	5754	0	0	0	0	50	0	566580	1	1	
SUPV3L1	732419	168	40	39900	10941	0	0	0	0	50	1	347410	1	1	
SURF1	1827885	416	28	15162	4599	0	0	0	0	50	0	337127	1	1	
SURF2	1827885	416	28	13146	3549	0	0	0	0	50	0	337127	1	1	
SURF4	1827885	416	28	13643	3787	0	0	0	0	50	0	337127	1	1	
SURF6	1846659	416	36	17717	5467	0	0	0	0	50	0	309862	1	1	
SUSD1	536415	164	32	37961	10570	0	0	0	0	50	0	384531	1	1	
SUSD2	744077	202	44	40859	12208	0	0	0	0	50	2	440097	1	1	
SUSD3	504920	448	61	12607	3899	0	0	0	0	50	1	382585	1	1	

SUSD4	464408	581	-4	27097	7721	0	0	0	0	50	0	411621	1	1	
SUSD5	496534	256	21	30674	9352	0	0	0	0	50	0	355971	1	1	
SUV39H1	824559	NaN	27	20720	5761	0	0	0	0	50	0	479633	1	1	
SUV39H2	255711	396	38	17885	4564	0	0	0	0	50	0	405195	1	1	
SUV420H1	1059031	161	51	45045	11739	0	0	0	0	50	0	389879	1	1	
SUV420H2	1028808	209	19	22211	7546	0	0	0	0	50	1	357784	1	1	
SUZ12	717248	310	27	38213	9667	0	0	0	0	50	1	537439	1	1	
SV2A	798975	560	17	37044	10689	0	0	0	0	50	1	450401	1	1	
SV2B	457413	624	1	34965	9051	0	0	0	0	50	0	400106	1	1	
SV2C	171171	858	16	37149	9744	0	0	0	0	50	0	342566	1	1	
SVEP1	211688	369	1	180390	48594	0	0	0	0	50	0	526008	1	1	
SVIL	138938	504	1	111223	31262	0	0	0	0	16	0	153951	1	1	
SVIP	52085	1031	2	4088	1120	0	0	0	0	50	2	382081	1	1	
SVOP	574926	NaN	32	15379	4508	0	0	0	0	50	0	519393	1	1	
SVOPL	256342	480	9	24808	7427	0	0	0	0	50	0	401702	1	1	
SWAP70	545476	179	25	30660	7224	0	0	0	0	50	0	438557	1	1	
SYAP1	295989	NaN	32	18417	4494	0	0	0	0	50	1	396466	1	1	
SYBU	133930	623	11	33082	9611	0	0	0	0	50	0	369964	1	1	
SYCE1	563924	525	-10	19306	4739	0	0	0	0	50	0	349461	1	1	
SYCE1L	NaN	NaN	NaN	12852	3297	0	0	0	0	50	2	782845	1	1	
SYCE2	1886809	335	40	11816	2947	0	0	0	0	50	0	357672	1	1	
SYCN	1652029	286	26	6510	2163	0	0	0	0	50	1	414561	1	1	
SYCP1	601139	601	2	52577	11578	0	0	0	0	50	0	476574	1	1	
SYCP2	73470	842	-30	81382	18683	0	0	0	0	50	1	397831	1	1	
SYCP2L	269928	483	20	43414	10241	0	0	0	0	50	0	477575	1	1	
SYCP3	344663	338	12	13594	2723	0	0	0	0	50	0	447811	1	1	
SYDE1	703673	419	1	34713	12285	0	0	0	0	50	0	347760	1	1	
SYDE2	367677	468	1	59213	16618	0	0	0	0	50	1	475937	1	1	
SYF2	613835	460	36	12824	3094	0	0	0	0	50	0	467894	1	1	
SYK	126037	542	32	32564	8596	0	0	0	0	50	2	479150	1	1	
SYMPK	883734	203	39	63350	19159	0	0	0	0	50	1	387730	1	1	
SYN1	775214	NaN	38	34545	10941	0	0	0	0	50	0	463281	1	1	
SYN2	330718	424	21	30037	9107	0	0	0	0	50	0	430528	1	1	
SYN3	259538	520	-72	29218	8393	0	0	0	0	50	0	544173	1	1	
SYNC	1452351	195	34	25130	6979	0	0	0	0	50	0	560098	1	1	
SYNCRIP	393389	384	14	32424	8652	0	0	0	0	50	0	438942	1	1	
SYNE1	79159	579	3	452914	115472	0	0	0	0	3	0	127757	1	1	
SYNE2	525935	430	41	357805	88046	0	0	0	0	6	0	146755	1	1	
SYNGAP1	1419781	236	31	65996	20188	0	0	0	0	50	0	396025	1	1	
SYNGR1	932556	250	69	14959	4298	0	0	0	0	50	1	399301	1	1	
SYNGR2	527017	217	27	11200	3269	0	0	0	0	50	0	421456	1	1	
SYNGR3	1747301	183	46	11060	3682	0	0	0	0	50	0	376299	1	1	
SYNGR4	1478750	217	36	11634	3465	0	0	0	0	50	0	615027	1	1	
SYNJ1	355341	345	65	82201	22820	0	0	0	0	50	0	412027	1	1	
SYNJ2	478315	208	44	74753	21742	0	0	0	0	50	1	329189	1	1	
SYNJ2BP	499052	591	37	7357	2093	0	0	0	0	50	1	444696	1	1	
SYNM	271694	361	-3	75586	23303	0	0	0	0	50	0	499688	1	1	
SYNPO	1119691	198	51	54397	18683	0	0	0	0	50	0	422891	1	1	
SYNPO2	267272	589	2	62804	19306	0	0	0	0	50	0	391496	1	1	
SYNPO2L	1042853	166	43	47264	16786	0	0	0	0	50	0	538188	1	1	

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SYNPR	152983	976	-5	14861	4123	0	0	0	0	50	0	365988	1	1	
SYNRG	559565	201	27	67711	18473	0	0	0	0	50	0	477827	1	1	
SYP	724395	NaN	44	15736	4592	0	0	0	0	50	2	414680	1	1	
SYPL1	327117	336	29	13132	3752	0	0	0	0	50	3	436345	1	1	
SYPL2	1056159	272	37	13769	3850	0	0	0	0	50	0	353479	1	1	
SYS1	1005559	233	36	7707	2436	0	0	0	0	50	0	345058	1	1	
SYT1	186847	899	-21	21728	5593	0	0	0	0	50	0	455231	1	1	
SYT10	93167	905	-41	26362	7154	0	0	0	0	50	0	328412	1	1	
SYT11	2096440	179	32	21231	6237	0	0	0	0	50	0	364924	1	1	
SYT12	1643265	152	47	21014	6160	0	0	0	0	50	0	404306	1	1	
SYT13	173203	637	14	20867	6454	0	0	0	0	50	0	480872	1	1	
SYT14	223343	547	-5	31780	8078	0	0	0	0	50	1	421946	1	1	
SYT15	165245	269	20	21861	6489	0	0	0	0	50	0	382102	1	1	
SYT16	215309	626	-6	32403	8715	0	0	0	0	50	0	498120	1	1	
SYT17	766632	275	7	23744	6769	0	0	0	0	50	0	539182	1	1	
SYT2	555792	497	34	21490	5642	0	0	0	0	50	0	510377	1	1	
SYT3	612522	593	35	28581	9408	0	0	0	0	50	2	461881	1	1	
SYT4	4302	1101	-41	21231	5859	0	0	0	0	50	0	383061	1	1	
SYT5	1036976	266	-1	19061	5992	0	0	0	0	50	0	289856	1	1	
SYT6	760371	596	13	21469	5957	0	0	0	0	50	1	480039	1	1	
SYT7	1339753	274	55	20545	5621	0	0	0	0	50	0	302918	1	1	
SYT8	916434	481	33	19558	6482	0	0	0	0	50	0	418691	1	1	
SYT9	97813	941	-3	24689	6811	0	0	0	0	50	0	412146	1	1	
SYTL1	884974	188	30	27601	8330	0	0	0	0	50	0	563206	1	1	
SYTL2	354036	435	1	88921	23576	0	0	0	0	49	0	410375	1	1	
SYTL3	606618	188	51	27678	7623	0	0	0	0	50	1	384874	1	1	
SYTL4	199096	NaN	47	34706	8974	0	0	0	0	50	0	487844	1	1	
SYTL5	106836	NaN	19	38640	10143	0	0	0	0	50	0	436660	1	1	
SYVN1	3292261	168	50	30758	9436	0	0	0	0	50	0	405846	1	1	
T	141864	323	-23	21784	6272	0	0	0	0	50	0	436443	1	1	
TAAR1	125852	605	19	17017	4403	0	0	0	0	50	0	392707	1	1	
TAAR2	125852	605	19	17584	4676	0	0	0	0	50	0	392707	1	1	
TAAR5	125852	605	19	16380	4998	0	0	0	0	50	0	392707	1	1	
TAAR6	178165	618	22	16849	4907	0	0	0	0	50	0	385427	1	1	
TAAR8	178165	618	22	16723	4844	0	0	0	0	50	0	385427	1	1	
TAAR9	178165	618	22	17073	4914	0	0	0	0	50	0	385427	1	1	
TAB1	872660	250	73	26635	7826	0	0	0	0	50	0	395892	1	1	
TAB2	431448	177	42	34461	9765	0	0	0	0	29	1	199570	1	1	
TAB3	81645	NaN	13	35364	10143	0	0	0	0	50	0	453187	1	1	
TAC1	343278	854	-15	7070	1624	0	0	0	0	50	0	373961	1	1	
TAC3	2026922	199	41	6552	1617	0	0	0	0	50	0	418250	1	1	
TAC4	1152179	238	30	5894	1624	0	0	0	0	50	1	396851	1	1	
TACC1	623231	286	35	40593	11193	0	0	0	0	50	0	467243	1	1	
TACC2	233439	340	9	144179	44926	0	0	0	0	24	0	203301	1	1	
TACC3	867402	350	39	41965	12131	0	0	0	0	50	0	416283	1	1	
TACO1	934619	247	-1	14749	4361	0	0	0	0	50	0	348152	1	1	
TACR1	451907	644	9	20244	5838	0	0	0	0	50	1	430619	1	1	
TACR2	704483	285	50	19600	5873	0	0	0	0	50	0	340473	1	1	
TACR3	101583	931	-24	22939	6755	0	0	0	0	50	0	501522	1	1	
TACSTD2	301269	564	-5	15239	5173	0	0	0	0	50	0	332339	1	1	

TADA1	258555	773	-7	17038	4718	0	0	0	0	50	0	478310	1	1	
TADA2A	520126	171	25	25228	5999	0	0	0	0	50	1	406490	1	1	
TADA2B	459652	426	70	20706	5901	0	0	0	0	50	1	379974	1	1	
TADA3	953772	264	43	21749	6244	0	0	0	0	50	0	534303	1	1	
TAF1	729010	NaN	32	97412	25060	0	0	0	0	50	0	387646	1	1	
TAF10	424523	491	17	10745	3514	0	0	0	0	50	0	443625	1	1	
TAF11	1099530	304	24	10878	2856	0	0	0	0	50	0	415989	1	1	
TAF12	816470	183	25	8400	2226	0	0	0	0	50	0	405496	1	1	
TAF13	989913	215	18	6615	1554	0	0	0	0	50	1	338884	1	1	
TAF15	620019	235	8	30499	8162	0	0	0	0	50	0	480788	1	1	
TAF1A	228041	467	-2	23863	5390	0	0	0	0	50	1	405174	1	1	
TAF1B	909213	197	43	31045	7280	0	0	0	0	50	1	403641	1	1	
TAF1C	582429	364	12	41902	14000	0	0	0	0	50	0	465885	1	1	
TAF1D	290677	527	0	14469	3528	0	0	0	0	50	0	390222	1	1	
TAF1L	567793	334	5	90335	24808	0	0	0	0	50	0	472794	1	1	
TAF2	272257	591	13	62321	15379	0	0	0	0	50	0	366492	1	1	
TAF3	189040	596	-1	46193	12880	0	0	0	0	50	0	384916	1	1	
TAF4	801904	411	-25	51506	18088	0	0	0	0	50	1	453068	1	1	
TAF4B	173138	460	31	42084	13461	0	0	0	0	50	0	478114	1	1	
TAF5	545643	147	45	39767	11578	0	0	0	0	50	2	365750	1	1	
TAF5L	299238	340	15	29253	8337	0	0	0	0	50	3	453691	1	1	
TAF6	1299015	205	52	33376	10556	0	0	0	0	50	1	409815	1	1	
TAF6L	2405109	248	44	30128	10003	0	0	0	0	50	0	388598	1	1	
TAF7	729604	645	-10	17521	4529	0	0	0	0	50	1	483546	1	1	
TAF7L	404269	NaN	29	24549	5670	0	0	0	0	50	0	426552	1	1	
TAF8	490949	186	35	15792	4515	0	0	0	0	50	0	387317	1	1	
TAF9	445098	314	50	22421	6076	0	0	0	0	50	0	420896	1	1	
TAF9B	549810	NaN	14	12831	3591	0	0	0	0	50	1	460936	1	1	
TAGAP	509192	447	41	36631	10577	0	0	0	0	50	1	519113	1	1	
TAGLN	426428	228	46	10395	2667	0	0	0	0	50	1	340501	1	1	
TAGLN2	803074	403	7	10199	2737	0	0	0	0	50	0	295806	1	1	
TAGLN3	262689	336	14	10353	2583	0	0	0	0	50	1	385161	1	1	
TAL1	364960	414	3	15715	5432	0	0	0	0	50	0	400848	1	1	
TAL2	215119	773	-2	5327	1582	0	0	0	0	50	0	418061	1	1	
TALDO1	1788356	193	48	17234	4690	0	0	0	0	50	0	376684	1	1	
TANC1	311739	405	27	92813	26698	0	0	0	0	50	0	468748	1	1	
TANC2	778921	453	-27	98427	29064	0	0	0	0	50	0	405748	1	1	
TANK	207004	370	26	22148	5929	0	0	0	0	50	1	441574	1	1	
TAOK1	822855	224	26	51786	12936	0	0	0	0	50	0	432495	1	1	
TAOK2	2038342	238	60	74494	24122	0	0	0	0	50	0	466340	1	1	
TAOK3	635780	823	26	46998	11235	0	0	0	0	50	1	429562	1	1	
TAP1	1253457	401	26	38857	12950	0	0	0	0	50	0	374913	1	1	
TAP2	1313279	295	31	34699	11249	0	0	0	0	50	2	430010	1	1	
TAPBP	1456953	262	30	24402	8211	0	0	0	0	50	0	411845	1	1	
TAPBPL	2702142	198	50	22869	7224	0	0	0	0	50	1	528465	1	1	
TAPT1	165112	581	29	29127	7791	0	0	0	0	50	1	426223	1	1	
TARBP1	336295	173	15	81375	23247	0	0	0	0	50	1	385217	1	1	
TARBP2	1590803	191	55	18158	5635	0	0	0	0	50	0	384202	1	1	
TARDBP	702484	307	33	20958	5607	0	0	0	0	50	0	500479	1	1	
TARM1	NaN	NaN	NaN	13433	4123	0	0	0	0	50	2	783671	1	1	

TARP	164254	382	6	8750	2191	0	0	0	0	50	0	351820	1	1	
TARS	349408	674	4	37849	9275	0	0	0	0	50	0	392679	1	1	
TARS2	1532790	163	43	35896	10871	0	0	0	0	50	0	458143	1	1	
TARSL2	255024	469	2	41755	10388	0	0	1	0	50	1	465318	1	1	
TAS1R1	628180	259	38	42427	11081	0	0	0	0	50	1	443296	1	1	
TAS1R2	636814	532	25	41237	12124	0	0	0	0	50	0	432264	1	1	
TAS1R3	1744013	273	28	40733	13405	0	0	0	0	50	1	448280	1	1	
TAS2R1	349235	840	-18	14616	4284	0	0	0	0	50	0	386148	1	1	
TAS2R10	408176	517	12	15274	4130	0	0	0	0	50	0	374402	1	1	
TAS2R13	363803	644	2	14987	4165	0	0	0	0	50	0	404509	1	1	
TAS2R14	363803	644	2	15526	4487	0	0	0	0	50	0	404509	1	1	
TAS2R16	54952	972	-23	14420	4060	0	0	0	0	50	0	493017	1	1	
TAS2R19	365490	676	-2	14532	4347	0	0	0	0	50	0	350994	1	1	
TAS2R20	365490	676	-2	15169	4361	0	0	0	0	50	0	350994	1	1	
TAS2R3	200522	844	14	15435	4620	0	0	0	0	50	0	347788	1	1	
TAS2R30	371136	676	4	15645	4515	0	0	0	0	50	0	399658	1	1	
TAS2R31	365490	676	-2	15197	4417	0	0	0	0	50	0	350994	1	1	
TAS2R38	198115	856	-6	16219	4907	0	0	0	0	50	2	413063	1	1	
TAS2R39	321366	568	-9	16632	4704	0	0	0	0	50	0	338198	1	1	
TAS2R4	200522	844	14	14462	4438	0	0	0	0	50	0	347788	1	1	
TAS2R40	379894	399	14	15771	4620	0	0	0	0	50	1	450086	1	1	
TAS2R41	371260	379	1	14924	4480	0	0	0	0	50	0	398902	1	1	
TAS2R42	311688	617	7	15463	4382	0	0	0	0	50	0	412062	1	1	
TAS2R43	371136	676	4	15421	4193	0	0	0	0	50	0	399658	1	1	
TAS2R46	371136	676	4	15253	4277	0	0	0	0	50	0	399658	1	1	
TAS2R5	200522	844	14	14623	4277	0	0	0	0	50	0	347788	1	1	
TAS2R50	365490	676	-2	14798	4186	0	0	0	0	50	0	350994	1	1	
TAS2R60	371260	379	1	15393	4683	0	0	0	0	50	0	398902	1	1	
TAS2R7	408176	517	12	15729	4452	0	0	0	0	50	0	374402	1	1	
TAS2R8	408176	517	12	15330	4179	0	0	0	0	50	0	374402	1	1	
TAS2R9	408176	517	12	15414	4389	0	0	0	0	50	0	374402	1	1	
TASP1	121103	796	-26	21658	5957	0	0	0	0	50	0	418334	1	1	
TAT	446645	530	10	23226	6363	0	0	0	0	50	0	382515	1	1	
TATDN1	456351	544	44	16163	3661	0	0	0	0	50	1	405881	1	1	
TATDN2	743522	224	53	37807	10787	0	0	0	0	50	0	423381	1	1	
TATDN3	331599	445	22	14644	3920	0	0	0	0	50	0	586152	1	1	
TAX1BP1	393690	180	16	41328	9786	0	0	0	0	50	1	446145	1	1	
TAX1BP3	504736	354	20	6286	1841	0	0	0	0	50	0	460019	1	1	
TAZ	2277674	NaN	40	15477	3822	0	0	0	0	50	0	404474	1	1	
TBC1D1	156977	578	48	59276	15967	0	0	0	0	50	0	377272	1	1	
TBC1D10A	622382	211	50	25403	7378	0	0	0	0	50	2	368263	1	1	
TBC1D10B	2312884	165	47	38465	13216	0	0	0	0	50	0	374290	1	1	
TBC1D10C	1269888	177	51	21735	7182	0	0	0	0	50	1	407001	1	1	
TBC1D12	231059	361	22	38675	11221	0	0	0	0	50	0	412622	1	1	
TBC1D13	1768145	201	34	20832	5355	0	0	0	0	50	1	405104	1	1	
TBC1D14	474439	259	58	35308	9611	0	0	0	0	50	0	367703	1	1	
TBC1D15	219208	563	-9	38465	9247	0	0	0	0	50	0	442554	1	1	
TBC1D16	660356	237	21	38052	11256	0	0	0	0	50	0	354851	1	1	
TBC1D17	1673246	205	37	32550	9681	0	0	0	0	50	0	414190	1	1	
TBC1D19	116288	735	17	27867	7014	0	0	0	0	50	0	395626	1	1	

TBC1D2	490665	254	52	45416	13426	0	0	0	0	50	0	337778	1	1	
TBC1D20	726170	229	41	20230	5810	0	0	0	0	50	1	506611	1	1	
TBC1D21	358897	439	26	17850	4263	0	0	0	0	50	0	504231	1	1	
TBC1D22A	310166	538	-25	26579	7063	0	0	0	0	50	1	503881	1	1	
TBC1D22B	516467	376	38	26033	6853	0	0	0	0	50	0	403858	1	1	
TBC1D23	378718	265	25	35637	8946	0	0	0	0	50	2	520751	1	1	
TBC1D24	2085452	321	49	27384	7938	0	0	0	0	50	0	413910	1	1	
TBC1D25	772147	NaN	16	33159	10668	0	0	0	0	50	1	296121	1	1	
TBC1D26	730837	431	-16	13230	3402	0	0	0	0	50	1	438095	1	1	
TBC1D28	729405	435	-2	11032	2828	0	0	0	0	50	0	361809	1	1	
TBC1D29	488195	329	28	7602	2289	0	0	0	0	50	0	332598	1	1	
TBC1D2B	435470	232	54	48559	13181	0	0	0	0	50	0	362516	1	1	
TBC1D3	NaN	NaN	NaN	55755	15687	0	0	0	0	50	2	795235	1	1	
TBC1D3B	739634	565	19	27930	7791	0	0	0	0	50	0	479640	1	1	
TBC1D3C	609181	684	12	55860	15582	0	0	0	0	50	0	439656	1	1	
TBC1D3F	711283	NaN	16	55755	15687	0	0	0	0	50	0	434637	1	1	
TBC1D3G	493184	556	12	27916	7805	0	0	0	0	50	0	362348	1	1	
TBC1D3H	NaN	NaN	NaN	27937	7784	0	0	0	0	50	2	787332	1	1	
TBC1D4	196931	480	17	65590	17927	0	0	0	0	50	0	377503	1	1	
TBC1D5	103389	701	9	42511	10787	0	0	0	0	50	0	588301	1	1	
TBC1D7	258474	423	35	15246	3864	0	0	0	0	50	0	365883	1	1	
TBC1D8	333394	406	17	58051	15428	0	0	0	0	50	2	448791	1	1	
TBC1D8B	149206	NaN	19	58912	14735	0	0	0	0	50	0	270641	1	1	
TBC1D9	146110	621	8	64176	17325	0	0	0	0	50	1	391440	1	1	
TBC1D9B	1626799	359	34	62958	17661	0	0	0	0	50	0	359919	1	1	
TBCA	251029	581	40	5852	1267	0	0	0	0	50	0	348698	1	1	
TBCB	978272	326	6	12383	3472	0	0	0	0	50	1	296975	1	1	
TBCC	960153	187	36	16800	5103	0	0	0	0	50	0	468216	1	1	
TBCCD1	676664	501	35	27930	7812	0	0	0	0	50	0	494277	1	1	
TBCD	651944	456	14	60928	17423	0	0	0	0	50	0	417109	1	1	
TBCE	531741	178	21	27307	7301	0	0	0	0	50	0	379568	1	1	
TBCEL	308922	724	25	21588	5775	0	0	0	0	50	0	493766	1	1	
TBCK	176206	606	7	46214	12208	0	0	0	0	50	1	400155	1	1	
TBK1	459373	411	-22	38262	9408	0	0	0	0	50	0	433132	1	1	
TBKBP1	1198427	217	24	30023	9457	0	0	0	0	50	0	409640	1	1	
TBL1X	119145	NaN	-3	29638	8036	0	0	0	0	50	0	534317	1	1	
TBL1XR1	135357	433	0	26817	6804	0	0	0	0	50	1	423045	1	1	
TBL1Y	0	0	0	27139	6986	0	0	0	0	50	1	416332	1	1	
TBL2	955146	171	48	22288	6440	0	0	0	0	50	1	444346	1	1	
TBL3	1747301	183	46	40432	12383	0	0	0	0	50	0	376299	1	1	
TBP	425191	598	-16	17213	4711	0	0	0	0	50	0	336686	1	1	
TBPL1	102500	359	6	9702	2583	0	0	0	0	50	1	363062	1	1	
TBPL2	729264	159	37	18781	5411	0	0	0	0	50	1	370727	1	1	
TBR1	219774	676	10	33425	10024	0	0	0	0	50	0	393253	1	1	
TBRG1	171901	604	9	20741	5887	0	0	0	0	50	1	425369	1	1	
TBRG4	1070050	291	53	30996	9660	0	0	0	0	50	0	359002	1	1	
TBX1	728313	211	8	29127	9219	0	0	0	0	50	0	441448	1	1	
TBX10	1391063	393	56	19033	5915	0	0	0	0	50	0	383166	1	1	
TBX15	87793	927	-4	24815	7000	0	0	0	0	50	0	420301	1	1	
TBX18	28205	623	-12	29722	9170	0	0	0	0	50	2	503846	1	1	

TBX19	410552	299	20	22316	6601	0	0	0	0	50	0	430073	1	1	
TBX2	292199	414	-9	33978	11445	0	0	0	0	50	0	447468	1	1	
TBX20	154022	926	5	22281	6510	0	0	0	0	50	1	360444	1	1	
TBX21	1118277	217	27	26250	7938	0	0	0	0	50	0	360157	1	1	
TBX22	26689	NaN	-26	26481	7056	0	0	0	0	50	0	606144	1	1	
TBX3	32369	548	-30	36176	11284	0	0	0	0	50	0	387303	1	1	
TBX4	312575	408	-11	27076	7952	0	0	0	0	50	0	432950	1	1	
TBX5	88840	794	-25	27251	7483	0	0	0	0	50	0	400561	1	1	
TBX6	2171952	164	62	21252	6951	0	0	0	0	50	0	464226	1	1	
TBXA2R	2164055	269	35	19726	7217	0	0	0	0	50	0	394121	1	1	
TBXAS1	485631	679	36	29540	8239	0	0	0	0	50	0	374682	1	1	
TC2N	368236	478	21	25235	6622	0	0	0	0	50	0	527863	1	1	
TCAP	1284992	226	38	8176	2534	0	0	0	0	50	0	412993	1	1	
TCEA1	267995	392	29	15946	3836	0	0	0	0	50	1	509047	1	1	
TCEA2	1092168	208	49	15351	4305	0	0	0	0	50	0	425012	1	1	
TCEA3	1050778	163	27	18137	4690	0	0	0	0	50	0	409248	1	1	
TCEAL1	490345	NaN	31	8106	2058	0	0	0	0	50	0	434833	1	1	
TCEAL2	132641	NaN	4	11662	2786	0	0	0	0	50	0	340592	1	1	
TCEAL3	490345	NaN	31	10171	2576	0	0	0	0	50	0	434833	1	1	
TCEAL4	490345	NaN	31	11235	2541	0	0	0	0	50	0	434833	1	1	
TCEAL5	455954	NaN	17	10542	2583	0	0	0	0	50	0	450835	1	1	
TCEAL6	132641	NaN	4	9359	2317	0	0	0	0	50	0	340592	1	1	
TCEAL7	455954	NaN	17	5250	1197	0	0	0	0	49	0	395164	1	1	
TCEAL8	455954	NaN	17	6048	1470	0	0	0	0	50	0	450835	1	1	
TCEANC	138133	NaN	57	19187	5047	0	0	0	0	50	0	453187	1	1	
TCEB1	258047	417	25	5894	1477	0	0	0	0	50	0	338947	1	1	
TCEB2	1717244	210	42	8393	2317	0	0	0	0	50	0	473984	1	1	
TCEB3	960799	225	28	40292	10927	0	0	0	0	50	0	404558	1	1	
TCEB3B	120831	639	34	36498	11004	0	0	0	0	50	0	396165	1	1	
TCEB3C	NaN	NaN	NaN	51926	16954	0	0	0	0	50	2	796502	1	1	
TCEB3CL	120831	639	34	77882	25417	0	0	0	0	50	0	396165	1	1	
TCERG1	377370	463	14	55867	15176	0	0	0	0	50	0	364224	1	1	
TCERG1L	2679	871	-27	29029	8918	0	0	0	0	50	0	405783	1	1	
TCF12	203021	599	27	37625	10213	0	0	0	0	50	1	419125	1	1	
TCF15	617464	404	39	9303	3423	0	0	0	0	50	0	453124	1	1	
TCF19	3364017	401	19	16485	5481	0	0	0	0	50	0	292061	1	1	
TCF20	1257937	305	43	96215	28084	0	0	0	0	22	0	289884	1	1	
TCF21	102722	388	-4	8932	2576	0	0	0	0	50	0	474481	1	1	
TCF23	1214097	238	50	10339	3458	0	0	0	0	50	1	447195	1	1	
TCF25	1207036	221	45	34489	9632	0	0	0	0	50	0	482741	1	1	
TCF4	92114	936	12	34426	9506	0	0	0	0	50	0	432320	1	1	
TCF7	694434	227	60	22148	6328	0	0	0	0	50	1	360094	1	1	
TCF7L1	973960	394	18	29029	9044	0	0	0	0	50	0	440230	1	1	
TCF7L2	156660	435	-9	35273	9625	0	0	0	0	50	0	376656	1	1	
TCFL5	1044503	208	48	24318	7707	0	0	0	0	50	0	396928	1	1	
TCHH	527465	349	35	98273	24283	0	0	0	0	50	0	424613	1	1	
TCHHL1	527465	349	35	44800	12383	0	0	0	0	50	0	424613	1	1	
TCHP	927742	323	37	26068	6335	0	0	0	0	50	0	516306	1	1	
TCIRG1	1168866	251	63	41188	12803	0	0	0	0	50	0	406742	1	1	
TCL1A	256627	582	30	5929	1631	0	0	0	0	50	1	424312	1	1	

TCL1B	256627	582	30	6552	1869	0	0	0	0	50	1	424312	1	1	
TCN1	337128	548	8	22274	5782	0	0	0	0	50	0	414876	1	1	
TCN2	723012	330	56	21462	6174	0	0	0	0	50	0	301462	1	1	
TCOF1	949599	212	40	73913	22561	0	0	0	0	50	0	472570	1	1	
TCP1	648197	420	22	28119	7896	0	0	0	0	50	1	490420	1	1	
TCP10	254009	704	1	16527	4704	0	0	0	0	50	0	492772	1	1	
TCP10L	265057	182	52	10808	3115	0	0	0	0	50	0	350385	1	1	
TCP10L2	NaN	NaN	NaN	17745	5124	0	0	0	0	50	2	784672	1	1	
TCP11	625705	198	29	26901	7518	0	0	0	0	50	1	306936	1	1	
TCP11L1	415951	215	25	25774	7112	0	0	0	0	50	0	336161	1	1	
TCP11L2	204762	396	18	26453	7063	0	0	0	0	50	0	309148	1	1	
TCTA	1585328	201	32	5145	1575	0	0	0	0	50	0	373548	1	1	
TCTE1	1037256	312	54	24395	7609	0	0	0	0	50	0	388717	1	1	
TCTE3	233648	447	3	10318	2555	0	0	0	0	50	1	462595	1	1	
TCTEX1D1	335045	692	-16	9345	2331	0	0	0	0	50	0	351554	1	1	
TCTEX1D2	1164213	231	36	7504	1841	0	0	0	0	50	0	323743	1	1	
TCTEX1D4	574317	191	43	10227	3927	0	0	0	0	50	1	401562	1	1	
TCTN1	859648	194	32	32655	9513	0	0	0	0	50	0	528549	1	1	
TCTN2	871640	315	40	35735	9667	0	0	0	0	50	0	419664	1	1	
TCTN3	370056	547	31	30604	8792	0	0	0	0	50	0	482405	1	1	
TDG	1190703	281	40	21357	5292	0	0	0	0	50	0	523873	1	1	
TDGF1	277267	528	52	9800	2653	0	0	0	0	50	0	349629	1	1	
TDO2	44515	745	-2	21427	5180	0	0	0	0	50	0	513478	1	1	
TDP1	296799	607	12	31570	8057	0	0	0	0	50	0	403662	1	1	
TDP2	419582	373	8	18585	4830	0	0	0	0	50	0	525868	1	1	
TDRD1	279026	477	22	61726	15344	0	0	0	0	50	0	444955	1	1	
TDRD10	1804226	337	43	19418	5362	0	0	0	0	50	0	388031	1	1	
TDRD12	NaN	NaN	NaN	20979	4977	0	0	0	0	50	2	784525	1	1	
TDRD3	69594	808	16	37947	10122	0	0	0	0	50	0	376033	1	1	
TDRD5	599875	613	-9	49672	13538	0	0	0	0	50	1	415996	1	1	
TDRD6	141781	596	1	103579	28784	0	0	0	0	28	0	235410	1	1	
TDRD7	489355	386	36	55741	14840	0	0	0	0	50	0	386995	1	1	
TDRD9	694566	406	28	71162	18949	0	0	0	0	50	0	402745	1	1	
TDRKH	1062482	255	29	28609	7889	0	0	0	0	50	0	440902	1	1	
TEAD1	339042	432	-1	22204	5621	0	0	0	0	50	0	421624	1	1	
TEAD2	2183690	309	30	22533	6615	0	0	0	0	50	0	424781	1	1	
TEAD3	683460	280	36	22302	6174	0	0	0	0	50	0	473249	1	1	
TEAD4	506329	267	35	22323	6006	0	0	0	0	50	0	424914	1	1	
TEC	253162	404	42	33320	7924	0	0	0	0	50	1	390768	1	1	
TECPR1	464632	375	26	58891	16583	0	0	0	0	50	0	373240	1	1	
TECPR2	1666122	191	37	70630	20195	0	0	0	0	50	1	445207	1	1	
TECR	1008795	204	26	16198	4277	0	0	0	0	50	0	404012	1	1	
TECRL	2644	1049	-22	19103	4753	0	0	0	0	50	1	492464	1	1	
TECTA	243065	769	17	108164	29470	0	0	0	0	50	1	400505	1	1	
TECTB	170055	567	-5	17157	4389	0	0	0	0	50	1	373093	1	1	
TEDDM1	349818	783	5	13349	3913	0	0	0	0	50	0	481012	1	1	
TEF	1407073	187	64	16051	4844	0	0	0	0	50	0	373485	1	1	
TEK	116738	387	-28	57407	15316	0	0	0	0	50	0	430934	1	1	
TEKT1	1077116	438	14	21336	5691	0	0	0	0	50	1	332297	1	1	
TEKT2	853740	282	27	21721	6230	0	0	0	0	50	0	464597	1	1	

TEKT3	266888	359	-53	24710	6811	0	0	0	0	50	0	369859	1	1	
TEKT4	167705	749	-6	21637	6335	0	0	0	0	50	0	381381	1	1	
TEKT5	235538	242	-1	24493	6713	0	0	0	0	50	1	413833	1	1	
TELO2	1254229	256	34	40985	13489	0	0	1	0	50	2	363286	1	1	
TENC1	1726226	177	38	71190	22239	0	0	0	0	34	1	329056	1	1	
TEP1	415850	401	-7	130277	39823	0	0	0	0	50	0	408821	1	1	
TEPP	856192	158	9	15127	4340	0	0	0	0	50	0	379778	1	1	
TERF1	155308	637	20	22960	5558	0	0	0	0	50	0	401163	1	1	
TERF2	1197858	125	33	25207	7112	0	0	0	0	50	0	450681	1	1	
TERF2IP	449343	354	18	19593	5775	0	0	0	0	50	0	419419	1	1	
TERT	657890	541	24	54376	18305	0	0	0	0	50	0	515634	1	1	
TES	445405	363	-9	21952	5138	0	0	0	0	50	1	404264	1	1	
TESC	208178	290	16	11326	2807	0	0	0	0	50	0	312172	1	1	
TESK1	1202125	248	37	29855	10402	0	0	0	0	50	1	408730	1	1	
TESK2	902221	176	27	28483	8393	0	0	0	0	50	0	457170	1	1	
TET1	824682	168	41	105504	29967	0	0	0	0	50	1	375417	1	1	
TET2	188424	632	24	101395	27419	0	0	0	0	45	0	348250	1	1	
TET3	1029946	250	44	79975	25340	0	0	0	0	50	1	532945	1	1	
TEX10	246976	476	12	46942	13076	0	0	0	0	50	0	365246	1	1	
TEX101	357202	182	-39	13349	3955	0	0	0	0	50	0	434630	1	1	
TEX11	615286	NaN	4	50764	11858	0	0	0	0	50	0	479976	1	1	
TEX12	389593	362	2	6524	1624	0	0	0	0	50	0	351330	1	1	
TEX13A	9759	NaN	2	19929	6111	0	0	0	0	50	0	372925	1	1	
TEX13B	184382	NaN	40	15337	4550	0	0	0	0	50	1	379344	1	1	
TEX14	735964	268	13	76566	20097	0	0	0	0	50	0	604100	1	1	
TEX15	352456	346	11	140308	35714	0	0	0	0	33	0	277368	1	1	
TEX19	2598845	179	36	8176	2219	0	0	0	0	50	1	401919	1	1	
TEX2	1372704	292	15	56420	16009	0	0	0	0	50	0	479500	1	1	
TEX261	380551	561	27	10003	2828	0	0	0	0	50	1	458409	1	1	
TEX264	759916	456	37	15316	4802	0	0	0	0	50	0	377818	1	1	
TEX28	NaN	NaN	NaN	20370	5901	0	0	0	0	50	2	785449	1	1	
TEX9	208204	604	13	20944	4802	0	0	0	0	50	0	375025	1	1	
TF	489558	523	26	35994	9387	0	0	0	0	50	1	372253	1	1	
TFAM	152882	326	-7	12894	3171	0	0	0	0	50	0	460383	1	1	
TFAP2A	199695	375	6	22757	6685	0	0	0	0	50	0	350000	1	1	
TFAP2B	17044	1081	-14	22645	6902	0	0	0	0	50	2	536487	1	1	
TFAP2C	280847	442	-44	22218	6699	0	0	0	0	50	0	384580	1	1	
TFAP2D	17771	1090	-15	22484	6643	0	0	0	0	50	2	474166	1	1	
TFAP2E	1049488	388	34	21091	7322	0	0	0	0	50	0	278852	1	1	
TFAP4	944378	161	33	16940	4921	0	0	0	0	50	0	413756	1	1	
TFB1M	116637	428	26	17535	4872	0	0	0	0	50	0	412559	1	1	
TFB2M	389456	409	4	20153	5446	0	0	0	0	50	0	406203	1	1	
TFCP2	530649	155	40	26341	6524	0	0	0	0	50	0	350091	1	1	
TFCP2L1	240173	568	9	24892	6566	0	0	0	0	50	1	440888	1	1	
TFDP1	729832	370	53	21175	5642	0	0	0	0	50	1	390075	1	1	
TFDP2	488711	410	27	24836	6622	0	0	0	0	50	0	443772	1	1	
TFDP3	76255	NaN	28	20062	5558	0	0	0	0	50	1	538440	1	1	
TFE3	834140	NaN	41	27909	9135	0	0	0	0	50	0	426944	1	1	
TFEB	458237	251	49	23814	6909	0	0	0	0	50	0	345660	1	1	
TFEC	236823	538	-14	17801	4711	0	0	0	0	50	0	357896	1	1	

TFF1	313101	464	90	4375	1190	0	0	0	0	50	1	334908	1	1	
TFF2	313101	464	90	6720	1722	0	0	0	0	50	1	334908	1	1	
TFF3	313101	464	90	4788	1365	0	0	0	0	50	1	334908	1	1	
TFG	345618	509	16	20216	5635	0	0	0	0	50	1	499408	1	1	
TFIP11	162673	501	-30	43050	10836	0	0	0	0	50	1	456183	1	1	
TFPI	50680	404	-4	18319	4256	0	0	0	0	50	0	364420	1	1	
TFPI2	228127	480	-12	12124	3122	0	0	0	0	50	0	414365	1	1	
TFPT	735613	439	-53	12474	4032	0	0	0	0	27	0	192724	1	1	
TFR2	1884430	247	60	39746	12250	0	0	0	0	50	0	451815	1	1	
TFRC	959125	170	52	39018	10437	0	0	0	0	50	1	412020	1	1	
TG	237421	677	9	139216	39242	0	0	0	0	50	0	444752	1	1	
TGDS	149137	803	14	18585	4452	0	0	0	0	50	0	342643	1	1	
TGFA	715918	463	13	8246	2317	0	0	0	0	50	1	380709	1	1	
TGFB1	1193025	249	33	19250	5887	0	0	0	0	50	3	324716	1	1	
TGFB1I1	839076	558	11	23212	6902	0	0	0	0	50	1	444234	1	1	
TGFB2	75157	386	-18	22533	5964	0	0	0	0	50	0	365239	1	1	
TGFB3	226588	582	34	20783	5740	0	0	0	0	50	0	392511	1	1	
TGFBI	337362	298	32	34244	10192	0	0	0	0	50	0	395451	1	1	
TGFBR1	201435	211	30	25459	7007	0	0	0	0	50	0	389662	1	1	
TGFBR2	80018	417	-9	29960	7987	0	0	0	0	50	1	426930	1	1	
TGFBR3	284037	252	1	42931	12005	0	0	0	0	50	1	437402	1	1	
TGFBRAP1	191525	381	4	42882	12348	0	0	0	0	50	0	388717	1	1	
TGIF1	444864	153	17	20349	6783	0	0	0	0	50	0	486101	1	1	
TGIF2	1019481	176	62	11375	3787	0	0	0	0	50	1	360598	1	1	
TGIF2LX	8315	NaN	-35	11949	3423	0	0	0	0	50	0	474110	1	1	
TGIF2LY	0	0	0	9226	2576	0	0	0	0	50	1	416332	1	1	
TGM1	915114	220	38	40642	12068	0	0	0	0	50	1	414449	1	1	
TGM2	565545	141	41	35231	9793	0	0	0	0	50	1	350686	1	1	
TGM3	555761	399	27	35077	9695	0	0	0	0	50	2	433125	1	1	
TGM4	466410	380	31	35014	9275	0	0	0	0	50	1	367290	1	1	
TGM5	825765	415	44	36638	9835	0	0	0	0	50	0	488173	1	1	
TGM6	611435	477	30	35406	10185	0	0	0	0	50	1	474005	1	1	
TGM7	825765	415	44	35756	10087	0	0	0	0	50	0	488173	1	1	
TGOLN2	975949	211	18	21539	6307	0	0	0	0	50	1	339409	1	1	
TGS1	324398	409	17	44128	10682	0	0	0	0	50	2	458479	1	1	
TH	837088	579	38	26313	8148	0	0	0	0	50	0	380058	1	1	
TH1L	1009250	152	30	30226	8225	0	0	0	0	50	0	403900	1	1	
THADA	428893	408	38	99659	26551	0	0	0	0	50	1	456610	1	1	
THAP1	594393	454	34	11298	2352	0	0	0	0	50	0	500675	1	1	
THAP10	250598	339	10	12544	3878	0	0	0	0	50	0	389053	1	1	
THAP11	1039476	143	49	15071	4774	0	0	0	0	50	0	398153	1	1	
THAP2	259684	393	-11	11585	3010	0	0	0	0	50	0	397166	1	1	
THAP3	628180	259	38	9142	2366	0	0	0	0	50	1	443296	1	1	
THAP4	1213423	426	21	28504	8498	0	0	0	0	50	0	389438	1	1	
THAP5	171249	838	6	19992	5166	0	0	0	0	50	0	362915	1	1	
THAP6	461415	491	19	11592	2793	0	0	0	0	50	0	402066	1	1	
THAP7	577297	192	58	15015	4809	0	0	0	0	50	0	413014	1	1	
THAP8	980636	320	19	13020	4557	0	0	0	0	50	0	364875	1	1	
THAP9	778608	268	42	45283	12005	0	0	0	0	50	0	449197	1	1	
THBD	199022	554	-50	27496	8792	0	0	0	0	50	1	404845	1	1	

THBS1	467443	433	-5	60046	15491	0	0	0	0	50	0	390824	1	1	
THBS2	172423	720	-32	60109	15554	0	0	0	0	50	0	488852	1	1	
THBS3	1801444	194	32	48832	13349	0	0	0	0	50	0	392000	1	1	
THBS4	354204	746	36	49252	13118	0	0	0	0	50	0	362159	1	1	
THEG	901402	578	-17	19103	5467	0	0	0	0	50	0	410165	1	1	
THEM4	966708	212	36	12383	3220	0	0	0	0	50	0	359205	1	1	
THEM5	966708	212	36	12593	3451	0	0	0	0	50	0	359205	1	1	
THEMIS	191535	553	-9	34083	9324	0	0	0	0	50	0	453740	1	1	
THG1L	243382	987	31	15400	3857	0	0	0	0	50	0	369656	1	1	
THNSL1	157790	417	-10	36834	10122	0	0	0	0	50	0	449939	1	1	
THNSL2	180956	612	6	24234	6993	0	0	0	0	50	1	349076	1	1	
THOC1	402181	689	-26	34902	8274	0	0	0	0	50	0	384426	1	1	
THOC2	333292	NaN	4	83580	20076	0	0	0	0	50	0	364700	1	1	
THOC3	537044	631	37	17850	4746	0	0	0	0	50	1	443163	1	1	
THOC4	3798594	211	19	12943	4214	0	0	0	0	50	1	363321	1	1	
THOC5	713942	190	39	35637	9051	0	0	0	0	50	1	359569	1	1	
THOC6	1443513	234	49	17570	5068	0	0	0	0	50	0	372680	1	1	
THOC7	153669	826	-6	11004	2499	0	0	0	0	50	1	380282	1	1	
THOP1	1320743	291	26	34825	9653	0	0	0	0	50	0	446285	1	1	
THPO	1447013	268	44	19810	2828	0	0	0	0	50	1	551999	1	1	
THRA	1573630	202	28	27601	6545	0	0	0	0	50	0	420728	1	1	
THRAP3	742773	170	31	47663	13405	0	0	0	0	20	0	169183	1	1	
THRB	370625	518	-12	23723	6055	0	0	0	0	50	0	453845	1	1	
THRSP	556958	209	38	7350	2037	0	0	0	0	50	0	384986	1	1	
THSD1	384523	370	28	41741	12334	0	0	0	0	50	0	398209	1	1	
THSD4	312827	505	3	51408	14175	0	0	0	0	50	0	383586	1	1	
THSD7A	138176	906	-11	84686	21952	0	0	0	0	50	0	583492	1	1	
THSD7B	11902	824	-16	80507	21070	0	0	0	0	50	1	447083	1	1	
THTPA	1250373	553	35	11172	3549	0	0	0	0	50	1	500087	1	1	
THUMPD1	179233	641	14	17864	4690	0	0	0	0	50	0	506338	1	1	
THUMPD2	117341	739	-8	25900	6650	0	0	0	0	50	0	458185	1	1	
THUMPD3	703818	404	32	25914	6846	0	0	0	0	50	0	468524	1	1	
THY1	1054477	263	40	8001	2457	0	0	0	0	50	0	461559	1	1	
THYN1	270350	623	21	11942	2884	0	0	0	0	50	0	351932	1	1	
TIA1	667934	164	33	20398	4991	0	0	0	0	50	2	418852	1	1	
TIAF1	1586181	236	33	5516	1792	0	0	0	0	50	0	411943	1	1	
TIAL1	823029	217	22	20615	5068	0	0	0	0	50	0	320047	1	1	
TIAM1	210411	924	-24	80171	22225	0	0	0	0	50	0	430311	1	1	
TIAM2	120675	362	27	85372	23870	0	0	0	0	50	1	394513	1	1	
TICAM1	765978	187	52	33684	11235	0	0	0	0	50	0	357679	1	1	
TIE1	1091212	264	30	56420	17227	0	0	0	0	50	0	419965	1	1	
TIFA	182788	351	37	9408	2331	0	0	0	0	50	0	392756	1	1	
TIFAB	625030	509	47	7630	2660	0	0	0	0	50	1	474635	1	1	
TIGD1	NaN	NaN	NaN	29414	7924	0	0	0	0	50	2	787472	1	1	
TIGD2	147602	529	24	26250	6888	0	0	0	0	50	0	396340	1	1	
TIGD3	4112809	242	50	22477	7343	0	0	0	0	50	1	406875	1	1	
TIGD4	209186	413	41	25291	7028	0	0	0	0	50	2	442890	1	1	
TIGD5	2183482	235	37	29918	10591	0	0	0	0	50	0	386120	1	1	
TIGD6	1070181	149	44	25949	7021	0	0	0	0	50	0	434238	1	1	
TIGD7	1397628	303	32	27566	7084	0	0	0	0	50	1	458367	1	1	

TIGIT	369332	614	19	12124	3605	0	0	0	0	50	0	399658	1	1	
TIMD4	135146	1235	16	19040	5551	0	0	0	0	50	0	356916	1	1	
TIMELESS	2793663	184	61	61677	16842	0	0	0	0	50	0	523271	1	1	
TIMM10	923775	197	9	4732	1169	0	0	0	0	50	0	363020	1	1	
TIMM13	1604277	267	35	4907	1309	0	0	0	0	34	0	240450	1	1	
TIMM16	849632	161	37	6552	1806	0	0	0	0	50	0	371581	1	1	
TIMM17A	751933	168	31	8799	2499	0	0	0	0	50	1	396781	1	1	
TIMM17B	834040	NaN	38	11284	3353	0	0	0	0	50	0	294833	1	1	
TIMM22	1306390	270	27	9702	2877	0	0	0	0	50	1	384454	1	1	
TIMM23	404636	579	39	10654	3080	0	0	0	0	50	0	411159	1	1	
TIMM44	960059	320	23	23296	6251	0	0	0	0	50	0	381864	1	1	
TIMM50	1410725	230	39	22617	7014	0	0	0	0	50	0	544768	1	1	
TIMM8A	374364	NaN	37	5285	1372	0	0	0	0	50	1	424025	1	1	
TIMM8B	389805	179	31	5054	1351	0	0	0	0	50	0	443954	1	1	
TIMM9	290701	552	46	4802	1120	0	0	0	0	50	0	365652	1	1	
TIMP1	775214	NaN	38	10668	2898	0	0	0	0	50	0	463281	1	1	
TIMP2	681697	157	24	11312	2947	0	0	0	0	50	0	430864	1	1	
TIMP3	259538	398	-69	10878	2814	0	0	0	0	32	0	173572	1	1	
TIMP4	348401	238	23	11459	3052	0	0	1	0	4	1	42973	1	1	
TINAG	58216	617	4	24906	5985	0	0	0	0	50	1	544544	1	1	
TINAGL1	1061386	197	37	23758	6650	0	0	0	0	50	0	347186	1	1	
TINF2	915114	220	38	22358	6832	0	0	0	0	50	1	414449	1	1	
TIPARP	407941	502	22	33390	8484	0	0	0	0	50	0	485737	1	1	
TIPIN	505508	307	46	15701	3913	0	0	0	0	50	1	430101	1	1	
TIPRL	475438	391	16	14602	3584	0	0	0	0	50	0	403781	1	1	
TIRAP	385871	426	29	11865	3675	0	0	0	0	50	0	449155	1	1	
TJP1	194015	515	-46	87703	24752	0	0	0	0	50	1	408352	1	1	
TJP2	224404	525	24	64183	18053	0	0	0	0	50	0	395738	1	1	
TJP3	2144458	206	34	47194	14462	0	0	0	0	50	0	378000	1	1	
TK1	527017	217	27	11893	3416	0	0	0	0	50	0	421456	1	1	
TK2	600023	214	-11	14518	3731	0	0	0	0	50	1	454433	1	1	
TKT	782559	192	54	31605	8883	0	0	0	0	50	1	377503	1	1	
TKTL2	74744	1164	-26	30296	9205	0	0	0	0	50	0	423801	1	1	
TLCD1	1695792	208	40	13013	4018	0	0	0	0	50	0	501767	1	1	
TLCD2	NaN	NaN	NaN	12565	4382	0	0	0	0	50	2	783930	1	1	
TLE1	36728	629	-33	39179	10990	0	0	0	0	50	0	441875	1	1	
TLE2	1106128	195	32	38710	11270	0	0	0	0	50	1	367038	1	1	
TLE3	300053	417	28	39319	10976	0	0	0	0	50	0	478681	1	1	
TLE4	45472	956	-9	39305	11053	0	0	0	0	50	1	486913	1	1	
TLE6	1119793	197	35	29512	7931	0	0	0	0	50	1	406196	1	1	
TLK1	439214	379	38	40712	10255	0	0	0	0	50	0	440839	1	1	
TLK2	316879	370	-2	39228	9849	0	0	0	0	50	0	440293	1	1	
TLL1	81353	538	-19	52563	12999	0	0	0	0	50	1	417431	1	1	
TLL2	798938	623	33	52171	13517	0	0	0	0	50	0	388290	1	1	
TLN1	1062287	163	43	126392	38458	0	0	0	0	50	0	515956	1	1	
TLN2	315754	568	15	127617	37212	0	0	0	0	50	1	516166	1	1	
TLR1	310020	437	58	39403	10262	0	0	0	0	50	0	430612	1	1	
TLR10	304012	437	42	40516	10724	0	0	0	0	50	2	455861	1	1	
TLR2	143076	685	18	38892	10647	0	0	0	0	50	0	370321	1	1	
TLR3	355117	414	-13	45150	12201	0	0	0	0	50	0	413434	1	1	

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TLR4	58763	944	-8	41636	11452	0	0	0	0	50	1	455294	1	1	
TLR5	361954	297	-8	42350	11851	0	0	0	0	50	2	459403	1	1	
TLR6	316028	437	75	39935	10360	0	0	0	0	50	1	359870	1	1	
TLR7	208310	NaN	55	52122	14196	0	0	0	0	50	0	432929	1	1	
TLR8	208025	NaN	64	51646	14126	0	0	0	0	50	2	571655	1	1	
TLR9	1114737	181	52	49140	16023	0	0	0	0	50	0	445732	1	1	
TLX1	469702	221	52	15827	5194	0	0	0	0	50	0	387198	1	1	
TLX1NB	469702	221	52	5817	1932	0	0	0	0	50	0	387198	1	1	
TLX2	1019591	315	50	13307	4816	0	0	0	0	50	0	429359	1	1	
TLX3	269453	434	25	14056	4550	0	0	0	0	50	0	337197	1	1	
TM2D1	174892	296	-9	10626	2982	0	0	0	0	50	0	461734	1	1	
TM2D2	421614	428	42	12306	3549	0	0	0	0	50	1	440979	1	1	
TM2D3	322884	469	-9	12509	3577	0	0	0	0	50	0	441532	1	1	
TM4SF1	529009	254	8	10185	2940	0	0	0	0	50	0	536704	1	1	
TM4SF18	529009	254	8	10339	2849	0	0	0	0	50	0	536704	1	1	
TM4SF19	1164213	231	36	10213	3332	0	0	0	0	50	0	323743	1	1	
TM4SF20	248187	164	18	11571	3213	0	0	0	0	50	1	380674	1	1	
TM4SF4	558016	159	6	10248	2877	0	0	0	0	50	1	403060	1	1	
TM4SF5	1272092	222	28	9793	3101	0	0	0	0	50	0	469798	1	1	
TM6SF1	308479	635	29	18732	5397	0	0	0	0	50	0	374955	1	1	
TM6SF2	940952	232	17	19005	5607	0	0	0	0	50	1	405944	1	1	
TM7SF2	3267059	207	46	20524	6629	0	0	0	0	50	0	402752	1	1	
TM7SF3	408250	320	26	28756	8141	0	0	0	0	50	0	413203	1	1	
TM7SF4	40736	1032	14	23100	6825	0	0	0	0	50	0	477554	1	1	
TM9SF1	974559	220	41	30296	9226	0	0	0	0	50	2	483035	1	1	
TM9SF2	310978	472	69	34209	8967	0	0	0	0	50	1	357098	1	1	
TM9SF3	790373	642	24	30520	7826	0	0	0	0	50	0	482195	1	1	
TM9SF4	1055549	262	36	33222	8715	0	0	0	0	50	0	331597	1	1	
TMBIM1	730654	197	33	15925	4655	0	0	0	0	50	1	363944	1	1	
TMBIM4	243040	696	5	12096	3507	0	0	0	0	50	0	416962	1	1	
TMBIM6	1828526	265	67	15253	4151	0	0	0	0	50	0	447503	1	1	
TMC1	395593	486	10	39942	9681	0	0	0	0	50	0	391650	1	1	
TMC2	778654	450	41	46116	12663	0	0	0	0	50	0	400127	1	1	
TMC3	245396	787	28	55923	15204	0	0	0	0	50	0	398713	1	1	
TMC4	735613	439	-53	34643	11452	0	0	0	0	50	0	578004	1	1	
TMC6	527017	217	27	39963	12411	0	0	0	0	50	0	421456	1	1	
TMC7	850990	171	18	36925	9947	0	0	0	0	50	0	394072	1	1	
TMC8	527017	217	27	35385	11676	0	0	0	0	50	0	421456	1	1	
TMCC1	614377	357	40	32263	9191	0	0	0	0	50	0	483784	1	1	
TMCC2	690215	169	34	34286	10780	0	0	0	0	50	2	421862	1	1	
TMCC3	242132	576	26	23730	6636	0	0	0	0	50	1	492233	1	1	
TMCO1	321853	406	-2	9772	2639	0	0	0	0	50	0	400575	1	1	
TMCO2	627703	373	18	9149	2548	0	0	0	0	50	0	422688	1	1	
TMCO3	768219	318	50	33747	9975	0	0	0	0	50	1	350259	1	1	
TMCO4	668417	220	29	31360	9737	0	0	0	0	50	1	350546	1	1	
TMCO5A	92801	921	-59	15498	3549	0	0	0	0	50	0	351414	1	1	
TMCO6	774470	356	31	24332	7756	0	0	0	0	50	0	408716	1	1	
TMCO7	925521	253	30	54474	15981	0	0	0	0	50	2	354515	1	1	
TMED1	2054203	208	30	11221	3395	0	0	0	0	50	1	381969	1	1	
TMED10	884650	154	47	11095	3143	0	0	0	0	50	1	444892	1	1	

TMED2	987941	424	47	10241	2737	0	0	0	0	50	0	514556	1	1	
TMED3	259115	736	19	10787	3157	0	0	0	0	50	1	474754	1	1	
TMED4	1462615	191	56	11501	3241	0	0	0	0	50	0	378770	1	1	
TMED5	608924	412	10	12845	3010	0	0	0	0	50	1	427686	1	1	
TMED6	1202748	125	20	12208	3269	0	0	0	0	50	0	354158	1	1	
TMED7	NaN	NaN	NaN	11095	3248	0	0	0	0	50	2	782796	1	1	
TMED7-TICAM2	359255	611	45	11809	3395	0	0	0	0	50	0	371441	1	1	
TMED8	551151	418	50	16324	4613	0	0	0	0	50	0	480298	1	1	
TMED9	1316033	475	42	11865	3381	0	0	0	0	50	1	460691	1	1	
TMEFF1	238688	591	-11	19705	5054	0	0	0	0	50	0	379694	1	1	
TMEFF2	69320	677	0	19586	4795	0	0	0	0	50	0	384083	1	1	
TMEM100	59099	585	-58	6566	2023	0	0	0	0	50	1	415261	1	1	
TMEM101	920082	241	29	12565	3983	0	0	0	0	50	1	343385	1	1	
TMEM102	1906324	206	33	23709	8526	0	0	0	0	50	1	462924	1	1	
TMEM104	1005466	320	19	24626	7441	0	0	0	0	50	0	389263	1	1	
TMEM105	2765068	191	24	6237	2121	0	0	0	0	50	0	460936	1	1	
TMEM106A	1341175	172	25	13328	3829	0	0	0	0	50	0	420231	1	1	
TMEM106B	114769	532	-9	14224	3689	0	0	0	0	50	0	441462	1	1	
TMEM106C	374433	246	47	12803	3598	0	0	0	0	50	0	350287	1	1	
TMEM107	1381225	202	37	7406	2191	0	0	0	0	50	0	554176	1	1	
TMEM108	418705	773	10	27181	9527	0	0	0	0	50	0	460411	1	1	
TMEM109	794900	522	47	11431	4193	0	0	0	0	50	1	430885	1	1	
TMEM11	416965	517	-27	9324	2919	0	0	0	0	50	0	388101	1	1	
TMEM110	1107657	264	52	15015	4200	0	0	0	0	50	0	428127	1	1	
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TMEM114	NaN	NaN	NaN	5985	1890	0	0	0	0	50	2	781438	1	1	
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TMEM116	816439	317	43	12628	3458	0	0	0	0	50	0	413413	1	1	
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TMEM119	437636	399	40	13391	4585	0	0	0	0	50	1	480235	1	1	
TMEM120A	1072825	218	49	17969	4627	0	0	0	0	50	0	422688	1	1	
TMEM120B	796879	190	43	17808	4536	0	0	0	0	50	0	341236	1	1	
TMEM121	689089	298	41	14854	5306	0	0	0	0	50	1	415002	1	1	
TMEM123	491236	312	16	10234	3269	0	0	0	0	50	0	350357	1	1	
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TMEM126A	325720	554	-19	9919	2807	0	0	0	0	50	1	486185	1	1	
TMEM126B	325720	554	-19	10283	2716	0	0	0	0	50	1	486185	1	1	
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TMEM128	146135	584	35	7399	1883	0	0	0	0	50	0	348138	1	1	
TMEM129	867402	350	39	17584	5537	0	0	0	0	50	0	416283	1	1	
TMEM130	1040178	526	34	21686	6370	0	0	0	0	50	1	398006	1	1	
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TMEM132A	798818	512	52	48314	17101	0	0	0	0	50	1	482734	1	1	
TMEM132B	492460	860	-17	53508	15183	0	0	0	0	50	0	335265	1	1	
TMEM132C	NaN	NaN	NaN	53928	16611	0	0	0	0	50	2	796159	1	1	
TMEM132D	32086	969	-33	54348	15624	0	0	0	0	50	0	460789	1	1	
TMEM132E	222789	740	-3	46963	15848	0	0	0	0	50	0	436779	1	1	
TMEM133	23524	920	-24	6300	1890	0	0	0	0	50	0	408681	1	1	
TMEM134	1392213	215	53	10003	2891	0	0	0	0	50	0	303898	1	1	
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TMEM141	1898901	190	39	5817	1428	0	0	0	0	50	0	489384	1	1	
TMEM143	1478750	217	36	22204	7406	0	0	0	0	50	0	615027	1	1	
TMEM144	135911	684	-9	18011	4711	0	0	0	0	50	0	595357	1	1	
TMEM145	792230	218	42	24913	7427	0	0	0	0	50	0	481950	1	1	
TMEM146	990266	225	26	41209	10976	0	0	0	0	50	0	420105	1	1	
TMEM147	1081638	390	41	11578	3185	0	0	0	0	50	1	357574	1	1	
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TMEM14B	263716	468	14	5964	1701	0	0	0	0	50	1	342160	1	1	
TMEM14C	263716	468	14	5964	1659	0	0	0	0	50	1	342160	1	1	
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TMEM151B	NaN	NaN	NaN	27090	8799	0	0	0	0	50	2	788347	1	1	
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TMEM167B	989913	215	18	3864	1071	0	0	0	0	50	1	338884	1	1	
TMEM168	160383	814	-16	34524	9702	0	0	0	0	50	0	466228	1	1	
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TMEM176A	749051	604	16	11760	3612	0	0	0	0	50	0	440503	1	1	
TMEM176B	734961	689	14	13496	4144	0	0	0	0	50	0	383621	1	1	
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TMEM18	144358	557	-14	7427	1834	0	0	0	0	50	0	468195	1	1	
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TMEM184B	1631137	184	67	20594	5782	0	0	0	0	50	0	451500	1	1	
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TMEM200A	126083	954	23	24115	6965	0	0	0	0	50	0	426419	1	1	
TMEM200B	598249	235	19	13944	5544	0	0	0	0	50	0	361851	1	1	
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TMEM222	884974	188	30	10710	2919	0	0	0	0	50	0	563206	1	1	
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TMEM225	89099	736	-8	11571	2919	0	0	0	0	50	0	505463	1	1	
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TMEM229B	488731	311	39	8225	2443	0	0	0	0	50	0	325381	1	1	
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TMEM27	170317	NaN	28	11466	3003	0	0	0	0	50	0	483154	1	1	
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TMEM30B	351491	448	-11	16772	5404	0	0	0	0	50	0	449106	1	1	
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TMEM39A	270591	599	29	24486	6993	0	0	0	0	50	1	418656	1	1	
TMEM39B	1242874	218	24	24486	7245	0	0	0	0	50	0	419111	1	1	
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TMEM41A	953031	366	31	13062	4011	0	0	0	0	50	0	397579	1	1	
TMEM41B	669286	170	20	14917	4277	0	0	0	0	50	0	493395	1	1	
TMEM42	466410	380	31	7847	2443	0	0	0	0	50	1	367290	1	1	
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TMEM45A	346650	411	7	14056	3752	0	0	0	0	50	1	352240	1	1	
TMEM45B	632501	231	-2	14035	3773	0	0	0	0	50	0	406364	1	1	
TMEM47	7188	NaN	-16	8918	2716	0	0	0	0	50	1	491071	1	1	
TMEM48	535585	319	24	34636	9317	0	0	0	0	50	0	392679	1	1	
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TMEM55B	464497	395	17	14182	4277	0	0	0	0	50	0	420504	1	1	
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TMEM69	953032	157	30	12173	3619	0	0	0	0	50	0	481481	1	1	
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TMEM81	655446	431	37	12390	3738	0	0	0	0	50	0	388794	1	1	
TMEM82	683349	174	22	16114	5978	0	0	0	0	50	0	457247	1	1	
TMEM85	453823	242	11	9436	2534	0	0	0	0	50	0	513800	1	1	
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TMEM86B	1035412	209	5	10857	3612	0	0	0	0	50	1	338198	1	1	
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TMEM8C	1858670	315	39	11137	3269	0	0	0	0	50	0	406028	1	1	
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TMEM90A	604423	384	45	11690	3619	0	0	0	0	50	0	428778	1	1	
TMEM90B	178967	927	-37	12894	3675	0	0	0	0	50	0	307307	1	1	
TMEM91	1193025	249	33	10087	3017	0	0	0	0	50	3	324716	1	1	
TMEM92	1297691	196	28	8148	2394	0	0	0	0	50	0	484211	1	1	
TMEM93	504736	354	20	5208	1869	0	0	0	0	50	0	460019	1	1	
TMEM95	1911735	206	36	9485	2716	0	0	0	0	50	1	434000	1	1	
TMEM97	1405196	214	10	8827	2492	0	0	0	0	50	0	442414	1	1	
TMEM98	443753	833	-6	11326	3479	0	0	0	0	50	0	385651	1	1	
TMEM99	836683	269	-10	12432	3885	0	0	0	0	50	1	325171	1	1	
TMEM9B	548433	243	21	9968	2905	0	0	0	0	50	0	407848	1	1	
TMF1	263910	443	9	55874	14392	0	0	0	0	50	0	422856	1	1	
TMIE	298503	495	41	7875	2268	0	0	0	0	50	0	373058	1	1	
TMIGD1	475180	232	26	13580	3493	0	0	0	0	50	0	351953	1	1	
TMIGD2	2127558	220	33	14133	4074	0	0	0	0	50	0	341194	1	1	
TMLHE	272469	NaN	-2	23898	6195	0	0	0	0	50	0	432124	1	1	
TMOD1	523548	420	35	18501	4935	0	0	0	0	50	0	447594	1	1	
TMOD2	443665	165	27	18242	4690	0	0	0	0	50	1	468636	1	1	
TMOD3	511166	132	27	18375	4620	0	0	0	0	50	1	407568	1	1	
TMOD4	1562281	184	33	18004	4592	0	0	0	0	50	0	412216	1	1	
TMPO	487754	218	21	47285	14014	0	0	0	0	50	0	335825	1	1	
TMPPE	513008	372	33	21567	7035	0	0	0	0	50	0	416920	1	1	
TMPRSS11A	212678	809	4	21742	5600	0	0	0	0	50	0	365127	1	1	
TMPRSS11B	170820	716	-19	21581	5446	0	0	0	0	50	0	458262	1	1	
TMPRSS11BNL	NaN	NaN	NaN	5579	1351	0	0	0	0	31	2	344834	1	1	
TMPRSS11D	210733	767	22	21301	5894	0	0	0	0	50	0	443786	1	1	

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TMPRSS11E	108503	748	7	21735	5775	0	0	0	0	50	0	465990	1	1	
TMPRSS11F	211571	812	-6	22533	5922	0	0	0	0	50	1	420154	1	1	
TMPRSS12	594068	250	43	17388	4977	0	0	0	0	50	1	419062	1	1	
TMPRSS13	527704	576	45	28371	8463	0	0	0	0	50	1	403249	1	1	
TMPRSS15	274061	981	-64	52885	13433	0	0	0	0	50	0	298494	1	1	
TMPRSS2	266466	454	61	27286	7322	0	0	0	0	50	1	457072	1	1	
TMPRSS3	339928	400	80	24535	6839	0	0	0	0	50	1	380996	1	1	
TMPRSS4	579148	447	50	22652	5950	0	0	0	0	50	0	509579	1	1	
TMPRSS5	124189	613	12	23114	6748	0	0	0	0	50	0	432824	1	1	
TMPRSS6	699535	379	44	40803	11781	0	0	0	0	50	1	522970	1	1	
TMPRSS7	265735	336	21	36715	9779	0	0	0	0	50	0	411054	1	1	
TMPRSS9	1553941	267	33	51436	16667	0	0	0	0	50	0	346157	1	1	
TMSB10	848135	275	12	2471	532	0	0	0	0	9	0	62307	1	1	
TMSB15A	96151	NaN	0	2534	532	0	0	0	0	15	0	105658	1	1	
TMSB15B	439642	NaN	30	2534	532	0	0	0	0	25	1	186655	1	1	
TMSB4X	NaN	NaN	NaN	2485	518	0	0	0	0	5	2	47159	1	1	
TMSB4Y	0	0	0	2394	525	0	0	0	0	5	0	17899	1	1	
TMSL3	NaN	NaN	NaN	2331	546	0	0	0	0	26	2	228186	1	1	
TMTC1	99753	510	-15	39417	10836	0	0	0	0	50	1	530376	1	1	
TMTC2	61571	1375	-11	42056	11599	0	0	0	0	50	2	453838	1	1	
TMTC3	149643	429	-9	46452	12285	0	0	0	0	50	0	411852	1	1	
TMTC4	123356	622	28	38409	10962	0	0	0	0	50	1	392336	1	1	
TMUB1	622098	373	41	11557	4172	0	0	0	0	50	0	494340	1	1	
TMUB2	930750	175	41	15484	5138	0	0	0	0	50	1	428519	1	1	
TMX1	338961	610	38	14546	3745	0	0	0	0	50	0	341411	1	1	
TMX2	922344	354	11	15141	4200	0	0	0	0	50	1	270053	1	1	
TMX3	70753	920	-24	24164	5761	0	0	0	0	50	0	406280	1	1	
TMX4	72842	609	-25	17927	4711	0	0	0	0	50	0	427777	1	1	
TNC	194891	374	0	109508	31402	0	0	0	0	50	0	487956	1	1	
TNF	2517285	220	35	11431	3563	0	0	0	0	50	0	429142	1	1	
TNFAIP1	1405196	214	10	15946	4445	0	0	0	0	50	0	442414	1	1	
TNFAIP2	952836	211	40	31976	10129	0	0	0	0	50	1	447909	1	1	
TNFAIP3	315946	256	51	39907	10598	0	0	0	0	50	1	384713	1	1	
TNFAIP6	216177	589	24	14462	3514	0	0	0	0	50	0	452802	1	1	
TNFAIP8	305890	296	55	10227	2478	0	0	0	0	50	1	347361	1	1	
TNFAIP8L1	921603	203	35	8862	3003	0	0	0	0	50	0	421183	1	1	
TNFAIP8L2	1562281	184	33	8890	2849	0	0	0	0	50	0	412216	1	1	
TNFAIP8L3	285978	427	26	14574	4095	0	0	0	0	50	0	392042	1	1	
TNFRSF10A	633411	240	42	23422	6881	0	0	0	0	50	1	480445	1	1	
TNFRSF10B	694327	213	48	22176	6279	0	0	0	0	50	2	322273	1	1	
TNFRSF10C	648331	237	48	12929	3787	0	0	1	0	24	1	193522	1	1	
TNFRSF10D	640871	237	45	19341	5754	0	0	0	0	50	1	436065	1	1	
TNFRSF11A	145370	264	42	30877	8792	0	0	0	0	50	0	405342	1	1	
TNFRSF11B	179358	381	9	20608	5054	0	0	0	0	50	0	393302	1	1	
TNFRSF12A	1443513	234	49	6377	2107	0	0	0	0	50	0	372680	1	1	
TNFRSF13B	1122696	237	2	14721	4179	0	0	0	0	50	1	340431	1	1	
TNFRSF13C	1335011	323	67	8526	3339	0	0	0	0	50	0	314594	1	1	
TNFRSF14	339388	228	38	14441	4039	0	0	0	0	50	0	338716	1	1	
TNFRSF17	571257	441	64	9324	2499	0	0	0	0	50	1	382921	1	1	
TNFRSF18	2356409	196	27	16450	4487	0	0	0	0	50	0	525952	1	1	

TNFRSF19	181889	614	32	21588	6027	0	0	0	0	50	0	377727	1	1	
TNFRSF1A	2670962	198	46	22904	6580	0	0	0	0	50	1	532784	1	1	
TNFRSF1B	516231	263	32	23058	6846	0	0	0	0	50	0	389228	1	1	
TNFRSF21	206419	389	1	32158	9590	0	0	0	0	50	0	524195	1	1	
TNFRSF25	644634	203	44	21756	5985	0	0	0	0	50	1	422121	1	1	
TNFRSF4	2356409	196	27	13762	4298	0	0	0	0	50	0	525952	1	1	
TNFRSF6B	1126597	202	36	14392	4907	0	0	0	0	50	1	361445	1	1	
TNFRSF8	517022	191	35	29876	8890	0	0	0	0	50	0	382970	1	1	
TNFRSF9	381467	207	24	13293	3423	0	0	0	0	50	1	420532	1	1	
TNFSF10	319022	263	23	14623	3521	0	0	0	0	50	1	502684	1	1	
TNFSF11	188787	595	67	15960	4410	0	0	0	0	50	0	341453	1	1	
TNFSF12	NaN	NaN	NaN	12222	4116	0	0	0	0	50	2	783664	1	1	
TNFSF12-TN-FSF13	1957426	194	24	16716	5061	0	0	0	0	50	2	432103	1	1	
TNFSF13	1957426	194	24	12635	3787	0	0	0	0	50	2	432103	1	1	
TNFSF13B	66992	899	1	14315	4165	0	0	0	0	50	1	386029	1	1	
TNFSF14	745830	259	29	11662	3857	0	0	0	0	50	0	451703	1	1	
TNFSF15	249550	286	-8	12607	3521	0	0	0	0	50	1	424277	1	1	
TNFSF18	251425	492	0	10171	2618	0	0	0	0	50	1	423164	1	1	
TNFSF4	293612	492	-1	9240	2520	0	0	0	0	50	1	494515	1	1	
TNFSF8	241285	318	-9	11788	3269	0	0	0	0	50	0	394352	1	1	
TNFSF9	836909	212	21	11788	4487	0	0	0	0	50	1	332045	1	1	
TNIK	146464	805	25	69909	18522	0	0	0	0	50	0	338023	1	1	
TNIP1	892080	382	27	32641	8918	0	0	0	0	50	0	411656	1	1	
TNIP2	628294	228	46	21322	6314	0	0	0	0	50	1	458521	1	1	
TNIP3	214178	900	4	17598	3864	0	0	0	0	50	0	380002	1	1	
TNK1	1911735	206	36	31962	10752	0	0	0	0	50	1	434000	1	1	
TNK2	934412	285	48	54089	17542	0	0	0	0	50	1	474355	1	1	
TNKS	106755	854	20	66437	19453	0	0	0	0	50	0	429835	1	1	
TNKS1BP1	929334	250	-20	83552	26362	0	0	0	0	50	1	411075	1	1	
TNKS2	333272	331	15	59283	16422	0	0	0	0	50	3	433125	1	1	
TNMD	182582	NaN	-2	16548	3990	0	0	0	0	50	2	367325	1	1	
TNNC1	1078407	229	62	8785	1883	0	0	0	0	50	1	410865	1	1	
TNNC2	742720	180	48	8736	1869	0	0	0	0	50	2	302897	1	1	
TNNI1	857879	209	26	9716	2716	0	0	0	0	50	0	330008	1	1	
TNNI2	916434	481	33	9996	2436	0	0	0	0	50	0	418691	1	1	
TNNI3	1036976	266	-1	10724	3094	0	0	0	0	50	0	289856	1	1	
TNNI3K	87070	1135	-16	49511	12754	0	0	0	0	50	1	519988	1	1	
TNNT1	1036976	266	-1	15085	3584	0	0	0	0	50	0	289856	1	1	
TNNT2	857879	209	26	17087	3472	0	0	0	0	50	0	330008	1	1	
TNNT3	827096	481	53	16072	3311	0	0	0	0	50	1	492408	1	1	
TNP1	261601	642	23	2954	700	0	0	0	0	34	0	208348	1	1	
TNP2	632841	308	37	7140	1743	0	0	0	0	50	0	431361	1	1	
TNPO1	469585	388	30	46935	11718	0	0	0	0	50	1	412181	1	1	
TNPO2	1959466	226	29	46221	12411	0	0	0	0	50	2	460684	1	1	
TNPO3	821362	361	52	46963	13097	0	0	0	0	50	1	475237	1	1	
TNR	177437	738	4	68047	19334	0	0	0	0	32	0	288722	1	1	
TNRC18	1893797	256	14	142170	47229	0	0	0	0	20	0	228095	1	1	
TNRC6A	291928	342	19	98763	26922	0	0	0	0	50	3	469721	1	1	
TNRC6B	502506	484	34	93702	26271	0	0	0	0	41	0	386764	1	1	

TNRC6C	620383	217	26	85295	25207	0	0	0	0	50	0	450030	1	1	
TNS3	192490	488	16	71946	21336	0	0	0	0	50	0	350497	1	1	
TNS4	1185295	203	19	35322	10794	0	0	0	0	40	0	327964	1	1	
TNXB	2242514	203	33	237188	75376	0	0	0	0	0	0	75376	1	1	
TOB1	1152451	161	15	17192	4648	0	0	0	0	50	0	336826	1	1	
TOB2	1480984	187	73	16695	5124	0	0	0	0	50	0	325241	1	1	
TOE1	994992	249	29	26089	7448	0	0	0	0	50	0	448959	1	1	
TOLLIP	1373249	311	46	13790	3955	0	0	0	0	50	2	581784	1	1	
TOM1	362269	241	-24	25018	7280	0	0	0	0	50	0	461965	1	1	
TOM1L1	131125	869	-61	24948	6342	0	0	0	0	50	0	353997	1	1	
TOM1L2	1093302	173	22	25795	7385	0	0	0	0	50	0	347081	1	1	
TOMM20	583355	168	26	7574	1960	0	0	0	0	50	0	393498	1	1	
TOMM20L	290701	552	46	8015	2044	0	0	0	0	50	0	365652	1	1	
TOMM22	1056349	262	45	7175	2128	0	0	0	0	50	0	477918	1	1	
TOMM34	952219	282	32	15729	4305	0	0	0	0	50	1	398468	1	1	
TOMM40	961910	196	2	18151	5537	0	0	0	0	50	1	329210	1	1	
TOMM40L	731911	229	39	15596	4543	0	0	0	0	50	0	467551	1	1	
TOMM5	511883	338	34	5208	1491	0	0	0	0	50	0	383075	1	1	
TOMM6	NaN	NaN	NaN	3773	1120	0	0	0	0	31	2	344603	1	1	
TOMM7	956904	381	19	3003	735	0	0	0	0	35	0	253575	1	1	
TOMM70A	377740	361	20	31164	8127	0	0	0	0	50	2	456498	1	1	
TOP1	383646	129	14	40859	9079	0	0	0	0	50	1	394863	1	1	
TOP1MT	1770114	220	27	30793	8309	0	0	0	0	50	1	430703	1	1	
TOP2A	1220026	191	23	79863	19509	0	0	0	0	50	0	416626	1	1	
TOP2B	216871	636	-6	84140	20986	0	0	0	0	50	0	509481	1	1	
TOP3A	941112	223	13	50631	14007	0	0	0	0	50	0	475020	1	1	
TOP3B	471565	474	58	43827	12012	0	0	0	0	50	1	284564	1	1	
TOPBP1	406166	396	37	77749	20468	0	0	0	0	50	0	429891	1	1	
TOPORS	474275	362	-7	51534	14532	0	0	0	0	50	1	392819	1	1	
TOR1A	600401	187	44	16863	4494	0	0	0	0	50	1	421176	1	1	
TOR1AIP1	470940	364	5	29281	8267	0	0	0	0	50	0	441994	1	1	
TOR1AIP2	470940	364	5	29995	8246	0	0	0	0	50	0	441994	1	1	
TOR1B	600401	187	44	16821	4788	0	0	0	0	50	1	421176	1	1	
TOR2A	1098647	172	32	19348	4823	0	0	0	0	50	0	354669	1	1	
TOR3A	345937	301	4	19880	5614	0	0	0	0	50	0	433965	1	1	
TOX	192821	695	19	26565	7308	0	0	0	0	50	0	337953	1	1	
TOX2	639806	396	14	27076	8309	0	0	0	0	50	0	394093	1	1	
TOX3	62431	993	-53	30198	8358	0	0	0	0	50	0	372764	1	1	
TOX4	707390	470	30	30569	9310	0	0	0	0	50	1	465661	1	1	
TP53	2069567	213	34	21623	5971	0	0	0	0	50	0	362775	1	1	
TP53AIP1	195815	580	-2	5299	1652	0	0	0	0	50	1	378126	1	1	
TP53BP1	794398	368	43	99274	27608	0	0	0	0	50	1	501865	1	1	
TP53BP2	609494	361	4	57309	15624	0	0	0	0	50	0	408464	1	1	
TP53I11	131819	609	16	9646	2828	0	0	0	0	50	0	331058	1	1	
TP53I13	760947	353	26	18753	6615	0	0	0	0	50	0	474607	1	1	
TP53I3	269570	385	38	16380	5019	0	0	0	0	50	0	395892	1	1	
TP53INP1	418153	395	48	12796	3143	0	0	0	0	50	0	416605	1	1	
TP53INP2	1047752	147	47	10675	3500	0	0	0	0	50	0	458521	1	1	
TP53RK	292810	636	33	12145	3941	0	0	0	0	50	0	307573	1	1	
TP53TG3	NaN	NaN	NaN	17619	6258	0	0	0	0	50	2	785806	1	1	

TP53TG3B	NaN	NaN	NaN	17619	6258	0	0	0	0	50	2	785806	1	1	
TP53TG5	1037999	382	35	14805	3948	0	0	0	0	50	0	342685	1	1	
TP63	140525	403	15	37513	9905	0	0	0	0	50	0	332241	1	1	
TP73	249590	288	20	33768	8316	0	0	0	0	50	0	376446	1	1	
TPBG	131014	486	-3	19775	6748	0	0	0	0	50	0	447797	1	1	
TPCN1	429315	206	36	45794	12565	0	0	0	0	50	0	412069	1	1	
TPCN2	729282	416	50	38199	11256	0	0	0	0	50	1	465325	1	1	
TPD52	211901	353	43	13139	3514	0	0	0	0	50	0	367430	1	1	
TPD52L1	124606	243	-26	10815	2604	0	0	0	0	50	0	374682	1	1	
TPD52L2	1140529	206	40	11802	3360	0	0	0	0	50	0	340004	1	1	
TPD52L3	355544	469	16	8169	2436	0	0	0	0	50	1	364581	1	1	
TPH1	645462	571	16	23030	5803	0	0	0	0	50	0	383418	1	1	
TPH2	223598	619	-18	25123	6650	0	0	0	0	50	0	440930	1	1	
TPI1	2822601	232	32	14532	4095	0	0	0	0	50	1	406280	1	1	
TPK1	123029	998	-17	12810	3234	0	0	0	0	50	1	439313	1	1	
TPM1	431470	321	19	23625	5817	0	0	0	0	50	0	388290	1	1	
TPM2	1202125	248	37	17815	4319	0	0	0	0	50	1	408730	1	1	
TPM3	2028928	185	35	21504	5271	0	0	0	0	50	0	333445	1	1	
TPM4	803963	298	26	17150	4291	0	0	0	0	50	0	460215	1	1	
TPMT	487819	397	-1	13062	3108	0	0	0	0	50	0	384293	1	1	
TPO	56524	599	-23	46200	13965	0	0	0	0	50	0	344204	1	1	
TPP1	424523	491	17	28049	8533	0	0	0	0	50	0	443625	1	1	
TPP2	195408	521	20	63959	17164	0	0	0	0	50	0	392511	1	1	
TPPP	683895	411	28	10864	3248	0	0	0	0	50	0	393645	1	1	
TPPP2	971417	320	12	8757	2310	0	0	0	0	50	0	353458	1	1	
TPPP3	1115833	153	42	8988	2415	0	0	0	0	50	0	471989	1	1	
TPR	271754	338	-19	121856	31318	0	0	0	0	38	0	326683	1	1	
TPRA1	682035	336	42	19852	4550	0	0	0	0	50	1	536319	1	1	
TPRG1	131839	421	1	14014	3794	0	0	0	0	50	1	374129	1	1	
TPRG1L	250027	288	16	13489	4088	0	0	0	0	50	1	372197	1	1	
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TPRN	1722012	202	36	31948	10997	0	0	0	0	50	1	445893	1	1	
TPRX1	881316	336	39	18872	7210	0	0	0	0	50	0	442512	1	1	
TPSAB1	1275017	294	21	13629	4137	0	0	0	0	50	0	431151	1	1	
TPSB2	1275017	294	21	13573	4214	0	0	0	0	50	0	431151	1	1	
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TPST1	551438	412	26	18564	5208	0	0	0	0	50	2	420798	1	1	
TPST2	162211	501	-14	18389	5845	0	0	0	0	50	0	425936	1	1	
TPT1	680643	296	78	9275	2086	0	0	0	0	50	0	422590	1	1	
TPTE	30271	1268	-81	29155	7385	0	0	0	0	50	1	261100	1	1	
TPTE2	288628	778	-16	27811	6818	0	0	0	0	50	0	311115	1	1	
TPX2	890615	237	23	38549	9919	0	0	0	0	50	1	288470	1	1	
TRA2A	432206	231	23	14147	4270	0	0	0	0	50	1	358953	1	1	
TRA2B	978158	213	30	14644	4235	0	0	0	0	50	1	381640	1	1	
TRABD	944000	242	49	18879	5628	0	0	0	0	50	1	466228	1	1	
TRADD	1093307	150	47	14917	5138	0	0	0	0	50	0	441210	1	1	
TRAF1	645995	270	39	20755	6020	0	0	0	0	50	1	474733	1	1	
TRAF2	1950713	176	39	25410	7056	0	0	0	0	50	0	450737	1	1	
TRAF3	719158	178	49	29302	7385	0	0	0	0	50	1	296730	1	1	

TRAF3IP1	295666	345	32	35840	9100	0	0	0	0	50	1	391461	1	1	
TRAF3IP2	320530	201	32	28245	8085	0	0	0	0	50	0	392511	1	1	
TRAF3IP3	220312	429	18	28595	7441	0	0	0	0	50	0	428169	1	1	
TRAF4	1695792	208	40	23443	6734	0	0	0	0	50	0	501767	1	1	
TRAF5	298152	424	2	28917	7056	0	0	0	0	50	0	429373	1	1	
TRAF6	98751	412	-8	26712	6741	0	0	0	0	50	0	406217	1	1	
TRAF7	2179404	224	39	34503	9450	0	0	0	0	50	0	383964	1	1	
TRAFD1	730140	239	40	29708	7945	0	0	0	0	50	1	505127	1	1	
TRAIP	1306720	191	39	24283	6503	0	0	0	0	50	0	428225	1	1	
TRAK1	313554	321	29	53634	15792	0	0	0	0	50	1	407666	1	1	
TRAK2	511735	479	26	45913	12908	0	0	0	0	50	0	431466	1	1	
TRAM1	240060	535	28	19369	5096	0	0	0	0	50	0	360458	1	1	
TRAM1L1	24934	NaN	-31	18207	5103	0	0	0	0	50	0	381234	1	1	
TRAM2	421188	378	33	19096	5117	0	0	0	0	50	1	374717	1	1	
TRANK1	391968	523	0	146601	39585	0	0	0	0	50	0	414428	1	1	
TRAP1	611617	242	43	35826	10143	0	0	0	0	50	1	467068	1	1	
TRAPPC1	1794630	337	33	7399	2093	0	0	0	0	50	1	386694	1	1	
TRAPPC10	860750	202	62	63805	17423	0	0	0	0	50	2	335440	1	1	
TRAPPC2	135235	NaN	48	9401	2128	0	0	0	0	50	0	392154	1	1	
TRAPPC2L	860087	252	37	7392	1869	0	0	0	0	50	0	481530	1	1	
TRAPPC3	800052	190	31	9275	2506	0	0	0	0	50	0	433993	1	1	
TRAPPC4	1457410	180	55	11004	3192	0	0	0	0	50	0	368228	1	1	
TRAPPC5	688482	384	31	8995	3038	0	0	0	0	50	1	445354	1	1	
TRAPPC6A	1230654	243	41	8806	2618	0	0	0	0	50	0	483896	1	1	
TRAPPC6B	314417	166	13	8442	1995	0	0	0	0	50	1	378350	1	1	
TRAPPC9	327071	689	16	62342	18109	0	0	0	0	50	1	485317	1	1	
TRAT1	107009	961	-15	9905	2296	0	0	0	0	50	1	444633	1	1	
TRDMT1	558326	451	5	20286	5292	0	0	0	0	50	1	388577	1	1	
TRDN	23697	1090	-16	40845	8547	0	0	0	0	50	1	422975	1	1	
TREH	1449531	161	45	29778	8211	0	0	0	0	50	0	457912	1	1	
TREM1	270628	607	34	11641	3458	0	0	0	0	50	0	295281	1	1	
TREM2	227466	611	41	11522	3409	0	0	0	0	50	0	303317	1	1	
TREML1	227466	611	41	15141	4935	0	0	0	0	50	0	303317	1	1	
TREML2	227466	611	41	15743	4879	0	0	0	0	50	0	303317	1	1	
TREML4	249047	607	38	10178	2905	0	0	0	0	50	0	331114	1	1	
TRERF1	746644	342	44	59430	17325	0	0	0	0	50	1	450247	1	1	
TREX1	1480689	223	45	17136	6216	0	0	0	0	50	0	444521	1	1	
TREX2	971101	NaN	7	11088	3906	0	0	0	0	50	1	270109	1	1	
TRH	329991	389	43	11858	3619	0	0	0	0	50	2	423843	1	1	
TRHDE	66026	995	-40	51842	14287	0	0	0	0	50	0	462847	1	1	
TRHR	151352	616	18	19684	5579	0	0	0	0	50	0	329385	1	1	
TRIAP1	1573849	216	44	4137	882	0	0	0	0	30	0	197176	1	1	
TRIB1	322911	193	40	17934	5733	0	0	0	0	50	0	389424	1	1	
TRIB2	49360	996	-2	16947	4893	0	0	0	0	50	0	352457	1	1	
TRIB3	879317	185	41	16863	5964	0	0	0	0	50	1	411943	1	1	
TRIL	67820	570	21	37289	13867	0	0	0	0	50	0	382102	1	1	
TRIM10	1932849	486	48	25445	7273	0	0	0	0	50	0	398748	1	1	
TRIM11	682437	316	7	22694	7273	0	0	0	0	50	0	512939	1	1	
TRIM13	337743	357	44	20587	5390	0	0	0	0	50	1	405111	1	1	
TRIM14	484638	272	48	21882	6615	0	0	0	0	50	0	400834	1	1	

TRIM15	1932849	486	48	23170	6692	0	0	0	0	50	0	398748	1	1	
TRIM16	471003	431	-19	28357	7658	0	0	0	0	50	0	388647	1	1	
TRIM16L	752804	391	-6	17724	4599	0	0	0	0	50	1	338835	1	1	
TRIM17	654512	278	7	26201	7630	0	0	0	0	50	0	562443	1	1	
TRIM2	222401	350	14	38766	10836	0	0	0	0	50	0	422905	1	1	
TRIM21	264090	862	-7	23968	6524	0	0	0	0	50	2	455427	1	1	
TRIM22	139577	922	2	25375	6650	0	0	0	0	50	1	336504	1	1	
TRIM23	421173	406	28	30422	8050	0	0	0	0	50	0	494977	1	1	
TRIM24	272427	552	10	53466	14259	0	0	0	0	50	0	411929	1	1	
TRIM25	320339	324	-38	31675	8792	0	0	0	0	50	0	482846	1	1	
TRIM26	1932849	486	48	26859	7665	0	0	0	0	50	0	398748	1	1	
TRIM27	161027	558	30	25921	7049	0	0	0	0	50	0	444276	1	1	
TRIM28	2673870	276	11	41517	12495	0	0	0	0	50	0	476175	1	1	
TRIM29	325456	214	31	29680	8099	0	0	0	0	50	0	469252	1	1	
TRIM3	424837	471	17	36617	11242	0	0	0	0	50	0	399931	1	1	
TRIM31	1820240	496	30	21889	5621	0	0	0	0	50	0	371455	1	1	
TRIM32	68232	682	-15	31577	9772	0	0	0	0	50	1	574196	1	1	
TRIM33	727314	264	13	57071	15631	0	0	0	0	50	1	470701	1	1	
TRIM34	NaN	NaN	NaN	25753	6650	0	0	0	0	50	2	786198	1	1	
TRIM35	353563	561	8	24458	7126	0	0	0	0	50	0	441693	1	1	
TRIM36	219228	619	-1	41419	10472	0	0	0	0	50	0	343861	1	1	
TRIM37	678139	530	13	50092	12761	0	0	0	0	50	0	396081	1	1	
TRIM38	392745	685	34	23576	6202	0	0	0	0	50	0	360878	1	1	
TRIM39	2043435	430	32	25781	7504	0	0	0	0	50	0	375277	1	1	
TRIM4	1559879	391	36	25130	6937	0	0	0	0	50	0	369908	1	1	
TRIM40	1932849	486	48	11655	3171	0	0	0	0	50	0	398748	1	1	
TRIM41	1034999	415	35	32704	9485	0	0	0	0	50	0	292803	1	1	
TRIM42	108667	896	10	36561	9387	0	0	0	0	50	0	446089	1	1	
TRIM43	394116	611	16	23065	5600	0	0	0	0	50	0	397089	1	1	
TRIM43B	NaN	NaN	NaN	23058	5607	0	0	0	0	50	2	785155	1	1	
TRIM45	331822	566	12	28777	8246	0	0	0	0	50	0	394156	1	1	
TRIM46	1801444	194	32	36904	11774	0	0	0	0	50	0	392000	1	1	
TRIM47	1727802	178	35	30646	10073	0	0	0	0	50	1	448889	1	1	
TRIM48	981	1138	-38	11781	2835	0	0	0	0	50	0	416619	1	1	
TRIM49L	NaN	NaN	NaN	46354	11732	0	0	0	0	50	2	791280	1	1	
TRIM5	134136	838	5	28798	7847	0	0	0	0	50	1	376068	1	1	
TRIM50	902769	422	52	23982	7266	0	0	0	0	50	1	466893	1	1	
TRIM52	1034999	415	35	15197	3661	0	0	0	0	50	0	292803	1	1	
TRIM54	1245306	182	52	20391	5607	0	0	0	0	50	1	445158	1	1	
TRIM55	277437	480	30	29386	7889	0	0	0	0	50	1	389774	1	1	
TRIM56	1066804	272	39	35420	12271	0	0	0	0	50	0	453978	1	1	
TRIM58	87551	993	-35	23898	7245	0	0	0	0	50	0	476616	1	1	
TRIM59	435184	513	16	20363	5173	0	0	0	0	50	0	426776	1	1	
TRIM6	NaN	NaN	NaN	25865	7294	0	0	0	0	50	2	786842	1	1	
TRIM6-TRIM34	128694	895	9	42399	11235	0	0	0	0	50	0	420882	1	1	
TRIM60	169984	637	5	23625	6195	0	0	0	0	50	0	390796	1	1	
TRIM61	170469	732	22	10710	2688	0	0	0	0	6	0	44170	1	1	
TRIM62	756335	385	27	23415	6909	0	0	0	0	50	0	524573	1	1	
TRIM63	748547	221	31	18487	4487	0	0	0	0	50	0	343378	1	1	
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TRIM64B	NaN	NaN	NaN	22883	5887	0	0	0	0	50	2	785435	1	1	
TRIM65	1727802	178	35	25060	8036	0	0	0	0	50	1	448889	1	1	
TRIM66	NaN	NaN	NaN	61180	17087	0	0	0	0	50	2	796635	1	1	
TRIM67	381758	603	8	38353	11837	0	0	0	0	50	0	407701	1	1	
TRIM68	212267	935	-3	24465	6657	0	0	0	0	50	0	419657	1	1	
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TRIM7	1034999	415	35	26817	8505	0	0	0	0	50	0	292803	1	1	
TRIM71	507311	469	24	41566	13475	0	0	0	0	50	0	331226	1	1	
TRIM72	1203752	478	17	23107	7511	0	0	0	0	50	0	317513	1	1	
TRIM73	NaN	NaN	NaN	12551	3598	0	0	0	0	50	2	783146	1	1	
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TRIM77	NaN	NaN	NaN	23030	5761	0	0	0	0	50	2	785309	1	1	
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TRIM9	373925	516	17	36309	10248	0	0	0	0	50	1	478086	1	1	
TRIML1	32696	595	-20	23625	6342	0	0	0	0	50	0	356216	1	1	
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TRIO	518529	557	29	157129	42791	0	0	0	0	29	1	243754	1	1	
TRIOBP	1114524	180	74	118720	38486	0	0	0	0	50	0	390936	1	1	
TRIP10	736129	272	27	28231	7301	0	0	0	0	50	0	482230	1	1	
TRIP11	336377	375	30	101577	24843	0	0	0	0	50	2	385602	1	1	
TRIP12	321955	722	21	101283	27636	0	0	0	0	50	0	561974	1	1	
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TRIP4	764707	198	40	29960	7756	0	0	0	0	50	0	408212	1	1	
TRIP6	1339207	433	48	23275	7448	0	0	0	0	50	0	470988	1	1	
TRIT1	996021	270	31	23919	6447	0	0	0	0	50	0	414827	1	1	
TRMT1	1948449	221	41	33019	9947	0	0	0	0	50	0	421708	1	1	
TRMT11	142337	297	11	24199	6041	0	0	0	0	50	0	381255	1	1	
TRMT112	1613996	257	65	6370	1862	0	0	0	0	19	0	126756	1	1	
TRMT12	489180	476	13	21686	6601	0	0	0	0	50	0	360332	1	1	
TRMT2A	545126	218	57	30905	9541	0	0	0	0	50	0	411922	1	1	
TRMT2B	418391	NaN	37	25592	7231	0	0	0	0	50	0	436394	1	1	
TRMT5	216411	578	-1	25620	6888	0	0	0	0	50	1	361802	1	1	
TRMT6	301031	346	13	25515	6699	0	0	0	0	50	1	438249	1	1	
TRMT61A	900930	225	38	13916	4606	0	0	0	0	50	1	432306	1	1	
TRMT61B	481869	238	32	23940	6720	0	0	0	0	50	0	361760	1	1	
TRMU	493681	260	39	21700	5726	0	0	0	0	50	0	392070	1	1	
TRNAU1AP	831495	183	26	15141	3717	0	0	0	0	50	0	363160	1	1	
TRNP1	NaN	NaN	NaN	10241	4165	0	0	0	0	50	2	783713	1	1	
TRNT1	59117	1039	-15	22358	5635	0	0	0	0	50	1	401100	1	1	
TRO	244459	NaN	-8	72086	22162	0	0	0	0	50	0	536872	1	1	
TROAP	2137968	175	37	39382	12971	0	0	0	0	50	0	456680	1	1	
TROVE2	288840	433	-13	28497	7371	0	0	0	0	50	0	354865	1	1	
TRPA1	19123	936	29	58373	14371	0	0	0	0	50	1	412412	1	1	
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TRPC3	324047	634	-3	46480	12614	0	0	0	0	50	0	376635	1	1	
TRPC4	72221	573	-19	49483	13286	0	0	0	0	50	0	419209	1	1	
TRPC4AP	1128095	236	45	40691	11137	0	0	0	0	50	0	531489	1	1	
TRPC5	113544	NaN	10	48944	13258	0	0	0	0	50	0	472794	1	1	
TRPC6	70247	847	-24	47404	12320	0	0	0	0	50	0	397978	1	1	
TRPC7	283872	588	23	43498	11795	0	0	0	0	50	0	493178	1	1	

TRPM1	277407	497	28	81459	21777	0	0	0	0	50	1	378903	1	1	
TRPM2	1023429	308	54	76055	21343	0	0	0	0	50	0	388717	1	1	
TRPM3	135903	707	-9	88473	23688	0	0	0	0	50	0	575848	1	1	
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TRPM6	95662	726	-16	104776	26789	0	0	0	0	50	0	473396	1	1	
TRPM7	325708	250	23	96390	24360	0	0	0	0	3	0	44905	1	1	
TRPM8	297512	527	14	56770	14945	0	0	0	0	50	1	379344	1	1	
TRPS1	55597	711	-10	64393	17612	0	0	0	0	50	2	634956	1	1	
TRPT1	1602391	278	57	12929	3913	0	0	0	0	50	0	410249	1	1	
TRPV1	472939	354	9	36918	10395	0	0	0	0	50	0	533323	1	1	
TRPV2	829707	254	8	38031	11256	0	0	0	0	50	0	431319	1	1	
TRPV3	441141	442	-2	40250	11011	0	0	0	0	50	0	375270	1	1	
TRPV4	825887	423	41	43386	12810	0	0	0	0	50	0	371413	1	1	
TRPV5	294033	676	2	36533	10675	0	0	0	0	50	0	342202	1	1	
TRPV6	284406	645	18	36484	10430	0	0	0	0	50	1	475125	1	1	
TRRAP	1040178	470	42	193368	53865	0	0	0	0	20	0	264845	1	1	
TRUB1	188808	343	9	17451	5229	0	0	0	0	50	0	413392	1	1	
TRUB2	1813435	201	46	16527	5019	0	0	0	0	50	1	409983	1	1	
TRYX3	207881	645	-7	12404	3304	0	0	0	0	50	0	539875	1	1	
TSC1	1919595	461	33	58912	16247	0	0	0	0	50	0	382368	1	1	
TSC2	1722112	181	44	90132	27258	0	0	0	0	50	0	410599	1	1	
TSC22D1	205312	350	38	53361	17136	0	0	0	0	50	0	384888	1	1	
TSC22D2	514603	176	19	36911	12544	0	0	0	0	50	0	379890	1	1	
TSC22D3	189575	NaN	51	11984	3451	0	0	0	0	50	0	428036	1	1	
TSC22D4	1479297	186	60	18550	6650	0	0	0	0	50	0	348467	1	1	
TSEN15	372562	761	8	9135	2415	0	0	0	0	50	0	488278	1	1	
TSEN2	352597	317	36	24675	6384	0	0	0	0	50	0	397152	1	1	
TSEN34	735613	439	-53	15022	4907	0	0	0	0	27	0	192724	1	1	
TSEN54	1907659	195	31	26320	7763	0	0	0	0	50	2	429247	1	1	
TSFM	1160849	344	39	18508	5558	0	0	0	0	50	1	396711	1	1	
TSG101	623656	341	20	19957	5432	0	0	0	0	50	0	486360	1	1	
TSGA10	504327	770	19	36512	8869	0	0	0	0	50	0	405727	1	1	
TSGA10IP	3854361	208	57	27447	8316	0	0	0	0	50	1	425138	1	1	
TSGA13	278944	433	9	14308	3584	0	0	0	0	50	0	394317	1	1	
TSGA14	419615	298	27	19250	5194	0	0	0	0	50	1	423885	1	1	
TSHB	605838	601	1	7077	1869	0	0	0	0	50	0	488663	1	1	
TSHR	214327	492	-10	40621	11165	0	0	0	0	50	0	407337	1	1	
TSHZ1	69176	993	4	50428	14735	0	0	0	0	19	0	152691	1	1	
TSHZ2	102643	626	-18	51345	14028	0	0	0	0	50	0	505813	1	1	
TSHZ3	8215	1022	-74	53179	15113	0	0	0	0	50	0	314545	1	1	
TSKS	1699718	192	47	29295	8988	0	0	0	0	50	0	386862	1	1	
TSKU	287129	214	42	16338	6048	0	0	0	0	50	0	357868	1	1	
TSLP	205349	738	6	8183	2149	0	0	0	0	50	0	416325	1	1	
TSN	227057	517	22	11592	3255	0	0	0	0	50	0	429863	1	1	
TSNARE1	163885	685	12	25774	7700	0	0	0	0	50	0	365029	1	1	
TSNAX	291493	439	14	15078	3675	0	0	0	0	50	1	412139	1	1	
TSNAXIP1	1039476	143	49	34132	8603	0	0	0	0	50	0	398153	1	1	
TSPAN1	908945	190	29	12460	3374	0	0	0	0	50	0	504329	1	1	
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TSPAN11	315469	555	-5	12880	3710	0	0	0	0	50	0	322392	1	1	
TSPAN12	106040	717	3	15785	4081	0	0	0	0	50	1	416143	1	1	
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TSPAN14	308181	588	-12	14028	3717	0	0	0	0	50	0	297318	1	1	
TSPAN15	660613	400	40	14966	4207	0	0	0	0	50	0	522571	1	1	
TSPAN16	1385739	197	31	12299	3703	0	0	0	0	50	0	437115	1	1	
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TSPAN19	22140	974	-27	13230	3129	0	0	0	0	50	0	462637	1	1	
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TSPAN3	319089	441	40	12908	3598	0	0	0	0	50	0	429583	1	1	
TSPAN31	1160849	344	39	10745	2968	0	0	0	0	50	1	396711	1	1	
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TSPAN5	217859	797	12	14000	3535	0	0	0	0	50	0	394261	1	1	
TSPAN6	182582	NaN	-2	12747	3360	0	0	0	0	50	2	367325	1	1	
TSPAN7	99411	NaN	23	12768	3612	0	0	0	0	50	0	344232	1	1	
TSPAN8	233516	489	-31	12348	3234	0	0	0	0	50	1	436891	1	1	
TSPAN9	523539	476	24	12418	3290	0	0	0	0	50	0	325815	1	1	
TSPO	624112	241	48	10717	1925	0	0	0	0	50	1	443156	1	1	
TSPO2	145501	611	37	8260	2765	0	0	0	0	50	0	397600	1	1	
TSPY1	NaN	NaN	NaN	15652	4277	0	0	0	0	50	2	783825	1	1	
TSPY2	0	0	0	15645	4284	0	0	0	0	50	1	416332	1	1	
TSPY3	NaN	NaN	NaN	47215	12782	0	0	0	0	50	2	792330	1	1	
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TSPYL1	260958	593	22	21245	6349	0	0	0	0	50	0	472129	1	1	
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TSPYL4	260690	640	16	20118	6069	0	0	0	0	50	1	551831	1	1	
TSPYL5	387608	610	-13	20041	6293	0	0	0	0	50	0	309624	1	1	
TSPYL6	619188	448	9	19971	5922	0	0	0	0	50	0	420301	1	1	
TSR1	780080	271	29	41132	10801	0	0	0	0	50	0	449869	1	1	
TSSC1	255965	619	-1	19936	5180	0	0	0	0	50	0	385833	1	1	
TSSC4	833749	589	47	15610	5264	0	0	0	0	50	2	459858	1	1	
TSSK1B	267968	620	13	18011	5173	0	0	0	0	50	0	561323	1	1	
TSSK2	487560	277	18	17549	5068	0	0	0	0	50	0	393302	1	1	
TSSK3	1529661	216	41	13314	3759	0	0	0	0	50	0	461671	1	1	
TSSK4	974559	220	41	16926	4725	0	0	0	0	50	2	483035	1	1	
TSSK6	868278	284	7	12950	4312	0	0	0	0	50	0	376670	1	1	
TST	699535	379	44	14385	4557	0	0	0	0	50	1	522970	1	1	
TSTA3	2183482	235	37	16688	4438	0	0	0	0	50	0	386120	1	1	
TSTD1	NaN	NaN	NaN	6384	1890	0	0	0	0	50	2	781438	1	1	
TSTD2	506644	420	36	26628	6699	0	0	0	0	50	0	430297	1	1	
TTBK1	1293543	363	51	63483	20979	0	0	0	0	50	1	480879	1	1	
TTBK2	611976	453	31	61866	17745	0	0	0	0	1	0	44352	1	1	
TTC1	199079	458	31	15533	3514	0	0	0	0	50	0	507178	1	1	
TTC12	107070	600	13	36687	9597	0	0	0	0	50	0	443877	1	1	
TTC13	407409	595	14	44338	11795	0	0	0	0	50	0	433412	1	1	
TTC14	182757	1031	2	40026	10059	0	0	0	0	50	2	384573	1	1	
TTC15	255812	502	9	36526	10766	0	0	0	0	50	0	423703	1	1	

TTC16	1098647	172	32	43925	12271	0	0	0	0	50	0	354669	1	1	
TTC17	355422	919	-7	58534	15386	0	0	0	0	50	0	382025	1	1	
TTC18	838780	249	45	57722	15232	0	0	0	0	50	0	404481	1	1	
TTC19	954548	370	-32	25361	7063	0	0	0	0	50	1	448784	1	1	
TTC21A	213514	500	30	67900	17738	0	0	0	0	50	0	414883	1	1	
TTC21B	100856	599	-2	68222	17101	0	0	0	0	50	0	439747	1	1	
TTC22	578299	343	23	29190	9345	0	0	0	0	50	0	423843	1	1	
TTC23	273585	361	-7	22834	6230	0	0	0	0	50	0	412370	1	1	
TTC23L	245995	558	-4	18795	4851	0	0	0	0	50	1	357308	1	1	
TTC24	2049505	180	37	28847	8722	0	0	0	0	50	0	375088	1	1	
TTC25	1969457	191	28	31255	7994	0	0	0	0	50	2	408457	1	1	
TTC26	562181	345	38	29568	6825	0	0	0	0	50	0	407743	1	1	
TTC27	358024	636	17	43463	11305	0	0	0	0	50	1	443233	1	1	
TTC28	NaN	NaN	NaN	121898	36316	0	0	0	0	50	2	815864	1	1	
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TTC3	351773	343	47	105280	26138	0	0	0	0	50	0	342272	1	1	
TTC30A	380902	434	27	32725	9233	0	0	0	0	50	0	449673	1	1	
TTC30B	380902	434	27	32816	9184	0	0	0	0	50	0	449673	1	1	
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TTC32	479338	390	9	7840	1904	0	0	0	0	50	1	520282	1	1	
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TTC35	188664	962	21	16051	3605	0	0	0	0	50	0	401205	1	1	
TTC36	1348757	167	48	9163	2975	0	0	0	0	50	0	445123	1	1	
TTC37	314679	431	26	81074	20860	0	0	0	0	50	0	447965	1	1	
TTC38	519654	205	31	24087	6657	0	0	0	0	50	0	378287	1	1	
TTC39A	526044	281	10	31213	7889	0	0	0	0	50	1	521801	1	1	
TTC39B	237773	710	-17	35756	9352	0	0	0	0	50	0	397124	1	1	
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TTC7B	367726	570	20	42315	12453	0	0	0	0	50	0	525847	1	1	
TTC8	162049	703	-6	26845	6881	0	0	0	0	50	0	437227	1	1	
TTC9	244305	523	41	10885	3332	0	0	0	0	50	0	378700	1	1	
TTC9B	1005838	400	30	11473	3878	0	0	0	0	50	0	354305	1	1	
TTC9C	2415432	248	47	8561	2443	0	0	0	0	50	0	406112	1	1	
TTF1	1431869	429	34	46151	11767	0	0	0	0	50	0	361116	1	1	
TTF2	331822	566	12	58877	16282	0	0	0	0	50	0	394156	1	1	
TTK	150632	841	-2	45143	10759	0	0	0	0	50	0	371980	1	1	
TTL	536287	433	32	19208	5110	0	0	0	0	50	0	411642	1	1	
TTLL1	627533	202	46	21805	5663	0	0	0	0	50	1	423983	1	1	
TTLL10	2356409	196	27	34104	10143	0	0	0	0	50	0	525952	1	1	
TTLL11	285948	541	24	40383	12348	0	0	0	0	50	0	477176	1	1	
TTLL12	624112	241	48	32683	9086	0	0	0	0	50	1	443156	1	1	
TTLL13	956589	139	45	23492	6244	0	0	0	0	50	0	499772	1	1	
TTLL2	254009	704	1	29407	8162	0	0	0	0	50	0	492772	1	1	
TTLL3	953772	264	43	38535	11172	0	0	0	0	50	0	534303	1	1	
TTLL4	1055730	269	42	60137	16975	0	0	0	0	50	0	463799	1	1	
TTLL5	415501	540	40	65569	17801	0	0	0	0	50	0	356790	1	1	
TTLL6	727820	415	24	46914	12243	0	0	0	0	50	0	582337	1	1	
TTLL7	157542	957	-14	45962	11578	0	0	0	0	50	1	372148	1	1	

TTLL8	895187	271	36	41622	12054	0	0	0	0	50	1	534877	1	1	
TTLL9	1011028	241	37	23205	5733	0	0	0	0	50	0	354515	1	1	
TTN	172693	713	23	1823 178	517209	0	0	0	0	0	0	517209	1	1	
TTPA	137738	789	-12	13951	4004	0	0	0	0	50	0	446397	1	1	
TTPAL	781823	276	46	16863	5082	0	0	0	0	50	1	430115	1	1	
TTR	294098	541	20	7301	2275	0	0	0	0	50	0	436597	1	1	
TTYH1	807048	535	-7	23667	7476	0	0	0	0	50	1	360997	1	1	
TTYH2	321651	535	3	26915	7924	0	0	0	0	50	0	480004	1	1	
TTYH3	769920	259	35	26138	7966	0	0	0	0	50	0	433153	1	1	
TUB	189808	555	12	29134	8120	0	0	0	0	50	0	424410	1	1	
TUBA1B	2141275	214	56	22281	6447	0	0	0	0	50	0	460376	1	1	
TUBA1C	2154742	171	49	22239	6426	0	0	0	0	50	0	393323	1	1	
TUBA3C	193250	922	-15	22267	6566	0	0	0	0	50	0	361683	1	1	
TUBA3E	349797	593	22	22295	6538	0	0	0	0	50	0	434924	1	1	
TUBA4A	694442	193	44	22204	6461	0	0	0	0	50	3	450387	1	1	
TUBA8	519135	179	19	22309	6419	0	0	0	0	50	0	370524	1	1	
TUBAL3	711034	519	-1	22029	6426	0	0	0	0	50	0	472374	1	1	
TUBB	2115149	171	41	22127	6160	0	0	0	0	50	0	454741	1	1	
TUBB1	978901	125	28	22512	6216	0	0	0	0	50	0	389907	1	1	
TUBB2A	444075	435	41	22239	6153	0	0	0	0	50	1	506128	1	1	
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TUBB2C	1724821	399	43	22218	6216	0	0	0	0	50	0	327124	1	1	
TUBB3	1131847	221	40	22484	6223	0	0	0	0	50	0	319837	1	1	
TUBB4	851008	212	27	22029	6258	0	0	0	0	50	0	412769	1	1	
TUBB4Q	59973	1059	-12	21504	6090	0	0	0	0	50	2	500129	1	1	
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TUBB8	9202	NaN	NaN	22127	6160	0	0	0	0	50	0	438459	1	1	
TUBD1	957047	216	26	23527	5747	0	0	0	0	50	0	399000	1	1	
TUBE1	152199	296	5	24640	6314	0	0	0	0	50	1	339850	1	1	
TUBG1	1884163	177	38	22939	6377	0	0	0	0	50	0	468503	1	1	
TUBG2	1740597	177	36	22925	6391	0	0	1	0	50	1	431606	1	1	
TUBGCP2	362932	393	1	45493	12824	0	0	0	0	50	0	381108	1	1	
TUBGCP3	273358	399	11	46466	12502	0	0	0	0	50	0	482937	1	1	
TUBGCP4	823006	415	50	34048	9401	0	0	0	0	50	2	483490	1	1	
TUBGCP5	347364	564	-32	53963	13405	0	0	0	0	50	1	388290	1	1	
TUFT1	1379189	176	30	20489	5194	0	0	0	0	50	0	466312	1	1	
TULP1	683460	280	36	27531	7896	0	0	0	0	50	0	473249	1	1	
TULP2	1846623	211	38	26481	7371	0	0	0	0	50	0	431879	1	1	
TULP3	494496	336	35	25928	7042	0	0	0	0	50	0	416703	1	1	
TULP4	669285	403	41	75285	23079	0	0	0	0	50	1	490189	1	1	
TUSC1	NaN	NaN	NaN	9870	3549	0	0	0	0	50	2	783097	1	1	
TUSC2	843769	206	51	5425	1736	0	0	0	0	50	0	402556	1	1	
TUSC3	50254	1013	-41	18277	4928	0	0	0	0	50	0	470162	1	1	
TUSC5	1447271	228	21	8596	2786	0	0	0	0	50	0	395472	1	1	
TUT1	2695768	217	42	43848	14427	0	0	0	0	49	1	465934	1	1	
TWF1	132402	425	-5	19726	5243	0	0	0	0	50	0	428904	1	1	
TWF2	1114737	181	52	17766	4956	0	0	0	0	50	0	445732	1	1	
TWIST1	103347	812	-15	9793	3080	0	0	0	0	50	0	460103	1	1	
TWISTNB	168714	941	-11	17073	4578	0	0	0	0	50	0	397068	1	1	

TWSG1	499362	387	43	11634	2814	0	0	0	0	50	1	401961	1	1	
TXK	219787	358	39	27762	6720	0	0	0	0	50	0	366849	1	1	
TXLNA	1460758	218	29	27818	7483	0	0	0	0	50	0	426384	1	1	
TXLNB	192994	504	14	34748	9163	0	0	0	0	50	0	384475	1	1	
TXLNG	289514	NaN	39	27265	6860	0	0	0	0	50	0	428232	1	1	
TXN	207910	302	8	5747	1309	0	0	0	0	50	0	398685	1	1	
TXN2	1199592	195	21	8253	2478	0	0	0	0	50	0	415121	1	1	
TXNDC11	593829	214	40	47565	13860	0	0	0	0	50	0	455063	1	1	
TXNDC12	665927	315	21	9163	2240	0	0	0	0	50	0	518182	1	1	
TXNDC15	727517	696	49	17878	5201	0	0	0	0	50	1	429037	1	1	
TXNDC16	396835	518	14	42602	11032	0	0	0	0	50	0	417732	1	1	
TXNDC17	663953	424	9	6461	1603	0	0	0	0	50	0	359919	1	1	
TXNDC2	431025	168	34	27503	7609	0	0	0	0	50	0	389459	1	1	
TXNDC3	103411	646	13	31178	7273	0	0	0	0	50	0	355047	1	1	
TXNDC5	748889	288	10	21749	6328	0	0	0	0	50	0	540855	1	1	
TXNDC6	199119	358	18	13895	3493	0	0	0	0	50	0	357140	1	1	
TXNDC8	210246	302	7	6412	1400	0	0	0	0	50	0	379764	1	1	
TXNDC9	386109	630	24	11746	2891	0	0	0	0	50	0	458129	1	1	
TXNIP	739922	172	39	19831	5453	0	0	0	0	50	1	391888	1	1	
TXNL1	82448	867	15	15141	3717	0	0	0	0	50	0	362712	1	1	
TXNL4A	399915	506	36	7427	1750	0	0	0	0	50	0	359723	1	1	
TXNL4B	414449	479	9	7756	1946	0	0	0	0	50	0	395948	1	1	
TXNRD1	1237281	168	29	33334	9254	0	0	0	0	50	0	422303	1	1	
TXNRD2	648548	197	18	26600	8029	0	0	0	0	50	0	413805	1	1	
TXNRD3	NaN	NaN	NaN	32606	9226	0	0	0	0	50	2	788774	1	1	
TXNRD3IT1	283619	508	43	6650	1960	0	0	0	0	50	0	362411	1	1	
TYK2	1802015	191	21	59262	17514	0	0	0	0	50	2	507017	1	1	
TYMS	416109	486	19	17808	4662	0	0	0	0	50	0	431746	1	1	
TYR	28803	973	-28	26754	7014	0	0	0	0	50	0	460901	1	1	
TYRO3	744461	166	44	44275	13370	0	0	0	0	50	3	406455	1	1	
TYROBP	1060028	321	47	5754	1806	0	0	0	0	50	0	379449	1	1	
TYRP1	77286	530	-31	26999	7483	0	0	0	0	50	0	373415	1	1	
TYSND1	471839	217	32	26607	9366	0	0	0	0	50	0	383789	1	1	
TYW1	423966	491	32	38157	9282	0	0	0	0	50	0	327362	1	1	
TYW1B	NaN	NaN	NaN	36778	9023	0	0	0	0	50	2	788571	1	1	
TYW3	104029	1055	-14	13622	3262	0	0	0	0	50	0	525749	1	1	
U2AF1	687433	279	59	13713	3591	0	0	0	0	50	0	373660	1	1	
U2AF1L4	1151198	321	30	12264	2247	0	0	0	0	50	0	375571	1	1	
U2AF2	1077402	254	-10	24101	6811	0	0	0	0	50	0	335076	1	1	
UACA	247817	364	19	74025	17619	0	0	0	0	50	0	452984	1	1	
UAP1	320314	193	10	25935	6699	0	0	0	0	50	0	387632	1	1	
UAP1L1	1951939	202	40	24829	7889	0	0	0	0	50	0	420637	1	1	
UBA1	819569	NaN	38	53424	15351	0	0	0	0	50	0	325941	1	1	
UBA2	707545	355	5	33222	8547	0	0	0	0	50	0	460418	1	1	
UBA3	264082	443	20	24388	6314	0	0	0	0	50	0	453656	1	1	
UBA5	210898	768	21	21021	5418	0	0	0	0	50	0	443513	1	1	
UBA52	1394856	259	48	6692	1771	0	0	0	0	50	1	513947	1	1	
UBA6	154681	604	33	55153	13916	0	0	0	0	50	0	427245	1	1	
UBA7	1306720	191	39	50456	15337	0	0	0	0	50	0	428225	1	1	
UBAC1	753354	352	37	20678	5656	0	0	0	0	50	0	435162	1	1	

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UBAC2	333101	390	55	20860	4865	0	0	0	0	50	0	400519	1	1	
UBAP1	726384	125	47	29176	7952	0	0	0	0	50	2	340564	1	1	
UBAP2	777874	170	29	56371	16541	0	0	0	0	50	0	450086	1	1	
UBAP2L	1841112	185	32	55433	16387	0	0	0	0	50	1	462882	1	1	
UBASH3A	366755	400	71	33614	9310	0	0	0	0	50	1	384286	1	1	
UBASH3B	660955	261	6	33019	9023	0	0	0	0	50	0	570157	1	1	
UBB	881521	169	4	11186	3388	0	0	0	0	50	1	326942	1	1	
UBC	1090586	206	33	33397	9947	0	0	0	0	50	1	351302	1	1	
UBD	403531	798	18	8211	2331	0	0	0	0	50	1	340326	1	1	
UBE2A	663615	NaN	48	8036	2023	0	0	0	0	50	1	364861	1	1	
UBE2B	929843	170	46	8085	1974	0	0	0	0	50	0	457289	1	1	
UBE2C	742720	180	48	11746	3227	0	0	0	0	50	2	302897	1	1	
UBE2CBP	164732	607	-6	19999	5327	0	0	0	0	50	0	516999	1	1	
UBE2D1	153069	326	-12	7910	1918	0	0	0	0	50	0	468300	1	1	
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UBE2D3	380953	471	41	9408	2268	0	0	0	0	50	0	451710	1	1	
UBE2D4	872910	239	44	7896	1974	0	0	0	0	50	0	444927	1	1	
UBE2E1	400750	319	10	10038	2604	0	0	0	0	50	0	431095	1	1	
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UBE2E3	114904	888	11	10689	2835	0	0	0	0	50	0	410221	1	1	
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UBE2G1	1040590	292	26	8918	2275	0	0	0	0	50	0	444829	1	1	
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UBE2H	456399	226	34	9779	2317	0	0	0	0	50	0	404782	1	1	
UBE2I	1150864	215	36	8414	2107	0	0	0	0	50	1	375942	1	1	
UBE2J1	408992	574	51	16240	4445	0	0	0	0	50	0	234080	1	1	
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UBE2K	621887	145	45	10402	2765	0	0	0	0	50	0	400617	1	1	
UBE2L3	521773	194	37	8092	1967	0	0	0	0	50	0	382774	1	1	
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UBE2NL	5046	NaN	-19	7588	2156	0	0	0	0	50	0	417886	1	1	
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UBE2Q1	1896659	403	41	21798	5901	0	0	0	0	50	0	349181	1	1	
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UBE2QL1	NaN	NaN	NaN	8015	2275	0	0	0	0	50	2	781823	1	1	
UBE2R2	783515	187	33	12313	3080	0	0	0	0	50	0	391419	1	1	
UBE2S	1048909	399	24	10752	3549	0	0	0	0	50	0	410347	1	1	
UBE2T	813304	325	32	10318	2660	0	0	0	0	50	0	420497	1	1	
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UBE2V1	571130	136	58	9394	2261	0	0	0	0	50	0	350847	1	1	
UBE2V2	890573	464	31	7560	1932	0	0	0	0	50	0	433384	1	1	
UBE2W	257905	407	34	8750	2065	0	0	0	0	50	0	380233	1	1	
UBE2Z	775532	169	29	17731	5180	0	0	0	0	50	0	446432	1	1	
UBE3A	241743	1263	-34	45199	11417	0	0	0	0	50	0	527723	1	1	
UBE3B	430972	428	37	54404	15127	0	0	0	0	50	1	433825	1	1	
UBE3C	389401	334	9	55223	14917	0	0	0	0	50	0	474915	1	1	
UBE4A	963668	192	48	55069	14189	0	0	0	0	50	1	410221	1	1	
UBE4B	749198	240	25	66045	18312	0	0	0	0	50	0	458955	1	1	
UBFD1	528849	628	48	15687	4347	0	0	0	0	50	1	335244	1	1	

UBIAD1	582356	524	31	16065	5376	0	0	0	0	50	2	487998	1	1	
UBL3	322680	335	21	6230	1540	0	0	0	0	50	0	431508	1	1	
UBL4A	2163759	NaN	42	7819	2429	0	0	0	0	50	0	434609	1	1	
UBL4B	571576	400	29	8533	2534	0	0	0	0	50	1	386302	1	1	
UBL5	1069900	579	-26	4046	952	0	0	0	0	50	0	403130	1	1	
UBL7	640438	204	54	19117	5726	0	0	0	0	50	1	450541	1	1	
UBLCP1	126518	284	33	16884	4053	0	0	0	0	50	1	378651	1	1	
UBN1	704578	195	26	56224	16709	0	0	0	0	50	0	435113	1	1	
UBN2	519766	345	29	66157	20195	0	0	0	0	50	0	389543	1	1	
UBOX5	872596	192	54	26397	8085	0	0	0	0	50	1	380541	1	1	
UBP1	483698	352	9	28238	7189	0	0	0	0	50	0	537971	1	1	
UBQLN1	481151	422	-3	29876	8134	0	0	0	0	50	0	406140	1	1	
UBQLN2	126215	NaN	7	30093	9282	0	0	0	0	50	0	488572	1	1	
UBQLN3	99343	946	-2	31388	10024	0	0	0	0	50	0	425761	1	1	
UBQLN4	2005405	213	39	29820	8988	0	0	0	0	50	0	428029	1	1	
UBQLNL	99343	946	-2	23387	6601	0	0	0	0	50	0	425761	1	1	
UBR1	634287	366	32	91686	22470	0	0	0	0	14	0	189952	1	1	
UBR2	1007026	194	42	94297	23219	0	0	0	0	50	2	466431	1	1	
UBR3	340876	631	32	97237	24962	0	0	0	0	50	0	426825	1	1	
UBR4	787493	414	33	261856	73598	0	0	0	0	12	0	187936	1	1	
UBR5	504282	414	39	142205	39109	0	0	0	0	50	0	519148	1	1	
UBR7	325787	222	35	22708	4970	0	0	0	0	50	0	351904	1	1	
UBTD1	560569	169	41	11200	3332	0	0	0	0	50	1	400148	1	1	
UBTD2	391482	182	42	11816	3157	0	0	0	0	50	1	345121	1	1	
UBTF	930750	175	41	40390	9485	0	0	0	0	50	1	428519	1	1	
UBTFL1	NaN	NaN	NaN	20118	4683	0	0	0	0	50	2	784231	1	1	
UBXN1	2425755	248	51	15715	4592	0	0	0	0	50	0	393407	1	1	
UBXN10	649343	508	30	13587	4200	0	0	0	0	50	1	474425	1	1	
UBXN11	1021101	217	22	26383	7658	0	0	0	0	50	0	364840	1	1	
UBXN2A	240935	226	33	13594	3290	0	0	0	0	50	0	356111	1	1	
UBXN2B	197666	638	26	16849	4655	0	0	0	0	50	0	376719	1	1	
UBXN4	511712	403	25	26208	6867	0	0	0	0	50	2	457933	1	1	
UBXN6	2078211	278	37	22260	6468	0	0	0	0	50	0	464359	1	1	
UBXN7	1165640	231	37	25249	6503	0	0	0	0	50	0	327019	1	1	
UBXN8	365415	346	28	13867	3815	0	0	0	0	50	0	429107	1	1	
UCHL1	224086	190	39	11725	3101	0	0	0	0	50	0	338660	1	1	
UCHL3	197113	362	37	12250	3017	0	0	0	0	50	0	404173	1	1	
UCHL5	288979	433	-18	17661	3969	0	0	0	0	50	0	378070	1	1	
UCK1	609539	272	36	14567	3493	0	0	0	0	50	0	430227	1	1	
UCK2	321876	403	1	13440	3570	0	0	0	0	50	0	430283	1	1	
UCKL1	1157316	206	36	27734	8071	0	0	0	0	50	1	365995	1	1	
UCMA	246179	354	35	7406	1729	0	0	0	0	50	1	371546	1	1	
UCN	1245306	182	52	5782	2219	0	0	0	0	50	1	445158	1	1	
UCN2	1433482	183	41	5285	1918	0	0	0	0	50	0	592431	1	1	
UCN3	711034	519	-1	7854	2436	0	0	0	0	50	0	472374	1	1	
UCP1	125708	752	7	15225	4599	0	0	0	0	50	0	471177	1	1	
UCP2	533576	196	41	15239	4795	0	0	0	0	50	1	316183	1	1	
UCP3	523442	225	51	15589	4676	0	0	0	0	50	0	421750	1	1	
UEVLD	630607	341	24	24318	6384	0	0	0	0	50	1	458934	1	1	
UFC1	728669	234	37	8743	2261	0	0	0	0	50	0	442974	1	1	

UFD1L	650407	300	16	16275	4053	0	0	0	0	50	1	400344	1	1	
UFM1	126181	926	-9	4571	1267	0	0	0	0	50	0	466144	1	1	
UFSP1	1339207	433	48	6832	2177	0	0	0	0	50	0	470988	1	1	
UFSP2	173409	422	20	24157	6377	0	0	0	0	50	0	377538	1	1	
UGCG	598588	172	14	20314	5243	0	0	0	0	50	0	377097	1	1	
UGDH	658220	165	48	25277	6832	0	0	0	0	50	1	299712	1	1	
UGGT1	449913	419	24	80787	20601	0	0	0	0	50	0	425390	1	1	
UGGT2	175188	834	34	79233	19530	0	0	0	0	50	0	446201	1	1	
UGP2	312741	380	10	25781	7042	0	0	0	0	50	0	460747	1	1	
UGT1A1	NaN	NaN	NaN	26355	7665	0	0	0	0	50	2	787213	1	1	
UGT1A10	NaN	NaN	NaN	26488	7343	0	0	0	0	50	2	786891	1	1	
UGT1A3	NaN	NaN	NaN	26453	7588	0	0	0	0	50	2	787136	1	1	
UGT1A4	NaN	NaN	NaN	26362	7721	0	0	0	0	50	2	787269	1	1	
UGT1A5	NaN	NaN	NaN	26327	7714	0	0	0	0	50	2	787262	1	1	
UGT1A6	NaN	NaN	NaN	26544	7371	0	0	0	0	50	2	786919	1	1	
UGT1A7	NaN	NaN	NaN	26362	7427	0	0	0	0	50	2	786975	1	1	
UGT1A8	320853	284	24	26404	7427	0	0	0	0	50	0	526414	1	1	
UGT1A9	320853	284	24	26460	7371	0	0	0	0	50	0	526414	1	1	
UGT2A1	19584	1065	-8	26635	7091	0	0	0	0	50	1	455175	1	1	
UGT2A2	19584	1065	-8	26614	7133	0	0	0	0	50	1	455175	1	1	
UGT2A3	NaN	NaN	NaN	26635	7091	0	0	0	0	50	2	786639	1	1	
UGT2B10	99797	764	14	53109	13923	0	0	0	0	50	0	407799	1	1	
UGT2B15	106841	NaN	-2	54068	13804	0	0	0	0	50	0	530495	1	1	
UGT2B17	107080	748	-5	27097	6860	0	0	0	0	50	0	517370	1	1	
UGT2B28	21304	997	-3	26894	6958	0	0	0	0	50	0	370307	1	1	
UGT2B4	18715	1044	-22	26705	7084	0	0	0	0	50	1	506359	1	1	
UGT2B7	21319	782	12	26915	6937	0	0	0	0	50	0	417725	1	1	
UGT3A1	155890	614	-4	27468	7728	0	0	0	0	50	0	447965	1	1	
UGT3A2	173490	614	-9	26355	7161	0	0	0	0	50	0	501025	1	1	
UGT8	32108	966	2	26978	7588	0	0	0	0	50	0	456764	1	1	
UHMK1	334603	248	3	22029	6069	0	0	0	0	50	1	446026	1	1	
UHRF1	789691	248	32	40705	11375	0	0	0	0	50	0	399469	1	1	
UHRF1BP1	1047481	242	24	72072	20391	0	0	0	0	50	0	456162	1	1	
UHRF1BP1L	184820	559	7	75068	19369	0	0	0	0	50	1	432768	1	1	
UHRF2	251045	431	23	40817	11032	0	0	0	0	50	0	369320	1	1	
UIMC1	1162907	218	47	36981	9555	0	0	0	0	50	0	471303	1	1	
ULBP1	423805	245	34	12530	3283	0	0	0	0	50	0	393953	1	1	
ULBP2	423805	245	34	12439	3500	0	0	0	0	50	0	393953	1	1	
ULBP3	402308	382	51	12390	3276	0	0	0	0	50	0	439089	1	1	
ULK1	374096	180	23	52220	16261	0	0	0	0	50	0	526127	1	1	
ULK2	553377	220	-11	52843	14756	0	0	0	0	50	1	430920	1	1	
ULK3	764533	195	46	24101	6958	0	0	0	0	50	2	423304	1	1	
ULK4	310078	648	15	65555	17857	0	0	0	0	50	1	593775	1	1	
UMOD	243266	848	-5	32144	9121	0	0	0	0	50	2	390243	1	1	
UMODL1	220293	430	68	71498	21427	0	0	1	0	50	1	397117	1	1	
UMPS	307759	254	36	23646	7077	0	0	0	0	50	0	326046	1	1	
UNC119	1517567	225	24	12950	3682	0	0	0	0	50	0	346136	1	1	
UNC119B	1741363	349	42	12656	3556	0	0	0	0	50	0	370230	1	1	
UNC13A	1029781	246	37	88109	22687	0	0	0	0	50	0	333032	1	1	
UNC13B	1081701	432	37	81949	21539	0	0	0	0	50	1	422870	1	1	

UNC13C	17740	1075	-30	113267	28798	0	0	0	0	50	0	499821	1	1	
UNC13D	1727802	178	35	54971	16366	0	0	0	0	34	1	312809	1	1	
UNC45A	833957	291	42	46998	14133	0	0	0	0	50	0	426916	1	1	
UNC45B	634684	498	20	46669	13643	0	0	0	0	50	0	389480	1	1	
UNC50	260302	696	39	13174	3626	0	0	0	0	50	0	419972	1	1	
UNC5A	1056724	222	44	41678	12607	0	0	0	0	50	1	426958	1	1	
UNC5B	608276	559	34	46865	14077	0	0	0	0	50	1	495012	1	1	
UNC5C	25813	910	-12	46613	13363	0	0	0	0	50	2	581280	1	1	
UNC5CL	134733	565	32	25676	7693	0	0	0	0	50	1	450632	1	1	
UNC5D	34554	1152	-45	48286	13160	0	0	0	0	50	0	419517	1	1	
UNC80	NaN	NaN	NaN	164570	46081	0	0	0	0	50	2	825629	1	1	
UNC93A	254009	704	1	22561	6881	0	0	0	0	50	0	492772	1	1	
UNC93B1	1357582	356	31	29505	9030	0	0	0	0	50	1	406392	1	1	
UNCX	748119	384	40	24794	8869	0	0	0	0	50	0	515242	1	1	
UNG	595266	487	20	17500	4991	0	0	0	0	50	0	387170	1	1	
UNK	1806586	178	31	44310	12915	0	0	0	0	50	0	395283	1	1	
UNKL	1211641	215	40	25207	7700	0	0	0	0	50	0	419181	1	1	
UPB1	546252	171	51	19656	5355	0	0	0	0	50	1	362726	1	1	
UPF0639	NaN	NaN	NaN	26320	6671	0	0	0	0	50	2	786219	1	1	
UPF1	1302747	189	27	56378	16051	0	0	0	0	50	0	456106	1	1	
UPF2	353958	125	28	66031	15932	0	0	0	0	50	1	444465	1	1	
UPF3A	612511	283	46	24374	6475	0	0	0	0	50	0	426573	1	1	
UPF3B	762240	NaN	61	25578	5796	0	0	0	0	50	1	389368	1	1	
UPK1A	1162794	390	27	13069	3752	0	0	0	0	50	0	405559	1	1	
UPK1B	222933	588	0	13615	3416	0	0	0	0	50	0	402759	1	1	
UPK2	1457410	180	55	8897	3136	0	0	0	0	50	0	368228	1	1	
UPK3A	439942	277	32	14119	4487	0	0	0	0	50	0	414862	1	1	
UPK3B	882992	220	56	18277	3962	0	0	0	0	50	1	357014	1	1	
UPK3BL	NaN	NaN	NaN	12943	4151	0	0	0	0	50	2	783699	1	1	
UPP1	108417	409	26	15750	4431	0	0	0	0	50	0	416990	1	1	
UPP2	115042	838	-4	19145	5194	0	0	0	0	50	1	376418	1	1	
UPRT	145779	NaN	-5	15666	4368	0	0	0	0	50	0	372211	1	1	
UQCC	1308738	170	50	15631	4025	0	0	0	0	50	1	393953	1	1	
UQCR10	848649	195	37	3955	1064	0	0	0	0	50	1	376551	1	1	
UQCR11	2259505	213	33	2919	882	0	0	0	0	6	0	37170	1	1	
UQCRB	217849	671	12	6006	1302	0	0	0	0	44	0	352751	1	1	
UQCRC1	1386275	212	37	24283	7070	0	0	0	0	50	0	533974	1	1	
UQCRC2	646330	424	43	23135	6559	0	0	0	0	50	1	548548	1	1	
UQCRFS1	158775	892	-73	13160	4249	0	0	0	0	50	0	414204	1	1	
UQCRH	690472	205	31	4956	1134	0	0	0	0	50	0	346409	1	1	
UQCRHL	821457	174	37	4690	1148	0	0	0	0	50	0	319046	1	1	
UQCRQ	686574	200	66	4263	1134	0	0	0	0	50	1	315371	1	1	
URB1	NaN	NaN	NaN	113085	33285	0	0	0	0	50	2	812833	1	1	
URB2	299238	340	15	74375	22456	0	0	0	0	50	3	453691	1	1	
URGCP	872910	239	44	45710	13468	0	0	0	0	50	0	444927	1	1	
URM1	1928973	188	64	8512	2534	0	0	0	0	50	0	467257	1	1	
UROC1	289633	508	52	37450	10703	0	0	0	0	50	0	458598	1	1	
UROD	939872	310	20	18417	5523	0	0	0	0	50	0	388927	1	1	
UROS	211688	280	-5	13811	3703	0	0	0	0	50	0	430703	1	1	
USE1	865138	212	38	13244	3808	0	0	0	0	50	1	370937	1	1	

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USF1	689033	250	23	15967	4466	0	0	0	0	50	0	374983	1	1	
USF2	767246	472	7	17549	5068	0	0	0	0	50	0	322084	1	1	
USH1C	442495	619	12	47201	13321	0	0	0	0	50	1	401156	1	1	
USH1G	1045089	223	25	22232	7042	0	0	0	0	50	0	391125	1	1	
USH2A	82180	967	-25	261240	72681	0	0	0	0	1	0	77763	1	1	
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USMG5	545643	147	45	3157	812	0	0	0	0	50	2	365750	1	1	
USO1	482408	363	51	47299	11963	0	0	0	0	50	0	392672	1	1	
USP1	239359	394	5	40145	10045	0	0	0	0	50	1	352961	1	1	
USP10	494151	258	31	39858	11571	0	0	0	0	50	0	379029	1	1	
USP11	807577	NaN	47	48832	13580	0	0	0	0	50	1	419482	1	1	
USP12	283040	221	52	19355	4690	0	0	0	0	50	0	401191	1	1	
USP13	361278	589	12	44653	11501	0	0	0	0	50	0	370048	1	1	
USP14	527535	689	-11	26194	6251	0	0	0	0	50	1	344792	1	1	
USP15	239150	456	-26	49805	11956	0	0	0	0	50	0	474677	1	1	
USP16	316514	178	57	43120	10220	0	0	0	0	50	0	385483	1	1	
USP17	NaN	NaN	NaN	156569	44023	0	0	0	0	50	2	823571	1	1	
USP17L2	475312	625	3	26117	7336	0	0	0	0	50	0	408856	1	1	
USP18	521791	289	11	19439	4816	0	0	0	0	50	1	520268	1	1	
USP19	1898051	203	36	65506	19607	0	0	0	0	50	1	452060	1	1	
USP2	1054477	263	40	32473	9842	0	0	0	0	50	0	461559	1	1	
USP20	552898	184	42	46816	12845	0	0	0	0	50	1	355110	1	1	
USP21	728669	234	37	27678	8988	0	0	0	0	50	0	442974	1	1	
USP22	431615	382	-19	27272	6874	0	0	0	0	50	1	432614	1	1	
USP24	447636	230	9	135065	35686	0	0	0	0	15	0	140217	1	1	
USP25	74958	477	30	54971	13489	0	0	0	0	50	1	479101	1	1	
USP26	88462	NaN	12	45801	11802	0	0	0	0	50	0	366471	1	1	
USP27X	NaN	NaN	NaN	21861	5796	0	0	0	0	50	2	785344	1	1	
USP28	169458	534	10	55454	14518	0	0	0	0	50	0	502677	1	1	
USP29	311003	924	-64	46186	12047	0	0	0	0	50	1	369817	1	1	
USP3	617922	178	42	27328	6671	0	0	0	0	50	1	432747	1	1	
USP30	592814	487	20	26348	7294	0	0	0	0	50	0	387170	1	1	
USP31	576886	701	22	66374	20125	0	0	0	0	50	1	366051	1	1	
USP32	913326	361	6	82446	21441	0	0	0	0	35	0	175154	1	1	
USP33	432858	192	2	49469	12124	0	0	0	0	50	2	363594	1	1	
USP34	841742	471	34	184443	45696	0	0	0	0	49	0	432908	1	1	
USP35	549791	208	26	49483	15554	0	0	0	0	50	0	456428	1	1	
USP36	854363	214	27	56098	16226	0	0	0	0	50	0	412769	1	1	
USP37	841802	168	42	50848	12824	0	0	0	0	50	1	372890	1	1	
USP38	182738	678	3	51646	14819	0	0	0	0	39	0	326459	1	1	
USP39	1158965	170	43	28924	7784	0	0	0	0	50	0	386631	1	1	
USP4	1661046	201	34	49553	12985	0	0	0	0	50	0	405601	1	1	
USP40	351003	307	35	63455	16177	0	0	0	0	50	0	360381	1	1	
USP42	1663156	229	43	42532	11543	0	0	0	0	50	0	448126	1	1	
USP43	78043	204	-50	54915	17073	0	0	0	0	50	0	420966	1	1	
USP44	442533	328	13	35812	9527	0	0	0	0	50	0	459018	1	1	
USP45	256853	638	15	42210	10563	0	0	0	0	50	1	570381	1	1	
USP46	115480	870	12	19495	4655	0	0	0	0	50	0	397523	1	1	
USP47	327690	317	17	66976	16352	0	0	0	0	50	1	493115	1	1	
USP48	510117	181	30	54628	12950	0	0	0	0	50	1	416829	1	1	

USP49	429516	341	40	31157	9562	0	0	0	0	50	0	451591	1	1	
USP5	2822601	232	32	43848	11949	0	0	0	0	31	0	242151	1	1	
USP50	325027	203	27	17248	4361	0	0	0	0	50	0	485289	1	1	
USP51	92250	NaN	8	35112	9828	0	0	0	0	50	0	510538	1	1	
USP53	227905	753	2	55167	13671	0	0	0	0	50	0	467264	1	1	
USP54	1072614	150	40	84721	23240	0	0	0	0	50	0	571984	1	1	
USP6	1391000	384	20	72142	18914	0	0	0	0	50	0	449057	1	1	
USP6NL	300268	388	22	42917	11725	0	0	0	0	50	0	464968	1	1	
USP7	401069	159	12	58569	13440	0	0	0	0	50	0	347872	1	1	
USP8	325514	203	30	57246	14847	0	0	0	0	50	0	484183	1	1	
USP9X	734477	NaN	38	131621	33964	0	0	0	0	50	0	392336	1	1	
USP9Y	0	0	0	131236	33488	0	0	0	0	13	0	124313	1	1	
USPL1	373046	369	63	54600	14931	0	0	0	0	50	0	411117	1	1	
UST	169694	476	8	20706	5523	0	0	0	0	50	0	405034	1	1	
UTF1	NaN	NaN	NaN	15596	6076	0	0	0	0	50	2	785624	1	1	
UTP11L	445132	232	42	13335	3297	0	0	0	0	50	1	352450	1	1	
UTP14A	379883	NaN	35	39347	10507	0	0	0	0	50	0	464653	1	1	
UTP14C	385945	461	41	37975	10346	0	0	0	0	50	0	442197	1	1	
UTP15	403014	289	42	26537	7168	0	0	0	0	50	2	427119	1	1	
UTP18	758183	431	-15	28581	7644	0	0	0	0	50	1	416801	1	1	
UTP20	261840	760	-5	143192	37450	0	0	0	0	50	0	440811	1	1	
UTP23	483166	504	23	12572	3388	0	0	0	0	50	0	393701	1	1	
UTP3	262444	609	19	23646	6594	0	0	0	0	50	0	416864	1	1	
UTP6	705344	300	21	31752	7476	0	0	0	0	50	0	466347	1	1	
UTRN	183454	750	11	177842	44674	0	0	0	0	50	0	408751	1	1	
UTS2	375594	415	23	8659	2219	0	0	0	0	47	0	412293	1	1	
UTS2D	112669	773	9	6321	1575	0	0	0	0	50	0	530292	1	1	
UTS2R	2598845	179	36	17612	6937	0	0	0	0	50	1	401919	1	1	
UTY	0	0	0	73262	19411	0	0	0	0	46	0	390439	1	1	
UVRAG	520479	503	32	35406	9870	0	0	0	0	50	1	484078	1	1	
UXS1	125109	844	2	22127	5614	0	0	0	0	50	1	377328	1	1	
UXT	770573	NaN	45	8785	2387	0	0	0	0	50	2	430500	1	1	
VAC14	857297	299	26	39452	11389	0	0	0	0	50	0	441952	1	1	
VAMP1	2702142	198	50	6601	1757	0	0	0	0	3	0	19033	1	1	
VAMP2	1381225	202	37	6069	1680	0	0	0	0	50	0	554176	1	1	
VAMP3	364696	422	22	5341	1358	0	0	0	0	38	0	315539	1	1	
VAMP4	415434	718	3	7812	1722	0	0	0	0	50	0	384279	1	1	
VAMP5	1158965	170	43	5838	1743	0	0	0	0	50	0	386631	1	1	
VAMP7	NaN	NaN	NaN	15365	3094	0	0	0	0	50	2	782642	1	1	
VAMP8	1158965	170	43	5138	1393	0	0	0	0	50	0	386631	1	1	
VANGL1	71378	604	7	25928	7651	0	0	0	0	50	0	446194	1	1	
VANGL2	987855	526	28	25459	7931	0	0	0	0	50	1	383747	1	1	
VAPA	405142	172	42	15085	4004	0	0	0	0	50	2	326564	1	1	
VAPB	962331	385	24	12523	3269	0	0	0	0	50	0	513702	1	1	
VARS	2509866	183	32	62860	19313	0	0	0	0	50	0	441721	1	1	
VARS2	2223866	223	25	54810	16674	0	0	0	0	50	1	455560	1	1	
VASH1	308800	471	39	18165	5397	0	0	0	0	50	0	326536	1	1	
VASH2	315884	412	12	17990	4942	0	0	0	0	50	0	491890	1	1	
VASN	754886	161	41	30772	11774	0	0	0	0	50	1	390824	1	1	
VASP	1107927	194	44	19243	5768	0	0	0	0	50	0	361312	1	1	

VAT1	1507064	201	26	19152	6090	0	0	0	0	50	0	346423	1	1	
VAT1L	44717	1259	-28	21329	5845	0	0	0	0	50	0	443947	1	1	
VAV1	739481	272	31	44142	11382	0	0	0	0	50	0	451843	1	1	
VAV2	674833	504	29	46312	11543	0	0	0	0	50	1	415821	1	1	
VAV3	132139	554	-11	45185	10990	0	0	0	0	50	0	422485	1	1	
VAX1	202295	640	-14	18053	6118	0	0	0	0	50	0	497805	1	1	
VAX2	504483	623	25	13664	4879	0	0	0	0	50	0	409759	1	1	
VBP1	371405	NaN	-13	10465	2471	0	0	0	0	50	1	417648	1	1	
VCAM1	277299	899	-6	37093	10199	0	0	0	0	50	1	375375	1	1	
VCL	843223	125	52	56882	16429	0	0	0	0	50	1	470547	1	1	
VCP	782447	350	42	40579	11606	0	0	0	0	50	1	488740	1	1	
VCPIP1	372262	213	38	59703	17514	0	0	0	0	50	0	383313	1	1	
VCX	43100	NaN	-9	10353	2772	0	0	0	0	50	0	572789	1	1	
VCX2	30870	NaN	-19	6916	2030	0	0	0	0	50	0	390957	1	1	
VCX3A	41698	NaN	2	9317	2548	0	0	0	0	48	1	389669	1	1	
VCX3B	28829	NaN	-28	10997	2842	0	0	0	0	50	0	492086	1	1	
VCY	NaN	NaN	NaN	12446	3850	0	0	0	0	50	2	783398	1	1	
VCY1B	NaN	NaN	NaN	12446	3850	0	0	0	0	50	2	783398	1	1	
VDAC1	615558	269	56	14518	4046	0	0	0	0	50	0	415548	1	1	
VDAC2	208687	275	38	16646	4375	0	0	0	0	50	0	381073	1	1	
VDAC3	535273	459	37	14777	3850	0	0	0	0	50	0	418726	1	1	
VDR	387225	207	44	21728	5908	0	0	0	0	50	1	376810	1	1	
VEGFA	1564130	278	41	21063	6048	0	0	0	0	50	0	427721	1	1	
VEGFB	1613996	257	65	10332	3318	0	0	0	0	50	0	419300	1	1	
VEGFC	145765	585	-14	21504	5523	0	0	0	0	50	0	427413	1	1	
VENTX	339279	452	-12	12369	4158	0	0	0	0	50	0	421792	1	1	
VEPH1	202651	739	5	44492	11536	0	0	0	0	50	0	420455	1	1	
VEZF1	854628	182	27	25914	7392	0	0	0	0	50	0	358918	1	1	
VEZT	371223	395	30	39375	10689	0	0	0	0	50	0	426951	1	1	
VGF	1022626	258	39	29029	9863	0	0	0	0	50	0	387464	1	1	
VGLL1	358658	NaN	43	12880	3773	0	0	0	0	50	2	451325	1	1	
VGLL2	181822	589	-25	15547	4739	0	0	0	0	50	0	576660	1	1	
VGLL3	55913	332	-18	16275	4578	0	0	0	0	50	1	383271	1	1	
VGLL4	186722	488	35	16310	4669	0	0	0	0	50	1	401744	1	1	
VHL	825905	170	39	10472	3178	0	0	0	0	50	0	343070	1	1	
VHLL	2266205	211	33	6727	2093	0	0	0	0	50	0	435456	1	1	
VIL1	739473	144	37	42245	11515	0	0	0	0	50	1	409885	1	1	
VILL	318742	457	24	43519	12026	0	0	0	0	50	0	481299	1	1	
VIM	546890	465	11	23401	6692	0	0	0	0	50	0	407505	1	1	
VIP	188249	600	-9	8988	2289	0	0	0	0	50	0	524811	1	1	
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VIPR1	355160	527	21	23352	6510	0	0	0	0	50	0	519127	1	1	
VIPR2	179290	348	-24	22330	6335	0	0	0	0	50	0	477841	1	1	
VIT	577288	323	-8	37051	10514	0	0	0	0	50	1	407470	1	1	
VKORC1	1296884	351	35	8568	1932	0	0	0	0	50	1	440783	1	1	
VKORC1L1	404213	365	30	8638	2723	0	0	0	0	50	1	397845	1	1	
VLDLR	192846	541	-1	45437	11137	0	0	0	0	50	1	406070	1	1	
VMA21	247003	NaN	-16	5117	1477	0	0	0	0	50	0	358085	1	1	
VMAC	1166723	392	36	7994	2842	0	0	0	0	50	1	353248	1	1	
VMO1	1272092	222	28	10563	3234	0	0	0	0	50	0	469798	1	1	

VN1R1	451095	869	-24	17451	4851	0	0	0	0	50	1	352730	1	1	
VN1R2	427680	921	-46	19320	5712	0	0	0	0	50	0	340746	1	1	
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VN1R5	352232	742	-15	17521	5012	0	0	0	0	50	0	306999	1	1	
VNN1	127166	569	2	25788	7140	0	0	0	0	50	1	509488	1	1	
VNN2	127166	569	2	26054	7315	0	0	0	0	50	1	509488	1	1	
VOPP1	947740	541	23	8757	2478	0	0	0	0	50	1	414043	1	1	
VPRBP	549963	415	40	73339	20258	0	0	0	0	50	0	517692	1	1	
VPREB1	433352	612	35	7287	2037	0	0	0	0	50	1	436331	1	1	
VPREB3	610486	266	30	6104	1834	0	0	0	0	50	1	403081	1	1	
VPS11	1390854	195	58	47803	12824	0	0	0	0	50	0	338107	1	1	
VPS13A	186200	696	-2	166320	42273	0	0	0	0	19	0	151445	1	1	
VPS13B	209453	862	27	206304	56259	0	0	0	0	29	0	305284	1	1	
VPS13C	115338	586	14	193802	50344	0	0	0	0	50	0	449687	1	1	
VPS13D	490718	340	28	220850	61453	0	0	0	0	11	0	134022	1	1	
VPS16	766497	396	44	42924	12012	0	0	0	0	50	1	462042	1	1	
VPS18	1036414	172	51	47019	14679	0	0	0	0	50	1	399637	1	1	
VPS24	617233	424	18	11704	2765	0	0	0	0	50	0	462721	1	1	
VPS25	1633092	190	33	9338	2275	0	0	0	0	50	0	400561	1	1	
VPS26A	749325	145	48	17318	4018	0	0	0	0	50	4	340781	1	1	
VPS26B	270368	601	18	17108	4543	0	0	0	0	50	1	469077	1	1	
VPS28	2043455	200	36	13643	3493	0	0	0	0	50	0	332850	1	1	
VPS29	922262	206	43	9618	2541	0	0	0	0	50	1	439082	1	1	
VPS33A	885125	222	47	30268	8351	0	0	0	0	50	1	517895	1	1	
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VPS35	432970	253	-24	41062	10535	0	0	0	0	50	0	456253	1	1	
VPS36	365031	318	37	20307	5208	0	0	0	0	50	0	418222	1	1	
VPS37A	251352	387	6	20650	5306	0	0	0	0	50	1	342671	1	1	
VPS37B	977561	184	37	13853	4438	0	0	0	0	50	0	445732	1	1	
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VPS37D	1197825	214	52	11893	4235	0	0	0	0	50	1	437409	1	1	
VPS39	625465	394	35	45381	11823	0	0	0	0	50	0	454048	1	1	
VPS41	139398	862	3	45633	10626	0	0	0	0	50	1	386190	1	1	
VPS45	1181361	309	32	29274	7875	0	0	0	0	50	1	379386	1	1	
VPS4A	1202748	125	20	22372	6062	0	0	0	0	22	0	159467	1	1	
VPS4B	206996	278	92	22736	6139	0	0	0	0	50	2	390509	1	1	
VPS52	1456953	262	30	36610	10598	0	0	0	0	50	0	411845	1	1	
VPS53	486092	514	7	42840	11676	0	0	0	0	50	0	389522	1	1	
VPS54	352987	407	20	50582	12880	0	0	0	0	50	0	462231	1	1	
VPS72	1562281	184	33	17871	5586	0	0	0	0	50	0	412216	1	1	
VPS8	1340797	626	37	75075	18816	0	0	0	0	50	1	480662	1	1	
VRK1	313555	715	13	21084	4935	0	0	0	0	50	1	386001	1	1	
VRK2	198322	479	8	27426	6615	0	0	0	0	50	0	426699	1	1	
VRK3	1661159	187	40	24423	6573	0	0	0	0	50	0	418439	1	1	
VSIG1	193027	NaN	32	21294	6006	0	0	0	0	50	0	465094	1	1	
VSIG10	637549	608	17	27097	7658	0	0	0	0	50	0	374787	1	1	
VSIG10L	NaN	NaN	NaN	40880	14560	0	0	0	0	50	2	794108	1	1	
VSIG2	168652	622	14	16051	5201	0	0	0	0	50	0	388325	1	1	
VSIG4	317695	NaN	42	20132	5698	0	0	0	0	50	2	383670	1	1	
VSIG8	803074	403	7	20419	6230	0	0	0	0	50	0	295806	1	1	

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VSNL1	135361	1255	-2	9996	2352	0	0	0	0	50	0	351057	1	1	
VSTM1	798576	338	-46	12439	3164	0	0	0	0	50	0	366450	1	1	
VSTM2A	255140	678	-34	11970	3297	0	0	0	0	50	0	495383	1	1	
VSTM2B	NaN	NaN	NaN	13671	4683	0	0	0	0	50	2	784231	1	1	
VSTM2L	604196	440	54	10045	3122	0	0	0	0	50	2	467215	1	1	
VSX1	598947	563	-8	19054	6293	0	0	0	0	50	0	369957	1	1	
VSX2	652027	358	47	17836	5348	0	0	0	0	50	0	397495	1	1	
VTA1	169555	426	-15	15890	4144	0	0	0	0	50	0	388423	1	1	
VTCN1	322193	566	12	14273	4018	0	0	0	0	50	0	410284	1	1	
VTI1A	232217	459	7	11403	2919	0	0	0	0	50	0	418530	1	1	
VTI1B	479937	260	39	11760	3339	0	0	0	0	50	0	350763	1	1	
VTN	1405196	214	10	24703	6104	0	0	0	0	10	0	80199	1	1	
VWA2	290609	437	21	35350	11312	0	0	0	0	50	0	451108	1	1	
VWA3A	577505	269	45	61663	15806	0	0	0	0	50	0	393218	1	1	
VWA3B	361135	716	28	66311	17542	0	0	0	0	50	0	445284	1	1	
VWA5A	177269	744	-11	40124	10927	0	0	0	0	50	0	435106	1	1	
VWA5B1	NaN	NaN	NaN	60361	18011	0	0	0	0	50	2	797559	1	1	
VWA5B2	NaN	NaN	NaN	59458	20363	0	0	0	0	50	2	799911	1	1	
VWC2	53908	941	-13	16044	4683	0	0	0	0	50	2	514605	1	1	
VWC2L	52906	1018	-1	11508	2793	0	0	0	0	50	1	444948	1	1	
VWCE	1124603	480	43	47054	14770	0	0	0	0	50	2	506457	1	1	
VWDE	NaN	NaN	NaN	81900	20685	0	0	0	0	50	2	800233	1	1	
VWF	1716132	481	15	142359	39165	0	0	0	0	50	0	415513	1	1	
WAC	204806	355	17	32837	9121	0	0	0	0	50	0	350525	1	1	
WAPAL	209036	398	4	60942	15603	0	0	0	0	50	1	375634	1	1	
WARS	410981	215	34	24374	6202	0	0	0	0	50	0	358253	1	1	
WARS2	163335	948	-5	18480	5334	0	0	0	0	50	0	330218	1	1	
WAS	824559	NaN	27	24668	7987	0	0	0	0	50	0	479633	1	1	
WASF1	127917	636	16	27454	8498	0	0	0	0	50	0	309001	1	1	
WASF2	795528	156	26	24598	7511	0	0	0	0	50	0	416423	1	1	
WASF3	149391	643	10	25039	7322	0	0	0	0	50	0	431466	1	1	
WASH1	332463	398	NaN	23310	6888	0	0	0	0	50	0	466158	1	1	
WASL	86898	536	-13	25291	7427	0	0	0	0	50	3	521535	1	1	
WBP1	1069803	343	45	13174	4088	0	0	0	0	50	0	390285	1	1	
WBP11	340728	578	-4	31962	9408	0	0	0	0	50	0	309561	1	1	
WBP2	1727802	178	35	13517	3577	0	0	0	0	50	1	448889	1	1	
WBP2NL	1328069	323	66	15155	4837	0	0	0	0	50	0	315987	1	1	
WBP4	305794	417	76	19901	4606	0	0	0	0	50	1	389137	1	1	
WBP5	448080	NaN	32	5614	1148	0	0	0	0	50	0	331065	1	1	
WBSCR16	733800	220	50	22974	7161	0	0	0	0	50	1	384496	1	1	
WBSCR17	38269	1094	-34	30002	8575	0	0	0	0	50	0	438347	1	1	
WBSCR22	1139944	214	53	14707	4025	0	0	0	0	50	0	492905	1	1	
WBSCR28	1099366	208	37	12775	4235	0	0	0	0	50	0	321020	1	1	
WDFY1	307044	251	22	21546	5313	0	0	0	0	50	1	464156	1	1	
WDFY2	246186	384	46	20888	5299	0	0	0	0	50	1	396557	1	1	
WDFY3	92480	950	-1	179291	49231	0	0	0	0	6	0	87906	1	1	
WDFY4	NaN	NaN	NaN	159705	46074	0	0	0	0	50	2	825622	1	1	
WDHD1	752481	255	35	58373	14917	0	0	0	0	50	0	437339	1	1	
WDR1	223391	873	42	31003	8414	0	0	0	0	50	0	345877	1	1	
WDR11	242834	597	-7	62552	16975	0	0	0	0	50	0	471226	1	1	

WDR12	596746	392	31	22078	5642	0	0	0	0	50	1	414883	1	1	
WDR13	817501	NaN	29	24024	7266	0	0	0	0	50	0	408625	1	1	
WDR16	79661	336	-24	31682	8575	0	0	0	0	50	0	335230	1	1	
WDR17	133039	616	-8	67963	17906	0	0	0	0	50	0	457450	1	1	
WDR18	2292363	206	44	21476	6601	0	0	0	0	50	0	396193	1	1	
WDR19	604829	230	49	70133	17500	0	0	0	0	50	1	406756	1	1	
WDR20	1492356	237	43	29365	8288	0	0	0	0	50	0	459564	1	1	
WDR24	1207790	194	33	39130	11417	0	0	0	0	50	2	442589	1	1	
WDR25	410676	215	23	26831	8008	0	0	0	0	50	1	404453	1	1	
WDR26	519341	256	18	33404	9394	0	0	0	0	50	0	360864	1	1	
WDR27	197890	593	-17	43554	12516	0	0	0	0	50	0	437899	1	1	
WDR3	204177	596	-5	48776	12880	0	0	0	0	50	0	387555	1	1	
WDR31	408268	248	31	18991	4949	0	0	0	0	50	0	402899	1	1	
WDR33	605495	187	43	73703	20839	0	0	0	0	50	1	433419	1	1	
WDR34	1891397	197	41	26257	8330	0	0	0	0	50	1	435561	1	1	
WDR35	482678	390	24	61229	15505	0	0	0	0	50	1	422884	1	1	
WDR36	205349	738	6	48601	13223	0	0	0	0	50	0	416325	1	1	
WDR37	334592	460	42	25221	7056	0	0	0	0	50	1	388598	1	1	
WDR38	1125524	207	41	15890	4669	0	0	0	0	50	0	370020	1	1	
WDR4	439191	276	57	21021	5964	0	0	0	0	50	1	346808	1	1	
WDR41	269224	518	36	23744	6244	0	0	0	0	50	1	349209	1	1	
WDR43	478715	398	26	35105	9079	0	0	0	0	50	0	475769	1	1	
WDR44	131060	NaN	25	46837	12341	0	0	0	0	50	0	339143	1	1	
WDR45	833689	NaN	41	18585	5061	0	0	0	0	50	0	426979	1	1	
WDR45L	1250099	217	26	17857	4634	0	0	0	0	50	0	429408	1	1	
WDR46	1456953	262	30	30604	9065	0	0	0	0	50	0	411845	1	1	
WDR47	942575	216	19	47187	12453	0	0	0	0	50	1	355677	1	1	
WDR48	226944	500	25	35196	9072	0	0	0	0	50	0	368375	1	1	
WDR49	145736	911	-20	36176	8974	0	0	0	0	50	0	442008	1	1	
WDR5	307164	368	38	17703	4536	0	0	0	0	50	0	334901	1	1	
WDR52	440896	672	24	96201	23793	0	0	0	0	50	0	408940	1	1	
WDR53	1180405	156	30	17696	5131	0	0	0	0	50	0	395815	1	1	
WDR54	1069803	343	45	16793	5089	0	0	0	0	50	0	390285	1	1	
WDR55	774470	356	31	19124	5572	0	0	0	0	50	0	408716	1	1	
WDR59	724091	165	28	50043	13524	0	0	0	0	50	0	386169	1	1	
WDR5B	416095	478	34	16254	4599	0	0	0	0	50	0	318857	1	1	
WDR6	1799657	241	41	55069	17927	0	0	0	0	50	0	446040	1	1	
WDR60	338838	241	3	55090	14147	0	0	0	0	50	1	448539	1	1	
WDR61	447425	371	54	15953	4165	0	0	0	0	50	0	383040	1	1	
WDR62	980636	320	19	76307	22393	0	0	0	0	50	0	364875	1	1	
WDR63	443738	623	11	46872	11172	0	0	0	0	50	1	396123	1	1	
WDR64	172691	227	-16	56196	14154	0	0	0	0	50	0	439187	1	1	
WDR65	1068006	294	30	35168	9772	0	0	0	0	50	0	399147	1	1	
WDR66	814234	162	38	59591	15820	0	0	0	0	50	0	303254	1	1	
WDR67	482518	203	27	55286	13741	0	0	0	0	50	0	425852	1	1	
WDR69	161693	425	4	21707	5551	0	0	0	0	50	1	348425	1	1	
WDR7	101104	885	38	74746	21455	0	0	0	0	50	0	420861	1	1	
WDR70	302307	592	15	34181	8596	0	0	0	0	50	1	558761	1	1	
WDR72	15464	1008	-29	56301	14784	0	0	0	0	50	0	442631	1	1	
WDR73	341520	263	32	18956	5551	0	0	0	0	50	0	411614	1	1	

WDR74	2342595	181	71	19558	5726	0	0	0	0	50	0	477421	1	1	
WDR75	413405	503	12	43239	10836	0	0	0	0	50	0	353668	1	1	
WDR76	792287	375	34	31864	8645	0	0	0	0	50	0	472304	1	1	
WDR77	397926	461	18	17409	4998	0	0	0	0	50	0	417809	1	1	
WDR78	334231	692	-14	44471	11641	0	0	0	0	50	0	351547	1	1	
WDR8	250027	288	16	23436	6531	0	0	0	0	50	1	372197	1	1	
WDR82	1114111	181	50	16331	4123	0	0	0	0	50	0	394387	1	1	
WDR83	1975767	409	1	16016	4732	0	0	0	0	50	0	547204	1	1	
WDR85	1315685	404	41	22813	6398	0	0	0	0	50	1	412846	1	1	
WDR86	608657	190	39	18270	5901	0	0	0	0	50	0	402129	1	1	
WDR87	NaN	NaN	NaN	143241	38283	0	0	0	0	50	2	817831	1	1	
WDR88	406033	270	-8	24171	6510	0	0	0	0	50	1	438221	1	1	
WDR89	320174	221	27	19320	5208	0	0	0	0	50	0	531594	1	1	
WDR90	1161748	194	36	86457	27132	0	0	1	0	50	1	387275	1	1	
WDR91	464513	594	20	37688	10654	0	0	0	0	50	0	295855	1	1	
WDR92	190719	594	5	18347	4837	0	0	0	0	50	0	353388	1	1	
WDR93	880974	190	35	35427	9198	0	0	0	0	50	1	438214	1	1	
WDSUB1	386986	265	29	24423	6468	0	0	0	0	50	1	518938	1	1	
WDTC1	854040	162	27	34440	9471	0	0	0	0	50	0	376404	1	1	
WDYHV1	544059	225	35	10857	2541	0	0	0	0	50	0	376124	1	1	
WEE1	553054	158	28	32340	9261	0	0	0	0	50	2	432705	1	1	
WEE2	200522	844	14	28959	7749	0	0	0	0	50	0	347788	1	1	
WFDC1	585154	396	8	11081	3346	0	0	0	0	50	1	445613	1	1	
WFDC10A	NaN	NaN	NaN	4053	1113	0	0	0	0	31	2	344596	1	1	
WFDC10B	777303	359	16	8092	1631	0	0	0	0	50	0	388066	1	1	
WFDC11	736165	438	18	4816	980	0	0	0	0	50	1	405517	1	1	
WFDC12	865186	324	46	5747	1519	0	0	0	0	3	0	16212	1	1	
WFDC13	777303	359	16	5159	1015	0	0	0	0	50	0	388066	1	1	
WFDC2	1053862	382	36	6398	1750	0	0	0	0	50	0	347263	1	1	
WFDC3	742720	180	48	11977	3143	0	0	0	0	50	2	302897	1	1	
WFDC5	865186	324	46	6398	1708	0	0	0	0	50	1	541765	1	1	
WFDC6	1069725	438	36	4585	1106	0	0	0	0	18	0	139895	1	1	
WFDC8	902945	438	27	12887	2905	0	0	0	0	50	0	440832	1	1	
WFDC9	736165	438	18	4830	1092	0	0	0	0	50	1	405517	1	1	
WFIKKN1	1115707	213	39	26250	8463	0	0	0	0	50	0	333676	1	1	
WFIKKN2	1152451	161	15	28119	8316	0	0	0	0	20	0	140966	1	1	
WFS1	418118	599	48	43561	13223	0	0	0	0	50	0	327544	1	1	
WHAMM	476426	631	23	40040	11746	0	0	0	0	50	0	341488	1	1	
WHSC1	815091	239	43	70672	18662	0	0	0	0	50	0	479374	1	1	
WHSC1L1	802555	253	46	75110	19201	0	0	0	0	50	0	389697	1	1	
WHSC2	747944	321	38	26579	8281	0	0	0	0	50	0	386911	1	1	
WIBG	1994705	229	35	10752	3129	0	0	0	0	50	0	400057	1	1	
WIF1	344729	671	-9	19621	5075	0	0	0	0	50	0	399112	1	1	
WIPF1	463489	400	39	23905	8435	0	0	0	0	50	0	450996	1	1	
WIPF2	1491292	165	30	21077	7294	0	0	0	0	50	0	398643	1	1	
WIPI1	699214	233	-15	22869	6342	0	0	0	0	50	1	422058	1	1	
WIPI2	1750164	417	34	23737	6608	0	0	0	0	50	0	338723	1	1	
WISP1	235882	481	12	18389	5215	0	0	0	0	50	0	362859	1	1	
WISP2	890596	168	46	12103	3962	0	0	0	0	50	1	413483	1	1	
WISP3	159324	296	16	18998	4879	0	0	0	0	50	0	302288	1	1	

WIZ	524410	481	33	37786	12887	0	0	0	0	50	0	464520	1	1	
WLS	331085	524	-20	30016	7658	0	0	0	0	50	1	540393	1	1	
WNK1	467405	289	45	139615	44324	0	0	0	0	11	0	128639	1	1	
WNK2	479663	408	49	106568	35518	0	0	0	0	50	0	427777	1	1	
WNK3	352631	NaN	25	90363	24948	0	0	0	0	50	0	490854	1	1	
WNK4	1633092	190	33	60333	19593	0	0	0	0	50	0	400561	1	1	
WNT1	1737773	214	55	17836	5789	0	0	0	0	50	0	365197	1	1	
WNT10A	1087669	386	42	20258	6328	0	0	0	0	50	1	365813	1	1	
WNT10B	1737773	214	55	18935	5971	0	0	0	0	50	0	365197	1	1	
WNT11	265144	359	38	17486	5215	0	0	0	0	50	0	359058	1	1	
WNT16	97501	535	-14	19460	5299	0	0	0	0	50	2	471198	1	1	
WNT2	331093	392	5	18221	4858	0	0	0	0	50	1	420259	1	1	
WNT2B	561338	355	21	21189	6594	0	0	0	0	50	0	482783	1	1	
WNT3	522194	254	23	17696	5068	0	0	0	0	50	0	323260	1	1	
WNT3A	688142	391	0	17521	5012	0	0	0	0	50	0	365162	1	1	
WNT4	434362	307	28	17395	5117	0	0	0	0	50	0	350406	1	1	
WNT5A	28683	425	20	19152	5187	0	0	0	0	50	0	394590	1	1	
WNT5B	270921	254	34	17955	5061	0	0	0	0	50	0	280553	1	1	
WNT6	1087669	386	42	17437	5873	0	0	0	0	50	1	365813	1	1	
WNT7A	422569	498	34	17437	4865	0	0	0	0	50	0	361354	1	1	
WNT7B	498719	270	28	17395	4907	0	0	0	0	50	1	385476	1	1	
WNT8A	1044706	377	41	18032	4606	0	0	0	0	50	1	356314	1	1	
WNT8B	1153157	264	50	17451	5145	0	0	0	0	50	0	407008	1	1	
WNT9A	673663	406	-4	17815	5579	0	0	0	0	50	0	359317	1	1	
WNT9B	526881	366	16	17325	5523	0	0	0	0	50	0	423780	1	1	
WRAP53	2068255	213	31	27391	8141	0	0	0	0	50	0	371840	1	1	
WRB	383982	346	44	9037	2366	0	0	0	0	50	1	420763	1	1	
WRN	283981	708	2	74774	18361	0	0	0	0	50	0	429485	1	1	
WRNIP1	473112	285	31	32662	9800	0	0	0	0	50	0	361515	1	1	
WSB1	147758	292	-21	21532	5726	0	0	0	0	50	0	394779	1	1	
WSB2	639801	584	-3	20503	5726	0	0	0	0	50	1	494907	1	1	
WSCD1	283312	593	-11	28266	8610	0	0	0	0	50	0	343819	1	1	
WSCD2	451405	644	29	28322	7924	0	0	0	0	50	0	462693	1	1	
WT1	356326	749	9	26047	7343	0	0	0	0	50	0	451066	1	1	
WTAP	643775	604	19	20384	5257	0	0	0	0	50	0	393757	1	1	
WTIP	707545	355	5	20685	7056	0	0	0	0	50	0	460418	1	1	
WWC1	413858	343	23	56406	16044	0	0	0	0	50	0	368893	1	1	
WWC2	244213	295	-3	60459	16548	0	0	0	0	50	0	449505	1	1	
WWC3	169744	NaN	34	54488	16219	0	0	0	0	50	1	413266	1	1	
WWOX	51599	1260	-34	21959	6118	0	0	0	0	50	0	500031	1	1	
WWP2	1410481	NaN	42	44681	12166	0	0	0	0	50	0	502061	1	1	
WWTR1	558006	263	18	20090	5677	0	0	0	0	50	1	413581	1	1	
XAB2	611341	384	33	43421	12103	0	0	0	0	50	0	407232	1	1	
XAF1	936146	438	5	15736	3794	0	0	0	0	50	1	291179	1	1	
XAGE1A	NaN	NaN	NaN	25655	3325	0	0	0	0	50	2	782873	1	1	
XAGE1B	NaN	NaN	NaN	25655	3325	0	0	0	0	50	2	782873	1	1	
XAGE1C	NaN	NaN	NaN	25655	3325	0	0	0	0	50	2	782873	1	1	
XAGE1D	NaN	NaN	NaN	25655	3325	0	0	0	0	50	2	782873	1	1	
XAGE1E	NaN	NaN	NaN	25655	3325	0	0	0	0	50	2	782873	1	1	
XAGE2	NaN	NaN	NaN	11480	2821	0	0	0	0	50	2	782369	1	1	

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XAGE2B	NaN	NaN	NaN	11480	2821	0	0	0	0	50	2	782369	1	1	
XAGE3	476232	NaN	26	5915	1519	0	0	0	0	36	0	294763	1	1	
XAGE5	476232	NaN	26	5817	1428	0	0	0	0	36	0	294763	1	1	
XBP1	571394	219	-10	20083	4592	0	0	0	0	50	1	449022	1	1	
XCL1	389559	440	15	5712	1743	0	0	0	0	50	1	347963	1	1	
XCL2	389559	440	15	5705	1750	0	0	0	0	50	1	347963	1	1	
XCR1	225584	551	54	16051	5075	0	0	0	0	50	0	325185	1	1	
XDH	99156	725	18	67900	19124	0	0	0	0	50	0	395591	1	1	
XG	202643	NaN	23	10703	2548	0	0	0	0	50	0	438963	1	1	
XIAP	337935	NaN	14	25452	6426	0	0	0	0	50	0	426356	1	1	
XIRP1	163147	452	44	87983	28273	0	0	0	0	50	1	476357	1	1	
XIRP2	7405	1014	-18	204323	52591	0	0	0	0	5	0	91014	1	1	
XK	115395	NaN	11	21840	6405	0	0	0	0	50	0	401695	1	1	
XKR3	106864	720	-97	23163	6069	0	0	0	0	50	0	436590	1	1	
XKR4	93897	925	-13	31724	9499	0	0	0	0	50	0	462161	1	1	
XKR5	131291	564	40	33621	10185	0	0	0	0	50	0	323771	1	1	
XKR6	125681	704	26	30863	9793	0	0	0	0	30	0	251447	1	1	
XKR7	1006109	386	37	27412	9296	0	0	0	0	50	0	333592	1	1	
XKR8	891090	272	20	18634	6524	0	0	0	0	50	1	409409	1	1	
XKR9	241667	562	22	18872	4858	0	0	0	0	50	0	385336	1	1	
XKRX	363715	NaN	37	22134	6384	0	0	0	0	50	1	445928	1	1	
XKRY	NaN	NaN	NaN	11578	3290	0	0	0	0	50	2	782838	1	1	
XKRY2	NaN	NaN	NaN	11578	3290	0	0	0	0	50	2	782838	1	1	
XPA	484322	358	36	14210	3472	0	0	0	0	50	0	352317	1	1	
XPC	308100	258	33	30016	8456	0	0	0	0	50	0	335335	1	1	
XPNPEP1	248752	644	-31	34538	9163	0	0	0	0	50	1	486822	1	1	
XPNPEP2	358809	NaN	48	34699	9506	0	0	0	0	50	0	455826	1	1	
XPNPEP3	969480	269	43	25697	7105	0	0	0	0	50	0	492282	1	1	
XPO1	842390	442	42	55993	13559	0	0	0	0	50	0	348600	1	1	
XPO4	413321	385	42	58863	15603	0	0	0	0	50	2	417200	1	1	
XPO5	1249985	194	51	61915	16604	0	0	1	0	50	1	504574	1	1	
XPO6	879658	233	39	57099	15771	0	0	0	0	50	1	419524	1	1	
XPO7	489191	222	26	56707	15239	0	0	0	0	50	0	436268	1	1	
XPOT	466767	402	-15	49805	12880	0	0	0	0	50	1	413119	1	1	
XPR1	378102	589	11	35560	9527	0	0	0	0	50	0	364490	1	1	
XRCC1	416043	209	-10	32123	9205	0	0	0	0	50	1	419860	1	1	
XRCC2	256955	444	6	14147	3766	0	0	0	0	50	1	379610	1	1	
XRCC3	765678	266	43	16870	5495	0	0	0	0	50	1	413791	1	1	
XRCC4	230543	717	8	17556	4263	0	0	0	0	50	0	410648	1	1	
XRCC5	597243	384	33	38388	9471	0	0	0	0	50	0	438795	1	1	
XRCC6	1475100	183	50	31549	7889	0	0	0	0	50	0	372533	1	1	
XRCC6BP1	844463	298	22	12768	3255	0	0	0	0	50	0	405650	1	1	
XRN1	502945	403	29	88774	22253	0	0	0	0	42	0	370706	1	1	
XRN2	288961	638	-12	50099	12292	0	0	0	0	50	0	397096	1	1	
XRRA1	743843	365	29	39942	11445	0	0	0	0	50	0	380387	1	1	
XYLB	301536	437	24	27762	7581	0	0	0	0	50	0	464597	1	1	
XYLT1	30248	996	-2	47299	14147	0	0	0	0	50	0	338100	1	1	
XYLT2	1335838	196	24	42175	13223	0	0	0	0	50	0	451458	1	1	
YAF2	173442	585	2	9289	2408	0	0	0	0	50	1	394338	1	1	
YAP1	456821	327	-14	25354	7385	0	0	0	0	50	2	400869	1	1	

YARS	1339617	195	26	26922	7413	0	0	0	0	50	0	444381	1	1	
YARS2	302215	238	-4	23310	7182	0	0	0	0	50	1	407449	1	1	
YBX1	650376	461	21	16415	4648	0	0	0	0	50	0	397810	1	1	
YBX2	1782958	316	21	17647	6062	0	0	0	0	50	1	326809	1	1	
YDJC	521773	194	37	15344	5446	0	0	0	0	50	0	382774	1	1	
YEATS2	1447754	410	26	71078	21091	0	0	0	0	50	0	361578	1	1	
YEATS4	675242	361	13	12019	2849	0	0	0	0	50	0	347879	1	1	
YES1	398625	360	44	27853	7343	0	0	0	0	50	1	424347	1	1	
YIF1A	2133752	236	53	14630	4522	0	0	0	0	50	0	481383	1	1	
YIF1B	1438746	253	-1	17416	5201	0	0	0	0	50	1	380191	1	1	
YIPF1	505734	319	24	15757	4340	0	0	0	0	50	0	376208	1	1	
YIPF2	2009333	193	41	15792	4935	0	0	0	0	50	0	429100	1	1	
YIPF3	1278255	230	56	17458	5327	0	0	0	0	50	0	392392	1	1	
YIPF4	396035	325	23	12236	3619	0	0	0	0	50	0	459438	1	1	
YIPF5	39627	428	1	13195	3479	0	0	0	0	50	1	403515	1	1	
YIPF6	201571	NaN	12	12047	3430	0	0	0	0	50	0	372512	1	1	
YIPF7	62950	1034	-6	14301	3906	0	0	0	0	50	0	397859	1	1	
YJEFN3	868278	284	7	14658	4830	0	0	0	0	50	0	376670	1	1	
YKT6	1492561	412	68	10262	2779	0	0	0	0	50	0	295113	1	1	
YLPM1	878419	232	43	106379	30562	0	0	0	0	50	0	479507	1	1	
YME1L1	389022	551	30	39760	10598	0	0	0	0	50	1	438032	1	1	
YOD1	434877	155	24	16968	5145	0	0	0	0	50	1	520723	1	1	
YPEL1	447011	252	56	6307	1505	0	0	0	0	50	0	353556	1	1	
YPEL2	1000345	452	16	6265	1547	0	0	0	0	50	1	314790	1	1	
YPEL3	2261614	201	56	7980	2226	0	0	0	0	50	0	434700	1	1	
YPEL4	923511	354	15	6622	1694	0	0	0	0	50	0	372386	1	1	
YPEL5	141747	692	18	6111	1743	0	0	0	0	50	0	364280	1	1	
YRDC	445096	375	33	13405	4613	0	0	0	0	50	1	389165	1	1	
YSK4	297611	434	28	67270	17255	0	0	0	0	50	0	458318	1	1	
YTHDC1	126481	485	0	37709	9499	0	0	0	0	50	1	420945	1	1	
YTHDC2	171693	686	10	73066	19607	0	0	0	0	50	0	496629	1	1	
YTHDF1	1005137	285	50	27902	7714	0	0	0	0	50	1	392280	1	1	
YTHDF2	818065	208	30	28889	8071	0	0	0	0	50	0	430969	1	1	
YTHDF3	137401	619	7	29295	7938	0	0	0	0	50	1	401660	1	1	
YWHAB	952219	282	32	12824	3157	0	0	0	0	50	1	398468	1	1	
YWHAE	1417492	215	22	13195	3353	0	0	0	0	50	0	375697	1	1	
YWHAG	850568	195	53	12376	3332	0	0	0	0	50	1	418684	1	1	
YWHAH	531528	344	-1	12320	3325	0	0	0	0	50	0	390684	1	1	
YWHAQ	700762	154	40	12628	3290	0	0	0	0	50	1	387429	1	1	
YWHAZ	1074893	213	50	12761	3157	0	0	0	0	50	0	373023	1	1	
YY1	412002	237	37	20678	5803	0	0	0	0	50	0	380408	1	1	
YY1AP1	2262876	167	29	40586	11767	0	0	0	0	50	0	500892	1	1	
YY2	93077	NaN	16	18494	5005	0	0	0	0	50	0	396690	1	1	
ZACN	1611239	218	22	20461	6272	0	0	0	0	50	0	473452	1	1	
ZADH2	73586	993	4	17948	5950	0	0	0	0	50	2	455770	1	1	
ZAK	219235	429	16	48132	11970	0	0	0	0	50	0	417424	1	1	
ZAN	1483965	336	46	141701	40768	0	0	0	0	50	1	551152	1	1	
ZAP70	358719	582	36	31395	8673	0	0	0	0	50	0	465017	1	1	
ZAR1	310162	396	52	20307	6720	0	0	0	0	50	0	396550	1	1	
ZAR1L	NaN	NaN	NaN	16044	4536	0	0	0	0	50	2	784084	1	1	

ZBBX	69051	928	-23	42007	9968	0	0	0	0	50	0	400029	1	1	
ZBED1	NaN	NaN	NaN	33971	9961	0	0	0	0	50	2	789509	1	1	
ZBED2	188186	406	-14	10808	2989	0	0	0	0	50	0	431165	1	1	
ZBED3	NaN	NaN	NaN	10878	4011	0	0	0	0	50	2	783559	1	1	
ZBED4	700457	276	-4	57155	16681	0	0	0	0	50	0	413210	1	1	
ZBED5	NaN	NaN	NaN	34223	9499	0	0	0	0	50	2	789047	1	1	
ZBED6	NaN	NaN	NaN	48587	13111	0	0	0	0	50	2	792659	1	1	
ZBP1	181790	562	-4	22778	6475	0	0	0	0	50	1	392224	1	1	
ZBTB1	666489	188	45	37086	8799	0	0	0	0	50	2	424851	1	1	
ZBTB10	239826	369	30	43232	12124	0	0	0	0	50	3	449659	1	1	
ZBTB11	548328	445	16	52997	14245	0	0	0	0	50	0	380898	1	1	
ZBTB12	2485614	188	36	22113	6951	0	0	0	0	50	0	418222	1	1	
ZBTB16	162787	529	-6	33663	9303	0	0	0	0	50	0	451983	1	1	
ZBTB17	856018	170	31	40726	11144	0	0	0	0	50	0	552419	1	1	
ZBTB2	337954	409	23	25438	7175	0	0	0	0	50	0	416507	1	1	
ZBTB20	86308	644	10	36372	10626	0	0	0	0	50	0	476084	1	1	
ZBTB22	1456953	262	30	29813	10276	0	0	0	0	50	0	411845	1	1	
ZBTB24	337228	559	33	36176	9352	0	0	0	0	50	0	498708	1	1	
ZBTB25	670466	221	54	21805	5873	0	0	0	0	50	1	456813	1	1	
ZBTB26	407115	430	26	22302	5628	0	0	0	0	50	0	470708	1	1	
ZBTB3	2405109	248	44	27209	9100	0	0	0	0	50	0	388598	1	1	
ZBTB32	1151198	321	30	23583	7497	0	0	0	0	50	0	375571	1	1	
ZBTB33	588956	NaN	28	33243	9240	0	0	0	0	50	0	334957	1	1	
ZBTB34	367308	322	48	24773	6874	0	0	0	0	50	0	427217	1	1	
ZBTB37	443726	385	13	25879	7511	0	0	0	0	50	0	537320	1	1	
ZBTB38	405071	178	40	59472	15918	0	0	0	0	50	0	370433	1	1	
ZBTB39	2065204	199	34	35077	9926	0	0	0	0	50	0	367493	1	1	
ZBTB4	1906324	206	33	47159	16891	0	0	0	0	50	1	462924	1	1	
ZBTB40	440712	555	28	62622	16926	0	0	0	0	50	2	406987	1	1	
ZBTB41	222912	614	-19	46781	11347	0	0	0	0	50	0	453985	1	1	
ZBTB42	NaN	NaN	NaN	20020	6713	0	0	0	0	50	2	786261	1	1	
ZBTB43	247985	252	46	23478	6090	0	0	0	0	50	0	406532	1	1	
ZBTB44	658636	276	18	22750	6272	0	0	0	0	50	1	390278	1	1	
ZBTB45	2673870	276	11	23947	8435	0	0	0	0	50	0	476175	1	1	
ZBTB46	1125169	202	40	28889	8617	0	0	0	0	50	0	339220	1	1	
ZBTB47	359739	329	38	36981	10563	0	0	0	0	50	0	401779	1	1	
ZBTB48	628180	259	38	34622	9667	0	0	0	0	50	1	443296	1	1	
ZBTB49	146158	506	40	38661	10185	0	0	0	0	50	2	421057	1	1	
ZBTB5	534559	337	36	33355	9443	0	0	0	0	50	0	414295	1	1	
ZBTB6	407115	430	26	21364	5495	0	0	0	0	50	0	470708	1	1	
ZBTB7A	2296242	207	29	28084	8939	0	0	0	0	50	0	507241	1	1	
ZBTB7B	1612870	224	35	25802	8386	0	0	0	0	50	0	363538	1	1	
ZBTB7C	110354	212	61	30282	8904	0	0	0	0	50	1	422296	1	1	
ZBTB8A	1429703	230	21	22232	5845	0	0	0	0	50	0	415268	1	1	
ZBTB8B	NaN	NaN	NaN	24605	6895	0	0	0	0	50	2	786443	1	1	
ZBTB8OS	1441027	144	28	9702	2184	0	0	0	0	50	0	409297	1	1	
ZBTB9	1397665	236	31	22414	7532	0	0	0	0	50	0	400204	1	1	
ZC3H10	2878044	171	40	20755	6734	0	0	0	0	50	1	407526	1	1	
ZC3H11A	521302	280	32	41013	11340	0	0	0	0	50	0	382746	1	1	
ZC3H12A	446254	357	25	28980	9240	0	0	0	0	50	0	326466	1	1	

ZC3H12B	321325	NaN	10	41734	11375	0	0	0	0	50	0	463848	1	1	
ZC3H12C	137968	266	8	44107	12047	0	0	0	0	50	0	399350	1	1	
ZC3H12D	434842	139	40	25347	8337	0	0	0	0	50	1	383068	1	1	
ZC3H13	576966	679	49	78785	21154	0	0	0	0	50	1	249326	1	1	
ZC3H14	169650	686	-1	44436	11466	0	0	0	0	50	0	396515	1	1	
ZC3H15	269890	299	10	22477	5180	0	0	0	0	50	0	351785	1	1	
ZC3H18	626708	184	39	47551	13979	0	0	0	0	50	0	416633	1	1	
ZC3H3	2168942	235	34	45577	15176	0	0	0	0	50	0	447076	1	1	
ZC3H4	1263858	179	37	63931	19397	0	0	0	0	50	0	399707	1	1	
ZC3H6	593451	449	24	59899	15995	0	0	0	0	50	0	406238	1	1	
ZC3H7A	585294	214	41	50694	12306	0	0	0	0	50	1	390544	1	1	
ZC3H7B	1354493	173	58	49763	13699	0	0	0	0	50	0	378357	1	1	
ZC3H8	591586	348	29	15694	3374	0	0	0	0	50	2	414134	1	1	
ZC3HAV1	553735	243	29	45514	12425	0	0	0	0	50	1	460859	1	1	
ZC3HAV1L	553735	243	29	14952	4389	0	0	0	0	50	1	460859	1	1	
ZC3HC1	473377	146	38	25235	7252	0	0	0	0	50	0	345681	1	1	
ZC4H2	98165	NaN	-21	12418	2492	0	0	0	0	50	0	347284	1	1	
ZCCHC10	654533	223	38	8841	2226	0	0	0	0	50	0	489377	1	1	
ZCCHC11	663395	394	20	84511	21623	0	0	0	0	50	0	492674	1	1	
ZCCHC12	234959	NaN	44	19663	5726	0	0	0	0	50	1	450730	1	1	
ZCCHC13	404685	NaN	26	8211	2352	0	0	0	0	50	1	483021	1	1	
ZCCHC14	587162	363	21	46746	14154	0	0	0	0	50	0	462385	1	1	
ZCCHC16	65327	NaN	3	15260	4333	0	0	0	0	50	1	595266	1	1	
ZCCHC17	675993	215	30	12803	3031	0	0	0	0	50	1	326137	1	1	
ZCCHC18	NaN	NaN	NaN	19733	5719	0	0	0	0	50	2	785267	1	1	
ZCCHC2	164923	286	44	57519	17850	0	0	0	0	50	0	411222	1	1	
ZCCHC24	334525	284	46	12110	3388	0	0	0	0	50	0	391384	1	1	
ZCCHC3	1010597	348	24	19341	6216	0	0	0	0	50	0	429198	1	1	
ZCCHC4	233874	611	49	26901	6531	0	0	0	0	50	0	372799	1	1	
ZCCHC5	263052	NaN	20	23345	6643	0	0	0	0	50	0	382459	1	1	
ZCCHC6	292716	429	7	77126	19306	0	0	0	0	50	1	360899	1	1	
ZCCHC7	517331	433	32	28217	6727	0	0	0	0	50	0	395549	1	1	
ZCCHC8	866834	187	42	36127	9569	0	0	0	0	50	1	405251	1	1	
ZCCHC9	148763	777	23	14133	3423	0	0	0	0	50	0	392602	1	1	
ZCRB1	174511	545	18	11697	2625	0	0	0	0	50	0	385112	1	1	
ZCWPW1	1454967	172	57	33677	8554	0	0	0	0	50	0	373324	1	1	
ZCWPW2	67695	922	-13	18928	4235	0	0	0	0	50	2	485289	1	1	
ZDBF2	328087	597	18	117887	30730	0	0	0	0	50	1	526162	1	1	
ZDHHC1	1115833	153	42	23982	7476	0	0	0	0	50	0	471989	1	1	
ZDHHC12	1865107	197	38	13020	4242	0	0	0	0	50	0	470393	1	1	
ZDHHC13	194027	625	11	32326	8267	0	0	0	0	50	1	440342	1	1	
ZDHHC14	272499	402	35	24381	7098	0	0	0	0	50	0	340151	1	1	
ZDHHC15	101818	NaN	-11	19187	4669	0	0	0	0	50	0	532196	1	1	
ZDHHC16	556333	188	42	19145	5509	0	0	0	0	50	1	370916	1	1	
ZDHHC17	181943	605	-12	33096	8127	0	0	0	0	50	0	392238	1	1	
ZDHHC18	1022828	188	30	19152	5985	0	0	0	0	50	0	374269	1	1	
ZDHHC19	1042183	210	51	15442	4676	0	0	0	0	50	0	324268	1	1	
ZDHHC2	223323	568	3	19446	4746	0	0	0	0	50	0	367360	1	1	
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ZNF280A	201933	683	23	26999	7294	0	0	0	0	27	0	226464	1	1	
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ZNF3	1503181	254	41	24787	6377	0	0	0	0	50	0	535297	1	1	
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ZNRF3	693562	326	-13	40901	12460	0	0	0	0	50	0	386022	1	1	
ZNRF4	932785	365	19	20237	6937	0	0	0	0	50	0	413308	1	1	
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ZYG11A	NaN	NaN	NaN	38430	10542	0	0	0	0	50	2	790090	1	1	
ZYG11B	652910	232	28	37730	10297	0	0	0	0	50	1	431949	1	1	

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