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1	69482	69600	118	OR4F5	1
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1	877807	877873	66	SAMD11	9
1	877934	878066	132	SAMD11	10
1	878067	878068	1	SAMD11	10
1	878070	878080	10	SAMD11	10
1	896670	896724	54	KLHL17	2
1	896726	896728	2	KLHL17	2
1	935267	935268	1	HES4	1
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1	955548	955694	146	AGRN	1
1	955720	955758	38	AGRN	1
1	984242	984422	180	AGRN	24
1	984611	984629	18	AGRN	25
1	989928	989936	8	AGRN	35
1	1132946	1133034	88	TTLL10	13
1	1149358	1149397	39	TNFRSF4	1
1	1167654	1167713	59	B3GALT6	1
1	1167733	1167853	120	B3GALT6	1
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1	1181889	1182075	186	FAM132A	1
1	1200204	1200215	11	UBE2J2	2
1	1219462	1219466	4	SCNN1D	5
1	1223355	1223358	3	SCNN1D	12
1	1232009	1232018	9	ACAP3	15
1	1244308	1244320	12	PUSL1	2
1	1244321	1244327	6	PUSL1	2
1	1247601	1247603	2	CPSF3L	15
1	1290483	1290485	2	MXRA8	5
1	1290487	1290488	1	MXRA8	5
1	1290492	1290516	24	MXRA8	5
1	1290619	1290631	12	MXRA8	4
1	1291003	1291136	133	MXRA8	3
1	1292056	1292089	33	MXRA8	2
1	1334399	1334405	6	CCNL2	1
1	1355427	1355489	62	LOC441869	2
1	1355659	1355917	258	LOC441869	2
1	1361505	1361521	16	TMEM88B	1
1	1361523	1361525	2	TMEM88B	1
1	1361527	1361528	1	TMEM88B	1
1	1361635	1361636	1	TMEM88B	1
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1	1361757	1361761	4	TMEM88B	1
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1	1374780	1374838	58 VWA1	3
1	1374841	1374842	1 VWA1	3
1	1374934	1375100	166 VWA1	3
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1	1389751	1389816	65 ATAD3C	4
1	1389830	1389849	19 ATAD3C	4
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1	1407260	1407331	71 ATAD3B	1
1	1407340	1407474	134 ATAD3B	1
1	1412700	1412735	35 ATAD3B	2
1	1420391	1420453	62 ATAD3B	8
1	1447644	1447715	71 ATAD3A	1
1	1447724	1447858	134 ATAD3A	1
1	1452690	1452797	107 ATAD3A	3
1	1453091	1453119	28 ATAD3A	4
1	1535084	1535093	9 LOC643988	1
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1	1564066	1564067	1 MIB2	16
1	1565676	1565731	55 MIB2	20
1	1567593	1567632	39 MMP23B	1
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1	1568206	1568297	91 MMP23B	2
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1	1568446	1568504	58 MMP23B	3
1	1569137	1569192	55 MMP23B	5
1	1569194	1569197	3 MMP23B	5
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1	1569241	1569296	55 MMP23B	5
1	1569363	1569411	48 MMP23B	6
1	1571344	1571345	1 CDK11B	16
1	1571354	1571408	54 CDK11B	16
1	1571456	1571465	9 CDK11B	16
1	1601149	1601159	10 SLC35E2B	6
1	1607573	1607578	5 SLC35E2B	2
1	1634341	1634357	16 CDK11A	19
1	1634380	1634443	63 CDK11A	19
1	1634514	1634711	197 CDK11A	18
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1	1637076	1637173	97 CDK11A	11

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1	1643791	1643844	53 CDK11A	5
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1	1850616	1850709	93 TMEM52	1
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1	1950858	1950935	77 GABRD	1
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1	2238186	2238199	13 SKI	7
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1	2430000	2430040	40 PLCH2	17
1	2430046	2430091	45 PLCH2	17
1	2435356	2435391	35 PLCH2	22
1	2436633	2436642	9 PLCH2	22
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1	2447113	2447123	10 PANK4	10
1	2461003	2461039	36 HES5	3
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1	2520468	2520470	2 C1orf93	6
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1	3347635	3347638	3 PRDM16	15
1	3348706	3348709	3 PRDM16	16
1	3414978	3414998	20 MEGF6	26
1	3415016	3415017	1 MEGF6	26
1	3426440	3426441	1 MEGF6	11
1	3527765	3527767	2 MEGF6	1
1	3541632	3541714	82 TPRG1L	1
1	3541716	3541835	119 TPRG1L	1
1	3679250	3679272	22 CCDC27	6
1	3680002	3680043	41 CCDC27	7
1	3712911	3712987	76 LRRC47	1
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1	3782536	3782553	17 DFFB	3
1	5925272	5925295	23 NPHP4	26
1	6184045	6184054	9 CHD5	31

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1	6208909	6208976	67 CHD5	9
1	6209111	6209140	29 CHD5	9
1	6214766	6214797	31 CHD5	5
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1	6267525	6267526	1 RNF207	2
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1	6309584	6309722	138 GPR153	5
1	6309839	6310056	217 GPR153	5
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1	6485067	6485302	235 ESPN	1
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1	6508696	6508829	133 ESPN	8
1	6508886	6509056	170 ESPN	8
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1	6614244	6614247	3 NOL9	1
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1	8420557	8420671	114 RERE	17
1	8420697	8420731	34 RERE	17
1	8421069	8421070	1 RERE	17
1	9189077	9189091	14 GPR157	1
1	9599775	9599811	36 SLC25A33	1
1	9648984	9649023	39 TMEM201	1
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1	11714371	11714402	31 FBXO2	1
1	11766496	11766521	25 C1orf187	1
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1	13697186	13697302	116 PRAMEF19	2
1	13744740	13745050	310 PRAMEF20	2
1	13747167	13747307	140 PRAMEF20	3
1	13747503	13747738	235 PRAMEF20	3
1	13840040	13840093	53 LRRC38	1
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1	15755084	15755101	17 EFHD2	4
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1	16399911	16399942	31 FAM131C	1
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1	17266563	17266582	19 CROCC	13
1	17266588	17266593	5 CROCC	13
1	17275310	17275426	116 CROCC	19
1	17277485	17277486	1 CROCC	20
1	17277583	17277587	4 CROCC	20
1	17277601	17277622	21 CROCC	20
1	17279807	17279939	132 CROCC	21
1	17279951	17279981	30 CROCC	21
1	17287319	17287630	311 CROCC	27
1	17292942	17292999	57 CROCC	30
1	17297255	17297259	4 CROCC	35

1	17297978	17298005	27 CROCC	36
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1	17298016	17298023	7 CROCC	36
1	17320119	17320121	2 ATP13A2	16
1	17445854	17445869	15 PADI2	1
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1	17764822	17764939	117 RCC2	1
1	17764986	17765015	29 RCC2	1
1	18434618	18434697	79 IGSF21	1
1	19204087	19204098	11 ALDH4A1	10
1	19433430	19433431	1 UBR4	82
1	19615129	19615208	79 AKR7A3	1
1	19638473	19638482	9 AKR7A2	1
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1	19811925	19811937	12 CAPZB	1
1	20209089	20209113	24 OTUD3	1
1	20209121	20209131	10 OTUD3	1
1	20209139	20209142	3 OTUD3	1
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1	20209153	20209186	33 OTUD3	1
1	20879931	20880094	163 FAM43B	1
1	20880342	20880344	2 FAM43B	1
1	20880347	20880348	1 FAM43B	1
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1	20991190	20991206	16 KIF17	15
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1	21044188	21044204	16 KIF17	1
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1	22329523	22329586	63 CELA3A	2
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1	25735169	25735365	196 RHCE	2
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1	27022890	27022985	95 ARID1A	1
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1	27339063	27339096	33 FAM46B	1
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1	27692898	27693001	103 MAP3K6	1
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1	32200806	32200807	1 BAI2	23
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1	44402137	44402196	59 ARTN	3
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1	47882003	47882181	178 FOXE3	1
1	47882726	47882952	226 FOXE3	1
1	47903803	47903806	3 FOXD2	1
1	47903920	47903928	8 FOXD2	1
1	47904066	47904105	39 FOXD2	1
1	47904507	47904508	1 FOXD2	1
1	47904512	47904514	2 FOXD2	1
1	47904549	47904550	1 FOXD2	1
1	47904562	47904601	39 FOXD2	1
1	47904606	47904677	71 FOXD2	1
1	47904813	47904851	38 FOXD2	1
1	47904949	47904958	9 FOXD2	1
1	47905104	47905115	11 FOXD2	1
1	47905118	47905122	4 FOXD2	1
1	48240883	48240927	44 LOC388630	6
1	48240937	48240938	1 LOC388630	6
1	48240943	48240945	2 LOC388630	6
1	48240949	48240954	5 LOC388630	6
1	48240958	48240960	2 LOC388630	6
1	48240964	48241006	42 LOC388630	6
1	48241008	48241027	19 LOC388630	6
1	48878777	48878828	51 SPATA6	4
1	50884715	50884738	23 DMRTA2	2
1	50887101	50887128	27 DMRTA2	1
1	51611391	51611418	27 C1orf185	4
1	51611420	51611422	2 C1orf185	4
1	52880289	52880291	2 PRPF38A	7

1	52880297	52880298	1	PRPF38A	7
1	52927401	52927419	18	ZCCHC11	16
1	53192321	53192360	39	ZYG11B	1
1	53742552	53742558	6	LRP8	5
1	53742561	53742605	44	LRP8	5
1	53793471	53793474	3	LRP8	1
1	53793477	53793490	13	LRP8	1
1	53925355	53925500	145	DMRTB1	1
1	53930337	53930354	17	DMRTB1	3
1	53930355	53930357	2	DMRTB1	3
1	53975517	53975560	43	GLIS1	6
1	54480004	54480023	19	LDLRAD1	3
1	54871621	54871623	2	SSBP3	1
1	55521768	55521857	89	PCSK9	6
1	55524179	55524299	120	PCSK9	9
1	55680493	55680494	1	USP24	1
1	55680495	55680518	23	USP24	1
1	55680605	55680629	24	USP24	1
1	59042761	59042800	39	TACSTD2	1
1	62907874	62907876	2	USP1	3
1	63789000	63789002	2	FOXD3	1
1	63789006	63789007	1	FOXD3	1
1	63789013	63789112	99	FOXD3	1
1	63789535	63789722	187	FOXD3	1
1	63975800	63975857	57	ITGB3BP	2
1	64240084	64240184	100	ROR1	1
1	65210851	65210877	26	RAVER2	1
1	65210937	65211018	81	RAVER2	1
1	67390707	67390710	3	MIER1	1
1	67390712	67390722	10	MIER1	1
1	67581151	67581152	1	C1orf141	3
1	67890611	67890618	7	SERBP1	4
1	67890620	67890621	1	SERBP1	4
1	67890866	67890885	19	SERBP1	3
1	67895810	67895853	43	SERBP1	1
1	68949726	68949778	52	DEPDC1	7
1	70801736	70801787	51	ANKRD13C	2
1	75112346	75112429	83	C1orf173	3
1	75112432	75112481	49	C1orf173	3
1	78206626	78206629	3	USP33	4
1	84644855	84644858	3	PRKACB	2
1	85040095	85040103	8	CTBS	1
1	85666483	85666684	201	SYDE2	1
1	85930732	85930733	1	DDAH1	1
1	86361542	86361543	1	COL24A1	31

1	86590523	86590528	5 COL24A1	3
1	86838109	86838168	59 ODF2L	8
1	87190081	87190093	12 SH3GLB1	5
1	91788534	91788559	25 HFM1	22
1	91861864	91861866	2 HFM1	2
1	91861869	91861870	1 HFM1	2
1	93584885	93584895	10 MTF2	8
1	99127283	99127313	30 SNX7	1
1	1.01E+08	1.01E+08	1 GPR88	1
1	1.03E+08	1.03E+08	1 COL11A1	57
1	1.03E+08	1.03E+08	41 COL11A1	51
1	1.03E+08	1.03E+08	40 COL11A1	25
1	1.04E+08	1.04E+08	11 AMY1A	6
1	1.09E+08	1.09E+08	11 NBPF4	13
1	1.1E+08	1.1E+08	120 SORT1	1
1	1.1E+08	1.1E+08	135 SORT1	1
1	1.1E+08	1.1E+08	1 AMPD2	1
1	1.1E+08	1.1E+08	45 GSTM1	1
1	1.1E+08	1.1E+08	31 GSTM1	2
1	1.1E+08	1.1E+08	64 GSTM1	4
1	1.1E+08	1.1E+08	83 GSTM1	5
1	1.1E+08	1.1E+08	18 GSTM1	6
1	1.1E+08	1.1E+08	27 GSTM1	7
1	1.1E+08	1.1E+08	96 GSTM1	8
1	1.11E+08	1.11E+08	1 FAM40A	1
1	1.11E+08	1.11E+08	78 FAM40A	1
1	1.11E+08	1.11E+08	34 ALX3	1
1	1.11E+08	1.11E+08	15 ALX3	1
1	1.11E+08	1.11E+08	164 ALX3	1
1	1.11E+08	1.11E+08	3 SLC6A17	2
1	1.11E+08	1.11E+08	3 LOC100130	1
1	1.11E+08	1.11E+08	3 SLC6A17	2
1	1.11E+08	1.11E+08	3 LOC100130	1
1	1.11E+08	1.11E+08	48 KCNA3	1
1	1.11E+08	1.11E+08	2 KCNA3	1
1	1.11E+08	1.11E+08	58 KCNA3	1
1	1.11E+08	1.11E+08	3 KCNA3	1
1	1.12E+08	1.12E+08	2 WDR77	1
1	1.12E+08	1.12E+08	2 DDX20	1
1	1.12E+08	1.12E+08	1 DDX20	1
1	1.13E+08	1.13E+08	2 WNT2B	1
1	1.13E+08	1.13E+08	4 WNT2B	1
1	1.13E+08	1.13E+08	3 WNT2B	1
1	1.13E+08	1.13E+08	1 WNT2B	1
1	1.13E+08	1.13E+08	10 PPM1J	1

1	1.15E+08	1.15E+08	22 TRIM33	13
1	1.15E+08	1.15E+08	17 TRIM33	13
1	1.15E+08	1.15E+08	2 TRIM33	13
1	1.15E+08	1.15E+08	68 TRIM33	1
1	1.15E+08	1.15E+08	30 SYCP1	6
1	1.15E+08	1.15E+08	8 SYCP1	10
1	1.15E+08	1.15E+08	5 SYCP1	10
1	1.17E+08	1.17E+08	7 SLC22A15	1
1	1.17E+08	1.17E+08	49 PTGFRN	3
1	1.2E+08	1.2E+08	99 ZNF697	2
1	1.45E+08	1.45E+08	133 PDE4DIP	3
1	1.45E+08	1.45E+08	9 LIX1L	1
1	1.45E+08	1.45E+08	26 LIX1L	1
1	1.46E+08	1.46E+08	4 PEX11B	1
1	1.47E+08	1.47E+08	1 PRKAB2	1
1	1.47E+08	1.47E+08	15 CHD1L	1
1	1.47E+08	1.47E+08	1 CHD1L	17
1	1.47E+08	1.47E+08	7 ACP6	1
1	1.47E+08	1.47E+08	41 GPR89B	9
1	1.5E+08	1.5E+08	12 LOC644634	1
1	1.5E+08	1.5E+08	35 FCGR1A	5
1	1.5E+08	1.5E+08	8 SF3B4	5
1	1.5E+08	1.5E+08	1 TARS2	11
1	1.51E+08	1.51E+08	14 ADAMTSL4	10
1	1.51E+08	1.51E+08	2 ADAMTSL4	10
1	1.51E+08	1.51E+08	34 ARNT	1
1	1.51E+08	1.51E+08	66 SEMA6C	18
1	1.51E+08	1.51E+08	17 SEMA6C	18
1	1.51E+08	1.51E+08	54 PSMD4	7
1	1.51E+08	1.51E+08	5 RFX5	9
1	1.52E+08	1.52E+08	18 TUFT1	3
1	1.52E+08	1.52E+08	2 SNX27	1
1	1.52E+08	1.52E+08	5 SNX27	9
1	1.52E+08	1.52E+08	14 RIIAD1	1
1	1.52E+08	1.52E+08	22 C2CD4D	1
1	1.52E+08	1.52E+08	157 C2CD4D	1
1	1.52E+08	1.52E+08	72 HRNR	2
1	1.52E+08	1.52E+08	131 HRNR	2
1	1.52E+08	1.52E+08	1 FLG	2
1	1.53E+08	1.53E+08	120 LCE3C	1
1	1.53E+08	1.53E+08	31 LCE3C	1
1	1.53E+08	1.53E+08	129 LCE3B	1
1	1.53E+08	1.53E+08	66 LCE3B	1
1	1.53E+08	1.53E+08	48 LCE1D	1
1	1.53E+08	1.53E+08	120 LOR	1

1	1.53E+08	1.53E+08	119 LOR	1
1	1.53E+08	1.53E+08	63 LOR	1
1	1.53E+08	1.53E+08	1 LOR	1
1	1.53E+08	1.53E+08	18 LOR	1
1	1.53E+08	1.53E+08	68 LOR	1
1	1.53E+08	1.53E+08	28 PGLYRP4	5
1	1.54E+08	1.54E+08	48 SNAPIN	1
1	1.54E+08	1.54E+08	3 SNAPIN	1
1	1.54E+08	1.54E+08	122 SLC27A3	1
1	1.54E+08	1.54E+08	66 DENND4B	19
1	1.54E+08	1.54E+08	46 DENND4B	5
1	1.54E+08	1.54E+08	1 DENND4B	5
1	1.54E+08	1.54E+08	43 CRTC2	6
1	1.54E+08	1.54E+08	2 UBAP2L	19
1	1.54E+08	1.54E+08	5 UBAP2L	19
1	1.54E+08	1.54E+08	13 UBAP2L	19
1	1.55E+08	1.55E+08	40 UBE2Q1	1
1	1.55E+08	1.55E+08	7 PBXIP1	5
1	1.55E+08	1.55E+08	25 PYGO2	3
1	1.55E+08	1.55E+08	20 ZBTB7B	1
1	1.55E+08	1.55E+08	6 ADAM15	1
1	1.55E+08	1.55E+08	3 ADAM15	1
1	1.55E+08	1.55E+08	3 ADAM15	1
1	1.55E+08	1.55E+08	1 ADAM15	1
1	1.55E+08	1.55E+08	13 ADAM15	22
1	1.55E+08	1.55E+08	55 MUC1	2
1	1.55E+08	1.55E+08	1 FAM189B	12
1	1.55E+08	1.55E+08	5 FAM189B	12
1	1.55E+08	1.55E+08	6 FAM189B	12
1	1.55E+08	1.55E+08	204 FAM189B	9
1	1.55E+08	1.55E+08	2 FAM189B	6
1	1.55E+08	1.55E+08	3 FAM189B	6
1	1.55E+08	1.55E+08	31 FAM189B	6
1	1.55E+08	1.55E+08	3 FAM189B	6
1	1.55E+08	1.55E+08	1 FAM189B	6
1	1.55E+08	1.55E+08	2 FAM189B	6
1	1.55E+08	1.55E+08	2 FAM189B	6
1	1.55E+08	1.55E+08	47 HCN3	1
1	1.55E+08	1.55E+08	16 HCN3	1
1	1.55E+08	1.55E+08	43 HCN3	2
1	1.55E+08	1.55E+08	10 PKLR	2
1	1.55E+08	1.55E+08	2 RUSC1	1
1	1.55E+08	1.55E+08	86 RUSC1	1
1	1.55E+08	1.55E+08	3 RUSC1	1
1	1.55E+08	1.55E+08	19 RUSC1	1

1	1.56E+08	1.56E+08	20	MSTO1	1
1	1.56E+08	1.56E+08	2	MSTO1	7
1	1.56E+08	1.56E+08	132	GON4L	24
1	1.56E+08	1.56E+08	19	KIAA0907	11
1	1.56E+08	1.56E+08	89	KIAA0907	11
1	1.56E+08	1.56E+08	8	UBQLN4	10
1	1.56E+08	1.56E+08	15	UBQLN4	1
1	1.56E+08	1.56E+08	75	UBQLN4	1
1	1.56E+08	1.56E+08	1	MEX3A	1
1	1.56E+08	1.56E+08	56	LMNA	7
1	1.56E+08	1.56E+08	24	PAQR6	2
1	1.56E+08	1.56E+08	2	SMG5	4
1	1.56E+08	1.56E+08	13	IQGAP3	36
1	1.56E+08	1.56E+08	3	IQGAP3	36
1	1.57E+08	1.57E+08	37	PRCC	1
1	1.57E+08	1.57E+08	2	PRCC	1
1	1.57E+08	1.57E+08	20	NTRK1	8
1	1.57E+08	1.57E+08	45	LRRC71	2
1	1.57E+08	1.57E+08	1	LRRC71	2
1	1.6E+08	1.6E+08	3	DUSP23	1
1	1.6E+08	1.6E+08	2	DUSP23	1
1	1.6E+08	1.6E+08	109	KCNJ9	2
1	1.61E+08	1.61E+08	1	NR1I3	3
1	1.62E+08	1.62E+08	3	FCGR2C	4
1	1.62E+08	1.62E+08	121	FCGR2B	1
1	1.62E+08	1.62E+08	30	FCGR2B	2
1	1.62E+08	1.62E+08	4	FCGR2B	4
1	1.62E+08	1.62E+08	7	FCGR2B	4
1	1.62E+08	1.62E+08	1	FCGR2B	4
1	1.62E+08	1.62E+08	123	FCGR2B	5
1	1.67E+08	1.67E+08	6	GPA33	4
1	1.67E+08	1.67E+08	15	POU2F1	6
1	1.68E+08	1.68E+08	168	CREG1	1
1	1.68E+08	1.68E+08	39	DCAF6	5
1	1.72E+08	1.72E+08	25	PRRC2C	18
1	1.73E+08	1.73E+08	31	FASLG	1
1	1.76E+08	1.76E+08	124	RFWD2	1
1	1.76E+08	1.76E+08	2	RFWD2	1
1	1.76E+08	1.76E+08	3	RFWD2	1
1	1.79E+08	1.79E+08	16	ABL2	12
1	1.79E+08	1.79E+08	3	ABL2	1
1	1.8E+08	1.8E+08	1	NPHS2	1
1	1.8E+08	1.8E+08	78	QSOX1	1
1	1.81E+08	1.81E+08	59	KIAA1614	1
1	1.81E+08	1.81E+08	12	KIAA1614	5

1	1.81E+08	1.81E+08	24 KIAA1614	7
1	1.81E+08	1.81E+08	107 IER5	1
1	1.81E+08	1.81E+08	148 IER5	1
1	1.81E+08	1.81E+08	27 IER5	1
1	1.83E+08	1.83E+08	38 SMG7	2
1	1.86E+08	1.86E+08	90 PRG4	6
1	1.97E+08	1.97E+08	13 CFHR3	3
1	1.97E+08	1.97E+08	82 CFHR3	4
1	1.97E+08	1.97E+08	5 CFHR3	5
1	1.97E+08	1.97E+08	55 CFHR3	6
1	1.97E+08	1.97E+08	116 CFHR1	2
1	1.97E+08	1.97E+08	81 CFHR1	2
1	1.97E+08	1.97E+08	70 CFHR1	3
1	1.97E+08	1.97E+08	186 CFHR1	4
1	1.97E+08	1.97E+08	65 CFHR1	5
1	1.97E+08	1.97E+08	111 CFHR1	5
1	1.97E+08	1.97E+08	206 CFHR1	6
1	1.97E+08	1.97E+08	67 CFHR2	1
1	1.98E+08	1.98E+08	17 C1orf53	1
1	1.99E+08	1.99E+08	100 PTPRC	26
1	2.01E+08	2.01E+08	65 C1orf106	9
1	2.01E+08	2.01E+08	17 C1orf106	9
1	2.01E+08	2.01E+08	1 C1orf106	9
1	2.01E+08	2.01E+08	1 C1orf106	9
1	2.01E+08	2.01E+08	25 KIF21B	24
1	2.01E+08	2.01E+08	3 PKP1	6
1	2.01E+08	2.01E+08	26 PKP1	6
1	2.02E+08	2.02E+08	1 NAV1	1
1	2.02E+08	2.02E+08	3 NAV1	1
1	2.02E+08	2.02E+08	3 NAV1	1
1	2.02E+08	2.02E+08	5 NAV1	1
1	2.02E+08	2.02E+08	10 NAV1	14
1	2.02E+08	2.02E+08	13 IPO9	1
1	2.02E+08	2.02E+08	7 RNPEP	1
1	2.02E+08	2.02E+08	7 RNPEP	1
1	2.02E+08	2.02E+08	121 LGR6	1
1	2.02E+08	2.02E+08	2 LGR6	1
1	2.03E+08	2.03E+08	1 PPFIA4	16
1	2.04E+08	2.04E+08	42 PLEKHA6	13
1	2.06E+08	2.06E+08	19 MFSD4	6
1	2.06E+08	2.06E+08	30 SLC26A9	16
1	2.07E+08	2.07E+08	111 SRGAP2	6
1	2.07E+08	2.07E+08	30 SRGAP2	7
1	2.07E+08	2.07E+08	1 SRGAP2	7
1	2.07E+08	2.07E+08	107 RASSF5	1



1	2.07E+08	2.07E+08	19	MAPKAPK2	1
1	2.07E+08	2.07E+08	12	MAPKAPK2	1
1	2.07E+08	2.07E+08	2	FAIM3	7
1	2.07E+08	2.07E+08	6	FAIM3	7
1	2.07E+08	2.07E+08	2	FAIM3	7
1	2.07E+08	2.07E+08	1	CD55	1
1	2.08E+08	2.08E+08	61	CD55	10
1	2.08E+08	2.08E+08	30	CR1	16
1	2.08E+08	2.08E+08	83	CR1	17
1	2.08E+08	2.08E+08	15	PLXNA2	14
1	2.1E+08	2.1E+08	35	TRAF3IP3	13
1	2.1E+08	2.1E+08	1	TRAF3IP3	13
1	2.1E+08	2.1E+08	52	SYT14	3
1	2.13E+08	2.13E+08	46	NENF	1
1	2.13E+08	2.13E+08	3	NENF	1
1	2.13E+08	2.13E+08	2	NENF	1
1	2.13E+08	2.13E+08	2	NENF	1
1	2.13E+08	2.13E+08	32	NENF	1
1	2.13E+08	2.13E+08	51	BATF3	1
1	2.13E+08	2.13E+08	83	TATDN3	3
1	2.13E+08	2.13E+08	5	FLVCR1	1
1	2.15E+08	2.15E+08	21	PTPN14	18
1	2.16E+08	2.16E+08	7	KCTD3	1
1	2.19E+08	2.19E+08	5	TGFB2	7
1	2.2E+08	2.2E+08	1	RAB3GAP2	17
1	2.21E+08	2.21E+08	1	MOSC2	1
1	2.21E+08	2.21E+08	82	MOSC2	1
1	2.21E+08	2.21E+08	5	MOSC2	1
1	2.21E+08	2.21E+08	40	MOSC1	1
1	2.24E+08	2.24E+08	19	FBXO28	1
1	2.24E+08	2.24E+08	10	FBXO28	1
1	2.24E+08	2.24E+08	1	FBXO28	1
1	2.24E+08	2.24E+08	7	FBXO28	1
1	2.25E+08	2.25E+08	18	DNAH14	26
1	2.26E+08	2.26E+08	15	ENAH	11
1	2.26E+08	2.26E+08	55	ENAH	11
1	2.26E+08	2.26E+08	74	ENAH	7
1	2.26E+08	2.26E+08	14	ENAH	1
1	2.26E+08	2.26E+08	11	LEFTY1	2
1	2.26E+08	2.26E+08	201	LEFTY1	2
1	2.26E+08	2.26E+08	1	LEFTY2	2
1	2.26E+08	2.26E+08	201	LEFTY2	2
1	2.28E+08	2.28E+08	14	WNT9A	1
1	2.28E+08	2.28E+08	59	C1orf35	6
1	2.28E+08	2.28E+08	12	GJC2	1

1	2.28E+08	2.28E+08	150 GJC2	1
1	2.28E+08	2.28E+08	1 GJC2	1
1	2.28E+08	2.28E+08	4 GJC2	1
1	2.28E+08	2.28E+08	76 IBA57	1
1	2.28E+08	2.28E+08	176 OBSCN	1
1	2.28E+08	2.28E+08	10 OBSCN	5
1	2.28E+08	2.28E+08	6 OBSCN	22
1	2.28E+08	2.28E+08	2 OBSCN	27
1	2.28E+08	2.28E+08	16 OBSCN	27
1	2.28E+08	2.28E+08	9 OBSCN	44
1	2.29E+08	2.29E+08	28 OBSCN	79
1	2.29E+08	2.29E+08	21 OBSCN	87
1	2.29E+08	2.29E+08	26 TRIM11	1
1	2.29E+08	2.29E+08	1 TRIM11	1
1	2.29E+08	2.29E+08	6 TRIM11	1
1	2.29E+08	2.29E+08	8 TRIM11	1
1	2.29E+08	2.29E+08	44 RNF187	1
1	2.29E+08	2.29E+08	3 RNF187	1
1	2.29E+08	2.29E+08	1 RNF187	1
1	2.29E+08	2.29E+08	44 RNF187	1
1	2.29E+08	2.29E+08	145 RNF187	1
1	2.29E+08	2.29E+08	86 RHOJ	1
1	2.3E+08	2.3E+08	4 ACTA1	2
1	2.3E+08	2.3E+08	19 NUP133	1
1	2.3E+08	2.3E+08	120 ABCB10	1
1	2.3E+08	2.3E+08	119 ABCB10	1
1	2.3E+08	2.3E+08	178 ABCB10	1
1	2.31E+08	2.31E+08	28 C1orf198	1
1	2.31E+08	2.31E+08	146 TTC13	1
1	2.31E+08	2.31E+08	3 TTC13	1
1	2.31E+08	2.31E+08	2 TTC13	1
1	2.31E+08	2.31E+08	10 TTC13	1
1	2.31E+08	2.31E+08	22 TTC13	1
1	2.31E+08	2.31E+08	200 FAM89A	1
1	2.31E+08	2.31E+08	29 TRIM67	1
1	2.32E+08	2.32E+08	46 EGLN1	1
1	2.32E+08	2.32E+08	84 EGLN1	1
1	2.32E+08	2.32E+08	22 EGLN1	1
1	2.32E+08	2.32E+08	43 DISC1	1
1	2.33E+08	2.33E+08	26 NTPCR	2
1	2.33E+08	2.33E+08	142 KIAA1804	1
1	2.33E+08	2.33E+08	2 KIAA1804	1
1	2.33E+08	2.33E+08	1 KIAA1804	1
1	2.34E+08	2.34E+08	3 KCNK1	1
1	2.34E+08	2.34E+08	1 SLC35F3	3

1	2.34E+08	2.34E+08	16 SLC35F3	3
1	2.35E+08	2.35E+08	1 TARBP1	22
1	2.35E+08	2.35E+08	62 TARBP1	5
1	2.35E+08	2.35E+08	618 TARBP1	1
1	2.35E+08	2.35E+08	7 IRF2BP2	1
1	2.35E+08	2.35E+08	10 IRF2BP2	1
1	2.35E+08	2.35E+08	5 IRF2BP2	1
1	2.35E+08	2.35E+08	1 IRF2BP2	1
1	2.35E+08	2.35E+08	31 IRF2BP2	1
1	2.36E+08	2.36E+08	62 B3GALNT2	1
1	2.36E+08	2.36E+08	9 GPR137B	1
1	2.38E+08	2.38E+08	4 RYR2	80
1	2.4E+08	2.4E+08	2 FMN2	1
1	2.4E+08	2.4E+08	46 FMN2	1
1	2.4E+08	2.4E+08	90 FMN2	5
1	2.42E+08	2.42E+08	97 FH	1
1	2.42E+08	2.42E+08	28 OPN3	1
1	2.42E+08	2.42E+08	13 OPN3	1
1	2.45E+08	2.45E+08	51 FAM36A	1
1	2.45E+08	2.45E+08	7 KIF26B	2
1	2.45E+08	2.45E+08	31 KIF26B	2
1	2.47E+08	2.47E+08	32 SCCPDH	1
1	2.47E+08	2.47E+08	317 C1orf229	1
1	2.48E+08	2.48E+08	38 C1orf150	4
1	2.48E+08	2.48E+08	14 TRIM58	1
1	2.48E+08	2.48E+08	83 TRIM58	1
1	2.49E+08	2.49E+08	4 OR2T34	1
1	2.49E+08	2.49E+08	14 OR2T35	1
1	2.49E+08	2.49E+08	9 OR2T35	1
1	2.49E+08	2.49E+08	1 SH3BP5L	5
1	2.49E+08	2.49E+08	13 SH3BP5L	5
1	2.49E+08	2.49E+08	30 SH3BP5L	5
1	2.49E+08	2.49E+08	8 SH3BP5L	5
1	2.49E+08	2.49E+08	1 SH3BP5L	5
1	2.49E+08	2.49E+08	1 ZNF692	2
1	2.49E+08	2.49E+08	1 ZNF692	2
1	2.49E+08	2.49E+08	5 ZNF692	2
2	46256	46258	2 FAM110C	1
2	46260	46354	94 FAM110C	1
2	287758	287776	18 FAM150B	1
2	287778	287780	2 FAM150B	1
2	287783	287787	4 FAM150B	1
2	287789	287797	8 FAM150B	1
2	287817	287840	23 FAM150B	1
2	946678	946759	81 SNTG2	1

2	1481230	1481250	20 TPO	7
2	1481268	1481272	4 TPO	7
2	1481291	1481294	3 TPO	7
2	1481296	1481307	11 TPO	7
2	1481345	1481347	2 TPO	7
2	3623275	3623279	4 RPS7	1
2	3751587	3751593	6 DCDC2C	2
2	7005532	7005541	9 CMPK2	1
2	7005544	7005646	102 CMPK2	1
2	7005652	7005653	1 CMPK2	1
2	7005761	7005764	3 CMPK2	1
2	7005767	7005797	30 CMPK2	1
2	7005819	7005832	13 CMPK2	1
2	9143664	9143677	13 MBOAT2	1
2	9533688	9533691	3 ASAP2	24
2	9533763	9533764	1 ASAP2	24
2	10220044	10220222	178 CYS1	1
2	10220258	10220355	97 CYS1	1
2	16082607	16082610	3 MYCN	1
2	16082614	16082646	32 MYCN	1
2	16082701	16082721	20 MYCN	1
2	18741757	18741791	34 RDH14	1
2	20147920	20147929	9 WDR35	15
2	20147934	20147944	10 WDR35	15
2	20212189	20212311	122 MATN3	1
2	20212340	20212397	57 MATN3	1
2	20424558	20424633	75 SDC1	1
2	20823697	20823757	60 HS1BP3	6
2	20850787	20850828	41 HS1BP3	1
2	20866995	20867112	117 GDF7	1
2	20867196	20867237	41 GDF7	1
2	20867244	20867248	4 GDF7	1
2	20870828	20870834	6 GDF7	2
2	21266731	21266735	4 APOB	1
2	21266804	21266822	18 APOB	1
2	24232962	24233067	105 MFSD2B	1
2	25610153	25610169	16 DTNB	17
2	26068348	26068353	5 ASXL2	2
2	26068415	26068437	22 ASXL2	2
2	26396085	26396150	65 FAM59B	1
2	26407924	26408110	186 FAM59B	4
2	26699152	26699170	18 OTOF	23
2	27009088	27009169	81 CENPA	1
2	27303754	27303756	2 EMILIN1	3
2	27305598	27305854	256 EMILIN1	4

2	27466279	27466363	84 CAD	44
2	27530703	27530768	65 UCN	1
2	29117560	29117573	13 WDR43	1
2	29117575	29117579	4 WDR43	1
2	29293910	29293951	41 C2orf71	1
2	32235251	32235295	44 MEMO1	1
2	32235306	32235321	15 MEMO1	1
2	32417982	32418027	45 SLC30A6	8
2	33172390	33172466	76 LTBP1	1
2	33172584	33172585	1 LTBP1	1
2	33172587	33172627	40 LTBP1	1
2	36583431	36583538	107 CRIM1	1
2	36825105	36825290	185 FEZ2	1
2	37193480	37193481	1 STRN	1
2	37193484	37193611	127 STRN	1
2	39164500	39164508	8 ARHGEF33	7
2	39187515	39187522	7 ARHGEF33	14
2	39187526	39187527	1 ARHGEF33	14
2	39187537	39187538	1 ARHGEF33	14
2	39187540	39187542	2 ARHGEF33	14
2	39187544	39187565	21 ARHGEF33	14
2	39893110	39893123	13 TMEM178	1
2	42275359	42275384	25 PKDCC	1
2	42275493	42275553	60 PKDCC	1
2	42795881	42795918	37 MTA3	1
2	43451453	43451498	45 ZFP36L2	2
2	44079511	44079533	22 ABCG8	5
2	44222957	44223014	57 LRPPRC	1
2	45879562	45879564	2 PRKCE	1
2	46839433	46839488	55 PIGF	3
2	47278897	47278933	36 TTC7A	18
2	47387926	47387948	22 CALM2	6
2	47797123	47797188	65 KCNK12	1
2	48132623	48132668	45 FBXO11	1
2	48132743	48132786	43 FBXO11	1
2	48982647	48982653	6 LHCGR	1
2	48982664	48982665	1 LHCGR	1
2	48982669	48982676	7 LHCGR	1
2	48982684	48982685	1 LHCGR	1
2	48982687	48982693	6 LHCGR	1
2	48982695	48982815	120 LHCGR	1
2	54197916	54197926	10 PSME4	1
2	54531898	54531906	8 ACYP2	4
2	54531909	54531927	18 ACYP2	4
2	55276934	55276980	46 RTN4	1

2	55276982	55277047	65 RTN4	1
2	55804493	55804497	4 SMEK2	11
2	56411804	56411836	32 CCDC85A	1
2	61147610	61147618	8 REL	9
2	61147704	61147734	30 REL	10
2	61484003	61484030	27 USP34	47
2	61484032	61484067	35 USP34	47
2	61484071	61484090	19 USP34	47
2	61510550	61510575	25 USP34	36
2	62132809	62132819	10 COMMD1	1
2	64681714	64681720	6 LGALSL	1
2	68546349	68546365	16 CNRIP1	1
2	68546449	68546488	39 CNRIP1	1
2	69472457	69472484	27 ANTXR1	18
2	69746152	69746182	30 AAK1	11
2	71017774	71017775	1 FIGLA	1
2	71127747	71127786	39 VAX2	1
2	71127790	71127954	164 VAX2	1
2	71127960	71127988	28 VAX2	1
2	71127993	71127995	2 VAX2	1
2	71205817	71205818	1 ANKRD53	1
2	71892320	71892323	3 DYSF	47
2	73145155	73145158	3 EMX1	1
2	73145162	73145164	2 EMX1	1
2	73145168	73145170	2 EMX1	1
2	73493645	73493651	6 FBXO41	2
2	74374943	74374952	9 BOLA3	1
2	74374957	74375006	49 BOLA3	1
2	74684699	74684701	2 INO80B	5
2	74684703	74684704	1 INO80B	5
2	74684708	74684710	2 INO80B	5
2	74684711	74684713	2 INO80B	5
2	75879263	75879293	30 MRPL19	3
2	75937764	75937812	48 C2orf3	1
2	85662119	85662186	67 SH2D6	1
2	85811609	85811621	12 VAMP5	1
2	86115942	86116033	91 ST3GAL5	1
2	86683581	86683593	12 KDM3A	5
2	86947808	86947813	5 RMND5A	1
2	87088941	87088993	52 CD8B	1
2	88751829	88752047	218 FOXI3	1
2	88887607	88887611	4 EIF2AK3	8
2	88887615	88887627	12 EIF2AK3	8
2	88926593	88926670	77 EIF2AK3	1
2	88926688	88926692	4 EIF2AK3	1

2	88926693	88926714	21 EIF2AK3	1
2	92231306	92231396	90 LOC391405	2
2	95944889	95944892	3 PROM2	10
2	96606904	96606951	47 LOC400986	18
2	96689749	96689753	4 GPAT2	16
2	96692797	96692798	1 GPAT2	8
2	96692826	96692859	33 GPAT2	8
2	96696149	96696287	138 GPAT2	5
2	96795576	96795581	5 ASTL	8
2	96874114	96874118	4 STARD7	1
2	96932089	96932117	28 CIAO1	1
2	97202559	97202572	13 ARID5A	1
2	97216005	97216006	1 ARID5A	5
2	97426780	97426793	13 CNNM4	1
2	97482010	97482065	55 CNNM3	1
2	97482267	97482307	40 CNNM3	1
2	97482453	97482573	120 CNNM3	1
2	97482615	97482720	105 CNNM3	1
2	97508097	97508104	7 ANKRD23	2
2	97827859	97827880	21 ANKRD36	18
2	98128187	98128199	12 ANKRD36B	39
2	98152926	98152964	38 ANKRD36B	33
2	98162176	98162206	30 ANKRD36B	24
2	98612063	98612068	5 TMEM131	1
2	98612070	98612079	9 TMEM131	1
2	99438315	99438333	18 C2orf55	6
2	99439096	99439100	4 C2orf55	6
2	99439104	99439124	20 C2orf55	6
2	99439177	99439275	98 C2orf55	6
2	99439676	99439678	2 C2orf55	6
2	99439687	99439695	8 C2orf55	6
2	99439698	99439820	122 C2orf55	6
2	1E+08	1E+08	2 AFF3	13
2	1E+08	1E+08	1 AFF3	13
2	1E+08	1E+08	2 AFF3	13
2	1.01E+08	1.01E+08	49 AFF3	1
2	1.01E+08	1.01E+08	120 LONRF2	1
2	1.01E+08	1.01E+08	92 LONRF2	1
2	1.02E+08	1.02E+08	5 TBC1D8	1
2	1.02E+08	1.02E+08	111 C2orf29	1
2	1.02E+08	1.02E+08	140 CREG2	1
2	1.02E+08	1.02E+08	50 CREG2	1
2	1.02E+08	1.02E+08	2 CREG2	1
2	1.05E+08	1.05E+08	78 POU3F3	1
2	1.05E+08	1.05E+08	34 POU3F3	1

2	1.05E+08	1.05E+08	225 POU3F3	1
2	1.05E+08	1.05E+08	299 POU3F3	1
2	1.09E+08	1.09E+08	2 RANBP2	1
2	1.09E+08	1.09E+08	68 RANBP2	1
2	1.09E+08	1.09E+08	7 CCDC138	2
2	1.1E+08	1.1E+08	39 10-Sep	1
2	1.1E+08	1.1E+08	95 ANKRD57	1
2	1.1E+08	1.1E+08	4 ANKRD57	1
2	1.1E+08	1.1E+08	41 ANKRD57	1
2	1.1E+08	1.1E+08	43 ANKRD57	1
2	1.1E+08	1.1E+08	3 ANKRD57	1
2	1.11E+08	1.11E+08	26 RGPD5	1
2	1.11E+08	1.11E+08	75 LOC100287	5
2	1.11E+08	1.11E+08	22 RGPD6	1
2	1.13E+08	1.13E+08	35 RGPD8	1
2	1.14E+08	1.14E+08	2 PSD4	13
2	1.14E+08	1.14E+08	2 PSD4	13
2	1.14E+08	1.14E+08	27 PSD4	15
2	1.15E+08	1.15E+08	2 ACTR3	1
2	1.16E+08	1.16E+08	64 DPP10	1
2	1.2E+08	1.2E+08	55 EN1	1
2	1.2E+08	1.2E+08	47 EN1	1
2	1.2E+08	1.2E+08	4 EN1	1
2	1.2E+08	1.2E+08	85 C1QL2	1
2	1.2E+08	1.2E+08	1 C1QL2	1
2	1.2E+08	1.2E+08	1 C1QL2	1
2	1.2E+08	1.2E+08	4 C1QL2	1
2	1.2E+08	1.2E+08	1 C1QL2	1
2	1.2E+08	1.2E+08	30 TMEM37	1
2	1.21E+08	1.21E+08	34 INHBB	1
2	1.21E+08	1.21E+08	105 INHBB	1
2	1.22E+08	1.22E+08	2 GLI2	13
2	1.22E+08	1.22E+08	155 GLI2	13
2	1.22E+08	1.22E+08	2 GLI2	13
2	1.27E+08	1.27E+08	16 GYPC	1
2	1.28E+08	1.28E+08	2 BIN1	3
2	1.28E+08	1.28E+08	12 MYO7B	32
2	1.28E+08	1.28E+08	92 LIMS2	1
2	1.28E+08	1.28E+08	178 SFT2D3	1
2	1.28E+08	1.28E+08	2 SFT2D3	1
2	1.28E+08	1.28E+08	153 SFT2D3	1
2	1.29E+08	1.29E+08	5 UGGT1	1
2	1.29E+08	1.29E+08	59 HS6ST1	1
2	1.29E+08	1.29E+08	109 HS6ST1	1
2	1.29E+08	1.29E+08	35 HS6ST1	1



2	1.31E+08	1.31E+08	2 CCDC74B	1
2	1.31E+08	1.31E+08	6 CCDC74B	1
2	1.31E+08	1.31E+08	26 SMPD4	16
2	1.31E+08	1.31E+08	60 SMPD4	14
2	1.31E+08	1.31E+08	37 SMPD4	14
2	1.31E+08	1.31E+08	10 SMPD4	12
2	1.31E+08	1.31E+08	30 SMPD4	8
2	1.31E+08	1.31E+08	82 MZT2B	1
2	1.31E+08	1.31E+08	27 MZT2B	2
2	1.31E+08	1.31E+08	12 TUBA3E	1
2	1.31E+08	1.31E+08	35 CCDC115	3
2	1.31E+08	1.31E+08	22 PTPN18	1
2	1.31E+08	1.31E+08	13 PTPN18	1
2	1.31E+08	1.31E+08	48 CFC1B	3
2	1.31E+08	1.31E+08	113 CFC1B	4
2	1.31E+08	1.31E+08	52 CFC1B	5
2	1.31E+08	1.31E+08	8 CFC1B	5
2	1.31E+08	1.31E+08	15 CFC1	5
2	1.31E+08	1.31E+08	113 CFC1	4
2	1.32E+08	1.32E+08	2 CCDC74A	4
2	1.35E+08	1.35E+08	124 TMEM163	1
2	1.35E+08	1.35E+08	55 TMEM163	1
2	1.52E+08	1.52E+08	3 NEB	110
2	1.52E+08	1.52E+08	3 NEB	110
2	1.53E+08	1.53E+08	2 ARL5A	4
2	1.53E+08	1.53E+08	12 ARL5A	2
2	1.53E+08	1.53E+08	52 ARL5A	2
2	1.53E+08	1.53E+08	72 CACNB4	1
2	1.53E+08	1.53E+08	54 FMNL2	15
2	1.6E+08	1.6E+08	22 PKP4	13
2	1.61E+08	1.61E+08	22 PLA2R1	1
2	1.65E+08	1.65E+08	90 GRB14	1
2	1.67E+08	1.67E+08	11 SCN7A	18
2	1.67E+08	1.67E+08	1 SCN7A	18
2	1.67E+08	1.67E+08	52 SCN7A	18
2	1.69E+08	1.69E+08	121 STK39	1
2	1.7E+08	1.7E+08	15 NOSTRIN	9
2	1.7E+08	1.7E+08	30 NOSTRIN	17
2	1.7E+08	1.7E+08	1 SPC25	6
2	1.7E+08	1.7E+08	37 PPIG	4
2	1.71E+08	1.71E+08	104 UBR3	1
2	1.71E+08	1.71E+08	21 UBR3	1
2	1.71E+08	1.71E+08	5 MYO3B	15
2	1.72E+08	1.72E+08	32 SP5	2
2	1.72E+08	1.72E+08	39 SP5	2

2	1.72E+08	1.72E+08	6 SP5	2
2	1.72E+08	1.72E+08	9 SP5	2
2	1.72E+08	1.72E+08	1 SP5	2
2	1.72E+08	1.72E+08	56 TLK1	7
2	1.72E+08	1.72E+08	13 TLK1	1
2	1.74E+08	1.74E+08	86 RAPGEF4	10
2	1.74E+08	1.74E+08	30 CDCA7	1
2	1.75E+08	1.75E+08	64 SP3	3
2	1.75E+08	1.75E+08	95 SP9	2
2	1.75E+08	1.75E+08	6 CIR1	6
2	1.75E+08	1.75E+08	46 CIR1	6
2	1.75E+08	1.75E+08	16 GPR155	6
2	1.75E+08	1.75E+08	20 WIPF1	3
2	1.77E+08	1.77E+08	50 KIAA1715	5
2	1.77E+08	1.77E+08	1 EVX2	3
2	1.77E+08	1.77E+08	5 EVX2	3
2	1.77E+08	1.77E+08	46 EVX2	3
2	1.77E+08	1.77E+08	164 EVX2	3
2	1.77E+08	1.77E+08	46 EVX2	3
2	1.77E+08	1.77E+08	16 HOXD13	1
2	1.77E+08	1.77E+08	2 HOXD13	1
2	1.77E+08	1.77E+08	30 HOXD11	1
2	1.77E+08	1.77E+08	6 HOXD11	1
2	1.77E+08	1.77E+08	2 HOXD11	1
2	1.77E+08	1.77E+08	7 HOXD11	1
2	1.77E+08	1.77E+08	48 HOXD11	1
2	1.78E+08	1.78E+08	54 HNRNPA3	1
2	1.9E+08	1.9E+08	4 COL3A1	8
2	1.9E+08	1.9E+08	2 COL3A1	8
2	1.92E+08	1.92E+08	35 GLS	1
2	1.92E+08	1.92E+08	46 GLS	1
2	1.99E+08	1.99E+08	80 PLCL1	1
2	2.02E+08	2.02E+08	16 CASP10	8
2	2.03E+08	2.03E+08	1 FAM117B	1
2	2.04E+08	2.04E+08	140 FAM117B	1
2	2.04E+08	2.04E+08	2 FAM117B	1
2	2.04E+08	2.04E+08	10 NBEAL1	7
2	2.04E+08	2.04E+08	1 RAPH1	13
2	2.04E+08	2.04E+08	2 RAPH1	13
2	2.04E+08	2.04E+08	2 RAPH1	13
2	2.04E+08	2.04E+08	1 RAPH1	13
2	2.04E+08	2.04E+08	52 RAPH1	13
2	2.04E+08	2.04E+08	4 RAPH1	13
2	2.04E+08	2.04E+08	2 RAPH1	13
2	2.04E+08	2.04E+08	26 RAPH1	13

2	2.04E+08	2.04E+08	34 RAPH1	13
2	2.07E+08	2.07E+08	36 ADAM23	1
2	2.07E+08	2.07E+08	80 ADAM23	1
2	2.11E+08	2.11E+08	1 ACADL	1
2	2.16E+08	2.16E+08	15 ATIC	1
2	2.17E+08	2.17E+08	121 IGFBP2	1
2	2.17E+08	2.17E+08	60 IGFBP2	1
2	2.19E+08	2.19E+08	4 TMBIM1	1
2	2.19E+08	2.19E+08	1 PNKD	6
2	2.2E+08	2.2E+08	4 CDK5R2	1
2	2.2E+08	2.2E+08	2 CDK5R2	1
2	2.2E+08	2.2E+08	1 CDK5R2	1
2	2.2E+08	2.2E+08	135 FEV	3
2	2.2E+08	2.2E+08	9 FAM134A	1
2	2.2E+08	2.2E+08	108 FAM134A	1
2	2.2E+08	2.2E+08	4 PTPRN	19
2	2.2E+08	2.2E+08	8 DES	1
2	2.2E+08	2.2E+08	5 SPEG	1
2	2.2E+08	2.2E+08	65 SPEG	1
2	2.2E+08	2.2E+08	141 SPEG	4
2	2.2E+08	2.2E+08	2 SPEG	4
2	2.2E+08	2.2E+08	1 SPEG	4
2	2.2E+08	2.2E+08	1 SPEG	4
2	2.2E+08	2.2E+08	2 SPEG	4
2	2.2E+08	2.2E+08	2 SPEG	4
2	2.2E+08	2.2E+08	17 SPEG	4
2	2.2E+08	2.2E+08	2 SPEG	4
2	2.2E+08	2.2E+08	10 SPEG	4
2	2.2E+08	2.2E+08	6 SPEG	7
2	2.2E+08	2.2E+08	17 SPEG	7
2	2.2E+08	2.2E+08	87 SPEG	30
2	2.2E+08	2.2E+08	2 SPEG	30
2	2.2E+08	2.2E+08	3 SPEG	30
2	2.2E+08	2.2E+08	90 SPEG	30
2	2.2E+08	2.2E+08	1 SPEG	30
2	2.2E+08	2.2E+08	2 SPEG	30
2	2.2E+08	2.2E+08	2 SPEG	30
2	2.2E+08	2.2E+08	13 SPEG	30
2	2.2E+08	2.2E+08	2 SPEG	41
2	2.2E+08	2.2E+08	9 ACCN4	1
2	2.2E+08	2.2E+08	35 OBSL1	17
2	2.2E+08	2.2E+08	48 OBSL1	1
2	2.2E+08	2.2E+08	6 OBSL1	1
2	2.2E+08	2.2E+08	3 SLC4A3	1
2	2.2E+08	2.2E+08	2 SLC4A3	3

2	2.2E+08	2.2E+08	5 SLC4A3	3
2	2.23E+08	2.23E+08	23 SGPP2	1
2	2.24E+08	2.24E+08	45 FARSB	4
2	2.24E+08	2.24E+08	4 MOGAT1	1
2	2.25E+08	2.25E+08	7 AP1S3	1
2	2.28E+08	2.28E+08	2 COL4A4	24
2	2.28E+08	2.28E+08	96 COL4A3	1
2	2.31E+08	2.31E+08	228 DNER	1
2	2.31E+08	2.31E+08	118 SP140L	16
2	2.31E+08	2.31E+08	42 SP140L	18
2	2.32E+08	2.32E+08	178 C2orf72	1
2	2.32E+08	2.32E+08	287 C2orf72	1
2	2.32E+08	2.32E+08	20 B3GNT7	1
2	2.33E+08	2.33E+08	36 ALPPL2	8
2	2.33E+08	2.33E+08	50 ALPPL2	8
2	2.33E+08	2.33E+08	58 ALPPL2	9
2	2.33E+08	2.33E+08	114 ALPPL2	9
2	2.33E+08	2.33E+08	32 ECEL1	1
2	2.33E+08	2.33E+08	1 PRSS56	8
2	2.33E+08	2.33E+08	119 EFHD1	1
2	2.33E+08	2.33E+08	26 EFHD1	1
2	2.34E+08	2.34E+08	71 GIGYF2	4
2	2.34E+08	2.34E+08	23 GIGYF2	4
2	2.34E+08	2.34E+08	24 GIGYF2	4
2	2.34E+08	2.34E+08	13 DGKD	1
2	2.35E+08	2.35E+08	13 HJURP	1
2	2.37E+08	2.37E+08	373 ASB18	4
2	2.37E+08	2.37E+08	119 ASB18	3
2	2.37E+08	2.37E+08	62 ASB18	3
2	2.39E+08	2.39E+08	61 RAMP1	1
2	2.39E+08	2.39E+08	3 SCLY	1
2	2.39E+08	2.39E+08	26 SCLY	1
2	2.39E+08	2.39E+08	4 SCLY	1
2	2.39E+08	2.39E+08	1 SCLY	6
2	2.39E+08	2.39E+08	72 ESPNL	2
2	2.39E+08	2.39E+08	8 ESPNL	3
2	2.39E+08	2.39E+08	60 KLHL30	2
2	2.39E+08	2.39E+08	6 ILKAP	1
2	2.39E+08	2.39E+08	91 HES6	3
2	2.39E+08	2.39E+08	20 TRAF3IP1	1
2	2.39E+08	2.39E+08	2 TRAF3IP1	8
2	2.39E+08	2.39E+08	25 TRAF3IP1	8
2	2.39E+08	2.39E+08	12 ASB1	1
2	2.39E+08	2.39E+08	2 ASB1	1
2	2.4E+08	2.4E+08	41 HDAC4	14

2	2.41E+08	2.41E+08	14	NDUFA10	1
2	2.41E+08	2.41E+08	116	PRR21	1
2	2.41E+08	2.41E+08	20	GPC1	1
2	2.42E+08	2.42E+08	73	DUSP28	1
2	2.42E+08	2.42E+08	141	DUSP28	1
2	2.42E+08	2.42E+08	197	RNPEPL1	1
2	2.42E+08	2.42E+08	37	RNPEPL1	1
2	2.42E+08	2.42E+08	25	RNPEPL1	1
2	2.42E+08	2.42E+08	2	CAPN10	8
2	2.42E+08	2.42E+08	8	CAPN10	8
2	2.42E+08	2.42E+08	3	CAPN10	8
2	2.42E+08	2.42E+08	11	AQP12A	2
2	2.42E+08	2.42E+08	100	AQP12A	2
2	2.42E+08	2.42E+08	68	KIF1A	20
2	2.42E+08	2.42E+08	2	LOC728763	10
2	2.42E+08	2.42E+08	1	LOC728763	10
2	2.42E+08	2.42E+08	63	LOC728763	10
2	2.42E+08	2.42E+08	16	LOC728763	25
2	2.42E+08	2.42E+08	30	SNED1	25
2	2.42E+08	2.42E+08	99	ANO7	13
2	2.42E+08	2.42E+08	8	ANO7	21
3	8607266	8607268	2	LMCD1	5
3	9691263	9691264	1	MTMR14	1
3	9691305	9691329	24	MTMR14	1
3	9851686	9851736	50	TTLL3	1
3	9851753	9851763	10	TTLL3	1
3	9851928	9851985	57	TTLL3	1
3	9852030	9852083	53	TTLL3	1
3	9879866	9879867	1	RPUSD3	9
3	9879877	9879888	11	RPUSD3	9
3	9990800	9990801	1	PRRT3	1
3	10183527	10183528	1	VHL	1
3	10857946	10858039	93	SLC6A11	1
3	12046121	12046142	21	SYN2	1
3	12046232	12046240	8	SYN2	1
3	12046257	12046413	156	SYN2	2
3	12851792	12851800	8	CAND2	5
3	13521843	13521854	11	HDAC11	1
3	14756898	14756920	22	C3orf20	7
3	16636844	16636863	19	DAZL	7
3	16636878	16636897	19	DAZL	7
3	16926532	16926671	139	PLCL2	1
3	16926677	16926679	2	PLCL2	1
3	20081965	20081982	17	KAT2B	1
3	20082081	20082100	19	KAT2B	1

3	25670344	25670345	1 TOP2B	15
3	27763066	27763112	46 EOMES	1
3	27763113	27763127	14 EOMES	1
3	27763440	27763450	10 EOMES	1
3	32022493	32022505	12 OSBPL10	1
3	32022511	32022676	165 OSBPL10	1
3	32280461	32280462	1 CMTM8	1
3	32433398	32433407	9 CMTM7	1
3	32571771	32571825	54 DYNCL1I1	10
3	32859740	32859772	32 TRIM71	1
3	33106958	33106969	11 GLB1	5
3	33106971	33106973	2 GLB1	5
3	33156036	33156045	9 CRTAP	1
3	33260173	33260192	19 SUSD5	1
3	33260194	33260200	6 SUSD5	1
3	33260233	33260240	7 SUSD5	1
3	33260241	33260246	5 SUSD5	1
3	33260248	33260263	15 SUSD5	1
3	33260265	33260286	21 SUSD5	1
3	37903686	37903774	88 CTDSPL	1
3	38178395	38178402	7 ACAA1	1
3	38524037	38524048	11 ACVR2B	10
3	40192664	40192680	16 MYRIP	3
3	42305084	42305085	1 CCK	1
3	42544223	42544310	87 VIPR1	1
3	42700887	42700892	5 ZBTB47	1
3	42700895	42700897	2 ZBTB47	1
3	42705984	42706075	91 ZBTB47	5
3	43607215	43607224	9 ANO10	7
3	45266681	45266729	48 TMEM158	1
3	45267007	45267021	14 TMEM158	1
3	45267338	45267344	6 TMEM158	1
3	45267346	45267351	5 TMEM158	1
3	45267354	45267357	3 TMEM158	1
3	45267358	45267359	1 TMEM158	1
3	45267369	45267371	2 TMEM158	1
3	45267375	45267477	102 TMEM158	1
3	45267510	45267524	14 TMEM158	1
3	46009137	46009138	1 FYCO1	7
3	46009139	46009150	11 FYCO1	7
3	46728597	46728598	1 ALS2CL	4
3	47021347	47021407	60 NBEAL2	1
3	47462039	47462063	24 SCAP	11
3	47462070	47462074	4 SCAP	11
3	47620136	47620141	5 CSPG5	1

3	47823253	47823254	1 SMARCC1	1
3	48451334	48451335	1 PLXNB1	30
3	48482024	48482043	19 CCDC72	3
3	48677848	48677854	6 CELSR3	34
3	48719159	48719208	49 NCKIPSD	5
3	48720331	48720360	29 NCKIPSD	2
3	49027685	49027741	56 P4HTM	1
3	49395619	49395661	42 GPX1	1
3	49395662	49395683	21 GPX1	1
3	49592031	49592075	44 BSN	1
3	49592130	49592250	120 BSN	1
3	49723741	49723742	1 MST1	8
3	50306690	50306691	1 SEMA3B	1
3	50312269	50312328	59 SEMA3B	12
3	50312330	50312350	20 SEMA3B	12
3	50312353	50312370	17 SEMA3B	12
3	50402092	50402159	67 CACNA2D2	39
3	50540644	50540859	215 CACNA2D2	1
3	51422798	51422872	74 MANF	1
3	51428826	51428839	13 RBM15B	1
3	51428852	51429167	315 RBM15B	1
3	51429513	51429566	53 RBM15B	1
3	51429570	51429624	54 RBM15B	1
3	51429625	51429627	2 RBM15B	1
3	51989926	51990112	186 GPR62	1
3	51990199	51990208	9 GPR62	1
3	51990213	51990222	9 GPR62	1
3	51990228	51990232	4 GPR62	1
3	51995240	51995243	3 PCBP4	1
3	51995245	51995247	2 PCBP4	1
3	51995251	51995256	5 PCBP4	1
3	51995258	51995261	3 PCBP4	1
3	52009220	52009225	5 ABHD14A	1
3	52090243	52090245	2 DUSP7	1
3	52090301	52090387	86 DUSP7	1
3	52279910	52279951	41 PPM1M	1
3	52279954	52279956	2 PPM1M	1
3	52279957	52279961	4 PPM1M	1
3	52478975	52478977	2 SEMA3G	1
3	52478979	52478984	5 SEMA3G	1
3	52478988	52479048	60 SEMA3G	1
3	52562648	52562653	5 NT5DC2	4
3	52567616	52567657	41 NT5DC2	1
3	52567671	52567758	87 NT5DC2	1
3	52783794	52783850	56 NEK4	8

3	52804665	52804680	15 NEK4	1
3	52831130	52831131	1 ITIH3	5
3	52831237	52831288	51 ITIH3	5
3	53752754	53752756	2 CACNA1D	11
3	54156736	54156784	48 CACNA2D3	1
3	56697564	56697605	41 FAM208A	8
3	57388114	57388152	38 DNAH12	43
3	57620346	57620354	8 FAM116A	14
3	57620426	57620428	2 FAM116A	13
3	57620472	57620501	29 FAM116A	13
3	58109362	58109422	60 FLNB	21
3	62860589	62860614	25 CADPS	1
3	63825327	63825454	127 THOC7	2
3	63849458	63849466	8 THOC7	1
3	63849470	63849471	1 THOC7	1
3	63898310	63898312	2 ATXN7	1
3	64673214	64673338	124 ADAMTS9	1
3	65607663	65607666	3 MAG11	2
3	69105008	69105025	17 UBA3	17
3	69105030	69105037	7 UBA3	17
3	71774430	71774434	4 EIF4E3	1
3	71774497	71774523	26 EIF4E3	1
3	71803233	71803236	3 GPR27	1
3	71803637	71803643	6 GPR27	1
3	71803653	71803670	17 GPR27	1
3	72881534	72881535	1 SHQ1	5
3	72937380	72937426	46 GXYLT2	1
3	72937545	72937577	32 GXYLT2	1
3	73673249	73673253	4 PDZRN3	1
3	73673507	73673508	1 PDZRN3	1
3	75787713	75787745	32 ZNF717	4
3	75788000	75788018	18 ZNF717	4
3	75790422	75790524	102 ZNF717	3
3	75790817	75790825	8 ZNF717	2
3	81810657	81810662	5 GBE1	1
3	81810667	81810671	4 GBE1	1
3	93643092	93643113	21 PROS1	3
3	98312116	98312117	1 CPOX	1
3	98312119	98312166	47 CPOX	1
3	98312213	98312214	1 CPOX	1
3	98312217	98312289	72 CPOX	1
3	98312291	98312293	2 CPOX	1
3	98312297	98312298	1 CPOX	1
3	1E+08	1E+08	16 NIT2	1
3	1.02E+08	1.02E+08	25 NFKBIZ	1



3	1.08E+08	1.08E+08	55 CD47	1
3	1.09E+08	1.09E+08	1 DPPA4	7
3	1.13E+08	1.13E+08	12 CD200R1	7
3	1.19E+08	1.19E+08	18 C3orf15	1
3	1.2E+08	1.2E+08	2 NR1I2	7
3	1.2E+08	1.2E+08	2 LRRC58	1
3	1.2E+08	1.2E+08	1 LRRC58	1
3	1.2E+08	1.2E+08	1 LRRC58	1
3	1.2E+08	1.2E+08	21 LRRC58	1
3	1.22E+08	1.22E+08	1 ILDR1	2
3	1.22E+08	1.22E+08	1 CCDC58	1
3	1.23E+08	1.23E+08	108 DIRC2	1
3	1.23E+08	1.23E+08	40 DIRC2	1
3	1.23E+08	1.23E+08	19 SEMA5B	21
3	1.23E+08	1.23E+08	4 PDIA5	1
3	1.23E+08	1.23E+08	38 ADCY5	1
3	1.23E+08	1.23E+08	39 ADCY5	1
3	1.23E+08	1.23E+08	59 PTPLB	1
3	1.24E+08	1.24E+08	1 ITGB5	12
3	1.25E+08	1.25E+08	25 ITGB5	1
3	1.25E+08	1.25E+08	81 HEG1	1
3	1.25E+08	1.25E+08	95 HEG1	1
3	1.25E+08	1.25E+08	12 SNX4	1
3	1.26E+08	1.26E+08	6 CCDC37	7
3	1.26E+08	1.26E+08	53 ZXDC	1
3	1.26E+08	1.26E+08	4 CHST13	1
3	1.26E+08	1.26E+08	10 CHST13	1
3	1.26E+08	1.26E+08	5 CHST13	1
3	1.26E+08	1.26E+08	2 CHST13	1
3	1.26E+08	1.26E+08	3 CHST13	1
3	1.26E+08	1.26E+08	3 CHST13	1
3	1.26E+08	1.26E+08	1 TXNRD3	9
3	1.26E+08	1.26E+08	1 TXNRD3	9
3	1.26E+08	1.26E+08	12 TXNRD3	1
3	1.26E+08	1.26E+08	1 TXNRD3	1
3	1.26E+08	1.26E+08	1 TXNRD3	1
3	1.26E+08	1.26E+08	9 CHCHD6	1
3	1.27E+08	1.27E+08	3 PLXNA1	5
3	1.27E+08	1.27E+08	4 PLXNA1	19
3	1.27E+08	1.27E+08	39 PODXL2	1
3	1.28E+08	1.28E+08	23 EEFSEC	1
3	1.29E+08	1.29E+08	2 CCDC48	2
3	1.29E+08	1.29E+08	1 COPG	12
3	1.29E+08	1.29E+08	53 COPG	12
3	1.29E+08	1.29E+08	6 H1FX	1

3	1.29E+08	1.29E+08	1 H1FX	1
3	1.29E+08	1.29E+08	14 H1FOO	2
3	1.29E+08	1.29E+08	3 PLXND1	4
3	1.29E+08	1.29E+08	15 PLXND1	4
3	1.29E+08	1.29E+08	47 PLXND1	2
3	1.29E+08	1.29E+08	3 PLXND1	2
3	1.29E+08	1.29E+08	1 PLXND1	2
3	1.29E+08	1.29E+08	87 PLXND1	1
3	1.29E+08	1.29E+08	1 PLXND1	1
3	1.29E+08	1.29E+08	1 PLXND1	1
3	1.29E+08	1.29E+08	16 PLXND1	1
3	1.29E+08	1.29E+08	4 PLXND1	1
3	1.31E+08	1.31E+08	10 NUDT16	1
3	1.31E+08	1.31E+08	2 NUDT16	1
3	1.33E+08	1.33E+08	69 CDV3	1
3	1.34E+08	1.34E+08	140 RYK	1
3	1.39E+08	1.39E+08	145 FOXL2	1
3	1.39E+08	1.39E+08	75 PRR23A	1
3	1.39E+08	1.39E+08	33 PRR23A	1
3	1.39E+08	1.39E+08	37 PRR23A	1
3	1.39E+08	1.39E+08	5 PRR23A	1
3	1.39E+08	1.39E+08	85 PRR23B	1
3	1.39E+08	1.39E+08	21 PRR23B	1
3	1.39E+08	1.39E+08	1 PRR23B	1
3	1.39E+08	1.39E+08	10 PRR23C	1
3	1.4E+08	1.4E+08	33 CLSTN2	1
3	1.4E+08	1.4E+08	29 CLSTN2	1
3	1.41E+08	1.41E+08	50 SLC25A36	1
3	1.41E+08	1.41E+08	11 RASA2	1
3	1.41E+08	1.41E+08	34 RASA2	1
3	1.42E+08	1.42E+08	5 GK5	1
3	1.43E+08	1.43E+08	72 CHST2	1
3	1.49E+08	1.49E+08	52 CP	13
3	1.5E+08	1.5E+08	17 RNF13	2
3	1.5E+08	1.5E+08	4 RNF13	2
3	1.5E+08	1.5E+08	11 TMEM183B	1
3	1.5E+08	1.5E+08	1 TSC22D2	1
3	1.5E+08	1.5E+08	1 TSC22D2	1
3	1.5E+08	1.5E+08	51 SIAH2	1
3	1.57E+08	1.57E+08	1 VEPH1	6
3	1.57E+08	1.57E+08	1 PTX3	2
3	1.57E+08	1.57E+08	164 PTX3	2
3	1.58E+08	1.58E+08	60 SHOX2	2
3	1.58E+08	1.58E+08	12 RARRES1	1
3	1.59E+08	1.59E+08	1 MFSD1	6

3	1.59E+08	1.59E+08	3 SCHIP1	2
3	1.59E+08	1.59E+08	3 IQCJ-SCHIP:	5
3	1.59E+08	1.59E+08	3 SCHIP1	2
3	1.59E+08	1.59E+08	3 IQCJ-SCHIP:	5
3	1.59E+08	1.59E+08	12 SCHIP1	2
3	1.59E+08	1.59E+08	12 IQCJ-SCHIP:	5
3	1.59E+08	1.59E+08	12 SCHIP1	2
3	1.59E+08	1.59E+08	12 IQCJ-SCHIP:	5
3	1.6E+08	1.6E+08	41 SMC4	1
3	1.6E+08	1.6E+08	4 SMC4	9
3	1.6E+08	1.6E+08	40 KPNA4	10
3	1.6E+08	1.6E+08	38 KPNA4	5
3	1.6E+08	1.6E+08	4 KPNA4	5
3	1.65E+08	1.65E+08	12 SI	38
3	1.67E+08	1.67E+08	15 WDR49	12
3	1.83E+08	1.83E+08	4 ATP11B	17
3	1.83E+08	1.83E+08	2 YEATS2	17
3	1.84E+08	1.84E+08	142 MAP6D1	1
3	1.84E+08	1.84E+08	12 EIF2B5	1
3	1.84E+08	1.84E+08	3 VWA5B2	1
3	1.84E+08	1.84E+08	114 VWA5B2	1
3	1.84E+08	1.84E+08	6 VWA5B2	2
3	1.84E+08	1.84E+08	38 VWA5B2	2
3	1.84E+08	1.84E+08	1 VWA5B2	4
3	1.84E+08	1.84E+08	1 VWA5B2	6
3	1.84E+08	1.84E+08	11 ECE2	5
3	1.84E+08	1.84E+08	81 PSMD2	1
3	1.84E+08	1.84E+08	34 CHR1	1
3	1.84E+08	1.84E+08	117 CHR1	1
3	1.85E+08	1.85E+08	54 VPS8	35
3	1.86E+08	1.86E+08	2 IGF2BP2	1
3	1.86E+08	1.86E+08	119 ETV5	6
3	1.86E+08	1.86E+08	18 DGKG	14
3	1.86E+08	1.86E+08	9 CRYGS	2
3	1.9E+08	1.9E+08	98 LEPREL1	1
3	1.94E+08	1.94E+08	1 TMEM44	7
3	1.94E+08	1.94E+08	1 FAM43A	1
3	1.94E+08	1.94E+08	2 FAM43A	1
3	1.95E+08	1.95E+08	39 C3orf21	1
3	1.95E+08	1.95E+08	3 MUC20	2
3	1.95E+08	1.95E+08	123 MUC20	2
3	1.95E+08	1.95E+08	6 MUC4	14
3	1.96E+08	1.96E+08	54 TNK2	13
3	1.96E+08	1.96E+08	41 TNK2	2
3	1.96E+08	1.96E+08	6 TNK2	2

3	1.96E+08	1.96E+08	5 TFRC	9
3	1.96E+08	1.96E+08	2 FBXO45	1
3	1.96E+08	1.96E+08	17 PIGX	1
3	1.97E+08	1.97E+08	12 MFI2	16
3	1.97E+08	1.97E+08	1 MFI2	1
3	1.97E+08	1.97E+08	4 MFI2	1
3	1.97E+08	1.97E+08	7 KIAA0226	13
3	1.97E+08	1.97E+08	74 KIAA0226	1
4	682886	682921	35 MFSD7	1
4	876580	876593	13 GAK	14
4	952216	952220	4 TMEM175	10
4	952225	952226	1 TMEM175	10
4	952230	952233	3 TMEM175	10
4	962103	962166	63 DGKQ	5
4	967262	967275	13 DGKQ	1
4	980868	980875	7 IDUA	1
4	980909	980938	29 IDUA	1
4	980947	980948	1 IDUA	1
4	996219	996236	17 IDUA	8
4	996515	996554	39 IDUA	9
4	997159	997200	41 IDUA	11
4	1016007	1016045	38 FGFRL1	2
4	1017429	1017436	7 FGFRL1	3
4	1017439	1017456	17 FGFRL1	3
4	1017458	1017463	5 FGFRL1	3
4	1017464	1017468	4 FGFRL1	3
4	1017473	1017474	1 FGFRL1	3
4	1017475	1017514	39 FGFRL1	3
4	1165101	1165114	13 SPON2	2
4	1165117	1165118	1 SPON2	2
4	1242699	1242748	49 CTBP1	1
4	1388611	1388617	6 CRIPAK	1
4	1389201	1389293	92 CRIPAK	1
4	1713596	1713722	126 SLBP	2
4	1713852	1713874	22 SLBP	1
4	1713877	1713920	43 SLBP	1
4	1857591	1857682	91 LETM1	1
4	1940173	1940176	3 WHSC1	7
4	2044049	2044216	167 C4orf48	2
4	2044458	2044506	48 C4orf48	3
4	2061355	2061358	3 NAT8L	1
4	2061448	2061476	28 NAT8L	1
4	2065828	2065830	2 NAT8L	3
4	2254147	2254149	2 MXD4	4
4	2254184	2254186	2 MXD4	4

4	2464174	2464218	44 LOC402160	14
4	2464614	2464644	30 LOC402160	15
4	2464657	2464658	1 LOC402160	15
4	2757794	2757863	69 TNIP2	1
4	2757864	2757870	6 TNIP2	1
4	2757872	2757880	8 TNIP2	1
4	2757996	2758021	25 TNIP2	1
4	2820024	2820122	98 SH3BP2	1
4	3076726	3076820	94 HTT	1
4	3465098	3465161	63 DOK7	1
4	3465228	3465283	55 DOK7	2
4	3475128	3475140	12 DOK7	3
4	3475329	3475368	39 DOK7	3
4	3768329	3768350	21 ADRA2C	1
4	3768424	3768455	31 ADRA2C	1
4	3769163	3769215	52 ADRA2C	1
4	3769286	3769353	67 ADRA2C	1
4	4228192	4228210	18 OTOP1	1
4	4228218	4228219	1 OTOP1	1
4	4228395	4228502	107 OTOP1	1
4	4228507	4228524	17 OTOP1	1
4	4228525	4228596	71 OTOP1	1
4	4543666	4543681	15 STX18	1
4	4861685	4861732	47 MSX1	1
4	4861735	4861740	5 MSX1	1
4	5021118	5021177	59 CYTL1	1
4	5570194	5570230	36 EVC2	20
4	5710139	5710245	106 EVC2	1
4	5713183	5713286	103 EVC	1
4	5894363	5894387	24 CRMP1	1
4	5894683	5894701	18 CRMP1	1
4	6717932	6718024	92 CNO	1
4	7044296	7044316	20 CCDC96	1
4	7044399	7044443	44 CCDC96	1
4	7045302	7045304	2 TADA2B	1
4	7194369	7194408	39 SORCS2	1
4	7194468	7194588	120 SORCS2	1
4	7194679	7194682	3 SORCS2	1
4	8218811	8218820	9 SH3TC1	6
4	8442546	8442551	5 METTL19	1
4	8442557	8442558	1 METTL19	1
4	8442623	8442688	65 METTL19	1
4	8442690	8442693	3 METTL19	1
4	8582722	8582746	24 GPR78	1
4	8594574	8594575	1 CPZ	1

4	8869537	8869657	120 HMX1	2
4	8869899	8869919	20 HMX1	2
4	8869924	8869928	4 HMX1	2
4	8873041	8873057	16 HMX1	1
4	8873181	8873345	164 HMX1	1
4	9174978	9175026	48 LOC100287	1
4	13544051	13544112	61 NKX3-2	2
4	13629081	13629111	30 BOD1L	1
4	15004907	15004916	9 CPEB2	1
4	15005382	15005509	127 CPEB2	1
4	15005582	15005604	22 CPEB2	1
4	15005796	15005837	41 CPEB2	1
4	15005848	15005850	2 CPEB2	1
4	15005950	15005964	14 CPEB2	1
4	15987437	15987456	19 PROM1	21
4	16227877	16227982	105 TAPT1	1
4	16228007	16228085	78 TAPT1	1
4	17643684	17643693	9 FAM184B	13
4	22517319	22517409	90 GPR125	1
4	24914434	24914437	3 CCDC149	1
4	25235878	25235879	1 PI4K2B	1
4	25235884	25235894	10 PI4K2B	1
4	25235898	25236036	138 PI4K2B	1
4	25864292	25864463	171 SEL1L3	1
4	26862903	26862955	52 STIM2	1
4	30723677	30723716	39 PCDH7	1
4	38138880	38138898	18 TBC1D1	19
4	39226501	39226506	5 WDR19	15
4	39322001	39322003	2 RFC1	9
4	39928390	39928411	21 PDS5A	3
4	40434730	40434736	6 RBM47	3
4	47973055	47973122	67 CNGA1	1
4	48485807	48485887	80 SLC10A4	1
4	48492427	48492452	25 ZAR1	1
4	48493132	48493169	37 ZAR1	1
4	48493172	48493276	104 ZAR1	1
4	48595945	48595946	1 FRYL	13
4	52904388	52904430	42 SGCB	1
4	56502243	56502250	7 NMU	1
4	56502256	56502258	2 NMU	1
4	57180501	57180637	136 KIAA1211	5
4	57180716	57180732	16 KIAA1211	5
4	57180819	57180836	17 KIAA1211	5
4	57319865	57319882	17 PAICS	9
4	57976470	57976522	52 IGFBP7	1

4	65240885	65240946	61	TECRL	2
4	68383982	68384091	109	CENPC1	7
4	69196017	69196018	1	YTHDC1	8
4	69342136	69342161	25	TMPRSS11E	7
4	69403357	69403484	127	UGT2B17	6
4	69403565	69403627	62	UGT2B17	6
4	69416390	69416405	15	UGT2B17	5
4	69416555	69416619	64	UGT2B17	5
4	69417589	69417634	45	UGT2B17	4
4	69431285	69431307	22	UGT2B17	2
4	69433474	69433534	60	UGT2B17	1
4	69433708	69433917	209	UGT2B17	1
4	69434129	69434207	78	UGT2B17	1
4	69528747	69528774	27	UGT2B15	3
4	69536077	69536097	20	UGT2B15	1
4	70920034	70920064	30	HTN1	2
4	71705217	71705218	1	GRSF1	1
4	71705221	71705222	1	GRSF1	1
4	71705228	71705334	106	GRSF1	1
4	73935043	73935055	12	COX18	1
4	74964733	74964739	6	CXCL2	1
4	74964745	74964746	1	CXCL2	1
4	75480834	75480904	70	AREGB	1
4	75482217	75482256	39	AREGB	2
4	75484521	75484614	93	AREGB	3
4	75484652	75484729	77	AREGB	3
4	75485887	75485891	4	AREGB	4
4	75485898	75485903	5	AREGB	4
4	75485905	75485907	2	AREGB	4
4	75485923	75485937	14	AREGB	4
4	75485938	75485992	54	AREGB	4
4	75488014	75488117	103	AREGB	5
4	77677597	77677598	1	SHROOM3	8
4	78694258	78694259	1	CNOT6L	4
4	78694263	78694325	62	CNOT6L	4
4	78697508	78697529	21	CNOT6L	2
4	79697747	79697767	20	BMP2K	1
4	79697769	79697880	111	BMP2K	1
4	81123899	81124068	169	PRDM8	3
4	81124071	81124079	8	PRDM8	3
4	82013555	82013560	5	PRKG2	17
4	82013563	82013598	35	PRKG2	17
4	83294721	83294752	31	HNRNPD	1
4	83350719	83350807	88	HNRPDL	1
4	85722867	85722876	9	WDFY3	14

4	88929017	88929018	1 PKD2	1
4	88929342	88929469	127 PKD2	1
4	89378636	89378638	2 HERC5	1
4	89378643	89378653	10 HERC5	1
4	89378681	89378683	2 HERC5	1
4	89378684	89378686	2 HERC5	1
4	99802260	99802261	1 EIF4E	8
4	99802263	99802264	1 EIF4E	8
4	1.04E+08	1.04E+08	2 CENPE	16
4	1.07E+08	1.07E+08	27 ARHGEF38	5
4	1.07E+08	1.07E+08	2 TBCK	6
4	1.09E+08	1.09E+08	57 CYP2U1	1
4	1.09E+08	1.09E+08	4 CYP2U1	1
4	1.1E+08	1.1E+08	4 COL25A1	5
4	1.1E+08	1.1E+08	10 COL25A1	5
4	1.1E+08	1.1E+08	110 SEC24B	1
4	1.1E+08	1.1E+08	30 CCDC109B	1
4	1.11E+08	1.11E+08	120 PLA2G12A	1
4	1.11E+08	1.11E+08	14 ENPEP	11
4	1.11E+08	1.11E+08	5 ENPEP	11
4	1.13E+08	1.13E+08	162 C4orf32	1
4	1.14E+08	1.14E+08	38 LARP7	4
4	1.14E+08	1.14E+08	1 LARP7	4
4	1.14E+08	1.14E+08	22 LARP7	4
4	1.23E+08	1.23E+08	8 TRPC3	1
4	1.23E+08	1.23E+08	1 TRPC3	1
4	1.23E+08	1.23E+08	12 KIAA1109	11
4	1.24E+08	1.24E+08	14 FGF2	1
4	1.24E+08	1.24E+08	37 FGF2	1
4	1.29E+08	1.29E+08	65 PGRMC2	1
4	1.39E+08	1.39E+08	7 SLC7A11	6
4	1.4E+08	1.4E+08	2 CCRN4L	1
4	1.4E+08	1.4E+08	2 CCRN4L	1
4	1.4E+08	1.4E+08	1 CCRN4L	1
4	1.4E+08	1.4E+08	24 CCRN4L	1
4	1.45E+08	1.45E+08	4 FREM3	1
4	1.45E+08	1.45E+08	1 GYP A	2
4	1.45E+08	1.45E+08	1 GYP A	2
4	1.46E+08	1.46E+08	40 ABCE1	5
4	1.46E+08	1.46E+08	6 ABCE1	8
4	1.46E+08	1.46E+08	17 ABCE1	8
4	1.46E+08	1.46E+08	2 OTUD4	19
4	1.46E+08	1.46E+08	42 OTUD4	19
4	1.49E+08	1.49E+08	22 NR3C2	4
4	1.51E+08	1.51E+08	51 DCLK2	17



4	1.54E+08	1.54E+08	49 FHDC1	1
4	1.54E+08	1.54E+08	52 KIAA0922	1
4	1.6E+08	1.6E+08	116 PPID	6
4	1.6E+08	1.6E+08	34 FNIP2	1
4	1.64E+08	1.64E+08	35 NAF1	8
4	1.64E+08	1.64E+08	82 NAF1	8
4	1.64E+08	1.64E+08	6 NAF1	4
4	1.66E+08	1.66E+08	11 CPE	1
4	1.66E+08	1.66E+08	6 CPE	1
4	1.74E+08	1.74E+08	9 SAP30	1
4	1.74E+08	1.74E+08	9 SAP30	1
4	1.77E+08	1.77E+08	8 SPCS3	3
4	1.77E+08	1.77E+08	44 SPCS3	3
4	1.84E+08	1.84E+08	35 DCTD	1
4	1.85E+08	1.85E+08	33 RWDD4	1
4	1.87E+08	1.87E+08	20 MTNR1A	1
5	191972	191974	2 LRRC14B	1
5	191976	191984	8 LRRC14B	1
5	218466	218515	49 SDHA	1
5	271928	271941	13 PDCD6	1
5	427758	427784	26 AHRR	8
5	473489	473496	7 SLC9A3	17
5	473498	473500	2 SLC9A3	17
5	612501	612563	62 CEP72	1
5	748514	748679	165 ZDHHC11B	8
5	751243	751247	4 ZDHHC11B	7
5	847629	847735	106 ZDHHC11	3
5	848592	848626	34 ZDHHC11	2
5	879904	880003	99 BRD9	10
5	1009175	1009202	27 NKD2	1
5	1009289	1009334	45 NKD2	2
5	1038292	1038309	17 NKD2	10
5	1111988	1112068	80 SLC12A7	1
5	1201761	1201767	6 SLC6A19	1
5	1201773	1201774	1 SLC6A19	1
5	1294959	1295109	150 TERT	1
5	1523820	1523823	3 LPCAT1	1
5	1523900	1523901	1 LPCAT1	1
5	1523909	1523964	55 LPCAT1	1
5	1882712	1882766	54 IRX4	1
5	2748455	2748518	63 IRX2	3
5	2751307	2751309	2 IRX2	1
5	2751311	2751316	5 IRX2	1
5	2751318	2751325	7 IRX2	1
5	3596215	3596281	66 IRX1	1

5	3596358	3596438	80 IRX1	1
5	5140576	5140586	10 ADAMTS16	1
5	5140610	5140633	23 ADAMTS16	1
5	5303428	5303460	32 ADAMTS16	19
5	6623399	6623403	4 NSUN2	5
5	6632992	6633068	76 NSUN2	1
5	7396405	7396466	61 ADCY2	1
5	10564575	10564591	16 ANKRD33B	1
5	10564621	10564663	42 ANKRD33B	1
5	10564886	10564950	64 ANKRD33B	1
5	10649384	10649388	4 ANKRD33B	4
5	10649799	10649919	120 ANKRD33B	4
5	10649973	10650016	43 ANKRD33B	4
5	10761121	10761185	64 DAP	1
5	11385068	11385069	1 CTNND2	7
5	11385071	11385202	131 CTNND2	7
5	11385270	11385327	57 CTNND2	7
5	13886242	13886243	1 DNAH5	18
5	14143929	14143943	14 TRIO	1
5	14364863	14364867	4 TRIO	15
5	14364870	14364886	16 TRIO	15
5	14406065	14406070	5 TRIO	32
5	14487727	14487742	15 TRIO	48
5	14507339	14507344	5 TRIO	56
5	14507347	14507374	27 TRIO	56
5	14581999	14582072	73 FAM105A	1
5	15928143	15928154	11 FBXL7	3
5	15928156	15928157	1 FBXL7	3
5	16179197	16179516	319 11-Mar	1
5	16179571	16179675	104 11-Mar	1
5	16617033	16617036	3 FAM134B	1
5	16617039	16617042	3 FAM134B	1
5	16617051	16617052	1 FAM134B	1
5	16617061	16617085	24 FAM134B	1
5	17275600	17275606	6 BASP1	1
5	17275607	17275610	3 BASP1	1
5	17275611	17275705	94 BASP1	1
5	32174142	32174144	2 GOLPH3	1
5	36123062	36123067	5 LMBRD2	7
5	36241781	36241852	71 NADKD1	1
5	37036478	37036594	116 NIPBL	32
5	37349269	37349319	50 NUP155	8
5	37834793	37834816	23 GDNF	2
5	38962453	38962468	15 RICTOR	19
5	38978754	38978757	3 RICTOR	9

5	41850246	41850248	2 OXCT1	5
5	41909844	41909892	48 C5orf51	3
5	41925407	41925433	26 FBXO4	1
5	42629135	42629210	75 GHR	3
5	43556776	43556873	97 PAIP1	1
5	54518085	54518094	9 IDAS	5
5	55243323	55243422	99 IL6ST	13
5	56111396	56111494	98 MAP3K1	1
5	56111681	56111887	206 MAP3K1	1
5	59189279	59189308	29 PDE4D	1
5	60628655	60628688	33 ZSWIM6	1
5	64023994	64024011	17 SREK1IP1	4
5	64070617	64070619	2 CWC27	2
5	64824396	64824397	1 CENPK	7
5	64824400	64824410	10 CENPK	7
5	64951458	64951460	2 C5orf44	8
5	65892705	65892775	70 MAST4	1
5	66084600	66084601	1 MAST4	3
5	68390078	68390080	2 SLC30A5	1
5	68390083	68390085	2 SLC30A5	1
5	68602704	68602734	30 CCDC125	5
5	68609874	68609878	4 CCDC125	2
5	68692371	68692378	7 RAD17	13
5	68695960	68696001	41 RAD17	14
5	68715307	68715314	7 MARVELD2	1
5	69362939	69362966	27 SMN2	4
5	70196692	70196708	16 SERF1A	1
5	70197647	70197761	114 SERF1A	2
5	70212763	70212989	226 SERF1A	3
5	70220926	70220963	37 SMN1	1
5	70220976	70221016	40 SMN1	1
5	70234661	70234742	81 SMN1	2
5	70237211	70237338	127 SMN1	3
5	70238180	70238256	76 SMN1	4
5	70238270	70238390	120 SMN1	4
5	70238574	70238702	128 SMN1	5
5	70240480	70240536	56 SMN1	6
5	70240549	70240585	36 SMN1	6
5	70241888	70241995	107 SMN1	7
5	70265968	70266212	244 NAIP	14
5	70266217	70266300	83 NAIP	14
5	70269963	70270095	132 NAIP	13
5	70271982	70272078	96 NAIP	12
5	70272737	70272865	128 NAIP	11
5	70308170	70308284	114 NAIP	1

5	70883265	70883284	19 MCCC2	1
5	72742928	72742958	30 FOXD1	1
5	72743017	72743212	195 FOXD1	1
5	72743422	72743490	68 FOXD1	1
5	72743890	72743977	87 FOXD1	1
5	72794627	72794629	2 BTF3	1
5	76373205	76373505	300 ZBED3	1
5	76373508	76373510	2 ZBED3	1
5	76373516	76373518	2 ZBED3	1
5	76926087	76926157	70 OTP	3
5	78610486	78610487	1 JMY	9
5	78985726	78985766	40 CMYA5	1
5	79331356	79331364	8 THBS4	1
5	79331426	79331452	26 THBS4	1
5	80689802	80689890	88 ACOT12	1
5	80689920	80689921	1 ACOT12	1
5	80689923	80689938	15 ACOT12	1
5	80756869	80756883	14 SSBP2	10
5	81614123	81614124	1 ATP6AP1L	4
5	82360835	82360838	3 TMEM167A	2
5	86637102	86637143	41 RASA1	6
5	87502251	87502263	12 TMEM161B	7
5	87502269	87502321	52 TMEM161B	7
5	87516509	87516541	32 TMEM161B	5
5	90086751	90086753	2 GPR98	70
5	90086754	90086755	1 GPR98	70
5	92920882	92920931	49 NR2F1	1
5	94619555	94619576	21 MCTP1	1
5	94619579	94619580	1 MCTP1	1
5	94619593	94619595	2 MCTP1	1
5	94619600	94619605	5 MCTP1	1
5	94620133	94620229	96 MCTP1	1
5	94956425	94956469	44 GPR150	1
5	95297427	95297430	3 ELL2	1
5	95998122	95998206	84 CAST	1
5	96271855	96271883	28 LNPEP	1
5	96341772	96341777	5 LNPEP	10
5	96443059	96443134	75 LIX1	3
5	98109844	98109855	11 RGMB	2
5	98216979	98217020	41 CHD1	20
5	98217023	98217024	1 CHD1	20
5	98217082	98217084	2 CHD1	20
5	1.02E+08	1.02E+08	12 SLCO6A1	9
5	1.08E+08	1.08E+08	2 FBXL17	1
5	1.08E+08	1.08E+08	16 FBXL17	1

5	1.08E+08	1.08E+08	41 FBXL17	1
5	1.08E+08	1.08E+08	4 FBXL17	1
5	1.13E+08	1.13E+08	114 YTHDC2	8
5	1.15E+08	1.15E+08	2 PGGT1B	1
5	1.15E+08	1.15E+08	40 AP3S1	3
5	1.19E+08	1.19E+08	5 DMXL1	21
5	1.19E+08	1.19E+08	7 DMXL1	21
5	1.22E+08	1.22E+08	1 PRDM6	1
5	1.22E+08	1.22E+08	196 PRDM6	1
5	1.22E+08	1.22E+08	2 PRDM6	1
5	1.22E+08	1.22E+08	55 PRDM6	2
5	1.26E+08	1.26E+08	9 LMNB1	1
5	1.26E+08	1.26E+08	2 LMNB1	1
5	1.27E+08	1.27E+08	197 SLC12A2	1
5	1.28E+08	1.28E+08	35 ISOC1	1
5	1.29E+08	1.29E+08	170 ADAMTS19	2
5	1.29E+08	1.29E+08	3 ADAMTS19	2
5	1.29E+08	1.29E+08	4 ADAMTS19	2
5	1.29E+08	1.29E+08	49 ADAMTS19	2
5	1.29E+08	1.29E+08	25 ADAMTS19	2
5	1.32E+08	1.32E+08	1 PDLIM4	1
5	1.32E+08	1.32E+08	28 RAD50	17
5	1.32E+08	1.32E+08	21 RAD50	17
5	1.32E+08	1.32E+08	82 CCNI2	1
5	1.32E+08	1.32E+08	4 CCNI2	1
5	1.32E+08	1.32E+08	8 8-Sep	1
5	1.32E+08	1.32E+08	67 ANKRD43	1
5	1.32E+08	1.32E+08	344 ANKRD43	1
5	1.32E+08	1.32E+08	1 ANKRD43	1
5	1.32E+08	1.32E+08	54 SHROOM1	1
5	1.33E+08	1.33E+08	92 TCF7	1
5	1.33E+08	1.33E+08	16 TCF7	1
5	1.33E+08	1.33E+08	8 TCF7	1
5	1.33E+08	1.33E+08	60 TCF7	1
5	1.34E+08	1.34E+08	93 PCBD2	1
5	1.34E+08	1.34E+08	2 PITX1	3
5	1.34E+08	1.34E+08	46 PITX1	1
5	1.35E+08	1.35E+08	140 TGFBI	1
5	1.37E+08	1.37E+08	28 SPOCK1	1
5	1.38E+08	1.38E+08	201 KDM3B	1
5	1.39E+08	1.39E+08	14 PSD2	12
5	1.39E+08	1.39E+08	6 NRG2	11
5	1.39E+08	1.39E+08	110 NRG2	11
5	1.39E+08	1.39E+08	34 NRG2	11
5	1.39E+08	1.39E+08	15 NRG2	11

5	1.39E+08	1.39E+08	5 NRG2	11
5	1.39E+08	1.39E+08	1 NRG2	11
5	1.39E+08	1.39E+08	6 NRG2	1
5	1.39E+08	1.39E+08	3 PURA	1
5	1.39E+08	1.39E+08	29 PURA	1
5	1.4E+08	1.4E+08	287 DND1	3
5	1.4E+08	1.4E+08	1 PCDHA9	1
5	1.4E+08	1.4E+08	271 PCDHA9	1
5	1.4E+08	1.4E+08	2 PCDHB3	1
5	1.41E+08	1.41E+08	31 PCDHB16	1
5	1.41E+08	1.41E+08	19 PCDHGA4	1
5	1.41E+08	1.41E+08	143 PCDHGB5	1
5	1.41E+08	1.41E+08	1 ARAP3	16
5	1.41E+08	1.41E+08	14 ARAP3	16
5	1.41E+08	1.41E+08	49 PCDH1	1
5	1.41E+08	1.41E+08	56 NDFIP1	1
5	1.48E+08	1.48E+08	146 SPINK14	3
5	1.49E+08	1.49E+08	4 AFAP1L1	13
5	1.49E+08	1.49E+08	24 AFAP1L1	18
5	1.49E+08	1.49E+08	97 PCYOX1L	1
5	1.5E+08	1.5E+08	42 PDGFRB	6
5	1.5E+08	1.5E+08	5 CDX1	1
5	1.5E+08	1.5E+08	11 CDX1	1
5	1.5E+08	1.5E+08	2 CDX1	1
5	1.5E+08	1.5E+08	48 CDX1	1
5	1.5E+08	1.5E+08	49 CDX1	1
5	1.5E+08	1.5E+08	72 CDX1	1
5	1.5E+08	1.5E+08	6 TCOF1	1
5	1.5E+08	1.5E+08	38 TNIP1	15
5	1.51E+08	1.51E+08	56 SLC36A3	5
5	1.54E+08	1.54E+08	45 GALNT10	1
5	1.56E+08	1.56E+08	9 HAVCR1	2
5	1.57E+08	1.57E+08	7 ADAM19	1
5	1.57E+08	1.57E+08	13 LSM11	1
5	1.59E+08	1.59E+08	160 ADRA1B	2
5	1.59E+08	1.59E+08	2 ADRA1B	2
5	1.6E+08	1.6E+08	58 CCNJL	3
5	1.62E+08	1.62E+08	63 GABRG2	6
5	1.63E+08	1.63E+08	12 HMMR	2
5	1.68E+08	1.68E+08	25 SLIT3	36
5	1.69E+08	1.69E+08	13 SLIT3	1
5	1.69E+08	1.69E+08	32 SLIT3	1
5	1.7E+08	1.7E+08	32 DOCK2	51
5	1.7E+08	1.7E+08	30 LCP2	8
5	1.7E+08	1.7E+08	50 LCP2	8

5	1.7E+08	1.7E+08	1 LCP2	8
5	1.71E+08	1.71E+08	35 STK10	15
5	1.72E+08	1.72E+08	41 NEURL1B	3
5	1.72E+08	1.72E+08	145 NEURL1B	3
5	1.72E+08	1.72E+08	10 NEURL1B	3
5	1.72E+08	1.72E+08	15 NEURL1B	3
5	1.73E+08	1.73E+08	37 NKX2-5	2
5	1.73E+08	1.73E+08	5 BOD1	1
5	1.73E+08	1.73E+08	17 BOD1	1
5	1.75E+08	1.75E+08	34 THOC3	1
5	1.76E+08	1.76E+08	71 C5orf25	1
5	1.76E+08	1.76E+08	125 RNF44	6
5	1.76E+08	1.76E+08	1 RNF44	5
5	1.76E+08	1.76E+08	47 RNF44	4
5	1.76E+08	1.76E+08	3 GPRIN1	1
5	1.76E+08	1.76E+08	5 UNC5A	1
5	1.76E+08	1.76E+08	1 UNC5A	1
5	1.77E+08	1.77E+08	2 MXD3	2
5	1.77E+08	1.77E+08	44 RGS14	3
5	1.77E+08	1.77E+08	5 F12	7
5	1.77E+08	1.77E+08	5 PDLIM7	4
5	1.77E+08	1.77E+08	33 PDLIM7	4
5	1.77E+08	1.77E+08	13 DOK3	1
5	1.77E+08	1.77E+08	119 FAM193B	4
5	1.77E+08	1.77E+08	54 FAM193B	1
5	1.77E+08	1.77E+08	7 TMED9	1
5	1.77E+08	1.77E+08	59 B4GALT7	1
5	1.77E+08	1.77E+08	73 PROP1	3
5	1.77E+08	1.77E+08	2 PROP1	3
5	1.78E+08	1.78E+08	165 HNRNPAB	1
5	1.78E+08	1.78E+08	36 COL23A1	1
5	1.78E+08	1.78E+08	178 COL23A1	1
5	1.78E+08	1.78E+08	15 GRM6	4
5	1.78E+08	1.78E+08	144 GRM6	1
5	1.78E+08	1.78E+08	75 GRM6	1
5	1.78E+08	1.78E+08	57 GRM6	1
5	1.79E+08	1.79E+08	5 ADAMTS2	11
5	1.79E+08	1.79E+08	73 ADAMTS2	1
5	1.79E+08	1.79E+08	8 MAML1	1
5	1.79E+08	1.79E+08	5 MAML1	1
5	1.79E+08	1.79E+08	70 LTC4S	5
5	1.79E+08	1.79E+08	15 TBC1D9B	4
5	1.79E+08	1.79E+08	37 RNF130	1
5	1.8E+08	1.8E+08	2 RASGEF1C	2
5	1.8E+08	1.8E+08	61 SCGB3A1	1

5	1.8E+08	1.8E+08	11 FLT4	10
5	1.8E+08	1.8E+08	36 BTNL3	6
5	1.8E+08	1.8E+08	30 BTNL9	6
5	1.81E+08	1.81E+08	25 TRIM41	6
6	1313851	1313854	3 FOXQ1	1
6	1313906	1314156	250 FOXQ1	1
6	1390178	1390268	90 FOXF2	1
6	1390303	1390306	3 FOXF2	1
6	1390403	1390429	26 FOXF2	1
6	1610708	1610715	7 FOXC1	1
6	1610722	1610739	17 FOXC1	1
6	1610771	1610795	24 FOXC1	1
6	2766034	2766058	24 WRNIP1	1
6	2766059	2766119	60 WRNIP1	1
6	2766122	2766130	8 WRNIP1	1
6	2766136	2766154	18 WRNIP1	1
6	2766157	2766353	196 WRNIP1	1
6	2766465	2766466	1 WRNIP1	1
6	2766471	2766476	5 WRNIP1	1
6	3157673	3157702	29 TUBB2A	1
6	3225305	3225395	90 TUBB2B	4
6	3259256	3259271	15 PSMG4	1
6	3259426	3259435	9 PSMG4	1
6	3456690	3456732	42 SLC22A23	1
6	4777013	4777046	33 CDYL	1
6	5085961	5085962	1 PPP1R3G	1
6	5085971	5085981	10 PPP1R3G	1
6	5187162	5187219	57 LYRM4	3
6	7590486	7590535	49 SNRNP48	1
6	7727286	7727346	60 BMP6	1
6	7910922	7911014	92 TXNDC5	1
6	10410434	10410493	59 TFAP2A	2
6	12749974	12749975	1 PHACTR1	2
6	13711390	13711392	2 RANBP9	1
6	13711524	13711650	126 RANBP9	1
6	13711678	13711706	28 RANBP9	1
6	17600637	17600642	5 FAM8A1	1
6	17600652	17600654	2 FAM8A1	1
6	17600731	17600733	2 FAM8A1	1
6	17600764	17600809	45 FAM8A1	1
6	17626373	17626375	2 NUP153	19
6	17633076	17633078	2 NUP153	17
6	19837981	19838129	148 ID4	1
6	20402828	20402830	2 E2F3	1
6	20402837	20402861	24 E2F3	1



6	21595423	21595509	86 SOX4	1
6	21595807	21595848	41 SOX4	1
6	22570239	22570241	2 HDGFL1	1
6	22570243	22570245	2 HDGFL1	1
6	22570246	22570248	2 HDGFL1	1
6	22570249	22570251	2 HDGFL1	1
6	22570252	22570255	3 HDGFL1	1
6	22570256	22570257	1 HDGFL1	1
6	22570373	22570421	48 HDGFL1	1
6	24495311	24495394	83 ALDH5A1	1
6	29080342	29080345	3 OR2J3	1
6	29141734	29141744	10 OR2J2	1
6	29141849	29141853	4 OR2J2	1
6	29142049	29142068	19 OR2J2	1
6	29274480	29274488	8 OR14J1	1
6	29323250	29323269	19 OR5V1	1
6	29342816	29342831	15 OR12D3	1
6	29364587	29364661	74 OR12D2	1
6	29364766	29364854	88 OR12D2	1
6	29364944	29364956	12 OR12D2	1
6	29365237	29365248	11 OR12D2	1
6	29408522	29408532	10 OR10C1	1
6	29523948	29523957	9 UBD	2
6	29555799	29555841	42 OR2H2	1
6	29624982	29625033	51 MOG	1
6	29633990	29634042	52 MOG	3
6	29691496	29691561	65 HLA-F	2
6	29691573	29691577	4 HLA-F	2
6	29691578	29691580	2 HLA-F	2
6	29691610	29691709	99 HLA-F	2
6	29759780	29759896	116 LOC554223	1
6	29759901	29760021	120 LOC554223	1
6	29760072	29760087	15 LOC554223	1
6	29760209	29760237	28 LOC554223	2
6	29760374	29760408	34 LOC554223	2
6	29760449	29760456	7 LOC554223	2
6	29760460	29760464	4 LOC554223	2
6	29760467	29760488	21 LOC554223	2
6	29795623	29795656	33 HLA-G	1
6	29795671	29795699	28 HLA-G	1
6	29795819	29795890	71 HLA-G	2
6	29795984	29796098	114 HLA-G	2
6	29796315	29796331	16 HLA-G	3
6	29796592	29796600	8 HLA-G	3
6	29797588	29797678	90 HLA-G	5

6	29798150	29798154	4 HLA-G	6
6	29910396	29910408	12 HLA-A	1
6	29910654	29910768	114 HLA-A	2
6	29911040	29911241	201 HLA-A	3
6	29912099	29912179	80 HLA-A	4
6	29912332	29912398	66 HLA-A	5
6	29912866	29912873	7 HLA-A	6
6	29913006	29913063	57 HLA-A	7
6	30030097	30030115	18 ZNRD1	3
6	30039096	30039151	55 RNF39	4
6	30039408	30039431	23 RNF39	4
6	30043024	30043050	26 RNF39	1
6	30043151	30043170	19 RNF39	1
6	30043186	30043247	61 RNF39	1
6	30071308	30071334	26 TRIM31	8
6	30075825	30075950	125 TRIM31	5
6	30114844	30114873	29 TRIM40	3
6	30122138	30122194	56 TRIM10	7
6	30131480	30131484	4 TRIM15	1
6	30154191	30154221	30 TRIM26	7
6	30154328	30154340	12 TRIM26	7
6	30166230	30166252	22 TRIM26	2
6	30312944	30312954	10 RPP21	1
6	30313328	30313355	27 RPP21	3
6	30313328	30313355	27 TRIM39-RPI	8
6	30313328	30313355	27 RPP21	3
6	30313328	30313355	27 TRIM39-RPI	8
6	30457701	30457750	49 HLA-E	2
6	30530218	30530262	44 PRR3	4
6	30573695	30573716	21 PPP1R10	8
6	30573737	30573755	18 PPP1R10	8
6	30575612	30575626	14 PPP1R10	4
6	30610585	30610647	62 ATAT1	10
6	30652451	30652539	88 KIAA1949	1
6	30711786	30711830	44 IER3	2
6	30864820	30864859	39 DDR1	13
6	30878930	30878938	8 GTF2H4	6
6	30882184	30882251	67 VARS2	1
6	30883924	30883959	35 VARS2	7
6	30884015	30884031	16 VARS2	7
6	30886685	30886697	12 VARS2	11
6	30887912	30887995	83 VARS2	13
6	30888152	30888161	9 VARS2	14
6	30888166	30888184	18 VARS2	14
6	30890876	30890878	2 VARS2	24

6	30892188	30892194	6 VARS2	26
6	30892279	30892285	6 VARS2	26
6	30892288	30892342	54 VARS2	26
6	30893413	30893424	11 VARS2	28
6	30893672	30893767	95 VARS2	29
6	30899355	30899356	1 SFTA2	3
6	30993367	30993384	17 MUC22	2
6	30993496	30993547	51 MUC22	2
6	30993955	30993965	10 MUC22	2
6	30997686	30997698	12 MUC22	2
6	31000000	31000013	13 MUC22	3
6	31002444	31002536	92 MUC22	4
6	31002542	31002543	1 MUC22	4
6	31079192	31079253	61 C6orf15	2
6	31079624	31079664	40 C6orf15	2
6	31083797	31083854	57 CDSN	2
6	31084044	31084325	281 CDSN	2
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6	31084617	31084681	64 CDSN	2
6	31084686	31084835	149 CDSN	2
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6	31085177	31085303	126 CDSN	2
6	31088107	31088201	94 CDSN	1
6	31105737	31105958	221 PSORS1C2	2
6	31112938	31113021	83 CCHCR1	13
6	31113220	31113275	55 CCHCR1	12
6	31116177	31116253	76 CCHCR1	10
6	31118502	31118579	77 CCHCR1	6
6	31122312	31122334	22 CCHCR1	4
6	31124845	31124853	8 CCHCR1	2
6	31125157	31125168	11 CCHCR1	1
6	31127254	31127321	67 TCF19	1
6	31129574	31129657	83 TCF19	2
6	31132615	31132649	34 POU5F1	5
6	31133450	31133483	33 POU5F1	3
6	31138210	31138298	88 POU5F1	1
6	31138310	31138402	92 POU5F1	1
6	31236941	31236955	14 HLA-C	8
6	31237141	31237167	26 HLA-C	7
6	31237821	31237867	46 HLA-C	5
6	31237982	31238010	28 HLA-C	4
6	31238212	31238267	55 HLA-C	4
6	31238884	31238974	90 HLA-C	3
6	31239016	31239106	90 HLA-C	3
6	31239371	31239501	130 HLA-C	2

6	31239771	31239853	82 HLA-C	1
6	31322255	31322266	11 HLA-B	7
6	31322277	31322308	31 HLA-B	7
6	31322879	31323005	126 HLA-B	5
6	31323203	31323279	76 HLA-B	4
6	31323295	31323374	79 HLA-B	4
6	31323939	31323944	5 HLA-B	3
6	31324115	31324208	93 HLA-B	3
6	31324512	31324611	99 HLA-B	2
6	31324858	31324940	82 HLA-B	1
6	31371405	31371484	79 MICA	1
6	31379096	31379141	45 MICA	3
6	31379731	31379857	126 MICA	4
6	31380003	31380007	4 MICA	4
6	31380097	31380213	116 MICA	5
6	31431060	31431061	1 HCP5	1
6	31465966	31466045	79 MICB	1
6	31473522	31473567	45 MICB	2
6	31475077	31475082	5 MICB	4
6	31477642	31477691	49 MICB	6
6	31496820	31496967	147 MCCD1	1
6	31497519	31497592	73 MCCD1	2
6	31497602	31497604	2 MCCD1	2
6	31497608	31497635	27 MCCD1	2
6	31497641	31497717	76 MCCD1	2
6	31500615	31500693	78 DDX39B	6
6	31506615	31506637	22 DDX39B	3
6	31516100	31516176	76 NFKBIL1	2
6	31525794	31525957	163 NFKBIL1	4
6	31555424	31555427	3 LST1	2
6	31555428	31555430	2 LST1	2
6	31555439	31555507	68 LST1	2
6	31594590	31594591	1 PRRC2A	9
6	31594597	31594644	47 PRRC2A	9
6	31595851	31595915	64 PRRC2A	11
6	31597410	31597412	2 PRRC2A	13
6	31597415	31597428	13 PRRC2A	13
6	31597434	31597484	50 PRRC2A	13
6	31598487	31598502	15 PRRC2A	14
6	31601329	31601374	45 PRRC2A	16
6	31602950	31602978	28 PRRC2A	21
6	31603986	31604073	87 PRRC2A	25
6	31604589	31604599	10 PRRC2A	27
6	31610117	31610125	8 BAG6	14
6	31610662	31610705	43 BAG6	13

6	31611746	31611759	13 BAG6	12
6	31627508	31627539	31 C6orf47	1
6	31630230	31630267	37 GPANK1	2
6	31657353	31657458	105 ABHD16A	12
6	31659667	31659668	1 ABHD16A	8
6	31675498	31675505	7 LY6G6F	2
6	31687003	31687015	12 LY6G6C	3
6	31691921	31691934	13 C6orf25	3
6	31729320	31729377	57 MSH5	21
6	31762809	31762859	50 VARS	1
6	31778262	31778298	36 HSPA1L	1
6	31783743	31783759	16 HSPA1A	1
6	31785225	31785260	35 HSPA1A	1
6	31795865	31796502	637 HSPA1B	1
6	31796518	31797272	754 HSPA1B	1
6	31797571	31797600	29 HSPA1B	1
6	31837318	31837368	50 SLC44A4	12
6	31837392	31837419	27 SLC44A4	12
6	31838392	31838484	92 SLC44A4	11
6	31838697	31838725	28 SLC44A4	10
6	31839287	31839328	41 SLC44A4	8
6	31856053	31856058	5 EHMT2	13
6	31860317	31860342	25 EHMT2	7
6	31864293	31864298	5 EHMT2	4
6	31864543	31864556	13 EHMT2	3
6	31865408	31865459	51 EHMT2	1
6	31868063	31868151	88 ZBTB12	1
6	31868195	31868281	86 ZBTB12	1
6	31868282	31868289	7 ZBTB12	1
6	31868566	31868593	27 ZBTB12	1
6	31907098	31907102	4 C2	9
6	31914919	31914962	43 CFB	3
6	31928996	31929059	63 SKIV2L	8
6	31936643	31936706	63 SKIV2L	26
6	31948508	31948523	15 STK19	7
6	31952177	31952190	13 C4A	9
6	31962162	31962166	4 C4A	20
6	31964754	31964798	44 C4A	29
6	31964811	31964843	32 C4A	29
6	31982618	31982692	74 C4B	1
6	31982815	31983001	186 C4B	2
6	31983238	31983423	185 C4B	3
6	31983639	31983719	80 C4B	4
6	31983788	31983886	98 C4B	5
6	31984095	31984187	92 C4B	6

6	31984348	31984454	106 C4B	7
6	31984583	31984698	115 C4B	8
6	31984786	31984928	142 C4B	9
6	31991702	31991827	125 C4B	10
6	31991917	31992089	172 C4B	11
6	31992242	31992287	45 C4B	12
6	31992299	31992434	135 C4B	12
6	31992557	31992743	186 C4B	13
6	31992929	31993064	135 C4B	14
6	31993306	31993376	70 C4B	15
6	31993391	31993442	51 C4B	15
6	31993600	31993684	84 C4B	16
6	31993935	31993985	50 C4B	17
6	31994001	31994142	141 C4B	17
6	31994224	31994345	121 C4B	18
6	31994426	31994506	80 C4B	19
6	31994755	31994785	30 C4B	20
6	31994787	31994793	6 C4B	20
6	31995050	31995091	41 C4B	21
6	31995106	31995227	121 C4B	21
6	31995462	31995523	61 C4B	22
6	31995615	31995714	99 C4B	23
6	31995840	31996059	219 C4B	24
6	31996773	31996783	10 C4B	27
6	31996794	31996843	49 C4B	27
6	31997116	31997120	4 C4B	28
6	31997338	31997403	65 C4B	29
6	31997419	31997442	23 C4B	29
6	31997709	31997802	93 C4B	30
6	31998214	31998283	69 C4B	31
6	31999328	31999426	98 C4B	32
6	31999514	31999596	82 C4B	33
6	31999608	31999710	102 C4B	33
6	31999815	31999915	100 C4B	34
6	31999996	32000079	83 C4B	35
6	32001562	32001614	52 C4B	36
6	32001626	32001674	48 C4B	36
6	32001830	32001929	99 C4B	37
6	32002005	32002113	108 C4B	38
6	32002286	32002379	93 C4B	39
6	32002655	32002774	119 C4B	40
6	32002908	32003032	124 C4B	41
6	32006198	32006406	208 CYP21A2	1
6	32006494	32006593	99 CYP21A2	2
6	32006866	32006925	59 CYP21A2	3

6	32006999	32007030	31 CYP21A2	3
6	32008532	32008543	11 CYP21A2	9
6	32008548	32008553	5 CYP21A2	9
6	32008647	32008756	109 CYP21A2	10
6	32008770	32008843	73 CYP21A2	10
6	32009578	32009716	138 TNXB	42
6	32009784	32009955	171 TNXB	41
6	32010038	32010045	7 TNXB	40
6	32010258	32010281	23 TNXB	39
6	32010370	32010388	18 TNXB	39
6	32010471	32010613	142 TNXB	38
6	32010723	32010814	91 TNXB	37
6	32010816	32010863	47 TNXB	37
6	32010947	32011100	153 TNXB	36
6	32011209	32011320	111 TNXB	35
6	32011779	32011801	22 TNXB	33
6	32011814	32011911	97 TNXB	33
6	32012153	32012275	122 TNXB	32
6	32012289	32012487	198 TNXB	32
6	32017042	32017070	28 TNXB	27
6	32017076	32017083	7 TNXB	27
6	32017086	32017110	24 TNXB	27
6	32025937	32025964	27 TNXB	21
6	32026068	32026172	104 TNXB	21
6	32029206	32029220	14 TNXB	20
6	32029431	32029450	19 TNXB	20
6	32032727	32032753	26 TNXB	18
6	32050043	32050087	44 TNXB	8
6	32064327	32064334	7 TNXB	2
6	32086889	32086891	2 ATF6B	10
6	32117471	32117473	2 PRRT1	3
6	32118331	32118667	336 PRRT1	2
6	32122408	32122412	4 PPT2	2
6	32146350	32146351	1 RNF5	1
6	32151943	32152004	61 AGER	1
6	32155086	32155089	3 PBX2	6
6	32157602	32157697	95 PBX2	1
6	32159943	32159949	6 GPSM3	2
6	32172011	32172082	71 NOTCH4	19
6	32181519	32181521	2 NOTCH4	14
6	32181522	32181597	75 NOTCH4	14
6	32181604	32181609	5 NOTCH4	14
6	32181621	32181622	1 NOTCH4	14
6	32183161	32183167	6 NOTCH4	12
6	32187504	32187552	48 NOTCH4	8

6	32188373	32188397	24 NOTCH4	6
6	32190347	32190408	61 NOTCH4	3
6	32190585	32190588	3 NOTCH4	3
6	32191628	32191710	82 NOTCH4	1
6	32261765	32261781	16 C6orf10	23
6	32290889	32290919	30 C6orf10	18
6	32291363	32291396	33 C6orf10	17
6	32299818	32299834	16 C6orf10	15
6	32303210	32303239	29 C6orf10	14
6	32307372	32307418	46 C6orf10	10
6	32333939	32333969	30 C6orf10	6
6	32336554	32336596	42 C6orf10	3
6	32337669	32337706	37 C6orf10	2
6	32363923	32363966	43 BTNL2	5
6	32370831	32370846	15 BTNL2	3
6	32410957	32411051	94 HLA-DRA	3
6	32411528	32411692	164 HLA-DRA	4
6	32485511	32485534	23 HLA-DRB5	6
6	32485829	32485859	30 HLA-DRB5	5
6	32486425	32486448	23 HLA-DRB5	4
6	32487142	32487160	18 HLA-DRB5	3
6	32487176	32487266	90 HLA-DRB5	3
6	32487333	32487433	100 HLA-DRB5	3
6	32489677	32489742	65 HLA-DRB5	2
6	32489820	32489940	120 HLA-DRB5	2
6	32497897	32498006	109 HLA-DRB5	1
6	32546863	32546886	23 HLA-DRB1	6
6	32548019	32548032	13 HLA-DRB1	5
6	32548046	32548052	6 HLA-DRB1	5
6	32548614	32548638	24 HLA-DRB1	4
6	32549329	32549348	19 HLA-DRB1	3
6	32549363	32549453	90 HLA-DRB1	3
6	32549520	32549620	100 HLA-DRB1	3
6	32551881	32551952	71 HLA-DRB1	2
6	32552040	32552160	120 HLA-DRB1	2
6	32557415	32557524	109 HLA-DRB1	1
6	32605231	32605271	40 HLA-DQA1	1
6	32605319	32605322	3 HLA-DQA1	1
6	32609126	32609340	214 HLA-DQA1	2
6	32609744	32609785	41 HLA-DQA1	3
6	32609961	32610035	74 HLA-DQA1	3
6	32610472	32610546	74 HLA-DQA1	4
6	32628008	32628031	23 HLA-DQB1	5
6	32629218	32629239	21 HLA-DQB1	4
6	32629739	32629904	165 HLA-DQB1	3



6	32629978	32630030	52 HLA-DQB1	3
6	32632570	32632794	224 HLA-DQB1	2
6	32634285	32634389	104 HLA-DQB1	1
6	32709216	32709225	9 HLA-DQA2	1
6	32709304	32709307	3 HLA-DQA2	1
6	32712992	32713045	53 HLA-DQA2	2
6	32713174	32713189	15 HLA-DQA2	2
6	32713849	32713854	5 HLA-DQA2	3
6	32714112	32714176	64 HLA-DQA2	4
6	32724225	32724248	23 HLA-DQB2	5
6	32725053	32725075	22 HLA-DQB2	4
6	32729432	32729492	60 HLA-DQB2	2
6	32729598	32729654	56 HLA-DQB2	2
6	32731242	32731252	10 HLA-DQB2	1
6	32782382	32782383	1 HLA-DOB	3
6	32784633	32784639	6 HLA-DOB	1
6	32796627	32796771	144 TAP2	11
6	32797203	32797318	115 TAP2	10
6	32797702	32797721	19 TAP2	9
6	32797825	32797827	2 TAP2	9
6	32805309	32805313	4 TAP2	2
6	32825035	32825125	90 PSMB9	3
6	32904971	32904991	20 HLA-DMB	3
6	32942302	32942307	5 BRD2	2
6	32945529	32945536	7 BRD2	8
6	33048503	33048550	47 HLA-DPB1	2
6	33048556	33048717	161 HLA-DPB1	2
6	33052722	33052822	100 HLA-DPB1	3
6	33052909	33053013	104 HLA-DPB1	3
6	33053647	33053671	24 HLA-DPB1	4
6	33053991	33054003	12 HLA-DPB1	5
6	33054009	33054020	11 HLA-DPB1	5
6	33136505	33136506	1 COL11A2	53
6	33136507	33136523	16 COL11A2	53
6	33136727	33136735	8 COL11A2	52
6	33136740	33136754	14 COL11A2	52
6	33138886	33138949	63 COL11A2	45
6	33139296	33139349	53 COL11A2	43
6	33139485	33139488	3 COL11A2	42
6	33141125	33141183	58 COL11A2	37
6	33141274	33141302	28 COL11A2	36
6	33141493	33141494	1 COL11A2	35
6	33141937	33142000	63 COL11A2	32
6	33144205	33144229	24 COL11A2	27
6	33144235	33144268	33 COL11A2	27

6	33144493	33144547	54 COL11A2	26
6	33147497	33147587	90 COL11A2	13
6	33152788	33152836	48 COL11A2	7
6	33153500	33153560	60 COL11A2	6
6	33163441	33163471	30 RXRB	7
6	33166953	33167105	152 RXRB	2
6	33168014	33168079	65 RXRB	1
6	33172881	33172901	20 HSD17B8	2
6	33179115	33179152	37 RING1	4
6	33235750	33235766	16 VPS52	9
6	33255127	33255149	22 WDR46	8
6	33256437	33256476	39 WDR46	3
6	33262782	33262794	12 RGL2	9
6	33272761	33272864	103 TAPBP	4
6	33281236	33281238	2 TAPBP	3
6	33283761	33283777	16 ZBTB22	1
6	33284689	33284698	9 ZBTB22	1
6	33290634	33290654	20 DAXX	1
6	33382272	33382320	48 PHF1	9
6	33382727	33382812	85 PHF1	11
6	33382813	33382834	21 PHF1	11
6	33382842	33382926	84 PHF1	11
6	33383007	33383036	29 PHF1	12
6	33383056	33383061	5 PHF1	12
6	33388037	33388112	75 SYNGAP1	1
6	33408520	33408552	32 SYNGAP1	11
6	33411512	33411513	1 SYNGAP1	15
6	33411514	33411518	4 SYNGAP1	15
6	33419572	33419633	61 SYNGAP1	19
6	33422946	33422993	47 ZBTB9	1
6	33694503	33694526	23 IP6K3	3
6	33694527	33694560	33 IP6K3	3
6	33756410	33756433	23 LEMD2	1
6	33756870	33756898	28 LEMD2	1
6	34507287	34507335	48 SPDEF	3
6	34735680	34735686	6 SNRPC	4
6	34857296	34857297	1 ANKS1A	1
6	35109000	35109011	11 TCP11	1
6	35286207	35286233	26 DEF6	7
6	35420452	35420575	123 FANCE	1
6	35444074	35444133	59 TEAD3	8
6	35744391	35744484	93 C6orf126	1
6	36688165	36688181	16 RAB44	4
6	36688182	36688184	2 RAB44	4
6	36688229	36688237	8 RAB44	4

6	36688244	36688255	11 RAB44	4
6	36688264	36688269	5 RAB44	4
6	36688273	36688284	11 RAB44	4
6	36688290	36688293	3 RAB44	4
6	36953806	36953951	145 MTCH1	1
6	37787717	37787797	80 ZFAND3	1
6	41565603	41565649	46 FOXP4	15
6	41909319	41909370	51 CCND3	1
6	42072196	42072242	46 C6orf132	4
6	42074414	42074431	17 C6orf132	4
6	42074480	42074533	53 C6orf132	4
6	42074540	42074548	8 C6orf132	4
6	42074566	42074568	2 C6orf132	4
6	42074966	42075168	202 C6orf132	4
6	42930946	42930956	10 GNMT	4
6	42946564	42946768	204 PEX6	1
6	42989423	42989429	6 RRP36	1
6	42989432	42989527	95 RRP36	1
6	43021547	43021601	54 CUL7	1
6	43196994	43197003	9 C6orf108	1
6	43197192	43197199	7 C6orf108	1
6	43307383	43307386	3 ZNF318	10
6	43336797	43336818	21 ZNF318	1
6	43336904	43337035	131 ZNF318	1
6	43738509	43738555	46 VEGFA	1
6	44225132	44225152	20 SLC35B2	1
6	44233331	44233359	28 NFKBIE	1
6	44233363	44233410	47 NFKBIE	1
6	44238475	44238484	9 TMEM151B	1
6	44238577	44238619	42 TMEM151B	1
6	44243842	44243844	2 TMEM151B	3
6	44243936	44243940	4 TMEM151B	3
6	44243941	44243970	29 TMEM151B	3
6	44244257	44244269	12 TMEM151B	3
6	47202627	47202639	12 TNFRSF21	5
6	50791221	50791223	2 TFAP2B	2
6	52369465	52369470	5 TRAM2	10
6	55988858	55988864	6 COL21A1	15
6	56006736	56006783	47 COL21A1	10
6	56955604	56955697	93 ZNF451	2
6	70410733	70410766	33 LMBRD1	12
6	72892311	72892387	76 RIMS1	6
6	73331913	73332008	95 KCNQ5	1
6	73332009	73332010	1 KCNQ5	1
6	74063573	74063574	1 DPPA5	2

6	74063576	74063577	1 DPPA5	2
6	74063582	74063584	2 DPPA5	2
6	74190727	74190817	90 MTO1	8
6	80816406	80816481	75 BCKDHB	1
6	80881094	80881109	15 BCKDHB	6
6	84061840	84061863	23 ME1	4
6	85473894	85473904	10 TBX18	1
6	88411165	88411243	78 AKIRIN2	1
6	88411245	88411246	1 AKIRIN2	1
6	89791043	89791098	55 PNR1	1
6	90405658	90405659	1 MDN1	61
6	99282995	99283078	83 POU3F2	1
6	1E+08	1E+08	40 PRDM13	4
6	1E+08	1E+08	20 PRDM13	4
6	1.08E+08	1.08E+08	38 SOBP	6
6	1.08E+08	1.08E+08	9 SOBP	6
6	1.08E+08	1.08E+08	96 SEC63	19
6	1.08E+08	1.08E+08	21 SEC63	13
6	1.08E+08	1.08E+08	13 SEC63	13
6	1.08E+08	1.08E+08	39 SEC63	13
6	1.08E+08	1.08E+08	4 OSTM1	3
6	1.08E+08	1.08E+08	22 OSTM1	3
6	1.08E+08	1.08E+08	17 OSTM1	1
6	1.09E+08	1.09E+08	13 FOXO3	1
6	1.09E+08	1.09E+08	184 FOXO3	1
6	1.09E+08	1.09E+08	114 FOXO3	1
6	1.09E+08	1.09E+08	39 FOXO3	1
6	1.1E+08	1.1E+08	3 LOC100506	3
6	1.1E+08	1.1E+08	15 LOC100506	3
6	1.1E+08	1.1E+08	9 AKD1	25
6	1.1E+08	1.1E+08	18 AKD1	18
6	1.1E+08	1.1E+08	86 AKD1	18
6	1.11E+08	1.11E+08	7 C6orf186	1
6	1.11E+08	1.11E+08	13 C6orf186	1
6	1.11E+08	1.11E+08	104 C6orf186	1
6	1.11E+08	1.11E+08	15 RPF2	7
6	1.11E+08	1.11E+08	138 SLC16A10	1
6	1.12E+08	1.12E+08	3 TRAF3IP2	3
6	1.14E+08	1.14E+08	147 MARCKS	2
6	1.14E+08	1.14E+08	167 MARCKS	2
6	1.16E+08	1.16E+08	21 NT5DC1	2
6	1.17E+08	1.17E+08	7 FAM162B	1
6	1.17E+08	1.17E+08	53 FAM162B	1
6	1.18E+08	1.18E+08	105 VGLL2	3
6	1.18E+08	1.18E+08	121 DCBLD1	1

6	1.18E+08	1.18E+08	89 NUS1	1
6	1.18E+08	1.18E+08	179 NUS1	1
6	1.18E+08	1.18E+08	4 NUS1	1
6	1.2E+08	1.2E+08	78 MAN1A1	1
6	1.24E+08	1.24E+08	23 TRDN	5
6	1.28E+08	1.28E+08	27 C6orf174	1
6	1.28E+08	1.28E+08	45 THEMIS	5
6	1.31E+08	1.31E+08	24 EPB41L2	10
6	1.31E+08	1.31E+08	28 AKAP7	1
6	1.32E+08	1.32E+08	72 ENPP1	1
6	1.32E+08	1.32E+08	68 CTGF	2
6	1.33E+08	1.33E+08	12 MOXD1	1
6	1.37E+08	1.37E+08	15 MAP3K5	1
6	1.37E+08	1.37E+08	37 PEX7	1
6	1.37E+08	1.37E+08	47 SLC35D3	2
6	1.39E+08	1.39E+08	92 HEBP2	1
6	1.39E+08	1.39E+08	14 HEBP2	1
6	1.39E+08	1.39E+08	9 NHSL1	2
6	1.39E+08	1.39E+08	48 LOC100507	2
6	1.39E+08	1.39E+08	78 HECA	1
6	1.44E+08	1.44E+08	13 PHACTR2	1
6	1.45E+08	1.45E+08	13 UTRN	38
6	1.46E+08	1.46E+08	139 EPM2A	1
6	1.46E+08	1.46E+08	64 LOC100652	1
6	1.46E+08	1.46E+08	17 LOC100652	1
6	1.47E+08	1.47E+08	34 RAB32	1
6	1.48E+08	1.48E+08	3 STXBP5	6
6	1.5E+08	1.5E+08	1 ZC3H12D	5
6	1.5E+08	1.5E+08	1 ZC3H12D	5
6	1.5E+08	1.5E+08	27 ZC3H12D	5
6	1.5E+08	1.5E+08	46 ZC3H12D	5
6	1.5E+08	1.5E+08	15 PCMT1	1
6	1.5E+08	1.5E+08	44 LRP11	1
6	1.5E+08	1.5E+08	49 LRP11	1
6	1.5E+08	1.5E+08	27 PPP1R14C	1
6	1.51E+08	1.51E+08	223 MTHFD1L	1
6	1.51E+08	1.51E+08	12 MTHFD1L	18
6	1.52E+08	1.52E+08	3 AKAP12	1
6	1.52E+08	1.52E+08	117 AKAP12	1
6	1.53E+08	1.53E+08	2 MTRF1L	3
6	1.53E+08	1.53E+08	37 MTRF1L	3
6	1.53E+08	1.53E+08	1 MTRF1L	1
6	1.53E+08	1.53E+08	63 MTRF1L	1
6	1.57E+08	1.57E+08	6 ARID1B	1
6	1.57E+08	1.57E+08	151 ARID1B	1

6	1.57E+08	1.57E+08	27 ARID1B	1
6	1.58E+08	1.58E+08	21 SNX9	1
6	1.59E+08	1.59E+08	12 TULP4	13
6	1.59E+08	1.59E+08	14 TULP4	13
6	1.59E+08	1.59E+08	1 TULP4	13
6	1.59E+08	1.59E+08	1 RSPH3	1
6	1.6E+08	1.6E+08	118 FNDC1	1
6	1.6E+08	1.6E+08	96 IGF2R	1
6	1.61E+08	1.61E+08	54 SLC22A3	1
6	1.64E+08	1.64E+08	45 PACRG	5
6	1.67E+08	1.67E+08	1 PRR18	1
6	1.67E+08	1.67E+08	51 PRR18	1
6	1.67E+08	1.67E+08	166 PRR18	1
6	1.68E+08	1.68E+08	3 TCP10L2	7
6	1.68E+08	1.68E+08	12 TCP10	4
6	1.68E+08	1.68E+08	24 HGC6.3	1
6	1.68E+08	1.68E+08	1 HGC6.3	1
6	1.68E+08	1.68E+08	7 HGC6.3	1
6	1.68E+08	1.68E+08	2 HGC6.3	1
6	1.68E+08	1.68E+08	42 HGC6.3	1
6	1.68E+08	1.68E+08	8 KIF25	1
6	1.68E+08	1.68E+08	26 FRMD1	8
6	1.69E+08	1.69E+08	215 DACT2	1
6	1.7E+08	1.7E+08	6 THBS2	10
6	1.7E+08	1.7E+08	39 PHF10	2
6	1.7E+08	1.7E+08	36 PHF10	1
6	1.71E+08	1.71E+08	114 PDCD2	1
6	1.71E+08	1.71E+08	12 PDCD2	1
7	766457	766669	212 HEATR2	1
7	766742	766838	96 HEATR2	1
7	766839	766923	84 HEATR2	1
7	994027	994118	91 ADAP1	1
7	1022843	1022851	8 CYP2W1	1
7	1022865	1022866	1 CYP2W1	1
7	1272651	1272679	28 UNCX	1
7	1272800	1272805	5 UNCX	1
7	1272806	1272925	119 UNCX	1
7	1275746	1275760	14 UNCX	3
7	1275829	1275851	22 UNCX	3
7	1275931	1275943	12 UNCX	3
7	1275946	1275947	1 UNCX	3
7	1275951	1275953	2 UNCX	3
7	1275955	1275997	42 UNCX	3
7	1276169	1276210	41 UNCX	3
7	1276323	1276444	121 UNCX	3

7	1276495	1276615	120 UNCX	3
7	1510772	1510776	4 INTS1	45
7	1520484	1520506	22 INTS1	28
7	1538606	1538655	49 INTS1	7
7	1587533	1587542	9 TMEM184A	7
7	1786020	1786021	1 ELFN1	1
7	1786023	1786036	13 ELFN1	1
7	2353958	2353969	11 SNX8	1
7	2353986	2353987	1 SNX8	1
7	2354055	2354061	6 SNX8	1
7	2394579	2394611	32 EIF3B	1
7	2394684	2394816	132 EIF3B	1
7	2559491	2559607	116 LFNG	1
7	2559683	2559706	23 LFNG	1
7	2578857	2578865	8 BRAT1	12
7	2581037	2581038	1 BRAT1	8
7	2581069	2581087	18 BRAT1	8
7	2687118	2687134	16 TTYH3	4
7	2749319	2749365	46 AMZ1	5
7	2883684	2883708	24 GNA12	1
7	3341406	3341521	115 SDK1	1
7	4721935	4722046	111 FOXX1	1
7	4722185	4722278	93 FOXX1	1
7	4801927	4802081	154 FOXX1	9
7	4802090	4802096	6 FOXX1	9
7	4802097	4802099	2 FOXX1	9
7	4843236	4843258	22 RADIL	10
7	4854906	4854931	25 RADIL	8
7	4855033	4855035	2 RADIL	8
7	5330856	5330863	7 SLC29A4	3
7	5331398	5331457	59 SLC29A4	4
7	5336586	5336612	26 SLC29A4	6
7	5338678	5338692	14 SLC29A4	7
7	5338974	5338982	8 SLC29A4	8
7	5340048	5340090	42 SLC29A4	9
7	5340170	5340177	7 SLC29A4	9
7	5340261	5340288	27 SLC29A4	9
7	5342521	5342570	49 SLC29A4	10
7	5347732	5347797	65 TNRC18	29
7	5347798	5347800	2 TNRC18	29
7	5348501	5348543	42 TNRC18	28
7	5348550	5348585	35 TNRC18	28
7	5352129	5352263	134 TNRC18	26
7	5352653	5352729	76 TNRC18	26
7	5352733	5352734	1 TNRC18	26

7	5352739	5352740	1 TNRC18	26
7	5352758	5352785	27 TNRC18	26
7	5352863	5352865	2 TNRC18	26
7	5352875	5352876	1 TNRC18	26
7	5352878	5352879	1 TNRC18	26
7	5352891	5352896	5 TNRC18	26
7	5352901	5352957	56 TNRC18	26
7	5352976	5352977	1 TNRC18	26
7	5353246	5353412	166 TNRC18	26
7	5360158	5360225	67 TNRC18	22
7	5360699	5360725	26 TNRC18	21
7	5360726	5360727	1 TNRC18	21
7	5360770	5360772	2 TNRC18	21
7	5360773	5360774	1 TNRC18	21
7	5360780	5360826	46 TNRC18	21
7	5372289	5372357	68 TNRC18	18
7	5401246	5401256	10 TNRC18	13
7	5413716	5414034	318 TNRC18	9
7	5414036	5414043	7 TNRC18	9
7	5428437	5428471	34 TNRC18	4
7	5428803	5428838	35 TNRC18	4
7	5428840	5428842	2 TNRC18	4
7	5632563	5632612	49 FSCN1	1
7	5938426	5938555	129 CCZ1	1
7	6006506	6006540	34 RSPH10B	1
7	6049073	6049134	61 AIMP2	1
7	6193400	6193407	7 USP42	14
7	6312100	6312143	43 CYTH3	1
7	6543125	6543135	10 GRID2IP	16
7	6547728	6547742	14 GRID2IP	13
7	6547744	6547915	171 GRID2IP	13
7	6548705	6548783	78 GRID2IP	12
7	6548786	6548833	47 GRID2IP	12
7	6548836	6548838	2 GRID2IP	12
7	6566251	6566269	18 GRID2IP	3
7	6579384	6579391	7 GRID2IP	2
7	6590648	6590821	173 GRID2IP	1
7	6629910	6629915	5 C7orf26	1
7	6629920	6629921	1 C7orf26	1
7	6647674	6647746	72 C7orf26	6
7	6661855	6662048	193 ZNF853	3
7	6662050	6662052	2 ZNF853	3
7	6662053	6662055	2 ZNF853	3
7	6662056	6662059	3 ZNF853	3
7	6662460	6662607	147 ZNF853	3



7	6836249	6836266	17 RSPH10B2	18
7	6837989	6838010	21 RSPH10B2	19
7	6865704	6865833	129 C7orf28B	1
7	8009124	8009244	120 GLCCI1	1
7	8009319	8009363	44 GLCCI1	1
7	11021994	11022005	11 PHF14	2
7	11871468	11871531	63 THSD7A	1
7	12610575	12610592	17 SCIN	1
7	15458279	15458283	4 AGMO	5
7	16460913	16460914	1 ISPD	1
7	16619694	16619731	37 LOC100506	8
7	19156815	19156821	6 TWIST1	1
7	19812204	19812224	20 TMEM196	1
7	20823904	20823978	74 SP8	2
7	20823981	20823985	4 SP8	2
7	20824388	20824423	35 SP8	2
7	20824424	20824425	1 SP8	2
7	20825069	20825172	103 SP8	2
7	21582876	21582877	1 DNAH11	1
7	24745938	24745944	6 DFNA5	7
7	26192331	26192510	179 NFE2L3	1
7	27141877	27141898	21 HOXA2	1
7	27147859	27147861	2 HOXA3	2
7	27149999	27150020	21 HOXA3	1
7	27169958	27170049	91 HOXA4	1
7	27170186	27170192	6 HOXA4	1
7	27170198	27170199	1 HOXA4	1
7	27213077	27213104	27 HOXA10	1
7	27213224	27213231	7 HOXA10	1
7	27213711	27213766	55 HOXA10	1
7	27224102	27224111	9 HOXA11	1
7	27224119	27224121	2 HOXA11	1
7	27224131	27224136	5 HOXA11	1
7	27224141	27224142	1 HOXA11	1
7	27224150	27224155	5 HOXA11	1
7	27239236	27239295	59 HOXA13	1
7	27239345	27239465	120 HOXA13	1
7	27239556	27239576	20 HOXA13	1
7	27702312	27702408	96 HIBADH	1
7	29874367	29874382	15 WIPF3	1
7	29923551	29923577	26 WIPF3	4
7	29923637	29923984	347 WIPF3	4
7	29923985	29923987	2 WIPF3	4
7	30324969	30325102	133 ZNRF2	1
7	30325208	30325366	158 ZNRF2	1

7	30325375	30325391	16 ZNRF2	1
7	30739555	30739654	99 CRHR2	1
7	33148859	33148989	130 RP9	1
7	33303899	33303906	7 BBS9	6
7	33303973	33303991	18 BBS9	6
7	35077425	35077468	43 DPY19L1	1
7	35077479	35077481	2 DPY19L1	1
7	36464201	36464207	6 ANLN	16
7	39379391	39379395	4 POU6F2	5
7	39990326	39990391	65 CDK13	1
7	39990411	39990478	67 CDK13	1
7	39990787	39990788	1 CDK13	1
7	39990793	39990853	60 CDK13	1
7	39990864	39990865	1 CDK13	1
7	39990899	39990901	2 CDK13	1
7	39991276	39991321	45 CDK13	1
7	43946156	43946179	23 URGCP-MR	1
7	43946156	43946179	23 URGCP	1
7	43946156	43946179	23 URGCP-MR	1
7	43946156	43946179	23 URGCP	1
7	44161455	44161477	22 POLD2	1
7	44161486	44161498	12 POLD2	1
7	44268394	44268395	1 CAMK2B	19
7	44268396	44268399	3 CAMK2B	19
7	44268404	44268406	2 CAMK2B	19
7	44558222	44558270	48 NPC1L1	15
7	44924904	44924952	48 PURB	1
7	45002333	45002352	19 MYO1G	22
7	45002719	45002728	9 MYO1G	21
7	45009309	45009330	21 MYO1G	11
7	45128422	45128498	76 NACAD	1
7	45614236	45614384	148 ADCY1	1
7	45928603	45928605	2 IGFBP1	1
7	45960378	45960463	85 IGFBP3	1
7	45960530	45960541	11 IGFBP3	1
7	45960544	45960642	98 IGFBP3	1
7	45960645	45960648	3 IGFBP3	1
7	47937644	47937645	1 PKD1L1	14
7	49815027	49815058	31 VWC2	1
7	49815197	49815198	1 VWC2	1
7	49815206	49815214	8 VWC2	1
7	50132739	50132795	56 ZBPB	1
7	51092839	51092982	143 COBL	12
7	51384285	51384298	13 COBL	1
7	51384299	51384301	2 COBL	1

7	55640021	55640022	1 VOPP1	1
7	56032298	56032399	101 GBAS	1
7	62858409	62858561	152 LOC100506	1
7	62858575	62858641	66 LOC100506	1
7	65338354	65338557	203 VKORC1L1	1
7	69064698	69064762	64 AUTS2	1
7	70229764	70229771	7 AUTS2	8
7	70229774	70229867	93 AUTS2	8
7	72436285	72436319	34 TRIM74	1
7	72722423	72722471	48 NSUN5	2
7	72848333	72848415	82 FZD9	1
7	72971911	72971913	2 BCL7B	1
7	72992757	72992758	1 TBL2	1
7	73011565	73011775	210 MLXIPL	9
7	73011912	73011913	1 MLXIPL	9
7	73011918	73011934	16 MLXIPL	9
7	73011935	73011937	2 MLXIPL	9
7	73011938	73011939	1 MLXIPL	9
7	73011942	73011943	1 MLXIPL	9
7	73038811	73038827	16 MLXIPL	1
7	73085626	73085627	1 VPS37D	4
7	73133927	73133966	39 STX1A	1
7	73472029	73472031	2 ELN	22
7	73787257	73787258	1 CLIP2	8
7	73952484	73952490	6 GTF2IRD1	11
7	74160731	74160755	24 GTF2I	22
7	74422155	74422189	34 GATSL1	2
7	74776379	74776412	33 LOC653375	6
7	74814570	74814581	11 GATSL2	3
7	75028459	75028498	39 TRIM73	1
7	75028551	75028621	70 TRIM73	1
7	75677510	75677515	5 MDH2	1
7	75677524	75677549	25 MDH2	1
7	75864427	75864429	2 SRRM3	1
7	75864436	75864493	57 SRRM3	1
7	75864495	75864497	2 SRRM3	1
7	75864499	75864504	5 SRRM3	1
7	75864513	75864515	2 SRRM3	1
7	75864519	75864532	13 SRRM3	1
7	75864572	75864596	24 SRRM3	1
7	75864600	75864622	22 SRRM3	1
7	75889430	75889441	11 SRRM3	4
7	75910781	75910838	57 SRRM3	11
7	75911004	75911125	121 SRRM3	11
7	75911961	75912040	79 SRRM3	12

7	75912160	75912195	35 SRRM3	12
7	75912278	75912279	1 SRRM3	13
7	75933175	75933187	12 HSPB1	2
7	76112444	76112448	4 DTX2	2
7	76121465	76121513	48 DTX2	3
7	76121527	76121575	48 DTX2	3
7	76133720	76133767	47 DTX2	8
7	76141096	76141101	5 UPK3B	2
7	76141117	76141204	87 UPK3B	2
7	77045525	77045643	118 PION	1
7	77648966	77649001	35 MAGI2	22
7	81642810	81642831	21 CACNA2D1	14
7	81695839	81695845	6 CACNA2D1	8
7	82582990	82583006	16 PCLO	5
7	82784506	82784512	6 PCLO	2
7	86688741	86688762	21 KIAA1324L	1
7	86688821	86688834	13 KIAA1324L	1
7	87370810	87370828	18 RUNDC3B	7
7	87370897	87370900	3 RUNDC3B	7
7	87563776	87563779	3 ADAM22	1
7	87849288	87849289	1 SRI	1
7	90894191	90894475	284 FZD1	1
7	92077239	92077297	58 GATAD1	1
7	92157676	92157714	38 PEX1	1
7	94030874	94030875	1 COL1A2	6
7	94040363	94040428	65 COL1A2	23
7	94139491	94139507	16 CASD1	1
7	96635523	96635558	35 DLX6	1
7	97736593	97736597	4 LMTK2	1
7	97911201	97911254	53 BRI3	1
7	98246817	98246963	146 NPTX2	1
7	98247073	98247074	1 NPTX2	1
7	98247076	98247078	2 NPTX2	1
7	99023209	99023230	21 ATP5J2-PTC	7
7	99023209	99023230	21 PTC1	5
7	99023209	99023230	21 ATP5J2-PTC	7
7	99023209	99023230	21 PTC1	5
7	99516627	99516852	225 TRIM4	1
7	99516854	99516861	7 TRIM4	1
7	99755709	99755719	10 C7orf43	1
7	99769397	99769419	22 GPC2	7
7	99769433	99769438	5 GPC2	7
7	99769459	99769461	2 GPC2	7
7	99769462	99769471	9 GPC2	7
7	99818165	99818204	39 PVRIG	3

7	1E+08	1E+08	6 C7orf47	1
7	1E+08	1E+08	6 TSC22D4	1
7	1E+08	1E+08	15 C7orf51	2
7	1E+08	1E+08	11 LRCH4	1
7	1E+08	1E+08	63 TFR2	16
7	1E+08	1E+08	20 GIGYF1	3
7	1E+08	1E+08	17 EPHB4	15
7	1E+08	1E+08	18 EPHB4	15
7	1E+08	1E+08	10 EPHB4	15
7	1E+08	1E+08	51 SLC12A9	13
7	1E+08	1E+08	22 ACHE	3
7	1.01E+08	1.01E+08	46 TRIM56	1
7	1.01E+08	1.01E+08	4 VGF	1
7	1.01E+08	1.01E+08	136 VGF	1
7	1.01E+08	1.01E+08	1 DGAT2L7	5
7	1.01E+08	1.01E+08	1 DGAT2L7	5
7	1.01E+08	1.01E+08	54 EMID2	1
7	1.02E+08	1.02E+08	80 CUX1	24
7	1.02E+08	1.02E+08	13 CUX1	24
7	1.02E+08	1.02E+08	109 SH2B2	1
7	1.02E+08	1.02E+08	5 SH2B2	2
7	1.02E+08	1.02E+08	102 SH2B2	7
7	1.02E+08	1.02E+08	63 SH2B2	7
7	1.02E+08	1.02E+08	139 RASA4B	5
7	1.02E+08	1.02E+08	6 RASA4B	1
7	1.02E+08	1.02E+08	23 RASA4B	1
7	1.02E+08	1.02E+08	90 RASA4	17
7	1.02E+08	1.02E+08	46 RASA4	8
7	1.02E+08	1.02E+08	91 RASA4	6
7	1.02E+08	1.02E+08	139 RASA4	5
7	1.02E+08	1.02E+08	30 RASA4	4
7	1.02E+08	1.02E+08	66 RASA4	2
7	1.02E+08	1.02E+08	62 UPK3BL	6
7	1.02E+08	1.02E+08	124 UPK3BL	3
7	1.02E+08	1.02E+08	90 UPK3BL	1
7	1.02E+08	1.02E+08	80 POLR2J2	3
7	1.02E+08	1.02E+08	5 FAM185A	1
7	1.02E+08	1.02E+08	4 FAM185A	1
7	1.02E+08	1.02E+08	2 FAM185A	1
7	1.02E+08	1.02E+08	60 FAM185A	1
7	1.02E+08	1.02E+08	32 FAM185A	1
7	1.02E+08	1.02E+08	2 FAM185A	1
7	1.06E+08	1.06E+08	1 SYPL1	2
7	1.06E+08	1.06E+08	5 C7orf74	1
7	1.06E+08	1.06E+08	27 C7orf74	1

7	1.07E+08	1.07E+08	14 PRKAR2B	1
7	1.15E+08	1.15E+08	66 MDFIC	1
7	1.23E+08	1.23E+08	67 CADPS2	1
7	1.23E+08	1.23E+08	6 CADPS2	1
7	1.23E+08	1.23E+08	9 SLC13A1	6
7	1.24E+08	1.24E+08	21 TMEM229A	1
7	1.24E+08	1.24E+08	59 TMEM229A	1
7	1.28E+08	1.28E+08	4 PRRT4	4
7	1.28E+08	1.28E+08	199 PRRT4	4
7	1.28E+08	1.28E+08	155 IMPDH1	1
7	1.28E+08	1.28E+08	4 CCDC136	11
7	1.28E+08	1.28E+08	13 CCDC136	16
7	1.28E+08	1.28E+08	10 FLNC	15
7	1.29E+08	1.29E+08	13 LOC100130	1
7	1.29E+08	1.29E+08	165 KCP	18
7	1.29E+08	1.29E+08	72 SMO	1
7	1.29E+08	1.29E+08	60 SMO	1
7	1.29E+08	1.29E+08	7 AHCYL2	1
7	1.29E+08	1.29E+08	24 AHCYL2	1
7	1.29E+08	1.29E+08	32 FAM40B	1
7	1.3E+08	1.3E+08	92 KLHDC10	1
7	1.3E+08	1.3E+08	60 KLF14	1
7	1.3E+08	1.3E+08	1 KLF14	1
7	1.3E+08	1.3E+08	4 KLF14	1
7	1.3E+08	1.3E+08	1 KLF14	1
7	1.3E+08	1.3E+08	18 KLF14	1
7	1.3E+08	1.3E+08	1 KLF14	1
7	1.3E+08	1.3E+08	13 KLF14	1
7	1.33E+08	1.33E+08	9 CHCHD3	4
7	1.33E+08	1.33E+08	2 CHCHD3	4
7	1.35E+08	1.35E+08	52 STRA8	6
7	1.35E+08	1.35E+08	13 NUP205	25
7	1.38E+08	1.38E+08	80 DGKI	1
7	1.38E+08	1.38E+08	16 DGKI	1
7	1.38E+08	1.38E+08	8 AKR1D1	4
7	1.38E+08	1.38E+08	1 AKR1D1	4
7	1.38E+08	1.38E+08	7 TRIM24	1
7	1.38E+08	1.38E+08	6 TRIM24	1
7	1.38E+08	1.38E+08	8 TRIM24	1
7	1.38E+08	1.38E+08	4 TRIM24	1
7	1.39E+08	1.39E+08	10 KIAA1549	14
7	1.39E+08	1.39E+08	8 KIAA1549	1
7	1.39E+08	1.39E+08	120 UBN2	1
7	1.39E+08	1.39E+08	17 KLRG2	1
7	1.39E+08	1.39E+08	42 KLRG2	1

7	1.39E+08	1.39E+08	3 KLRG2	1
7	1.39E+08	1.39E+08	2 KLRG2	1
7	1.39E+08	1.39E+08	95 CLEC2L	1
7	1.4E+08	1.4E+08	69 PARP12	1
7	1.4E+08	1.4E+08	1 MKRN1	1
7	1.4E+08	1.4E+08	108 MKRN1	1
7	1.41E+08	1.41E+08	3 BRAF	1
7	1.41E+08	1.41E+08	23 BRAF	1
7	1.41E+08	1.41E+08	121 KIAA1147	1
7	1.41E+08	1.41E+08	101 KIAA1147	1
7	1.42E+08	1.42E+08	2 TRBV10-2	1
7	1.42E+08	1.42E+08	28 TRBV10-2	1
7	1.42E+08	1.42E+08	13 TRBV7-3	2
7	1.42E+08	1.42E+08	92 TRBV6-4	2
7	1.42E+08	1.42E+08	31 TRBV19	2
7	1.42E+08	1.42E+08	54 TRBV27	2
7	1.42E+08	1.42E+08	18 TRBD1	1
7	1.42E+08	1.42E+08	9 TRBJ2-3	1
7	1.43E+08	1.43E+08	52 TRBV30	2
7	1.43E+08	1.43E+08	22 KEL	3
7	1.43E+08	1.43E+08	37 FAM131B	1
7	1.43E+08	1.43E+08	7 EPHA1	11
7	1.43E+08	1.43E+08	23 EPHA1	5
7	1.43E+08	1.43E+08	53 EPHA1	1
7	1.44E+08	1.44E+08	42 FAM115A	2
7	1.44E+08	1.44E+08	1 OR2A7	1
7	1.44E+08	1.44E+08	195 OR2A7	1
7	1.44E+08	1.44E+08	23 ARHGEF5	1
7	1.44E+08	1.44E+08	38 ARHGEF5	1
7	1.44E+08	1.44E+08	7 ARHGEF5	9
7	1.49E+08	1.49E+08	1 ZNF282	8
7	1.49E+08	1.49E+08	121 ZNF282	8
7	1.49E+08	1.49E+08	41 ZNF282	8
7	1.49E+08	1.49E+08	4 ZNF783	1
7	1.49E+08	1.49E+08	3 ZNF783	1
7	1.49E+08	1.49E+08	2 ZNF746	7
7	1.49E+08	1.49E+08	18 ZNF746	7
7	1.49E+08	1.49E+08	33 ZNF746	1
7	1.49E+08	1.49E+08	49 SSPO	4
7	1.49E+08	1.49E+08	73 SSPO	12
7	1.49E+08	1.49E+08	2 SSPO	12
7	1.49E+08	1.49E+08	18 SSPO	30
7	1.49E+08	1.49E+08	50 SSPO	43
7	1.49E+08	1.49E+08	8 SSPO	49
7	1.5E+08	1.5E+08	14 SSPO	64

7	1.5E+08	1.5E+08	36 SSPO	76
7	1.5E+08	1.5E+08	1 SSPO	80
7	1.5E+08	1.5E+08	2 SSPO	80
7	1.5E+08	1.5E+08	3 SSPO	84
7	1.5E+08	1.5E+08	34 SSPO	84
7	1.5E+08	1.5E+08	7 ZNF862	1
7	1.5E+08	1.5E+08	13 ZNF775	2
7	1.5E+08	1.5E+08	2 ZNF775	2
7	1.5E+08	1.5E+08	12 ZNF775	2
7	1.5E+08	1.5E+08	1 ZNF775	2
7	1.5E+08	1.5E+08	12 ZNF775	2
7	1.5E+08	1.5E+08	22 GIMAP6	1
7	1.51E+08	1.51E+08	7 KCNH2	12
7	1.51E+08	1.51E+08	55 KCNH2	4
7	1.51E+08	1.51E+08	8 NOS3	19
7	1.51E+08	1.51E+08	15 NOS3	19
7	1.51E+08	1.51E+08	17 NOS3	20
7	1.51E+08	1.51E+08	2 ATG9B	1
7	1.51E+08	1.51E+08	2 ATG9B	1
7	1.51E+08	1.51E+08	2 ATG9B	1
7	1.51E+08	1.51E+08	11 SLC4A2	2
7	1.51E+08	1.51E+08	10 SLC4A2	3
7	1.51E+08	1.51E+08	14 SLC4A2	5
7	1.51E+08	1.51E+08	3 SLC4A2	16
7	1.51E+08	1.51E+08	119 AGAP3	1
7	1.51E+08	1.51E+08	19 AGAP3	1
7	1.51E+08	1.51E+08	63 GBX1	1
7	1.51E+08	1.51E+08	180 SMARCD3	2
7	1.51E+08	1.51E+08	17 WDR86	6
7	1.51E+08	1.51E+08	2 WDR86	6
7	1.51E+08	1.51E+08	13 WDR86	6
7	1.51E+08	1.51E+08	40 WDR86	6
7	1.51E+08	1.51E+08	45 WDR86	1
7	1.52E+08	1.52E+08	19 ACTR3B	1
7	1.52E+08	1.52E+08	1 ACTR3B	1
7	1.55E+08	1.55E+08	17 EN2	1
7	1.56E+08	1.56E+08	17 RBM33	12
7	1.56E+08	1.56E+08	4 RBM33	12
7	1.56E+08	1.56E+08	5 SHH	3
7	1.57E+08	1.57E+08	9 MNX1	1
7	1.57E+08	1.57E+08	149 MNX1	1
7	1.57E+08	1.57E+08	198 MNX1	1
7	1.57E+08	1.57E+08	59 DNAJB6	8
7	1.57E+08	1.57E+08	6 DNAJB6	8
7	1.58E+08	1.58E+08	3 PTPRN2	1



7	1.59E+08	1.59E+08	11	ESYT2	1
7	1.59E+08	1.59E+08	120	ESYT2	1
7	1.59E+08	1.59E+08	19	ESYT2	1
7	1.59E+08	1.59E+08	44	VIPR2	13
7	1.59E+08	1.59E+08	16	VIPR2	13
7	1.59E+08	1.59E+08	1	VIPR2	1
7	1.59E+08	1.59E+08	19	VIPR2	1
8	494645	494674	29	C8orf42	1
8	1808312	1808313	1	ARHGEF10	3
8	1808317	1808325	8	ARHGEF10	3
8	1949493	1949600	107	KBTBD11	1
8	1949834	1949837	3	KBTBD11	1
8	1949838	1949840	2	KBTBD11	1
8	1949845	1949846	1	KBTBD11	1
8	1949952	1949964	12	KBTBD11	1
8	1950445	1950449	4	KBTBD11	1
8	1950451	1950467	16	KBTBD11	1
8	1951194	1951201	7	KBTBD11	1
8	1951203	1951204	1	KBTBD11	1
8	1951206	1951231	25	KBTBD11	1
8	2017466	2017471	5	MYOM2	6
8	2017473	2017481	8	MYOM2	6
8	6582386	6582391	5	AGPAT5	2
8	6692953	6692982	29	XKR5	1
8	7274291	7274316	25	DEFB4B	1
8	8176340	8176359	19	SGK223	5
8	8860662	8860686	24	ERI1	1
8	10555480	10555482	2	C8orf74	3
8	11058587	11058589	2	XKR6	1
8	11566041	11566399	358	GATA4	1
8	12612248	12612271	23	LONRF1	1
8	12612534	12612604	70	LONRF1	1
8	12612781	12612782	1	LONRF1	1
8	12612783	12612934	151	LONRF1	1
8	13960000	13960013	13	SGCZ	7
8	16859385	16859389	4	FGF20	1
8	16859393	16859398	5	FGF20	1
8	16884949	16885145	196	EFHA2	1
8	17014250	17014279	29	ZDHHC2	1
8	20054994	20054995	1	ATP6V1B2	1
8	21640126	21640145	19	GFRA2	2
8	21777277	21777304	27	XPO7	1
8	21924382	21924409	27	EPB49	1
8	21946760	21946814	54	FAM160B2	1
8	21966671	21966708	37	NUDT18	1

8	21966731	21966736	5 NUDT18	1
8	21966739	21966740	1 NUDT18	1
8	21966742	21966743	1 NUDT18	1
8	21973813	21973815	2 HR	17
8	21974389	21974474	85 HR	16
8	21976481	21976485	4 HR	15
8	22009390	22009391	1 LGI3	6
8	22009404	22009405	1 LGI3	6
8	22013950	22014007	57 LGI3	1
8	22423334	22423390	56 SORBS3	11
8	22436512	22436513	1 PDLIM2	1
8	22436514	22436516	2 PDLIM2	1
8	22436644	22436647	3 PDLIM2	1
8	22436652	22436656	4 PDLIM2	1
8	22436660	22436914	254 PDLIM2	1
8	22437034	22437045	11 PDLIM2	1
8	22446832	22446892	60 PDLIM2	7
8	22457229	22457278	49 C8orf58	1
8	25315710	25315760	50 KCTD9	1
8	26372075	26372078	3 DPYSL2	1
8	27685715	27685720	5 PBK	2
8	27903039	27903055	16 C8orf80	11
8	27903057	27903061	4 C8orf80	11
8	28929480	28929609	129 KIF13B	39
8	30585206	30585317	111 GSR	1
8	35093381	35093410	29 UNC5D	1
8	37654782	37654954	172 GPR124	1
8	37654957	37654960	3 GPR124	1
8	37698363	37698372	9 GPR124	18
8	37699111	37699173	62 GPR124	19
8	37699288	37699365	77 GPR124	19
8	37699656	37699662	6 GPR124	19
8	38832032	38832034	2 HTRA4	1
8	38832037	38832047	10 HTRA4	1
8	41571678	41571682	4 ANK1	16
8	41790647	41790648	1 KAT6A	16
8	41790735	41790776	41 KAT6A	16
8	42911507	42911519	12 FNTA	1
8	42995639	42995762	123 HGSNAT	1
8	48173546	48173588	42 KIAA0146	1
8	48649878	48649896	18 CEBPD	1
8	48650016	48650080	64 CEBPD	1
8	48650215	48650244	29 CEBPD	1
8	48650246	48650249	3 CEBPD	1
8	48650296	48650356	60 CEBPD	1

8	48650638	48650687	49	CEBPD	1
8	48732068	48732076	8	PRKDC	67
8	48872645	48872666	21	PRKDC	1
8	53571533	53571541	8	RB1CC1	11
8	55014310	55014319	9	LYPLA1	1
8	56015264	56015265	1	XKR4	1
8	59323940	59324033	93	UBXN2B	1
8	63998523	63998585	62	TTPA	1
8	65493625	65493626	1	BHLHE22	1
8	65493632	65493633	1	BHLHE22	1
8	65493951	65493956	5	BHLHE22	1
8	65493968	65493977	9	BHLHE22	1
8	66753741	66753748	7	PDE7A	1
8	67417680	67417690	10	C8orf46	3
8	67417692	67417703	11	C8orf46	3
8	67873843	67873850	7	TCF24	1
8	67873920	67874005	85	TCF24	1
8	73933007	73933045	38	TERF1	3
8	73939254	73939270	16	TERF1	6
8	73939271	73939273	2	TERF1	6
8	73939278	73939292	14	TERF1	6
8	75929147	75929181	34	CRISPLD1	7
8	77765306	77765336	30	ZFHX4	9
8	81399045	81399057	12	ZBTB10	1
8	81399080	81399177	97	ZBTB10	1
8	85717000	85717042	42	RALYL	4
8	86089746	86089762	16	E2F5	1
8	90796273	90796372	99	RIPK2	8
8	91657845	91657944	99	TMEM64	1
8	91658032	91658130	98	TMEM64	1
8	91813914	91813948	34	NECAB1	2
8	94777633	94777641	8	TMEM67	5
8	96037232	96037325	93	C8orf38	1
8	98788016	98788017	1	LAPTM4B	1
8	98788133	98788180	47	LAPTM4B	1
8	1.01E+08	1.01E+08	10	VPS13B	51
8	1.01E+08	1.01E+08	2	RGS22	1
8	1.04E+08	1.04E+08	1	BAALC	1
8	1.04E+08	1.04E+08	4	CTHRC1	1
8	1.05E+08	1.05E+08	34	DPYS	1
8	1.09E+08	1.09E+08	45	EIF3E	8
8	1.09E+08	1.09E+08	85	EIF3E	8
8	1.09E+08	1.09E+08	5	EIF3E	7
8	1.19E+08	1.19E+08	18	EXT1	6
8	1.2E+08	1.2E+08	48	MAL2	1

8	1.2E+08	1.2E+08	3 MAL2	1
8	1.25E+08	1.25E+08	24 FAM91A1	6
8	1.25E+08	1.25E+08	37 FAM91A1	13
8	1.25E+08	1.25E+08	111 TMEM65	1
8	1.26E+08	1.26E+08	2 TRIB1	1
8	1.26E+08	1.26E+08	120 TRIB1	1
8	1.33E+08	1.33E+08	1 KCNQ3	1
8	1.36E+08	1.36E+08	15 ZFAT	1
8	1.4E+08	1.4E+08	59 COL22A1	8
8	1.42E+08	1.42E+08	31 EIF2C2	1
8	1.42E+08	1.42E+08	4 PTK2	1
8	1.42E+08	1.42E+08	14 FLJ43860	13
8	1.44E+08	1.44E+08	65 BAI1	1
8	1.44E+08	1.44E+08	27 BAI1	2
8	1.44E+08	1.44E+08	28 BAI1	17
8	1.44E+08	1.44E+08	21 BAI1	20
8	1.44E+08	1.44E+08	22 BAI1	27
8	1.44E+08	1.44E+08	65 ARC	1
8	1.44E+08	1.44E+08	44 C8orf55	1
8	1.44E+08	1.44E+08	2 C8orf55	1
8	1.44E+08	1.44E+08	2 C8orf55	1
8	1.44E+08	1.44E+08	90 LY6H	2
8	1.44E+08	1.44E+08	1 LY6H	2
8	1.44E+08	1.44E+08	64 GLI4	3
8	1.44E+08	1.44E+08	5 GLI4	3
8	1.44E+08	1.44E+08	26 TOP1MT	1
8	1.44E+08	1.44E+08	69 RHPN1	1
8	1.44E+08	1.44E+08	1 RHPN1	7
8	1.44E+08	1.44E+08	14 RHPN1	7
8	1.45E+08	1.45E+08	79 MAFA	1
8	1.45E+08	1.45E+08	1 MAFA	1
8	1.45E+08	1.45E+08	37 MAFA	1
8	1.45E+08	1.45E+08	68 MAFA	1
8	1.45E+08	1.45E+08	32 MAFA	1
8	1.45E+08	1.45E+08	4 MAFA	1
8	1.45E+08	1.45E+08	19 MAFA	1
8	1.45E+08	1.45E+08	3 ZC3H3	11
8	1.45E+08	1.45E+08	36 ZC3H3	11
8	1.45E+08	1.45E+08	1 ZC3H3	10
8	1.45E+08	1.45E+08	141 C8orf73	14
8	1.45E+08	1.45E+08	54 C8orf73	9
8	1.45E+08	1.45E+08	98 C8orf73	4
8	1.45E+08	1.45E+08	28 C8orf73	4
8	1.45E+08	1.45E+08	104 NAPRT1	6
8	1.45E+08	1.45E+08	35 EEF1D	3

8	1.45E+08	1.45E+08	51 TIGD5	1
8	1.45E+08	1.45E+08	31 TIGD5	1
8	1.45E+08	1.45E+08	18 TIGD5	1
8	1.45E+08	1.45E+08	14 PYCRL	6
8	1.45E+08	1.45E+08	37 CCDC166	2
8	1.45E+08	1.45E+08	133 CCDC166	2
8	1.45E+08	1.45E+08	13 CCDC166	2
8	1.45E+08	1.45E+08	5 CCDC166	1
8	1.45E+08	1.45E+08	2 MAPK15	7
8	1.45E+08	1.45E+08	82 FAM83H	4
8	1.45E+08	1.45E+08	255 FAM83H	4
8	1.45E+08	1.45E+08	7 FAM83H	4
8	1.45E+08	1.45E+08	5 FAM83H	4
8	1.45E+08	1.45E+08	23 FAM83H	4
8	1.45E+08	1.45E+08	19 FAM83H	4
8	1.45E+08	1.45E+08	2 FAM83H	4
8	1.45E+08	1.45E+08	21 FAM83H	4
8	1.45E+08	1.45E+08	26 SCRIB	32
8	1.45E+08	1.45E+08	29 SCRIB	31
8	1.45E+08	1.45E+08	34 SCRIB	20
8	1.45E+08	1.45E+08	43 SCRIB	19
8	1.45E+08	1.45E+08	40 PUF60	4
8	1.45E+08	1.45E+08	9 PUF60	4
8	1.45E+08	1.45E+08	20 NRBP2	5
8	1.45E+08	1.45E+08	58 NRBP2	1
8	1.45E+08	1.45E+08	59 PLEC	32
8	1.45E+08	1.45E+08	16 PLEC	31
8	1.45E+08	1.45E+08	5 PLEC	31
8	1.45E+08	1.45E+08	5 PLEC	31
8	1.45E+08	1.45E+08	62 PLEC	31
8	1.45E+08	1.45E+08	6 PLEC	31
8	1.45E+08	1.45E+08	40 PLEC	31
8	1.45E+08	1.45E+08	9 PLEC	31
8	1.45E+08	1.45E+08	1 PLEC	31
8	1.45E+08	1.45E+08	113 PLEC	31
8	1.45E+08	1.45E+08	37 PLEC	31
8	1.45E+08	1.45E+08	1 PLEC	31
8	1.45E+08	1.45E+08	1 PLEC	31
8	1.45E+08	1.45E+08	212 PLEC	31
8	1.45E+08	1.45E+08	22 PLEC	31
8	1.45E+08	1.45E+08	1 PLEC	31
8	1.45E+08	1.45E+08	15 PLEC	31
8	1.45E+08	1.45E+08	1 PLEC	31
8	1.45E+08	1.45E+08	39 PLEC	31
8	1.45E+08	1.45E+08	2 PLEC	31

8	1.45E+08	1.45E+08	4 PLEC	31
8	1.45E+08	1.45E+08	67 PLEC	24
8	1.45E+08	1.45E+08	14 PLEC	24
8	1.45E+08	1.45E+08	22 PLEC	17
8	1.45E+08	1.45E+08	56 GRINA	1
8	1.45E+08	1.45E+08	70 SPATC1	3
8	1.45E+08	1.45E+08	25 OPLAH	26
8	1.45E+08	1.45E+08	47 OPLAH	24
8	1.45E+08	1.45E+08	7 OPLAH	16
8	1.45E+08	1.45E+08	83 GPAA1	1
8	1.45E+08	1.45E+08	44 SHARPIN	1
8	1.45E+08	1.45E+08	602 FAM203A	1
8	1.45E+08	1.45E+08	52 FAM203A	2
8	1.45E+08	1.45E+08	24 HEATR7A	13
8	1.45E+08	1.45E+08	1 HEATR7A	13
8	1.45E+08	1.45E+08	33 HEATR7A	14
8	1.45E+08	1.45E+08	113 HEATR7A	20
8	1.45E+08	1.45E+08	1 HEATR7A	28
8	1.45E+08	1.45E+08	122 HEATR7A	29
8	1.45E+08	1.45E+08	128 HEATR7A	32
8	1.45E+08	1.45E+08	122 HEATR7A	34
8	1.45E+08	1.45E+08	116 HEATR7A	35
8	1.45E+08	1.45E+08	12 HEATR7A	37
8	1.45E+08	1.45E+08	7 HEATR7A	37
8	1.45E+08	1.45E+08	46 HEATR7A	37
8	1.45E+08	1.45E+08	60 HEATR7A	39
8	1.45E+08	1.45E+08	24 HEATR7A	40
8	1.45E+08	1.45E+08	40 HEATR7A	40
8	1.45E+08	1.45E+08	74 HEATR7A	41
8	1.45E+08	1.45E+08	42 HEATR7A	42
8	1.45E+08	1.45E+08	15 HEATR7A	42
8	1.45E+08	1.45E+08	184 SCXB	1
8	1.45E+08	1.45E+08	266 SCXB	1
8	1.45E+08	1.45E+08	602 FAM203B	1
8	1.45E+08	1.45E+08	110 FAM203B	2
8	1.45E+08	1.45E+08	108 FAM203B	3
8	1.45E+08	1.45E+08	94 FAM203B	4
8	1.45E+08	1.45E+08	26 FAM203B	5
8	1.45E+08	1.45E+08	93 FAM203B	5
8	1.45E+08	1.45E+08	152 FAM203B	6
8	1.45E+08	1.45E+08	62 LOC377711	2
8	1.45E+08	1.45E+08	46 LOC377711	2
8	1.45E+08	1.45E+08	147 LOC377711	3
8	1.45E+08	1.45E+08	50 LOC377711	4
8	1.45E+08	1.45E+08	151 LOC377711	5

8	1.45E+08	1.45E+08	62 LOC377711	6
8	1.45E+08	1.45E+08	115 LOC377711	7
8	1.45E+08	1.45E+08	112 LOC377711	8
8	1.45E+08	1.45E+08	113 LOC377711	9
8	1.45E+08	1.45E+08	156 LOC377711	10
8	1.45E+08	1.45E+08	117 LOC377711	11
8	1.45E+08	1.45E+08	118 LOC377711	12
8	1.45E+08	1.45E+08	55 LOC377711	13
8	1.45E+08	1.45E+08	60 LOC377711	13
8	1.45E+08	1.45E+08	100 LOC377711	14
8	1.45E+08	1.45E+08	59 LOC377711	15
8	1.45E+08	1.45E+08	43 LOC377711	15
8	1.45E+08	1.45E+08	145 LOC377711	16
8	1.45E+08	1.45E+08	122 LOC377711	17
8	1.45E+08	1.45E+08	82 LOC100652	1
8	1.45E+08	1.45E+08	66 LOC100652	2
8	1.45E+08	1.45E+08	87 LOC100652	2
8	1.45E+08	1.45E+08	128 LOC100652	3
8	1.45E+08	1.45E+08	201 LOC100652	4
8	1.45E+08	1.45E+08	122 LOC100652	5
8	1.45E+08	1.45E+08	116 LOC100652	6
8	1.45E+08	1.45E+08	121 LOC100652	7
8	1.45E+08	1.45E+08	19 LOC100652	7
8	1.45E+08	1.45E+08	112 LOC100652	8
8	1.45E+08	1.45E+08	82 LOC100652	8
8	1.45E+08	1.45E+08	165 LOC100652	9
8	1.45E+08	1.45E+08	144 LOC100652	10
8	1.45E+08	1.45E+08	112 LOC100652	11
8	1.45E+08	1.45E+08	74 LOC100652	12
8	1.45E+08	1.45E+08	42 LOC100652	13
8	1.45E+08	1.45E+08	42 LOC100652	13
8	1.45E+08	1.45E+08	163 BOP1	16
8	1.45E+08	1.45E+08	117 BOP1	15
8	1.45E+08	1.45E+08	94 BOP1	14
8	1.45E+08	1.45E+08	137 BOP1	13
8	1.45E+08	1.45E+08	154 BOP1	13
8	1.45E+08	1.45E+08	190 BOP1	12
8	1.45E+08	1.45E+08	142 BOP1	11
8	1.45E+08	1.45E+08	79 BOP1	10
8	1.45E+08	1.45E+08	90 BOP1	9
8	1.45E+08	1.45E+08	171 BOP1	8
8	1.45E+08	1.45E+08	222 BOP1	7
8	1.45E+08	1.45E+08	111 BOP1	6
8	1.45E+08	1.45E+08	127 BOP1	5
8	1.45E+08	1.45E+08	157 BOP1	4

8	1.45E+08	1.45E+08	184 SCXA	1
8	1.45E+08	1.45E+08	266 SCXA	1
8	1.45E+08	1.45E+08	68 SCXA	1
8	1.45E+08	1.45E+08	48 SCXA	2
8	1.46E+08	1.46E+08	90 BOP1	3
8	1.46E+08	1.46E+08	108 BOP1	1
8	1.46E+08	1.46E+08	1 HSF1	9
8	1.46E+08	1.46E+08	2 HSF1	9
8	1.46E+08	1.46E+08	39 HSF1	9
8	1.46E+08	1.46E+08	3 HSF1	12
8	1.46E+08	1.46E+08	13 HSF1	13
8	1.46E+08	1.46E+08	147 DGAT1	1
8	1.46E+08	1.46E+08	59 SCRT1	2
8	1.46E+08	1.46E+08	145 SCRT1	2
8	1.46E+08	1.46E+08	1 SCRT1	2
8	1.46E+08	1.46E+08	7 SCRT1	2
8	1.46E+08	1.46E+08	211 FBXL6	1
8	1.46E+08	1.46E+08	17 GPR172A	3
8	1.46E+08	1.46E+08	6 GPR172A	3
8	1.46E+08	1.46E+08	50 ADCK5	2
8	1.46E+08	1.46E+08	2 ADCK5	2
8	1.46E+08	1.46E+08	10 ADCK5	9
8	1.46E+08	1.46E+08	20 ADCK5	11
8	1.46E+08	1.46E+08	101 ADCK5	12
8	1.46E+08	1.46E+08	28 CPSF1	37
8	1.46E+08	1.46E+08	20 CPSF1	36
8	1.46E+08	1.46E+08	29 CPSF1	35
8	1.46E+08	1.46E+08	11 CPSF1	26
8	1.46E+08	1.46E+08	39 CPSF1	25
8	1.46E+08	1.46E+08	82 CPSF1	22
8	1.46E+08	1.46E+08	26 CPSF1	20
8	1.46E+08	1.46E+08	26 CPSF1	20
8	1.46E+08	1.46E+08	8 CPSF1	18
8	1.46E+08	1.46E+08	28 CPSF1	14
8	1.46E+08	1.46E+08	1 CPSF1	10
8	1.46E+08	1.46E+08	20 SLC39A4	8
8	1.46E+08	1.46E+08	3 SLC39A4	8
8	1.46E+08	1.46E+08	18 SLC39A4	8
8	1.46E+08	1.46E+08	51 SLC39A4	6
8	1.46E+08	1.46E+08	42 SLC39A4	4
8	1.46E+08	1.46E+08	38 KIFC2	17
8	1.46E+08	1.46E+08	6 PPP1R16A	8
8	1.46E+08	1.46E+08	3 GPT	9
8	1.46E+08	1.46E+08	32 MFSD3	1
8	1.46E+08	1.46E+08	13 RECQL4	14



8	1.46E+08	1.46E+08	14 RECQL4	1
8	1.46E+08	1.46E+08	90 LRRC24	4
8	1.46E+08	1.46E+08	44 C8orf82	3
8	1.46E+08	1.46E+08	4 C8orf82	3
8	1.46E+08	1.46E+08	46 C8orf82	3
8	1.46E+08	1.46E+08	1 C8orf82	3
8	1.46E+08	1.46E+08	14 C8orf33	1
9	14802	14823	21 WASH1	10
9	118114	118124	10 FOXD4	1
9	215147	215149	2 C9orf66	1
9	977367	977372	5 DMRT3	1
9	977373	977374	1 DMRT3	1
9	977380	977381	1 DMRT3	1
9	1051873	1051900	27 DMRT2	1
9	2047224	2047291	67 SMARCA2	4
9	4662593	4662599	6 PPAPDC2	1
9	4719224	4719312	88 AK3	3
9	5077457	5077585	128 JAK2	13
9	5832707	5832734	27 ERMP1	1
9	6645378	6645467	89 GLDC	1
9	6645470	6645504	34 GLDC	1
9	8527340	8527358	18 PTPRD	5
9	13123182	13123183	1 MPDZ	35
9	13205092	13205111	19 MPDZ	11
9	19078260	19078282	22 HAUS6	10
9	19086783	19086784	1 HAUS6	7
9	21971144	21971156	12 CDKN2A	2
9	25678179	25678180	1 TUSC1	1
9	25678233	25678234	1 TUSC1	1
9	25678245	25678258	13 TUSC1	1
9	33264601	33264612	11 BAG1	1
9	33264613	33264614	1 BAG1	1
9	33264617	33264619	2 BAG1	1
9	33264624	33264625	1 BAG1	1
9	33750510	33750653	143 PRSS3	1
9	34552237	34552238	1 CNTFR	7
9	34552241	34552242	1 CNTFR	7
9	34725368	34725439	71 FAM205A	4
9	34989766	34989824	58 DNAJB5	1
9	35102678	35102683	5 STOML2	2
9	35658372	35658381	9 CCDC107	1
9	37422761	37422762	1 GRHPR	1
9	37422778	37422819	41 GRHPR	1
9	37800861	37800895	34 DCAF10	1
9	37800898	37800980	82 DCAF10	1

9	37800986	37801040	54 DCAF10	1
9	38068128	38068129	1 SHB	1
9	38424146	38424256	110 IGFBPL1	1
9	38424257	38424263	6 IGFBPL1	1
9	39132924	39133013	89 CNTNAP3	13
9	39133016	39133022	6 CNTNAP3	13
9	43861075	43861211	136 CNTNAP3B	13
9	71650719	71650720	1 FXN	1
9	71650752	71650756	4 FXN	1
9	71650761	71650868	107 FXN	1
9	77567097	77567144	47 C9orf40	1
9	77567150	77567238	88 C9orf40	1
9	77567239	77567243	4 C9orf40	1
9	77567492	77567506	14 C9orf40	1
9	79635024	79635073	49 FOXB2	1
9	80646036	80646060	24 GNAQ	1
9	84558534	84558625	91 FAM75D3	1
9	84559438	84559493	55 FAM75D3	2
9	84560082	84560152	70 FAM75D3	3
9	84560457	84560514	57 FAM75D3	4
9	84560627	84560774	147 FAM75D3	4
9	84560920	84561099	179 FAM75D3	4
9	84561109	84561229	120 FAM75D3	4
9	84561282	84561378	96 FAM75D3	4
9	84561505	84561624	119 FAM75D3	4
9	84561876	84562009	133 FAM75D3	4
9	86587846	86587892	46 HNRNPK	8
9	88571270	88571280	10 NAA35	2
9	89561425	89561452	27 GAS1	1
9	89561565	89561594	29 GAS1	1
9	89561597	89561599	2 GAS1	1
9	89561604	89561612	8 GAS1	1
9	89561613	89561614	1 GAS1	1
9	89561615	89561616	1 GAS1	1
9	91792898	91793018	120 SHC3	1
9	91793085	91793092	7 SHC3	1
9	94124168	94124176	8 AUH	1
9	95797641	95797642	1 FGD3	16
9	95821020	95821049	29 SUSD3	1
9	95858623	95858639	16 C9orf89	1
9	95874495	95874514	19 C9orf89	5
9	95947207	95947265	58 WNK2	1
9	95947286	95947484	198 WNK2	1
9	95947560	95947597	37 WNK2	1
9	96018714	96018741	27 WNK2	9

9	96021720	96021778	58 WNK2	11
9	96214197	96214201	4 FAM120A	1
9	96439022	96439025	3 PHF2	21
9	96717252	96717268	16 BARX1	1
9	97081356	97081361	5 FAM22F	7
9	97081890	97081935	45 FAM22F	6
9	97087652	97087771	119 FAM22F	2
9	97087914	97087915	1 FAM22F	2
9	97088018	97088039	21 FAM22F	2
9	97088042	97088045	3 FAM22F	2
9	97088053	97088055	2 FAM22F	2
9	97088059	97088062	3 FAM22F	2
9	97088064	97088069	5 FAM22F	2
9	97088119	97088145	26 FAM22F	2
9	97137097	97137214	117 HIATL1	1
9	98270523	98270592	69 PTCH1	1
9	99179890	99180011	121 ZNF367	1
9	99212755	99212757	2 HABP4	1
9	99212761	99212762	1 HABP4	1
9	99212763	99212915	152 HABP4	1
9	99381625	99381665	40 CDC14B	1
9	99417367	99417536	169 C9orf21	1
9	99694075	99694091	16 FAM22G	2
9	99694092	99694096	4 FAM22G	2
9	99694187	99694202	15 FAM22G	2
9	99700243	99700288	45 FAM22G	6
9	99960580	99960736	156 ZNF322P1	1
9	99960744	99960868	124 ZNF322P1	1
9	99960876	99961220	344 ZNF322P1	1
9	1E+08	1E+08	9 XPA	1
9	1.01E+08	1.01E+08	17 FOXE1	1
9	1.01E+08	1.01E+08	9 FOXE1	1
9	1.01E+08	1.01E+08	1 FOXE1	1
9	1.01E+08	1.01E+08	16 FOXE1	1
9	1.01E+08	1.01E+08	7 FOXE1	1
9	1.01E+08	1.01E+08	1 FOXE1	1
9	1.01E+08	1.01E+08	14 FOXE1	1
9	1.01E+08	1.01E+08	15 TRIM14	1
9	1.01E+08	1.01E+08	30 GABBR2	19
9	1.01E+08	1.01E+08	1 GABBR2	19
9	1.01E+08	1.01E+08	39 GABBR2	1
9	1.02E+08	1.02E+08	3 ANKS6	1
9	1.02E+08	1.02E+08	115 ANKS6	1
9	1.02E+08	1.02E+08	120 ANKS6	1
9	1.02E+08	1.02E+08	109 GALNT12	1

9	1.02E+08	1.02E+08	27 GALNT12	1
9	1.02E+08	1.02E+08	56 TGFBR1	1
9	1.03E+08	1.03E+08	26 NR4A3	2
9	1.03E+08	1.03E+08	92 NR4A3	2
9	1.03E+08	1.03E+08	3 NR4A3	2
9	1.08E+08	1.08E+08	6 NIPSNAP3B	1
9	1.08E+08	1.08E+08	45 SLC44A1	1
9	1.1E+08	1.1E+08	2 RAD23B	9
9	1.12E+08	1.12E+08	59 C9orf5	1
9	1.12E+08	1.12E+08	357 C9orf4	1
9	1.12E+08	1.12E+08	14 EPB41L4B	1
9	1.12E+08	1.12E+08	117 EPB41L4B	1
9	1.13E+08	1.13E+08	10 AKAP2	1
9	1.13E+08	1.13E+08	74 TXN	2
9	1.14E+08	1.14E+08	131 KIAA0368	3
9	1.14E+08	1.14E+08	26 DNAJC25	1
9	1.14E+08	1.14E+08	26 DNAJC25-G	1
9	1.14E+08	1.14E+08	26 DNAJC25	1
9	1.14E+08	1.14E+08	26 DNAJC25-G	1
9	1.14E+08	1.14E+08	59 DNAJC25	1
9	1.14E+08	1.14E+08	59 DNAJC25-G	1
9	1.14E+08	1.14E+08	59 DNAJC25	1
9	1.14E+08	1.14E+08	59 DNAJC25-G	1
9	1.15E+08	1.15E+08	73 SUSD1	1
9	1.16E+08	1.16E+08	39 SNX30	1
9	1.16E+08	1.16E+08	9 SLC31A1	1
9	1.16E+08	1.16E+08	184 BSPRY	1
9	1.17E+08	1.17E+08	42 ZNF618	1
9	1.17E+08	1.17E+08	1 COL27A1	46
9	1.17E+08	1.17E+08	3 COL27A1	46
9	1.17E+08	1.17E+08	38 ORM2	1
9	1.17E+08	1.17E+08	8 ORM2	1
9	1.17E+08	1.17E+08	10 AKNA	21
9	1.17E+08	1.17E+08	14 AKNA	20
9	1.17E+08	1.17E+08	12 AKNA	20
9	1.17E+08	1.17E+08	43 AKNA	15
9	1.17E+08	1.17E+08	30 AKNA	14
9	1.17E+08	1.17E+08	4 AKNA	8
9	1.17E+08	1.17E+08	43 DFNB31	1
9	1.19E+08	1.19E+08	97 PAPP	1
9	1.19E+08	1.19E+08	31 PAPP	1
9	1.2E+08	1.2E+08	68 ASTN2	1
9	1.2E+08	1.2E+08	165 ASTN2	1
9	1.24E+08	1.24E+08	82 GSN	11
9	1.25E+08	1.25E+08	46 DAB2IP	12

9	1.25E+08	1.25E+08	24 TTLL11	9
9	1.25E+08	1.25E+08	1 TTLL11	9
9	1.25E+08	1.25E+08	1 TTLL11	9
9	1.25E+08	1.25E+08	20 TTLL11	1
9	1.25E+08	1.25E+08	94 TTLL11	1
9	1.25E+08	1.25E+08	22 LHX6	1
9	1.26E+08	1.26E+08	9 CRB2	6
9	1.26E+08	1.26E+08	20 CRB2	10
9	1.26E+08	1.26E+08	13 CRB2	10
9	1.26E+08	1.26E+08	158 DENND1A	22
9	1.27E+08	1.27E+08	15 DENND1A	1
9	1.27E+08	1.27E+08	10 DENND1A	1
9	1.27E+08	1.27E+08	9 GPR144	4
9	1.27E+08	1.27E+08	3 GPR144	4
9	1.27E+08	1.27E+08	19 GPR144	4
9	1.27E+08	1.27E+08	5 GPR144	5
9	1.27E+08	1.27E+08	3 GPR144	19
9	1.28E+08	1.28E+08	81 NR6A1	1
9	1.28E+08	1.28E+08	99 OLFML2A	1
9	1.28E+08	1.28E+08	4 OLFML2A	4
9	1.28E+08	1.28E+08	2 OLFML2A	6
9	1.28E+08	1.28E+08	50 WDR38	1
9	1.28E+08	1.28E+08	49 SCAI	1
9	1.29E+08	1.29E+08	90 FAM125B	1
9	1.29E+08	1.29E+08	2 LMX1B	6
9	1.3E+08	1.3E+08	1 ANGPTL2	1
9	1.3E+08	1.3E+08	16 SLC2A8	2
9	1.3E+08	1.3E+08	1 SLC2A8	2
9	1.3E+08	1.3E+08	1 SLC2A8	2
9	1.3E+08	1.3E+08	11 SLC2A8	3
9	1.3E+08	1.3E+08	44 PTRH1	2
9	1.31E+08	1.31E+08	2 SH2D3C	11
9	1.31E+08	1.31E+08	147 FPGS	1
9	1.31E+08	1.31E+08	51 FPGS	12
9	1.31E+08	1.31E+08	36 ENG	5
9	1.31E+08	1.31E+08	2 PIP5KL1	5
9	1.31E+08	1.31E+08	15 FAM102A	10
9	1.31E+08	1.31E+08	101 PTGES2	1
9	1.31E+08	1.31E+08	53 CIZ1	16
9	1.31E+08	1.31E+08	26 DNMT1	21
9	1.31E+08	1.31E+08	3 GOLGA2	25
9	1.31E+08	1.31E+08	9 GOLGA2	25
9	1.31E+08	1.31E+08	2 GOLGA2	25
9	1.31E+08	1.31E+08	2 GOLGA2	25
9	1.31E+08	1.31E+08	13 GOLGA2	25

9	1.31E+08	1.31E+08	19 GLE1	4
9	1.32E+08	1.32E+08	72 ENDOG	1
9	1.32E+08	1.32E+08	46 ENDOG	1
9	1.32E+08	1.32E+08	10 SH3GLB2	5
9	1.32E+08	1.32E+08	9 IER5L	1
9	1.32E+08	1.32E+08	7 IER5L	1
9	1.32E+08	1.32E+08	92 IER5L	1
9	1.32E+08	1.32E+08	104 IER5L	1
9	1.32E+08	1.32E+08	185 C9orf50	1
9	1.32E+08	1.32E+08	196 PRRX2	1
9	1.33E+08	1.33E+08	3 TOR1A	1
9	1.33E+08	1.33E+08	7 TOR1A	1
9	1.33E+08	1.33E+08	55 TOR1A	1
9	1.33E+08	1.33E+08	30 FNBP1	10
9	1.33E+08	1.33E+08	33 FNBP1	1
9	1.33E+08	1.33E+08	1 GPR107	17
9	1.33E+08	1.33E+08	2 HMCN2	45
9	1.33E+08	1.33E+08	13 HMCN2	45
9	1.33E+08	1.33E+08	115 HMCN2	47
9	1.33E+08	1.33E+08	2 HMCN2	71
9	1.34E+08	1.34E+08	15 PRDM12	1
9	1.34E+08	1.34E+08	24 PRDM12	5
9	1.34E+08	1.34E+08	30 PRDM12	5
9	1.34E+08	1.34E+08	53 LAMC3	1
9	1.34E+08	1.34E+08	2 LAMC3	4
9	1.34E+08	1.34E+08	2 NUP214	10
9	1.34E+08	1.34E+08	117 UCK1	1
9	1.35E+08	1.35E+08	9 NTNG2	3
9	1.35E+08	1.35E+08	56 NTNG2	7
9	1.36E+08	1.36E+08	126 GTF3C4	1
9	1.36E+08	1.36E+08	37 AK8	11
9	1.36E+08	1.36E+08	24 TSC1	15
9	1.36E+08	1.36E+08	35 RALGDS	1
9	1.36E+08	1.36E+08	85 RALGDS	1
9	1.36E+08	1.36E+08	46 OBP2B	3
9	1.36E+08	1.36E+08	1 ABO	6
9	1.36E+08	1.36E+08	45 ABO	5
9	1.36E+08	1.36E+08	57 ABO	4
9	1.36E+08	1.36E+08	66 ABO	3
9	1.36E+08	1.36E+08	37 ABO	1
9	1.36E+08	1.36E+08	11 MED22	1
9	1.36E+08	1.36E+08	61 SURF1	2
9	1.36E+08	1.36E+08	42 SURF1	1
9	1.36E+08	1.36E+08	3 SURF2	1
9	1.36E+08	1.36E+08	31 SURF2	5

9	1.36E+08	1.36E+08	21 SURF2	5
9	1.36E+08	1.36E+08	2 SURF2	5
9	1.36E+08	1.36E+08	25 SURF4	2
9	1.36E+08	1.36E+08	57 SURF4	1
9	1.36E+08	1.36E+08	11 C9orf96	14
9	1.36E+08	1.36E+08	44 REXO4	4
9	1.36E+08	1.36E+08	42 ADAMTS13	3
9	1.36E+08	1.36E+08	4 ADAMTS13	5
9	1.36E+08	1.36E+08	147 ADAMTS13	7
9	1.36E+08	1.36E+08	1 ADAMTS13	12
9	1.36E+08	1.36E+08	33 ADAMTS13	15
9	1.36E+08	1.36E+08	142 ADAMTS13	19
9	1.36E+08	1.36E+08	49 ADAMTS13	19
9	1.36E+08	1.36E+08	46 ADAMTS13	25
9	1.36E+08	1.36E+08	30 SLC2A6	1
9	1.36E+08	1.36E+08	11 SLC2A6	1
9	1.36E+08	1.36E+08	22 SLC2A6	1
9	1.36E+08	1.36E+08	95 ADAMTSL2	9
9	1.36E+08	1.36E+08	2 ADAMTSL2	16
9	1.37E+08	1.37E+08	37 RXRA	1
9	1.38E+08	1.38E+08	118 COL5A1	1
9	1.38E+08	1.38E+08	6 COL5A1	43
9	1.38E+08	1.38E+08	73 KIAA0649	1
9	1.38E+08	1.38E+08	7 KIAA0649	1
9	1.38E+08	1.38E+08	39 KIAA0649	1
9	1.38E+08	1.38E+08	4 KIAA0649	1
9	1.38E+08	1.38E+08	2 KIAA0649	1
9	1.39E+08	1.39E+08	6 KCNT1	16
9	1.39E+08	1.39E+08	2 KCNT1	18
9	1.39E+08	1.39E+08	35 KCNT1	26
9	1.39E+08	1.39E+08	3 NACC2	5
9	1.39E+08	1.39E+08	2 NACC2	5
9	1.39E+08	1.39E+08	11 NACC2	2
9	1.39E+08	1.39E+08	309 NACC2	1
9	1.39E+08	1.39E+08	122 NACC2	1
9	1.39E+08	1.39E+08	448 NACC2	1
9	1.39E+08	1.39E+08	21 RBSG2	1
9	1.39E+08	1.39E+08	31 QSOX2	1
9	1.39E+08	1.39E+08	12 QSOX2	1
9	1.39E+08	1.39E+08	2 QSOX2	1
9	1.39E+08	1.39E+08	74 QSOX2	1
9	1.39E+08	1.39E+08	77 GPSM1	1
9	1.39E+08	1.39E+08	146 DNLZ	1
9	1.39E+08	1.39E+08	48 CARD9	11
9	1.39E+08	1.39E+08	1 SDCCAG3	5

9	1.39E+08	1.39E+08	62 SDCCAG3	5
9	1.39E+08	1.39E+08	52 SDCCAG3	5
9	1.39E+08	1.39E+08	3 INPP5E	4
9	1.39E+08	1.39E+08	57 INPP5E	1
9	1.39E+08	1.39E+08	1 NOTCH1	24
9	1.39E+08	1.39E+08	22 NOTCH1	19
9	1.39E+08	1.39E+08	2 NOTCH1	6
9	1.39E+08	1.39E+08	45 NOTCH1	4
9	1.39E+08	1.39E+08	3 NOTCH1	3
9	1.39E+08	1.39E+08	4 NOTCH1	3
9	1.39E+08	1.39E+08	1 NOTCH1	3
9	1.39E+08	1.39E+08	59 NOTCH1	2
9	1.39E+08	1.39E+08	70 NOTCH1	1
9	1.4E+08	1.4E+08	72 FAM69B	1
9	1.4E+08	1.4E+08	6 FAM69B	5
9	1.4E+08	1.4E+08	6 FAM69B	5
9	1.4E+08	1.4E+08	7 KIAA1984	1
9	1.4E+08	1.4E+08	1 KIAA1984	10
9	1.4E+08	1.4E+08	2 KIAA1984	10
9	1.4E+08	1.4E+08	11 C9orf86	9
9	1.4E+08	1.4E+08	2 C9orf172	1
9	1.4E+08	1.4E+08	109 C9orf172	1
9	1.4E+08	1.4E+08	129 C9orf172	1
9	1.4E+08	1.4E+08	120 C9orf172	1
9	1.4E+08	1.4E+08	91 C9orf172	1
9	1.4E+08	1.4E+08	54 C9orf172	1
9	1.4E+08	1.4E+08	17 C9orf172	1
9	1.4E+08	1.4E+08	89 C9orf172	1
9	1.4E+08	1.4E+08	128 C9orf172	1
9	1.4E+08	1.4E+08	6 MAMDC4	20
9	1.4E+08	1.4E+08	1 C9orf142	1
9	1.4E+08	1.4E+08	125 CLIC3	5
9	1.4E+08	1.4E+08	1 ABCA2	45
9	1.4E+08	1.4E+08	11 ABCA2	30
9	1.4E+08	1.4E+08	2 ABCA2	30
9	1.4E+08	1.4E+08	2 FUT7	2
9	1.4E+08	1.4E+08	1 NPDC1	7
9	1.4E+08	1.4E+08	81 NPDC1	1
9	1.4E+08	1.4E+08	4 ENTPD2	8
9	1.4E+08	1.4E+08	44 ENTPD2	1
9	1.4E+08	1.4E+08	209 C9orf140	1
9	1.4E+08	1.4E+08	129 C9orf140	1
9	1.4E+08	1.4E+08	44 C9orf140	1
9	1.4E+08	1.4E+08	154 UAP1L1	1
9	1.4E+08	1.4E+08	67 UAP1L1	1



9	1.4E+08	1.4E+08	7 DPP7	3
9	1.4E+08	1.4E+08	7 DPP7	2
9	1.4E+08	1.4E+08	76 DPP7	1
9	1.4E+08	1.4E+08	2 LRRRC26	2
9	1.4E+08	1.4E+08	42 ANAPC2	13
9	1.4E+08	1.4E+08	8 TPRN	1
9	1.4E+08	1.4E+08	130 TPRN	1
9	1.4E+08	1.4E+08	3 TPRN	1
9	1.4E+08	1.4E+08	16 TPRN	1
9	1.4E+08	1.4E+08	2 TPRN	1
9	1.4E+08	1.4E+08	3 TPRN	1
9	1.4E+08	1.4E+08	80 TPRN	1
9	1.4E+08	1.4E+08	10 TPRN	1
9	1.4E+08	1.4E+08	29 RNF208	1
9	1.4E+08	1.4E+08	16 RNF224	2
9	1.4E+08	1.4E+08	1 RNF224	2
9	1.4E+08	1.4E+08	2 RNF224	2
9	1.4E+08	1.4E+08	20 SLC34A3	6
9	1.4E+08	1.4E+08	48 SLC34A3	8
9	1.4E+08	1.4E+08	7 SLC34A3	9
9	1.4E+08	1.4E+08	4 FAM166A	4
9	1.4E+08	1.4E+08	79 C9orf167	1
9	1.4E+08	1.4E+08	9 EXD3	10
9	1.4E+08	1.4E+08	1 EXD3	4
9	1.4E+08	1.4E+08	12 EXD3	4
9	1.4E+08	1.4E+08	25 NOXA1	3
9	1.4E+08	1.4E+08	80 NELF	1
9	1.4E+08	1.4E+08	49 ZMYND19	1
9	1.4E+08	1.4E+08	4 ZMYND19	1
9	1.4E+08	1.4E+08	1 ZMYND19	1
9	1.41E+08	1.41E+08	6 CACNA1B	19
9	1.41E+08	1.41E+08	122 CACNA1B	19
9	1.41E+08	1.41E+08	15 CACNA1B	45
9	1.41E+08	1.41E+08	35 CACNA1B	45
9	1.41E+08	1.41E+08	48 CACNA1B	46
10	94845	94857	12 TUBB8	2
10	390760	390764	4 DIP2C	28
10	3187806	3187913	107 PITRM1	21
10	5454651	5454763	112 NET1	1
10	5708477	5708478	1 ASB13	1
10	5708480	5708519	39 ASB13	1
10	5804491	5804495	4 FAM208B	17
10	5931258	5931289	31 ANKRD16	1
10	6019387	6019460	73 IL15RA	1
10	11784635	11784732	97 ECHDC3	1

10	11911968	11911986	18 C10orf47	3
10	11912076	11912123	47 C10orf47	3
10	13043496	13043510	14 CCDC3	1
10	13698631	13698643	12 FRMD4A	21
10	13699155	13699163	8 FRMD4A	21
10	13699167	13699176	9 FRMD4A	21
10	14882069	14882152	83 HSPA14	3
10	16562841	16562842	1 C1QL3	1
10	17496149	17496177	28 ST8SIA6	1
10	17496231	17496259	28 ST8SIA6	1
10	17659235	17659236	1 PTPLA	1
10	17659241	17659343	102 PTPLA	1
10	17875754	17875843	89 LOC100652	4
10	18041257	18041515	258 LOC100652	1
10	18060287	18060369	82 LOC100652	2
10	18065013	18065154	141 LOC100652	3
10	18084902	18085018	116 LOC100652	4
10	18085033	18085278	245 LOC100652	4
10	18085284	18085473	189 LOC100652	4
10	18085491	18085495	4 LOC100652	4
10	18098450	18098520	70 MRC1	1
10	18112039	18112291	252 MRC1	2
10	18112305	18112450	145 MRC1	2
10	18116490	18116673	183 MRC1	3
10	18122623	18122797	174 MRC1	4
10	18129617	18129740	123 MRC1	5
10	18134213	18134293	80 MRC1	6
10	18134306	18134369	63 MRC1	6
10	18138503	18138550	47 MRC1	7
10	18138556	18138693	137 MRC1	7
10	18141924	18142048	124 MRC1	8
10	18145166	18145218	52 MRC1	9
10	18145221	18145286	65 MRC1	9
10	18150314	18150436	122 MRC1	10
10	18152489	18152616	127 MRC1	11
10	18155486	18155626	140 MRC1	12
10	18155632	18155695	63 MRC1	12
10	18159170	18159294	124 MRC1	13
10	18159772	18159869	97 MRC1	14
10	18160919	18161057	138 MRC1	15
10	18162708	18162759	51 MRC1	16
10	18164021	18164160	139 MRC1	17
10	18166824	18166901	77 MRC1	18
10	18168645	18168755	110 MRC1	19
10	18169469	18169603	134 MRC1	20

10	18169991	18170115	124	MRC1	21
10	18174202	18174362	160	MRC1	22
10	18183135	18183246	111	MRC1	23
10	18186982	18187200	218	MRC1	24
10	18189712	18189846	134	MRC1	25
10	18190897	18191029	132	MRC1	26
10	18195810	18195918	108	MRC1	27
10	18196458	18196596	138	MRC1	28
10	18198230	18198281	51	MRC1	29
10	18199140	18199399	259	MRC1	30
10	18439810	18439812	2	CACNB2	2
10	20534431	20534434	3	PLXDC2	13
10	21112211	21112218	7	NEBL	19
10	21112219	21112234	15	NEBL	19
10	21805946	21805963	17	C10orf140	1
10	22094991	22095033	42	DNAJC1	9
10	22292346	22292368	22	DNAJC1	1
10	23384533	23384610	77	MSRB2	1
10	23481700	23481756	56	PTF1A	1
10	23481787	23481875	88	PTF1A	1
10	23481942	23481950	8	PTF1A	1
10	23728382	23728515	133	OTUD1	1
10	23728760	23728762	2	OTUD1	1
10	23728763	23728799	36	OTUD1	1
10	23728872	23728926	54	OTUD1	1
10	24893240	24893282	42	ARHGAP21	11
10	26855909	26855921	12	APBB1IP	13
10	26855924	26856223	299	APBB1IP	13
10	26986636	26986709	73	PDSS1	1
10	26991086	26991093	7	PDSS1	2
10	27333081	27333113	32	ANKRD26	19
10	27333123	27333124	1	ANKRD26	19
10	27371754	27371767	13	ANKRD26	6
10	27494122	27494139	17	ACBD5	11
10	27494153	27494182	29	ACBD5	11
10	28030423	28030424	1	MKX	2
10	28273943	28274088	145	ARMC4	3
10	29580928	29580940	12	LYZL1	2
10	31608159	31608184	25	ZEB1	1
10	32761471	32761475	4	CCDC7	7
10	35103799	35103801	2	PARD3	1
10	35314104	35314131	27	CUL2	17
10	35897471	35897494	23	GJD4	2
10	35928328	35928330	2	FZD8	1
10	35928331	35928369	38	FZD8	1

10	35928433	35928461	28 FZD8	1
10	35929244	35929245	1 FZD8	1
10	35929298	35929321	23 FZD8	1
10	35929689	35929717	28 FZD8	1
10	35929853	35929880	27 FZD8	1
10	43614984	43614986	2 RET	14
10	44880456	44880458	2 CXCL12	1
10	45939559	45939578	19 ALOX5	13
10	46222761	46222773	12 FAM21C	1
10	46254758	46254789	31 FAM21C	17
10	46970437	46970453	16 SYT15	1
10	48738616	48738691	75 PTPN20B	10
10	50323471	50323535	64 VSTM4	1
10	50822233	50822518	285 CHAT	1
10	51361722	51361742	20 PARG	4
10	51363008	51363018	10 PARG	3
10	51370942	51371026	84 PARG	1
10	51371028	51371030	2 PARG	1
10	51371032	51371035	3 PARG	1
10	51827761	51827773	12 FAM21A	1
10	51827906	51827972	66 FAM21A	2
10	51847030	51847087	57 FAM21A	8
10	51859733	51859778	45 FAM21A	17
10	51877744	51877823	79 FAM21A	22
10	51958806	51958846	40 ASAH2	16
10	51962584	51962689	105 ASAH2	15
10	51963395	51963444	49 ASAH2	14
10	51964616	51964720	104 ASAH2	13
10	51965745	51965862	117 ASAH2	12
10	51970578	51970669	91 ASAH2	11
10	51970785	51970899	114 ASAH2	10
10	51972727	51972822	95 ASAH2	9
10	51978265	51978395	130 ASAH2	7
10	51992939	51992991	52 ASAH2	6
10	51992999	51993026	27 ASAH2	6
10	51994180	51994207	27 ASAH2	5
10	51994255	51994311	56 ASAH2	5
10	51995643	51995825	182 ASAH2	4
10	61666094	61666118	24 CCDC6	1
10	65225290	65225292	2 JMJD1C	1
10	65225294	65225301	7 JMJD1C	1
10	69644487	69644659	172 SIRT1	1
10	69644740	69644741	1 SIRT1	1
10	69991393	69991437	44 ATOH7	1
10	70166506	70166507	1 RUFY2	1

10	70587376	70587424	48	STOX1	1
10	70587435	70587575	140	STOX1	1
10	70587631	70587695	64	STOX1	1
10	71964624	71964627	3	PPA1	10
10	71964633	71964676	43	PPA1	10
10	72164153	72164193	40	EIF4EBP2	1
10	72288980	72288984	4	KIAA1274	2
10	73050752	73050754	2	UNC5B	9
10	74237011	74237012	1	MICU1	7
10	74451962	74452042	80	MCU	1
10	74901212	74901248	36	ECD	9
10	75255640	75255652	12	PPP3CB	1
10	75408620	75408622	2	SYNPO2L	4
10	75408624	75408628	4	SYNPO2L	4
10	75563403	75563404	1	NDST2	9
10	75579360	75579390	30	CAMK2G	17
10	76994813	76994818	5	COMTD1	4
10	76995588	76995691	103	COMTD1	1
10	77158502	77158558	56	ZNF503	2
10	77159841	77159847	6	ZNF503	2
10	77159855	77159857	2	ZNF503	2
10	79685970	79685987	17	DLG5	1
10	79686242	79686282	40	DLG5	1
10	81051985	81052034	49	ZMIZ1	7
10	81052035	81052036	1	ZMIZ1	7
10	85954512	85954553	41	CDHR1	1
10	88476168	88476237	69	LDB3	9
10	88730013	88730024	11	C10orf116	2
10	88854077	88854078	1	GLUD1	1
10	88854360	88854458	98	GLUD1	1
10	89473065	89473072	7	PAPSS2	3
10	91404352	91404400	48	PANK1	1
10	91404402	91404487	85	PANK1	1
10	91404489	91404544	55	PANK1	1
10	92662068	92662106	38	RPP30	12
10	93170191	93170227	36	HECTD2	1
10	93668461	93668544	83	FGFBP3	1
10	93668549	93668553	4	FGFBP3	1
10	94388560	94388657	97	KIF11	11
10	94449739	94449779	40	HHEX	1
10	94693932	94693934	2	EXOC6	10
10	95653786	95653796	10	SLC35G1	1
10	96100240	96100258	18	NOC3L	15
10	96163255	96163264	9	TBC1D12	1
10	96282099	96282106	7	TBC1D12	11

10	98346531	98346597	66 TM9SF3	1
10	98803122	98803134	12 SLIT1	19
10	98945367	98945375	8 SLIT1	1
10	99079341	99079351	10 FRAT1	1
10	99079354	99079357	3 FRAT1	1
10	99079504	99079522	18 FRAT1	1
10	99093924	99093936	12 FRAT2	1
10	99093959	99094090	131 FRAT2	1
10	99400595	99400626	31 PI4K2A	1
10	99400632	99400756	124 PI4K2A	1
10	99531584	99531595	11 SFRP5	1
10	1.01E+08	1.01E+08	3 NKX2-3	2
10	1.01E+08	1.01E+08	19 NKX2-3	2
10	1.01E+08	1.01E+08	11 NKX2-3	2
10	1.01E+08	1.01E+08	42 SLC25A28	1
10	1.01E+08	1.01E+08	106 SLC25A28	1
10	1.02E+08	1.02E+08	9 DNMBP	13
10	1.03E+08	1.03E+08	10 SEMA4G	14
10	1.03E+08	1.03E+08	23 SEMA4G	14
10	1.03E+08	1.03E+08	57 BTRC	1
10	1.04E+08	1.04E+08	76 FGF8	3
10	1.04E+08	1.04E+08	59 MGEA5	1
10	1.04E+08	1.04E+08	14 KCNIP2	3
10	1.04E+08	1.04E+08	59 HPS6	1
10	1.04E+08	1.04E+08	14 FBXL15	4
10	1.04E+08	1.04E+08	3 C10orf95	2
10	1.04E+08	1.04E+08	137 C10orf95	2
10	1.04E+08	1.04E+08	6 C10orf95	2
10	1.04E+08	1.04E+08	216 C10orf95	2
10	1.04E+08	1.04E+08	12 ACTR1A	9
10	1.04E+08	1.04E+08	1 ACTR1A	9
10	1.05E+08	1.05E+08	45 TAF5	1
10	1.06E+08	1.06E+08	19 SLK	3
10	1.06E+08	1.06E+08	5 SLK	3
10	1.06E+08	1.06E+08	8 SLK	3
10	1.06E+08	1.06E+08	2 SLK	3
10	1.06E+08	1.06E+08	110 COL17A1	16
10	1.06E+08	1.06E+08	2 COL17A1	16
10	1.06E+08	1.06E+08	1 COL17A1	16
10	1.06E+08	1.06E+08	16 SORCS3	1
10	1.06E+08	1.06E+08	14 SORCS3	1
10	1.06E+08	1.06E+08	2 SORCS3	1
10	1.06E+08	1.06E+08	1 SORCS3	1
10	1.09E+08	1.09E+08	117 SORCS1	1
10	1.12E+08	1.12E+08	6 MXI1	1

10	1.12E+08	1.12E+08	28 MX11	3
10	1.12E+08	1.12E+08	11 DUSP5	1
10	1.12E+08	1.12E+08	1 DUSP5	1
10	1.12E+08	1.12E+08	6 DUSP5	1
10	1.12E+08	1.12E+08	12 DUSP5	1
10	1.12E+08	1.12E+08	15 SMC3	28
10	1.12E+08	1.12E+08	25 RBM20	1
10	1.12E+08	1.12E+08	46 RBM20	1
10	1.13E+08	1.13E+08	68 ADRA2A	1
10	1.13E+08	1.13E+08	3 ADRA2A	1
10	1.16E+08	1.16E+08	25 ADRB1	1
10	1.16E+08	1.16E+08	38 ADRB1	1
10	1.16E+08	1.16E+08	3 ADRB1	1
10	1.16E+08	1.16E+08	38 ADRB1	1
10	1.16E+08	1.16E+08	26 ADRB1	1
10	1.19E+08	1.19E+08	49 HSPA12A	1
10	1.19E+08	1.19E+08	22 VAX1	3
10	1.19E+08	1.19E+08	3 VAX1	3
10	1.19E+08	1.19E+08	42 EMX2	1
10	1.21E+08	1.21E+08	53 NANOS1	1
10	1.21E+08	1.21E+08	3 NANOS1	1
10	1.21E+08	1.21E+08	58 RGS10	1
10	1.23E+08	1.23E+08	75 WDR11	7
10	1.23E+08	1.23E+08	3 WDR11	7
10	1.23E+08	1.23E+08	2 WDR11	7
10	1.23E+08	1.23E+08	6 WDR11	7
10	1.24E+08	1.24E+08	11 LOC100130	1
10	1.24E+08	1.24E+08	58 LOC100130	1
10	1.24E+08	1.24E+08	1 PLEKHA1	8
10	1.24E+08	1.24E+08	103 HTRA1	1
10	1.24E+08	1.24E+08	171 HTRA1	1
10	1.24E+08	1.24E+08	126 DMBT1	23
10	1.24E+08	1.24E+08	39 DMBT1	24
10	1.25E+08	1.25E+08	37 C10orf88	1
10	1.25E+08	1.25E+08	16 ACADSB	9
10	1.25E+08	1.25E+08	7 HMX3	1
10	1.25E+08	1.25E+08	59 HMX3	1
10	1.25E+08	1.25E+08	27 GPR26	1
10	1.26E+08	1.26E+08	58 OAT	3
10	1.26E+08	1.26E+08	12 OAT	2
10	1.26E+08	1.26E+08	2 NKX1-2	2
10	1.26E+08	1.26E+08	41 NKX1-2	2
10	1.26E+08	1.26E+08	3 NKX1-2	2
10	1.26E+08	1.26E+08	5 METTL10	4
10	1.27E+08	1.27E+08	4 MMP21	2

10	1.27E+08	1.27E+08	15 MMP21	2
10	1.27E+08	1.27E+08	47 MMP21	2
10	1.28E+08	1.28E+08	1 ADAM12	21
10	1.28E+08	1.28E+08	61 ADAM12	1
10	1.28E+08	1.28E+08	2 ADAM12	1
10	1.3E+08	1.3E+08	88 FOXI2	1
10	1.3E+08	1.3E+08	1 FOXI2	1
10	1.3E+08	1.3E+08	5 FOXI2	1
10	1.3E+08	1.3E+08	32 FOXI2	1
10	1.32E+08	1.32E+08	47 GLRX3	1
10	1.32E+08	1.32E+08	48 GLRX3	1
10	1.33E+08	1.33E+08	99 TCERG1L	1
10	1.33E+08	1.33E+08	190 TCERG1L	1
10	1.34E+08	1.34E+08	11 DPYSL4	6
10	1.34E+08	1.34E+08	23 STK32C	9
10	1.34E+08	1.34E+08	13 STK32C	9
10	1.34E+08	1.34E+08	15 STK32C	1
10	1.34E+08	1.34E+08	36 STK32C	1
10	1.34E+08	1.34E+08	44 PWWP2B	1
10	1.34E+08	1.34E+08	8 PWWP2B	2
10	1.34E+08	1.34E+08	32 PWWP2B	2
10	1.34E+08	1.34E+08	1 PWWP2B	2
10	1.34E+08	1.34E+08	71 PWWP2B	2
10	1.34E+08	1.34E+08	1 PWWP2B	2
10	1.34E+08	1.34E+08	33 INPP5A	1
10	1.35E+08	1.35E+08	188 NKX6-2	1
10	1.35E+08	1.35E+08	14 C10orf92	8
10	1.35E+08	1.35E+08	2 C10orf92	8
10	1.35E+08	1.35E+08	15 C10orf93	1
10	1.35E+08	1.35E+08	1 KNDC1	7
10	1.35E+08	1.35E+08	2 KNDC1	7
10	1.35E+08	1.35E+08	10 KNDC1	14
10	1.35E+08	1.35E+08	79 UTF1	1
10	1.35E+08	1.35E+08	3 UTF1	1
10	1.35E+08	1.35E+08	181 UTF1	2
10	1.35E+08	1.35E+08	13 VENTX	2
10	1.35E+08	1.35E+08	2 VENTX	2
10	1.35E+08	1.35E+08	10 VENTX	2
10	1.35E+08	1.35E+08	10 VENTX	2
10	1.35E+08	1.35E+08	11 ADAM8	20
10	1.35E+08	1.35E+08	4 ADAM8	9
10	1.35E+08	1.35E+08	82 CALY	4
10	1.35E+08	1.35E+08	94 C10orf125	1
10	1.35E+08	1.35E+08	2 PAOX	1
10	1.35E+08	1.35E+08	98 PAOX	1



10	1.35E+08	1.35E+08	176 SPRN	1
10	1.35E+08	1.35E+08	9 SYCE1	1
10	1.35E+08	1.35E+08	13 FRG2B	4
10	1.35E+08	1.35E+08	27 FRG2B	2
11	207323	207326	3 BET1L	1
11	279349	279365	16 NLRP6	2
11	369802	369808	6 B4GALNT4	1
11	376494	376505	11 B4GALNT4	14
11	376587	376601	14 B4GALNT4	14
11	376783	376794	11 B4GALNT4	14
11	376801	376837	36 B4GALNT4	14
11	376908	376911	3 B4GALNT4	14
11	394365	394448	83 PKP3	1
11	394450	394456	6 PKP3	1
11	400092	400094	2 PKP3	6
11	400095	400136	41 PKP3	6
11	407165	407167	2 SIGIRR	6
11	450487	450642	155 PTDSS2	1
11	500003	500004	1 RNH1	3
11	555113	555115	2 C11orf35	14
11	555446	555483	37 C11orf35	13
11	556101	556120	19 C11orf35	11
11	556204	556216	12 C11orf35	10
11	562642	562652	10 RASSF7	2
11	562657	562658	1 RASSF7	2
11	562665	562722	57 RASSF7	2
11	609688	609691	3 PHRF1	13
11	618708	618722	14 CDHR5	13
11	618723	618739	16 CDHR5	13
11	624208	624210	2 CDHR5	3
11	626959	626994	35 SCT	2
11	637300	637420	120 DRD4	1
11	637421	637424	3 DRD4	1
11	639728	639758	30 DRD4	3
11	639937	639970	33 DRD4	3
11	640146	640232	86 DRD4	3
11	640241	640311	70 DRD4	3
11	694754	694933	179 DEAF1	1
11	694991	695044	53 DEAF1	1
11	695051	695052	1 DEAF1	1
11	721280	721283	3 EPS8L2	8
11	725826	725844	18 EPS8L2	16
11	726093	726095	2 EPS8L2	17
11	726748	726756	8 EPS8L2	19
11	777394	777467	73 PDDC1	1

11	893422	893425	3 CHID1	8
11	903735	903783	48 CHID1	2
11	1020203	1020204	1 MUC6	29
11	1030613	1030641	28 MUC6	7
11	1078595	1078671	76 MUC2	6
11	1083602	1083607	5 MUC2	17
11	1218689	1218870	181 MUC5AC	32
11	1219126	1219150	24 MUC5AC	33
11	1244349	1244361	12 MUC5B	1
11	1249826	1249839	13 MUC5B	8
11	1249905	1249906	1 MUC5B	8
11	1249913	1249922	9 MUC5B	8
11	1249941	1249943	2 MUC5B	8
11	1249945	1249947	2 MUC5B	8
11	1249949	1250000	51 MUC5B	8
11	1255438	1255496	58 MUC5B	20
11	1276416	1276417	1 MUC5B	36
11	1276422	1276463	41 MUC5B	36
11	1330691	1330733	42 TOLLIP	1
11	1462148	1462163	15 BRK2	4
11	1464331	1464336	5 BRK2	6
11	1577886	1577973	87 DUSP8	6
11	1578123	1578243	120 DUSP8	6
11	1578272	1578400	128 DUSP8	6
11	1578480	1578600	120 DUSP8	6
11	1578656	1578745	89 DUSP8	6
11	1578761	1578809	48 DUSP8	6
11	1579432	1579506	74 DUSP8	4
11	1580182	1580186	4 DUSP8	3
11	1580192	1580194	2 DUSP8	3
11	1580210	1580290	80 DUSP8	3
11	1619329	1619359	30 KRTAP5-2	1
11	1629295	1629401	106 KRTAP5-3	1
11	1651355	1651377	22 KRTAP5-5	1
11	1769313	1769315	2 IFITM10	2
11	1785017	1785059	42 CTSD	1
11	1946324	1946351	27 TNNT3	4
11	2291172	2291209	37 ASCL2	1
11	2291546	2291548	2 ASCL2	1
11	2291549	2291567	18 ASCL2	1
11	2435286	2435292	6 TRPM5	12
11	2435958	2435960	2 TRPM5	11
11	2435963	2435965	2 TRPM5	11
11	2435966	2435969	3 TRPM5	11
11	2438958	2438979	21 TRPM5	7

11	2466324	2466349	25 KCNQ1	1
11	2466351	2466480	129 KCNQ1	1
11	2906225	2906385	160 CDKN1C	1
11	2930551	2930553	2 SLC22A18	3
11	2930554	2930576	22 SLC22A18	3
11	2950131	2950253	122 PHLDA2	1
11	3239693	3239694	1 MRGPRG	1
11	4076822	4076853	31 STIM1	4
11	4975997	4976105	108 OR51A2	1
11	4976478	4976543	65 OR51A2	1
11	4976555	4976711	156 OR51A2	1
11	5275862	5275963	101 HBG2	1
11	5663631	5663663	32 TRIM6-TRIM	12
11	5663631	5663663	32 TRIM34	5
11	5663631	5663663	32 TRIM6-TRIM	12
11	5663631	5663663	32 TRIM34	5
11	6281158	6281159	1 CCKBR	1
11	6412860	6412879	19 SMPD1	2
11	6633184	6633187	3 TAF10	1
11	6633203	6633205	2 TAF10	1
11	6633212	6633219	7 TAF10	1
11	6633225	6633226	1 TAF10	1
11	6633270	6633348	78 TAF10	1
11	7110675	7110726	51 RBMXL2	1
11	7110826	7110828	2 RBMXL2	1
11	7110835	7110837	2 RBMXL2	1
11	7110840	7110891	51 RBMXL2	1
11	7717227	7717232	5 OVCH2	11
11	9025304	9025358	54 NRIP3	1
11	9025367	9025487	120 NRIP3	1
11	9112952	9112981	29 SCUBE2	1
11	9112994	9113024	30 SCUBE2	1
11	9286602	9286621	19 DENND5A	1
11	9595653	9595686	33 WEE1	1
11	9595774	9595789	15 WEE1	1
11	12030093	12030134	41 DKK3	1
11	13032651	13032652	1 RASSF10	1
11	13424810	13424830	20 BTBD10	7
11	13733320	13733335	15 FAR1	5
11	13733336	13733338	2 FAR1	5
11	14380408	14380421	13 RRAS2	1
11	14539228	14539296	68 PSMA1	4
11	17035944	17035953	9 PLEKHA7	1
11	17143732	17143733	1 PIK3C2A	14
11	17531096	17531103	7 USH1C	18

11	18034546	18034562	16 SERGEF	1
11	19138792	19138795	3 ZDHC13	1
11	27493660	27493831	171 LGR4	1
11	32112738	32112826	88 RCN1	1
11	33721993	33721995	2 C11orf91	1
11	33722086	33722110	24 C11orf91	1
11	33796039	33796048	9 FBXO3	1
11	33890887	33890997	110 LMO2	2
11	34173988	34174036	48 ABTB2	17
11	34174039	34174040	1 ABTB2	17
11	34226185	34226194	9 ABTB2	2
11	35640223	35640343	120 FJX1	1
11	35640384	35640485	101 FJX1	1
11	35965644	35965699	55 LDLRAD3	1
11	43342456	43342465	9 API5	3
11	43342466	43342468	2 API5	3
11	44958349	44958378	29 TP53I11	4
11	44958379	44958387	8 TP53I11	4
11	45921684	45921691	7 MAPK8IP1	3
11	45924591	45924640	49 MAPK8IP1	5
11	45924652	45924654	2 MAPK8IP1	5
11	45924662	45924668	6 MAPK8IP1	5
11	45924674	45924677	3 MAPK8IP1	5
11	45924700	45924740	40 MAPK8IP1	5
11	45944429	45944431	2 GYLTL1B	1
11	45944552	45944577	25 GYLTL1B	1
11	45944580	45944686	106 GYLTL1B	1
11	46329491	46329495	4 CREB3L1	3
11	46329497	46329501	4 CREB3L1	3
11	46388422	46388428	6 DGKZ	1
11	46400630	46400644	14 DGKZ	28
11	46741247	46741252	5 F2	2
11	46939874	46939885	11 LRP4	1
11	47357423	47357455	32 MYBPC3	26
11	47357502	47357539	37 MYBPC3	26
11	47376773	47376780	7 SPI1	5
11	47463370	47463423	53 RAPSN	4
11	47611847	47611865	18 C1QTNF4	1
11	47727124	47727191	67 AGL2	5
11	47788691	47788707	16 FNBP4	1
11	48002518	48002565	47 PTPRJ	1
11	50003188	50003200	12 OR4C12	1
11	56127742	56127751	9 OR8J1	1
11	56128516	56128531	15 OR8J1	1
11	56143148	56143161	13 OR8U1	1

11	56468006	56468044	38	OR9G1	1
11	56468133	56468257	124	OR9G1	1
11	57228334	57228374	40	RTN4RL2	1
11	57509107	57509153	46	C11orf31	1
11	58346874	58346875	1	ZFP91	1
11	58346881	58346882	1	ZFP91	1
11	58346888	58346901	13	ZFP91	1
11	58346911	58346921	10	ZFP91	1
11	59382908	59382914	6	OSBP	1
11	59383003	59383025	22	OSBP	1
11	59406846	59406849	3	PATL1	17
11	59419023	59419024	1	PATL1	12
11	59436371	59436373	2	PATL1	1
11	60702013	60702038	25	TMEM132A	9
11	60718474	60718661	187	SLC15A3	1
11	60718666	60718667	1	SLC15A3	1
11	60718670	60718671	1	SLC15A3	1
11	60718918	60718944	26	SLC15A3	1
11	60775143	60775228	85	CD6	3
11	60996138	60996139	1	PGA4	6
11	60997386	60997450	64	PGA4	7
11	60997527	60997540	13	PGA4	7
11	60997633	60997646	13	PGA4	8
11	60998993	60999008	15	PGA4	9
11	61062508	61062514	6	VWCE	1
11	61276466	61276492	26	LRRRC10B	1
11	61276567	61276572	5	LRRRC10B	1
11	61276573	61276574	1	LRRRC10B	1
11	61276576	61276580	4	LRRRC10B	1
11	61348257	61348297	40	SYT7	1
11	61511074	61511093	19	DAGLA	19
11	61537762	61537845	83	C11orf9	5
11	61584331	61584373	42	FADS1	1
11	61673965	61674022	57	RAB3IL1	5
11	61675750	61675767	17	RAB3IL1	2
11	61684842	61684844	2	RAB3IL1	1
11	61723185	61723216	31	BEST1	2
11	61908179	61908180	1	INCENP	8
11	62379903	62379934	31	EML3	1
11	62494437	62494490	53	HNRNPUL2	1
11	62494491	62494492	1	HNRNPUL2	1
11	62550160	62550200	40	TAF6L	8
11	62554397	62554465	68	TAF6L	10
11	62559459	62559471	12	TMEM223	1
11	62598518	62598540	22	STX5	1

11	63258444	63258479	35 HRASLS5	1
11	63531564	63531856	292 C11orf95	4
11	63535999	63536065	66 C11orf95	1
11	63581287	63581288	1 C11orf84	1
11	63585325	63585330	5 C11orf84	2
11	63679332	63679512	180 RCOR2	12
11	63679518	63679592	74 RCOR2	12
11	63683022	63683032	10 RCOR2	2
11	63683038	63683088	50 RCOR2	2
11	63766335	63766349	14 MACROD1	10
11	63766798	63766881	83 MACROD1	8
11	63933256	63933327	71 MACROD1	1
11	63933330	63933332	2 MACROD1	1
11	64002301	64002370	69 VEGFB	1
11	64013969	64014091	122 PPP1R14B	1
11	64014142	64014150	8 PPP1R14B	1
11	64019117	64019146	29 PLCB3	1
11	64032491	64032571	80 PLCB3	23
11	64065696	64065702	6 KCNK4	5
11	64065705	64065706	1 KCNK4	5
11	64065708	64065709	1 KCNK4	5
11	64068300	64068331	31 C11orf20	2
11	64081418	64081430	12 ESRRA	2
11	64081434	64081435	1 ESRRA	2
11	64081445	64081446	1 ESRRA	2
11	64081452	64081454	2 ESRRA	2
11	64081485	64081487	2 ESRRA	2
11	64083332	64083355	23 ESRRA	6
11	64085683	64085735	52 PRDX5	1
11	64110027	64110157	130 CCDC88B	10
11	64111264	64111268	4 CCDC88B	13
11	64111270	64111302	32 CCDC88B	13
11	64111304	64111309	5 CCDC88B	13
11	64112482	64112529	47 CCDC88B	14
11	64112531	64112602	71 CCDC88B	14
11	64117018	64117055	37 CCDC88B	16
11	64127643	64127678	35 RPS6KA4	3
11	64138861	64138895	34 RPS6KA4	17
11	64332694	64332771	77 SLC22A11	6
11	64332779	64332780	1 SLC22A11	6
11	64332803	64332804	1 SLC22A11	6
11	64375435	64375495	60 NRXN2	22
11	64375498	64375500	2 NRXN2	22
11	64480450	64480495	45 NRXN2	1
11	64480500	64480562	62 NRXN2	1

11	64480781	64480787	6 NRXN2	1
11	64481035	64481167	132 NRXN2	1
11	64497552	64497562	10 RASGRP2	12
11	64545454	64545572	118 SF1	1
11	64545746	64545771	25 SF1	1
11	64604228	64604234	6 CDC42BPG	11
11	64611877	64612046	169 CDC42BPG	1
11	64669821	64669863	42 ATG2A	28
11	64669983	64670043	60 ATG2A	27
11	64670142	64670155	13 ATG2A	27
11	64679894	64679900	6 ATG2A	7
11	64693211	64693314	103 PPP2R5B	1
11	64808863	64808866	3 SAC3D1	1
11	64809131	64809254	123 SAC3D1	1
11	64863853	64863854	1 C11orf2	1
11	64863869	64863873	4 C11orf2	1
11	64863886	64863890	4 C11orf2	1
11	64863898	64863955	57 C11orf2	1
11	64876079	64876081	2 C11orf2	5
11	64876083	64876085	2 C11orf2	5
11	64876105	64876106	1 C11orf2	5
11	64876109	64876134	25 C11orf2	5
11	64879982	64879999	17 TM7SF2	2
11	64880137	64880145	8 TM7SF2	2
11	64880149	64880151	2 TM7SF2	2
11	65315192	65315193	1 LTBP3	13
11	65315196	65315205	9 LTBP3	13
11	65340136	65340164	28 FAM89B	1
11	65340174	65340379	205 FAM89B	1
11	65352691	65352879	188 EHBP1L1	12
11	65359266	65359289	23 EHBP1L1	17
11	65367023	65367090	67 MAP3K11	9
11	65367091	65367093	2 MAP3K11	9
11	65367100	65367106	6 MAP3K11	9
11	65367127	65367128	1 MAP3K11	9
11	65374784	65374789	5 MAP3K11	5
11	65374903	65374916	13 MAP3K11	5
11	65381152	65381190	38 MAP3K11	1
11	65381210	65381211	1 MAP3K11	1
11	65386539	65386543	4 PCNXL3	6
11	65415132	65415134	2 SIPA1	8
11	65430292	65430308	16 RELA	1
11	65547612	65547660	48 DKFZp761E	1
11	65628226	65628231	5 MUS81	1
11	65628236	65628281	45 MUS81	1

11	65686466	65686507	41 C11orf68	1
11	65726656	65726672	16 TSGA10IP	7
11	65729528	65729569	41 SART1	1
11	65732569	65732574	5 SART1	4
11	65837953	65838018	65 PACS1	1
11	65838196	65838197	1 PACS1	1
11	65838200	65838202	2 PACS1	1
11	65838203	65838204	1 PACS1	1
11	65838210	65838218	8 PACS1	1
11	65838220	65838238	18 PACS1	1
11	65838239	65838240	1 PACS1	1
11	66033391	66033392	1 KLC2	12
11	66046012	66046013	1 CNIH2	1
11	66059480	66059564	84 TMEM151A	1
11	66062849	66062953	104 TMEM151A	2
11	66062955	66062961	6 TMEM151A	2
11	66062965	66062966	1 TMEM151A	2
11	66084238	66084242	4 CD248	1
11	66084246	66084249	3 CD248	1
11	66084259	66084262	3 CD248	1
11	66084267	66084354	87 CD248	1
11	66084485	66084486	1 CD248	1
11	66084498	66084503	5 CD248	1
11	66100757	66100781	24 RIN1	9
11	66103558	66103615	57 RIN1	2
11	66326845	66326862	17 ACTN3	12
11	66327443	66327449	6 ACTN3	13
11	66327498	66327552	54 ACTN3	13
11	66328718	66328738	20 ACTN3	16
11	66328739	66328742	3 ACTN3	16
11	66335547	66335549	2 CTSF	2
11	66335772	66335962	190 CTSF	1
11	66610479	66610480	1 C11orf80	16
11	66610484	66610485	1 C11orf80	16
11	66610489	66610509	20 C11orf80	16
11	66610511	66610512	1 C11orf80	16
11	66610922	66610934	12 RCE1	1
11	66824369	66824393	24 RHOD	1
11	66975000	66975008	8 KDM2A	5
11	67052401	67052433	32 ADRBK1	19
11	67056927	67057026	99 ANKRD13D	1
11	67140990	67141001	11 CLCF1	1
11	67176447	67176467	20 TBC1D10C	8
11	67188075	67188091	16 CARNS1	7
11	67188096	67188103	7 CARNS1	7



11	67188106	67188113	7 CARNs1	7
11	67188220	67188226	6 CARNs1	7
11	67188287	67188289	2 CARNs1	7
11	67188498	67188551	53 CARNs1	8
11	67191967	67192014	47 CARNs1	9
11	67206174	67206232	58 CORO1B	9
11	67206233	67206235	2 CORO1B	9
11	67218794	67218796	2 GPR152	1
11	67218820	67218832	12 GPR152	1
11	67290118	67290163	45 CABP2	2
11	67397292	67397387	95 NUDT8	1
11	67412226	67412254	28 ACY3	5
11	67771271	67771273	2 UNC93B1	2
11	67771413	67771461	48 UNC93B1	1
11	67771462	67771464	2 UNC93B1	1
11	67771469	67771476	7 UNC93B1	1
11	67771491	67771518	27 UNC93B1	1
11	67810142	67810196	54 TCIRG1	3
11	67810835	67810866	31 TCIRG1	5
11	67817184	67817236	52 TCIRG1	15
11	67888530	67888531	1 CHKA	1
11	67888534	67888623	89 CHKA	1
11	67888624	67888626	2 CHKA	1
11	67888635	67888644	9 CHKA	1
11	67888648	67888649	1 CHKA	1
11	68080178	68080231	53 LRP5	1
11	68080263	68080278	15 LRP5	1
11	68207356	68207366	10 LRP5	21
11	68527709	68527710	1 CPT1A	16
11	68704546	68704552	6 IGHMBP2	13
11	68705775	68705780	5 IGHMBP2	14
11	69518408	69518449	41 FGF19	1
11	69518500	69518506	6 FGF19	1
11	69518511	69518513	2 FGF19	1
11	69518515	69518521	6 FGF19	1
11	69518525	69518528	3 FGF19	1
11	69589743	69589857	114 FGF4	1
11	69633578	69633706	128 FGF3	1
11	71498582	71498683	101 FAM86C1	1
11	71714990	71715015	25 NUMA1	24
11	71949146	71949147	1 INPPL1	27
11	71949163	71949167	4 INPPL1	27
11	71950904	71951103	199 PHOX2A	3
11	71954870	71954952	82 PHOX2A	1
11	71955041	71955053	12 PHOX2A	1

11	72353334	72353337	3 PDE2A	2
11	72423269	72423274	5 ARAP1	5
11	72425252	72425255	3 ARAP1	2
11	72437697	72437698	1 ARAP1	1
11	72437803	72437955	152 ARAP1	1
11	72525496	72525501	5 ATG16L2	1
11	72532708	72532736	28 ATG16L2	4
11	72533137	72533145	8 ATG16L2	5
11	73019482	73019483	1 LOC100287	2
11	73019527	73019530	3 LOC100287	2
11	73019532	73019554	22 LOC100287	2
11	73019881	73019884	3 ARHGEF17	1
11	73019881	73019884	3 LOC100287	1
11	73019881	73019884	3 ARHGEF17	1
11	73019881	73019884	3 LOC100287	1
11	73019885	73019888	3 ARHGEF17	1
11	73019885	73019888	3 LOC100287	1
11	73019885	73019888	3 ARHGEF17	1
11	73019885	73019888	3 LOC100287	1
11	73019893	73019895	2 ARHGEF17	1
11	73019893	73019895	2 LOC100287	1
11	73019893	73019895	2 ARHGEF17	1
11	73019893	73019895	2 LOC100287	1
11	73760508	73760510	2 C2CD3	27
11	73760512	73760529	17 C2CD3	27
11	73760532	73760533	1 C2CD3	27
11	74022525	74022661	136 P4HA3	1
11	74204588	74204753	165 LIPT2	1
11	74419342	74419361	19 CHRDL2	5
11	74460081	74460193	112 RNF169	1
11	74460257	74460432	175 RNF169	1
11	74952122	74952172	50 LOC441617	1
11	74952325	74952369	44 LOC441617	1
11	74952577	74952671	94 LOC441617	1
11	75141090	75141285	195 KLHL35	1
11	75378505	75378523	18 MAP6	1
11	75378545	75378789	244 MAP6	1
11	75378794	75378797	3 MAP6	1
11	75378798	75378799	1 MAP6	1
11	75378800	75378801	1 MAP6	1
11	75379066	75379166	100 MAP6	1
11	75440005	75440006	1 MOGAT2	5
11	75526553	75526566	13 UVRAG	1
11	75719846	75719916	70 UVRAG	11
11	75905833	75905838	5 WNT11	3

11	76091787	76091801	14	PRKRIR	1
11	76091853	76091885	32	PRKRIR	1
11	76796031	76796057	26	CAPN5	1
11	76890883	76890917	34	MYO7A	20
11	76890922	76890942	20	MYO7A	20
11	76890951	76890952	1	MYO7A	20
11	76914117	76914236	119	MYO7A	37
11	76914238	76914240	2	MYO7A	37
11	76914241	76914259	18	MYO7A	37
11	76914264	76914267	3	MYO7A	37
11	77531733	77531734	1	RSF1	1
11	77907670	77907698	28	USP35	1
11	77907705	77907708	3	USP35	1
11	77907729	77907746	17	USP35	1
11	78189520	78189526	6	NARS2	9
11	82444172	82444221	49	FAM181B	1
11	82444305	82444410	105	FAM181B	1
11	82561089	82561118	29	PRCP	6
11	85711681	85711709	28	PICALM	11
11	85711713	85711715	2	PICALM	11
11	85711726	85711735	9	PICALM	11
11	89702655	89702713	58	TRIM64	2
11	89704400	89704428	28	TRIM64	4
11	89914856	89914874	18	NAALAD2	17
11	92616472	92616524	52	FAT3	23
11	92702887	92702947	60	MTNR1B	1
11	93402094	93402100	6	KIAA1731	3
11	94245690	94245805	115	LOC643037	1
11	94277381	94277383	2	FUT4	1
11	94277681	94277740	59	FUT4	1
11	94800602	94800742	140	SRSF8	1
11	1.01E+08	1.01E+08	7	PGR	1
11	1.02E+08	1.02E+08	114	YAP1	1
11	1.02E+08	1.02E+08	3	BIRC3	4
11	1.03E+08	1.03E+08	35	DYNC2H1	21
11	1.03E+08	1.03E+08	2	DYNC2H1	21
11	1.03E+08	1.03E+08	1	DYNC2H1	21
11	1.03E+08	1.03E+08	81	DYNC2H1	49
11	1.07E+08	1.07E+08	16	GUCY1A2	1
11	1.07E+08	1.07E+08	2	GUCY1A2	1
11	1.07E+08	1.07E+08	61	GUCY1A2	1
11	1.1E+08	1.1E+08	96	FDX1	1
11	1.1E+08	1.1E+08	12	ARHGAP20	7
11	1.1E+08	1.1E+08	1	ARHGAP20	4
11	1.1E+08	1.1E+08	14	ARHGAP20	4

11	1.11E+08	1.11E+08	94 LAYN	1
11	1.12E+08	1.12E+08	12 HSPB2	1
11	1.12E+08	1.12E+08	37 HSPB2	1
11	1.12E+08	1.12E+08	7 PTS	2
11	1.14E+08	1.14E+08	66 USP28	1
11	1.17E+08	1.17E+08	2 ZNF259	1
11	1.17E+08	1.17E+08	29 ZNF259	1
11	1.17E+08	1.17E+08	3 CEP164	12
11	1.17E+08	1.17E+08	1 CEP164	12
11	1.17E+08	1.17E+08	16 CEP164	12
11	1.17E+08	1.17E+08	33 DSCAML1	33
11	1.18E+08	1.18E+08	2 DSCAML1	1
11	1.18E+08	1.18E+08	36 TTC36	3
11	1.19E+08	1.19E+08	8 PHLDB1	12
11	1.19E+08	1.19E+08	14 PHLDB1	17
11	1.19E+08	1.19E+08	79 TREH	15
11	1.19E+08	1.19E+08	65 BCL9L	8
11	1.19E+08	1.19E+08	1 BCL9L	4
11	1.19E+08	1.19E+08	10 BCL9L	4
11	1.19E+08	1.19E+08	2 BCL9L	4
11	1.19E+08	1.19E+08	1 SLC37A4	6
11	1.19E+08	1.19E+08	57 C2CD2L	1
11	1.19E+08	1.19E+08	8 ABCG4	1
11	1.19E+08	1.19E+08	15 C1QTNF5	2
11	1.19E+08	1.19E+08	49 C1QTNF5	1
11	1.24E+08	1.24E+08	4 OR8G1	1
11	1.25E+08	1.25E+08	17 NRGN	2
11	1.25E+08	1.25E+08	145 C11orf61	1
11	1.25E+08	1.25E+08	18 C11orf61	1
11	1.25E+08	1.25E+08	1 ROBO3	15
11	1.25E+08	1.25E+08	38 ROBO3	17
11	1.25E+08	1.25E+08	1 HEPACAM	7
11	1.25E+08	1.25E+08	133 HEPACAM	7
11	1.34E+08	1.34E+08	11 GLB1L3	1
12	176044	176055	11 IQSEC3	1
12	176234	176281	47 IQSEC3	1
12	176323	176419	96 IQSEC3	1
12	176426	176427	1 IQSEC3	1
12	176442	176449	7 IQSEC3	1
12	248143	248147	4 IQSEC3	4
12	284087	284123	36 IQSEC3	14
12	569553	569554	1 B4GALNT3	1
12	4874540	4874550	10 GALNT8	10
12	6031802	6031803	1 ANO2	2
12	6127526	6127530	4 VWF	27

12	6438975	6439005	30 TNFRSF1A	9
12	6562262	6562267	5 TAPBPL	2
12	6646815	6646817	2 GAPDH	7
12	6882909	6883172	263 LAG3	3
12	6937601	6937624	23 LEPREL2	1
12	6937741	6937745	4 LEPREL2	1
12	6937747	6937797	50 LEPREL2	1
12	6937855	6937908	53 LEPREL2	1
12	6939560	6939617	57 LEPREL2	3
12	7283308	7283313	5 CLSTN3	1
12	8374686	8374721	35 FAM90A1	4
12	8374724	8374730	6 FAM90A1	4
12	8374757	8374758	1 FAM90A1	4
12	8757520	8757521	1 AICDA	4
12	9633154	9633175	21 OVOS	2
12	9633179	9633305	126 OVOS	2
12	9664366	9664443	77 OVOS	3
12	9684215	9684334	119 OVOS	4
12	9685165	9685211	46 OVOS	5
12	9688873	9688918	45 OVOS	6
12	9692953	9693080	127 OVOS	7
12	9693825	9693889	64 OVOS	8
12	9694302	9694435	133 OVOS	9
12	9695126	9695322	196 OVOS	10
12	9695335	9695377	42 OVOS	10
12	9697645	9697766	121 OVOS	11
12	9697772	9697785	13 OVOS	11
12	9705033	9705166	133 OVOS	14
12	9706590	9706679	89 OVOS	15
12	9707136	9707257	121 OVOS	16
12	9707594	9707683	89 OVOS	17
12	9709371	9709406	35 OVOS	18
12	9710960	9711053	93 OVOS	20
12	9711777	9711905	128 OVOS	21
12	9712701	9712792	91 OVOS	22
12	9713408	9713449	41 OVOS	23
12	9713524	9713541	17 OVOS	23
12	9713554	9713566	12 OVOS	23
12	9715536	9715620	84 OVOS	24
12	9716758	9716926	168 OVOS	25
12	9717689	9717935	246 OVOS	26
12	9725718	9725781	63 OVOS	29
12	10572537	10572559	22 KLRC3	2
12	10602508	10602571	63 KLRC1	3
12	10875615	10875715	100 CSDA	1

12	11035086	11035092	6 PRH1	4
12	11174273	11174277	4 TAS2R19	1
12	11174748	11174763	15 TAS2R19	1
12	11183216	11183231	15 TAS2R31	1
12	11243894	11243955	61 TAS2R43	1
12	11243971	11244125	154 TAS2R43	1
12	11244166	11244420	254 TAS2R43	1
12	11244491	11244605	114 TAS2R43	1
12	11244751	11244833	82 TAS2R43	1
12	11286087	11286091	4 TAS2R30	1
12	11286784	11286792	8 TAS2R30	1
12	11461505	11461540	35 PRB4	3
12	11545756	11545864	108 PRB2	3
12	11546837	11546847	10 PRB2	3
12	14599919	14599920	1 ATF7IP	5
12	14720574	14720635	61 PLBD1	1
12	14941934	14941945	11 WBP11	10
12	14941957	14941958	1 WBP11	10
12	16055846	16055849	3 STRAP	10
12	21791393	21791395	2 LDHB	5
12	21791396	21791399	3 LDHB	5
12	26275188	26275209	21 BHLHE41	5
12	26275269	26275287	18 BHLHE41	5
12	26275485	26275487	2 BHLHE41	5
12	26275490	26275546	56 BHLHE41	5
12	26275703	26275716	13 BHLHE41	5
12	26348660	26348690	30 SSPN	1
12	26807056	26807064	8 ITPR2	21
12	27486001	27486041	40 ARNTL2	1
12	29936378	29936379	1 TMTC1	1
12	29936399	29936401	2 TMTC1	1
12	29936408	29936409	1 TMTC1	1
12	29936410	29936435	25 TMTC1	1
12	29936573	29936681	108 TMTC1	1
12	31242975	31243033	58 DDX11	8
12	31743635	31743639	4 DENND5B	1
12	31743667	31743671	4 DENND5B	1
12	31743672	31743675	3 DENND5B	1
12	31743678	31743680	2 DENND5B	1
12	31743715	31743745	30 DENND5B	1
12	31881900	31881907	7 AMN1	1
12	33049612	33049670	58 PKP2	1
12	40688642	40688645	3 LRRK2	22
12	41582579	41582600	21 PDZRN4	1
12	42481735	42481736	1 GXYL1	8

12	42481740	42481754	14	GXYLT1	8
12	42538240	42538360	120	GXYLT1	1
12	44198342	44198380	38	TWF1	2
12	48167083	48167085	2	SLC48A1	1
12	48213545	48213573	28	HDAC7	1
12	48276472	48276478	6	VDR	2
12	49091970	49091971	1	CCNT1	6
12	49363873	49363898	25	WNT10B	2
12	49363903	49363905	2	WNT10B	2
12	49390833	49390835	2	DDN	2
12	49390843	49390844	1	DDN	2
12	49390848	49390849	1	DDN	2
12	49390852	49390856	4	DDN	2
12	49390857	49390858	1	DDN	2
12	49420977	49421001	24	MLL2	48
12	49424177	49424222	45	MLL2	42
12	49435141	49435156	15	MLL2	31
12	49435161	49435165	4	MLL2	31
12	50026792	50026813	21	PRPF40B	6
12	50031517	50031521	4	PRPF40B	17
12	50186601	50186626	25	NCKAP5L	9
12	50356002	50356006	4	AQP5	1
12	50479148	50479219	71	SMARCD1	1
12	50479224	50479334	110	SMARCD1	1
12	51589748	51589765	17	POU6F1	2
12	51759245	51759278	33	GALNT6	3
12	52214680	52214956	276	FIGNL2	1
12	52214957	52214958	1	FIGNL2	1
12	52215444	52215474	30	FIGNL2	1
12	52215522	52215717	195	FIGNL2	1
12	52345523	52345526	3	ACVR1B	1
12	52345607	52345608	1	ACVR1B	1
12	52345609	52345623	14	ACVR1B	1
12	52400799	52400816	17	GRASP	1
12	52400822	52400827	5	GRASP	1
12	52400866	52400867	1	GRASP	1
12	52400882	52400937	55	GRASP	1
12	52408473	52408544	71	GRASP	8
12	52408677	52408753	76	GRASP	8
12	52408837	52408845	8	GRASP	8
12	52452503	52452564	61	NR4A1	7
12	52908789	52908811	22	KRT5	9
12	52908815	52908816	1	KRT5	9
12	53069187	53069189	2	KRT1	9
12	53183918	53183919	1	KRT3	9

12	53183920	53183921	1 KRT3	9
12	53183922	53183941	19 KRT3	9
12	53344630	53344635	5 KRT18	3
12	53509355	53509402	47 SOAT2	6
12	53591637	53591740	103 ITGB7	2
12	53837226	53837227	1 PRR13	2
12	54349133	54349134	1 HOXC12	1
12	54349137	54349169	32 HOXC12	1
12	54427269	54427305	36 HOXC5	1
12	54448006	54448048	42 HOXC4	1
12	56094041	56094160	119 ITGA7	5
12	56137096	56137172	76 GDF11	1
12	56622875	56622880	5 OBFC2B	6
12	56622881	56622889	8 OBFC2B	6
12	56622891	56622893	2 OBFC2B	6
12	56660931	56660940	9 COQ10A	1
12	56660941	56660943	2 COQ10A	1
12	56660944	56660945	1 COQ10A	1
12	56873581	56873592	11 GLS2	3
12	57550582	57550674	92 LRP1	10
12	58001050	58001078	28 DTX3	1
12	58120399	58120401	2 AGAP2	19
12	58120403	58120406	3 AGAP2	19
12	58120411	58120416	5 AGAP2	19
12	58131676	58131695	19 AGAP2	1
12	58149307	58149534	227 9-Mar	1
12	58149538	58149657	119 9-Mar	1
12	58159828	58159841	13 CYP27B1	2
12	58335480	58335487	7 XRCC6BP1	1
12	58335536	58335567	31 XRCC6BP1	1
12	59313895	59313958	63 LRIG3	1
12	65152998	65153002	4 GNS	1
12	65563372	65563401	29 LEMD3	1
12	66219048	66219049	1 HMGA2	1
12	68043654	68043693	39 DYRK2	2
12	75601171	75601172	1 KCNC2	1
12	75601577	75601579	2 KCNC2	1
12	75716952	75717007	55 CAPS2	4
12	80083504	80083517	13 PAWR	1
12	80083522	80083523	1 PAWR	1
12	80083685	80083725	40 PAWR	1
12	80187712	80187713	1 PPP1R12A	19
12	88471649	88471654	5 CEP290	39
12	88519021	88519035	14 CEP290	12
12	89919653	89919661	8 POC1B	1



12	89919653	89919661	8 POC1B-GAL	1
12	89919653	89919661	8 POC1B	1
12	89919653	89919661	8 POC1B-GAL	1
12	91372025	91372044	19 EPYC	2
12	93251055	93251121	66 EEA1	5
12	93251263	93251266	3 EEA1	4
12	96679928	96679931	3 CDK17	12
12	96958433	96958518	85 C12orf55	16
12	1.02E+08	1.02E+08	77 CHPT1	1
12	1.03E+08	1.03E+08	7 ASCL1	1
12	1.04E+08	1.04E+08	3 NT5DC3	1
12	1.04E+08	1.04E+08	55 NT5DC3	1
12	1.04E+08	1.04E+08	8 HCFC2	1
12	1.05E+08	1.05E+08	42 ALDH1L2	1
12	1.06E+08	1.06E+08	25 C12orf75	1
12	1.07E+08	1.07E+08	42 NUAK1	1
12	1.07E+08	1.07E+08	7 CKAP4	1
12	1.07E+08	1.07E+08	130 CKAP4	1
12	1.08E+08	1.08E+08	47 BTBD11	1
12	1.08E+08	1.08E+08	118 BTBD11	4
12	1.09E+08	1.09E+08	1 WSCD2	3
12	1.09E+08	1.09E+08	9 WSCD2	3
12	1.09E+08	1.09E+08	23 ISCU	1
12	1.09E+08	1.09E+08	37 SSH1	1
12	1.09E+08	1.09E+08	13 SSH1	1
12	1.09E+08	1.09E+08	2 SSH1	1
12	1.09E+08	1.09E+08	18 SSH1	1
12	1.1E+08	1.1E+08	1 ACACB	5
12	1.1E+08	1.1E+08	36 MMAB	6
12	1.11E+08	1.11E+08	8 IFT81	8
12	1.11E+08	1.11E+08	6 ANAPC7	8
12	1.12E+08	1.12E+08	1 CUX2	9
12	1.12E+08	1.12E+08	60 FAM109A	2
12	1.12E+08	1.12E+08	3 SH2B3	1
12	1.12E+08	1.12E+08	17 SH2B3	1
12	1.12E+08	1.12E+08	11 SH2B3	1
12	1.12E+08	1.12E+08	94 SH2B3	1
12	1.12E+08	1.12E+08	21 SH2B3	1
12	1.12E+08	1.12E+08	47 ATXN2	1
12	1.12E+08	1.12E+08	1 ATXN2	1
12	1.12E+08	1.12E+08	1 ATXN2	1
12	1.12E+08	1.12E+08	1 ATXN2	1
12	1.12E+08	1.12E+08	66 ATXN2	1
12	1.12E+08	1.12E+08	120 ATXN2	1
12	1.12E+08	1.12E+08	112 ATXN2	1

12	1.13E+08	1.13E+08	57 C12orf51	72
12	1.13E+08	1.13E+08	35 C12orf51	72
12	1.13E+08	1.13E+08	82 C12orf51	72
12	1.13E+08	1.13E+08	2 C12orf51	71
12	1.13E+08	1.13E+08	15 C12orf51	69
12	1.13E+08	1.13E+08	10 PTPN11	1
12	1.13E+08	1.13E+08	5 RPH3A	9
12	1.14E+08	1.14E+08	25 RASAL1	13
12	1.14E+08	1.14E+08	3 RASAL1	13
12	1.14E+08	1.14E+08	54 CCDC42B	4
12	1.14E+08	1.14E+08	71 PLBD2	1
12	1.14E+08	1.14E+08	10 PLBD2	1
12	1.14E+08	1.14E+08	7 SDS	3
12	1.17E+08	1.17E+08	18 C12orf49	1
12	1.17E+08	1.17E+08	131 HRK	1
12	1.17E+08	1.17E+08	2 FBXW8	1
12	1.17E+08	1.17E+08	1 FBXW8	1
12	1.17E+08	1.17E+08	3 FBXW8	1
12	1.17E+08	1.17E+08	22 FBXW8	1
12	1.17E+08	1.17E+08	9 FBXW8	5
12	1.18E+08	1.18E+08	5 TESC	1
12	1.18E+08	1.18E+08	1 TESC	1
12	1.18E+08	1.18E+08	2 FBXO21	1
12	1.18E+08	1.18E+08	1 FBXO21	1
12	1.18E+08	1.18E+08	1 FBXO21	1
12	1.18E+08	1.18E+08	8 FBXO21	1
12	1.18E+08	1.18E+08	22 WSB2	1
12	1.19E+08	1.19E+08	13 PEBP1	1
12	1.19E+08	1.19E+08	7 PEBP1	1
12	1.19E+08	1.19E+08	3 PEBP1	1
12	1.2E+08	1.2E+08	8 SRRM4	11
12	1.2E+08	1.2E+08	123 SRRM4	13
12	1.2E+08	1.2E+08	39 CCDC64	1
12	1.21E+08	1.21E+08	27 GCN1L1	1
12	1.21E+08	1.21E+08	68 MSI1	1
12	1.21E+08	1.21E+08	104 CABP1	1
12	1.21E+08	1.21E+08	405 CABP1	1
12	1.21E+08	1.21E+08	5 CABP1	1
12	1.21E+08	1.21E+08	3 MLEC	1
12	1.21E+08	1.21E+08	4 MLEC	1
12	1.21E+08	1.21E+08	1 UNC119B	1
12	1.21E+08	1.21E+08	1 UNC119B	1
12	1.21E+08	1.21E+08	18 UNC119B	1
12	1.21E+08	1.21E+08	32 SPPL3	1
12	1.22E+08	1.22E+08	143 P2RX4	1

12	1.22E+08	1.22E+08	2 KDM2B	19
12	1.22E+08	1.22E+08	17 TMEM120B	11
12	1.22E+08	1.22E+08	1 SETD1B	1
12	1.22E+08	1.22E+08	14 SETD1B	1
12	1.22E+08	1.22E+08	13 SETD1B	6
12	1.22E+08	1.22E+08	61 SETD1B	6
12	1.22E+08	1.22E+08	15 SETD1B	12
12	1.23E+08	1.23E+08	32 HIP1R	1
12	1.23E+08	1.23E+08	1 HIP1R	11
12	1.23E+08	1.23E+08	53 HIP1R	12
12	1.23E+08	1.23E+08	90 VPS37B	4
12	1.23E+08	1.23E+08	102 PITPNM2	16
12	1.23E+08	1.23E+08	63 PITPNM2	16
12	1.23E+08	1.23E+08	12 PITPNM2	14
12	1.24E+08	1.24E+08	52 SETD8	2
12	1.24E+08	1.24E+08	24 ATP6V0A2	12
12	1.25E+08	1.25E+08	138 NCOR2	47
12	1.25E+08	1.25E+08	3 NCOR2	45
12	1.25E+08	1.25E+08	35 NCOR2	41
12	1.25E+08	1.25E+08	47 NCOR2	41
12	1.25E+08	1.25E+08	2 NCOR2	40
12	1.25E+08	1.25E+08	17 NCOR2	40
12	1.25E+08	1.25E+08	8 NCOR2	37
12	1.25E+08	1.25E+08	12 NCOR2	35
12	1.25E+08	1.25E+08	2 NCOR2	32
12	1.25E+08	1.25E+08	34 NCOR2	22
12	1.25E+08	1.25E+08	7 NCOR2	20
12	1.25E+08	1.25E+08	9 NCOR2	20
12	1.25E+08	1.25E+08	7 NCOR2	20
12	1.25E+08	1.25E+08	16 NCOR2	6
12	1.29E+08	1.29E+08	50 TMEM132C	1
12	1.29E+08	1.29E+08	21 SLC15A4	1
12	1.29E+08	1.29E+08	1 SLC15A4	1
12	1.29E+08	1.29E+08	2 SLC15A4	1
12	1.29E+08	1.29E+08	34 SLC15A4	1
12	1.29E+08	1.29E+08	41 GLT1D1	1
12	1.29E+08	1.29E+08	21 GLT1D1	1
12	1.31E+08	1.31E+08	49 FZD10	1
12	1.31E+08	1.31E+08	27 RIMBP2	8
12	1.31E+08	1.31E+08	7 RIMBP2	8
12	1.31E+08	1.31E+08	4 STX2	4
12	1.31E+08	1.31E+08	39 STX2	1
12	1.32E+08	1.32E+08	5 SFSWAP	15
12	1.32E+08	1.32E+08	91 MMP17	1
12	1.32E+08	1.32E+08	1 ULK1	12

12	1.32E+08	1.32E+08	1 ULK1	24
12	1.32E+08	1.32E+08	2 ULK1	24
12	1.32E+08	1.32E+08	4 EP400	1
12	1.32E+08	1.32E+08	53 EP400	1
12	1.33E+08	1.33E+08	80 EP400	22
12	1.33E+08	1.33E+08	110 EP400	42
12	1.33E+08	1.33E+08	9 EP400	42
12	1.33E+08	1.33E+08	241 DDX51	1
12	1.33E+08	1.33E+08	58 NOC4L	1
12	1.33E+08	1.33E+08	8 NOC4L	9
12	1.33E+08	1.33E+08	16 FBRSL1	1
12	1.33E+08	1.33E+08	120 FBRSL1	1
12	1.33E+08	1.33E+08	4 FBRSL1	2
12	1.33E+08	1.33E+08	1 FBRSL1	7
12	1.33E+08	1.33E+08	2 FBRSL1	7
12	1.33E+08	1.33E+08	125 FBRSL1	17
12	1.33E+08	1.33E+08	5 FBRSL1	17
12	1.33E+08	1.33E+08	6 FBRSL1	17
12	1.33E+08	1.33E+08	225 FBRSL1	17
12	1.33E+08	1.33E+08	64 FBRSL1	17
12	1.33E+08	1.33E+08	131 PXMP2	1
12	1.33E+08	1.33E+08	174 PGAM5	1
12	1.33E+08	1.33E+08	94 ANKLE2	1
12	1.33E+08	1.33E+08	48 ANKLE2	1
13	20716320	20716321	1 GJA3	1
13	20716351	20716361	10 GJA3	1
13	20716644	20716675	31 GJA3	1
13	21278136	21278139	3 IL17D	1
13	21278207	21278215	8 IL17D	1
13	21278216	21278240	24 IL17D	1
13	21278269	21278271	2 IL17D	1
13	21278274	21278281	7 IL17D	1
13	21278287	21278371	84 IL17D	1
13	21562542	21562550	8 LATS2	3
13	24895390	24895394	4 C1QTNF9	3
13	25073434	25073440	6 PARP4	4
13	26624802	26624877	75 SHISA2	1
13	27256943	27256966	23 WASF3	7
13	27645269	27645291	22 USP12	8
13	28366823	28366911	88 GSX1	1
13	28498388	28498398	10 PDX1	2
13	28498720	28498721	1 PDX1	2
13	28498726	28498843	117 PDX1	2
13	28674600	28674641	41 FLT3	1
13	28713177	28713178	1 PAN3	1

13	28713191	28713229	38 PAN3	1
13	30071391	30071467	76 MTUS2	11
13	31196030	31196031	1 USPL1	2
13	31774217	31774296	79 B3GALTL	1
13	32747550	32747560	10 FRY	19
13	35516961	35516965	4 NBEA	1
13	35517012	35517091	79 NBEA	1
13	35691615	35691635	20 NBEA	14
13	35697614	35697621	7 NBEA	17
13	37614541	37614592	51 FAM48A	8
13	38932242	38932274	32 UFM1	4
13	41240035	41240063	28 FOXO1	1
13	41240339	41240354	15 FOXO1	1
13	42524067	42524073	6 KIAA0564	2
13	42534984	42535000	16 KIAA0564	1
13	42535003	42535016	13 KIAA0564	1
13	42535022	42535156	134 KIAA0564	1
13	42784752	42784779	27 DGKH	24
13	42784793	42784797	4 DGKH	24
13	42871302	42871308	6 AKAP11	4
13	45008825	45008828	3 TSC22D1	3
13	45008829	45008835	6 TSC22D1	3
13	45008836	45008837	1 TSC22D1	3
13	45556271	45556277	6 NUFIP1	2
13	45556284	45556294	10 NUFIP1	2
13	48878187	48878189	2 RB1	1
13	49795108	49795114	6 MLNR	1
13	50070226	50070236	10 PHF11	1
13	51417524	51417640	116 DLEU7	1
13	51796664	51796691	27 FAM124A	1
13	51796692	51796710	18 FAM124A	1
13	53233381	53233389	8 SUGT1	5
13	60971494	60971544	50 TDRD3	1
13	61018812	61018813	1 TDRD3	3
13	72440673	72440688	15 DACH1	1
13	72440689	72440690	1 DACH1	1
13	73633461	73633466	5 KLF5	1
13	73633477	73633731	254 KLF5	1
13	77459696	77459728	32 KCTD12	1
13	77459730	77459731	1 KCTD12	1
13	77566383	77566384	1 CLN5	1
13	77566394	77566411	17 CLN5	1
13	77900832	77900911	79 MYCBP2	1
13	78272044	78272081	37 SLAIN1	1
13	78272200	78272231	31 SLAIN1	1

13	78272322	78272420	98 SLAIN1	1
13	79176061	79176098	37 POU4F1	2
13	79176149	79176269	120 POU4F1	2
13	88330081	88330119	38 SLITRK5	1
13	95363618	95363673	55 SOX21	1
13	95363676	95363683	7 SOX21	1
13	96294085	96294114	29 DZIP1	2
13	99083489	99083500	11 FARP1	17
13	99738569	99738610	41 DOCK9	1
13	1E+08	1E+08	2 CLYBL	1
13	1E+08	1E+08	5 CLYBL	1
13	1.01E+08	1.01E+08	21 ZIC5	1
13	1.01E+08	1.01E+08	265 ZIC5	1
13	1.01E+08	1.01E+08	8 ZIC5	1
13	1.01E+08	1.01E+08	2 ZIC5	1
13	1.01E+08	1.01E+08	215 ZIC5	1
13	1.01E+08	1.01E+08	21 ZIC2	3
13	1.01E+08	1.01E+08	79 PCCA	1
13	1.03E+08	1.03E+08	16 METTL21C	1
13	1.1E+08	1.1E+08	38 MYO16	32
13	1.1E+08	1.1E+08	47 MYO16	32
13	1.1E+08	1.1E+08	36 IRS2	1
13	1.1E+08	1.1E+08	249 IRS2	1
13	1.1E+08	1.1E+08	77 IRS2	1
13	1.1E+08	1.1E+08	3 IRS2	1
13	1.11E+08	1.11E+08	2 COL4A1	1
13	1.11E+08	1.11E+08	16 COL4A1	1
13	1.11E+08	1.11E+08	3 COL4A1	1
13	1.11E+08	1.11E+08	46 COL4A1	1
13	1.13E+08	1.13E+08	48 SOX1	1
13	1.13E+08	1.13E+08	115 SOX1	1
13	1.13E+08	1.13E+08	1 SOX1	1
13	1.13E+08	1.13E+08	40 SOX1	1
13	1.13E+08	1.13E+08	47 SOX1	1
13	1.13E+08	1.13E+08	18 TUBGCP3	5
13	1.14E+08	1.14E+08	42 CUL4A	1
13	1.14E+08	1.14E+08	57 LAMP1	1
13	1.14E+08	1.14E+08	12 DCUN1D2	1
13	1.14E+08	1.14E+08	55 FAM70B	1
13	1.15E+08	1.15E+08	32 GAS6	1
13	1.15E+08	1.15E+08	16 GAS6	1
13	1.15E+08	1.15E+08	12 CDC16	1
13	1.15E+08	1.15E+08	20 UPF3A	1
14	20929334	20929361	27 TMEM55B	1
14	21558991	21558998	7 ZNF219	4

14	21559004	21559005	1 ZNF219	4
14	21559008	21559010	2 ZNF219	4
14	21560262	21560272	10 ZNF219	2
14	21560276	21560381	105 ZNF219	2
14	23517214	23517462	248 CDH24	12
14	23530722	23530772	50 ACIN1	17
14	23790792	23791034	242 PABPN1	1
14	23828649	23828836	187 EFS	4
14	23852523	23852534	11 MYH6	35
14	23889194	23889365	171 MYH7	25
14	23890167	23890187	20 MYH7	24
14	24044983	24045032	49 JPH4	2
14	24045453	24045649	196 JPH4	2
14	24046564	24046592	28 JPH4	1
14	24534328	24534424	96 LRRC16B	33
14	24534483	24534487	4 LRRC16B	33
14	24785812	24785873	61 LTB4R	1
14	24803858	24803860	2 ADCY4	1
14	24837513	24837562	49 NFATC4	2
14	24837622	24837623	1 NFATC4	2
14	29236760	29236882	122 FOXG1	1
14	30396656	30396673	17 PRKD1	1
14	31055919	31055944	25 G2E3	2
14	31495254	31495270	16 STRN3	1
14	31495275	31495334	59 STRN3	1
14	31495346	31495353	7 STRN3	1
14	31495357	31495358	1 STRN3	1
14	31495384	31495385	1 STRN3	1
14	34269680	34269688	8 NPAS3	12
14	34269689	34269769	80 NPAS3	12
14	34269844	34269918	74 NPAS3	12
14	35099359	35099363	4 SNX6	1
14	35872410	35872418	8 NFKBIA	3
14	36003729	36003771	42 INSM2	1
14	36155838	36155877	39 RALGAPA1	18
14	36217989	36218035	46 RALGAPA1	10
14	36221322	36221373	51 RALGAPA1	8
14	36226079	36226119	40 RALGAPA1	7
14	36244854	36244868	14 RALGAPA1	2
14	37050225	37050229	4 NKX2-8	2
14	37050230	37050269	39 NKX2-8	2
14	37131290	37131303	13 PAX9	1
14	44974355	44974366	11 FSCB	1
14	50933362	50933368	6 MAP4K5	10
14	50943006	50943029	23 MAP4K5	6

14	51338888	51338937	49 ABHD12B	1
14	51338991	51339001	10 ABHD12B	1
14	53019917	53019976	59 GPR137C	1
14	53619479	53619481	2 DDHD1	1
14	53619748	53619804	56 DDHD1	1
14	54944859	54944861	2 GMFB	7
14	54944873	54944882	9 GMFB	7
14	57046687	57046721	34 C14orf101	1
14	57706308	57706322	14 EXOC5	5
14	57706328	57706382	54 EXOC5	5
14	58825845	58825861	16 ARID4A	17
14	59104928	59105104	176 DACT1	1
14	59931673	59931919	246 GPR135	1
14	60030562	60030564	2 C14orf38	6
14	60030568	60030569	1 C14orf38	6
14	60030571	60030572	1 C14orf38	6
14	60043332	60043336	4 C14orf38	1
14	60043397	60043459	62 C14orf38	1
14	60337331	60337352	21 RTN1	1
14	65507530	65507545	15 CHURC1-FN	10
14	65507530	65507545	15 FNTB	8
14	65507530	65507545	15 CHURC1-FN	10
14	65507530	65507545	15 FNTB	8
14	68141155	68141167	12 VTI1B	1
14	71108844	71108953	109 TTC9	1
14	71275840	71275844	4 MAP3K9	1
14	73729431	73729473	42 PAPLN	17
14	74004121	74004190	69 ACOT1	1
14	74004206	74004331	125 ACOT1	1
14	74004336	74004425	89 ACOT1	1
14	74004524	74004587	63 ACOT1	1
14	74008192	74008268	76 ACOT1	2
14	74008283	74008403	120 ACOT1	2
14	74036258	74036260	2 ACOT2	1
14	74036269	74036273	4 ACOT2	1
14	74036275	74036277	2 ACOT2	1
14	74036280	74036286	6 ACOT2	1
14	74041793	74042088	295 ACOT2	3
14	77493653	77493673	20 IRF2BPL	1
14	77493678	77493679	1 IRF2BPL	1
14	77493684	77493685	1 IRF2BPL	1
14	77493838	77493863	25 IRF2BPL	1
14	77771030	77771043	13 POMT2	4
14	77771049	77771051	2 POMT2	4
14	77843292	77843321	29 TMED8	1



14	77964991	77965052	61 ISM2	1
14	77965055	77965057	2 ISM2	1
14	77965087	77965093	6 ISM2	1
14	77965095	77965141	46 ISM2	1
14	81362137	81362139	2 CEP128	6
14	81953865	81953877	12 SEL1L	16
14	88946051	88946075	24 PTPN21	12
14	89258647	89258673	26 EML5	1
14	89258765	89258766	1 EML5	1
14	89258768	89258852	84 EML5	1
14	91282623	91282644	21 TTC7B	1
14	92040523	92040533	10 C14orf184	1
14	93118355	93118374	19 RIN3	6
14	93176064	93176065	1 LGMN	10
14	93389700	93389755	55 CHGA	1
14	93407921	93408019	98 ITPK1	10
14	93408021	93408022	1 ITPK1	10
14	94245517	94245577	60 PRIMA1	2
14	94582134	94582142	8 IFI27	3
14	96001494	96001495	1 GLRX5	1
14	96001498	96001500	2 GLRX5	1
14	96001504	96001505	1 GLRX5	1
14	99641614	99641629	15 BCL11B	4
14	99641636	99641639	3 BCL11B	4
14	99641645	99641647	2 BCL11B	4
14	99976570	99976631	61 CCNK	10
14	99976636	99976657	21 CCNK	10
14	99976746	99976810	64 CCNK	10
14	99976968	99976983	15 CCNK	10
14	1E+08	1E+08	170 CCDC85C	1
14	1E+08	1E+08	17 CCDC85C	1
14	1E+08	1E+08	6 HHIPL1	1
14	1E+08	1E+08	10 HHIPL1	1
14	1E+08	1E+08	118 HHIPL1	1
14	1E+08	1E+08	37 CYP46A1	1
14	1E+08	1E+08	17 CYP46A1	1
14	1E+08	1E+08	133 CYP46A1	15
14	1.01E+08	1.01E+08	116 EVL	6
14	1.01E+08	1.01E+08	14 EVL	6
14	1.01E+08	1.01E+08	1 BEGAIN	6
14	1.01E+08	1.01E+08	27 RTL1	1
14	1.02E+08	1.02E+08	4 PPP2R5C	1
14	1.03E+08	1.03E+08	2 ZNF839	1
14	1.03E+08	1.03E+08	115 ZNF839	1
14	1.03E+08	1.03E+08	9 ANKRD9	1

14	1.03E+08	1.03E+08	1 ANKRD9	1
14	1.03E+08	1.03E+08	25 ANKRD9	1
14	1.03E+08	1.03E+08	6 RCOR1	1
14	1.03E+08	1.03E+08	4 RCOR1	1
14	1.03E+08	1.03E+08	5 RCOR1	1
14	1.03E+08	1.03E+08	2 RCOR1	1
14	1.03E+08	1.03E+08	1 RCOR1	1
14	1.03E+08	1.03E+08	8 RCOR1	1
14	1.03E+08	1.03E+08	51 AMN	7
14	1.03E+08	1.03E+08	33 AMN	9
14	1.03E+08	1.03E+08	94 AMN	10
14	1.03E+08	1.03E+08	30 AMN	10
14	1.04E+08	1.04E+08	167 TNFAIP2	2
14	1.04E+08	1.04E+08	46 TNFAIP2	2
14	1.04E+08	1.04E+08	4 CKB	4
14	1.04E+08	1.04E+08	11 ZFYVE21	1
14	1.04E+08	1.04E+08	6 PPP1R13B	1
14	1.04E+08	1.04E+08	10 PPP1R13B	1
14	1.04E+08	1.04E+08	36 TDRD9	22
14	1.04E+08	1.04E+08	1 TDRD9	22
14	1.05E+08	1.05E+08	109 ASPG	7
14	1.05E+08	1.05E+08	10 ASPG	11
14	1.05E+08	1.05E+08	3 ASPG	14
14	1.05E+08	1.05E+08	51 KIF26A	1
14	1.05E+08	1.05E+08	41 KIF26A	2
14	1.05E+08	1.05E+08	54 KIF26A	2
14	1.05E+08	1.05E+08	26 KIF26A	5
14	1.05E+08	1.05E+08	7 KIF26A	11
14	1.05E+08	1.05E+08	1 KIF26A	13
14	1.05E+08	1.05E+08	10 KIF26A	14
14	1.05E+08	1.05E+08	172 INF2	7
14	1.05E+08	1.05E+08	2 ADSSL1	1
14	1.05E+08	1.05E+08	7 ADSSL1	1
14	1.05E+08	1.05E+08	19 KIAA0284	7
14	1.05E+08	1.05E+08	46 KIAA0284	8
14	1.05E+08	1.05E+08	1 KIAA0284	8
14	1.05E+08	1.05E+08	4 KIAA0284	8
14	1.05E+08	1.05E+08	4 KIAA0284	8
14	1.05E+08	1.05E+08	15 KIAA0284	13
14	1.05E+08	1.05E+08	137 AHNAK2	7
14	1.05E+08	1.05E+08	59 AHNAK2	7
14	1.05E+08	1.05E+08	64 AHNAK2	1
14	1.06E+08	1.06E+08	10 JAG2	18
14	1.06E+08	1.06E+08	30 JAG2	13
14	1.06E+08	1.06E+08	75 JAG2	1

14	1.06E+08	1.06E+08	88 NUDT14	1
14	1.06E+08	1.06E+08	204 BTBD6	1
14	1.06E+08	1.06E+08	1 BRF1	1
14	1.06E+08	1.06E+08	43 BRF1	1
14	1.06E+08	1.06E+08	43 PACS2	1
14	1.06E+08	1.06E+08	5 PACS2	1
14	1.06E+08	1.06E+08	100 TEX22	2
14	1.06E+08	1.06E+08	37 MTA1	1
14	1.06E+08	1.06E+08	65 MTA1	16
14	1.06E+08	1.06E+08	148 CRIP2	4
14	1.06E+08	1.06E+08	13 TMEM121	1
14	1.06E+08	1.06E+08	205 IGHA2	3
14	1.06E+08	1.06E+08	4 IGHA2	1
14	1.06E+08	1.06E+08	2 IGHD	5
14	1.06E+08	1.06E+08	1 IGHD	5
14	1.06E+08	1.06E+08	87 IGHD	5
14	1.06E+08	1.06E+08	7 IGHD	2
14	1.06E+08	1.06E+08	13 IGHD5-5	1
14	1.06E+08	1.06E+08	103 IGHV4-4	2
14	1.07E+08	1.07E+08	163 IGHV1-8	2
14	1.07E+08	1.07E+08	42 IGHV1-8	2
14	1.07E+08	1.07E+08	44 IGHV1-8	1
14	1.07E+08	1.07E+08	120 IGHV3-9	2
14	1.07E+08	1.07E+08	19 IGHV3-9	1
15	22051867	22051947	80 POTE B	11
15	22993151	22993160	9 CYFIP1	25
15	23086395	23086416	21 NIPA1	1
15	23690452	23690519	67 GOLGA6L2	2
15	23891248	23891398	150 MAGEL2	1
15	23891571	23891620	49 MAGEL2	1
15	23891630	23891636	6 MAGEL2	1
15	26108198	26108248	50 ATP10A	1
15	27018025	27018029	4 GABRB3	1
15	27018091	27018114	23 GABRB3	1
15	28447754	28447763	9 HERC2	45
15	28501296	28501298	2 HERC2	17
15	28501303	28501315	12 HERC2	17
15	29429264	29429324	60 FAM189A1	6
15	29862870	29862874	4 FAM189A1	1
15	30654837	30654921	84 CHRFAM7A	8
15	30664472	30664502	30 CHRFAM7A	5
15	31619411	31619447	36 KLF13	1
15	31619452	31619514	62 KLF13	1
15	31619516	31619521	5 KLF13	1
15	31619525	31619526	1 KLF13	1

15	31619539	31619542	3	KLF13	1
15	31619597	31619670	73	KLF13	1
15	31619834	31619861	27	KLF13	1
15	31775969	31775996	27	OTUD7A	11
15	31776074	31776102	28	OTUD7A	11
15	32455422	32455535	113	CHRNA7	9
15	33261047	33261062	15	FMN1	4
15	33261135	33261188	53	FMN1	4
15	34330976	34331051	75	AVEN	1
15	34331132	34331252	120	AVEN	1
15	34659257	34659302	45	LPCAT4	1
15	34673815	34673819	4	GOLGA8A	16
15	34674007	34674013	6	GOLGA8A	15
15	34819901	34820040	139	GOLGA8B	16
15	34820143	34820234	91	GOLGA8B	15
15	34820264	34820283	19	GOLGA8B	15
15	34820385	34820477	92	GOLGA8B	14
15	34820568	34820642	74	GOLGA8B	13
15	34820677	34820678	1	GOLGA8B	13
15	34820803	34820879	76	GOLGA8B	12
15	34821214	34821281	67	GOLGA8B	11
15	34821290	34821470	180	GOLGA8B	11
15	34822192	34822280	88	GOLGA8B	9
15	34822378	34822473	95	GOLGA8B	8
15	34823466	34823584	118	GOLGA8B	7
15	34825056	34825168	112	GOLGA8B	3
15	34826250	34826327	77	GOLGA8B	2
15	34828061	34828094	33	GOLGA8B	1
15	34828105	34828118	13	GOLGA8B	1
15	38776678	38776798	120	FAM98B	8
15	40574094	40574105	11	ANKRD63	1
15	40574110	40574273	163	ANKRD63	1
15	40628810	40628855	45	C15orf52	9
15	40650518	40650574	56	DISP2	1
15	40650576	40650579	3	DISP2	1
15	40763447	40763499	52	CHST14	1
15	40903671	40903714	43	CASC5	7
15	40907534	40907556	22	CASC5	8
15	40907559	40907581	22	CASC5	8
15	40942737	40942738	1	CASC5	19
15	40942740	40942741	1	CASC5	19
15	41109425	41109550	125	PPP1R14D	2
15	41275956	41275961	5	INO80	33
15	41709309	41709380	71	RTF1	1
15	41786121	41786242	121	ITPKA	1

15	41786279	41786289	10 ITPKA	1
15	41794992	41794996	4 ITPKA	6
15	41799465	41799466	1 LTK	11
15	41799471	41799482	11 LTK	11
15	41803460	41803488	28 LTK	7
15	41804068	41804080	12 LTK	5
15	41851489	41851584	95 TYRO3	1
15	41991075	41991078	3 MGA	3
15	42120318	42120327	9 JMJD7	1
15	42120318	42120327	9 JMJD7-PLA2	1
15	42120318	42120327	9 JMJD7	1
15	42120318	42120327	9 JMJD7-PLA2	1
15	42162084	42162089	5 SPTBN5	31
15	42169142	42169144	2 SPTBN5	18
15	42169146	42169151	5 SPTBN5	18
15	42174186	42174348	162 SPTBN5	11
15	42174462	42174482	20 SPTBN5	10
15	42264657	42264659	2 EHD4	1
15	42264669	42264697	28 EHD4	1
15	42378426	42378437	11 PLA2G4D	4
15	42436673	42436720	47 PLA2G4F	17
15	42439931	42439939	8 PLA2G4F	12
15	42702124	42702133	9 CAPN3	19
15	43028718	43028720	2 CDAN1	2
15	43426048	43426185	137 TMEM62	1
15	43477802	43477810	8 CCNDBP1	1
15	43986244	43986308	64 CKMT1A	1
15	43986320	43986402	82 CKMT1A	1
15	43986997	43987128	131 CKMT1A	2
15	43987135	43987205	70 CKMT1A	2
15	43987399	43987504	105 CKMT1A	3
15	43987881	43988112	231 CKMT1A	4
15	43988232	43988327	95 CKMT1A	5
15	44487252	44487257	5 FRMD5	1
15	44624189	44624195	6 CASC4	4
15	44624270	44624281	11 CASC4	4
15	45364510	45364578	68 SORD	8
15	45364594	45364641	47 SORD	8
15	45403472	45403480	8 DUOX2	6
15	45403577	45403788	211 DUOX2	5
15	45427667	45427878	211 DUOX1	5
15	45427975	45427977	2 DUOX1	6
15	45695349	45695401	52 SPATA5L1	1
15	48623988	48623990	2 DUT	1
15	48623992	48623997	5 DUT	1

15	49037088	49037098	10	CEP152	22
15	49425966	49426013	47	COPS2	9
15	49935523	49935526	3	DTWD1	4
15	50474657	50474659	2	SLC27A2	1
15	51040305	51040331	26	SPPL2A	4
15	51040337	51040404	67	SPPL2A	4
15	51057660	51057735	75	SPPL2A	1
15	51857280	51857283	3	DMXL2	4
15	52029660	52029767	107	LYSMD2	1
15	52820996	52821008	12	MYO5A	1
15	52849383	52849424	41	ARPP19	2
15	56035117	56035125	8	PRTG	1
15	56974678	56974680	2	ZNF280D	8
15	56993432	56993433	1	ZNF280D	3
15	57884307	57884312	5	GCOM1	1
15	60297917	60297922	5	FOXB1	1
15	60297927	60297936	9	FOXB1	1
15	62360168	62360258	90	C2CD4A	1
15	62360393	62360437	44	C2CD4A	1
15	62360482	62360484	2	C2CD4A	1
15	62360495	62360501	6	C2CD4A	1
15	62456558	62456567	9	C2CD4B	1
15	62456603	62456723	120	C2CD4B	1
15	62456896	62456914	18	C2CD4B	1
15	62457185	62457186	1	C2CD4B	1
15	63414240	63414259	19	LACTB	1
15	63414260	63414313	53	LACTB	1
15	63848938	63848952	14	USP3	5
15	65116212	65116343	131	PIF1	1
15	65134211	65134232	21	PLEKHO2	1
15	65370085	65370090	5	KBTD13	1
15	65394441	65394570	129	UBAP1L	2
15	65394572	65394580	8	UBAP1L	2
15	65394658	65394670	12	UBAP1L	2
15	65425626	65425756	130	PDCD7	1
15	65425825	65426037	212	PDCD7	1
15	65670019	65670131	112	IGDCC3	1
15	65678263	65678265	2	IGDCC4	18
15	65678281	65678327	46	IGDCC4	18
15	65688496	65688506	10	IGDCC4	7
15	65715126	65715205	79	IGDCC4	1
15	66209218	66209242	24	MEGF11	16
15	66386785	66386786	1	MEGF11	4
15	66585957	66585960	3	DIS3L	1
15	66585969	66586041	72	DIS3L	1

15	66855866	66855888	22	LCTL	4
15	66995793	66995818	25	SMAD6	1
15	66995870	66995889	19	SMAD6	1
15	67813582	67813595	13	C15orf61	1
15	68521837	68521851	14	CLN6	1
15	68595392	68595399	7	ITGA11	30
15	69325408	69325431	23	NOX5	5
15	71146263	71146271	8	LARP6	1
15	71146409	71146432	23	LARP6	1
15	71507410	71507629	219	THSD4	3
15	71507635	71507636	1	THSD4	3
15	72490097	72490117	20	GRAMD2	1
15	72523232	72523236	4	PKM2	1
15	72581981	72582049	68	CELF6	6
15	72612205	72612220	15	CELF6	1
15	73616425	73616437	12	HCN4	7
15	74032275	74032277	2	C15orf59	2
15	74219810	74219848	38	LOXL1	1
15	74220066	74220231	165	LOXL1	1
15	74622652	74622673	21	CCDC33	12
15	74636131	74636133	2	CYP11A1	4
15	74726166	74726264	98	SEMA7A	1
15	74741522	74741549	27	UBL7	8
15	74741553	74741555	2	UBL7	8
15	74907890	74908125	235	CLK3	1
15	74908128	74908130	2	CLK3	1
15	74908135	74908155	20	CLK3	1
15	75113442	75113443	1	LMAN1L	9
15	75113449	75113455	6	LMAN1L	9
15	75113492	75113533	41	LMAN1L	9
15	75131895	75132029	134	ULK3	7
15	75230251	75230334	83	COX5A	1
15	75230336	75230341	5	COX5A	1
15	75499225	75499257	32	C15orf39	1
15	75660523	75660524	1	MAN2C1	2
15	75871103	75871117	14	PTPN9	1
15	75974668	75974755	87	CSPG4	8
15	75974757	75974769	12	CSPG4	8
15	75977641	75977660	19	CSPG4	4
15	75977663	75977666	3	CSPG4	4
15	75982898	75982941	43	CSPG4	3
15	76484339	76484416	77	C15orf27	8
15	76484423	76484437	14	C15orf27	8
15	76484439	76484449	10	C15orf27	8
15	76484480	76484482	2	C15orf27	8

15	76484484	76484503	19 C15orf27	8
15	76633634	76633639	5 ISL2	5
15	77224253	77224256	3 RCN2	1
15	77224262	77224299	37 RCN2	1
15	77328255	77328281	26 PSTPIP1	14
15	78369889	78369898	9 TBC1D2B	1
15	79056306	79056434	128 ADAMTS7	21
15	79056969	79057054	85 ADAMTS7	20
15	79058432	79058438	6 ADAMTS7	19
15	79058440	79058450	10 ADAMTS7	19
15	79058452	79058462	10 ADAMTS7	19
15	79058463	79058473	10 ADAMTS7	19
15	79058572	79058573	1 ADAMTS7	19
15	79058603	79058623	20 ADAMTS7	19
15	79058934	79059024	90 ADAMTS7	19
15	79059837	79059927	90 ADAMTS7	18
15	79060470	79060520	50 ADAMTS7	17
15	79063502	79063510	8 ADAMTS7	16
15	79063512	79063527	15 ADAMTS7	16
15	79068525	79068612	87 ADAMTS7	11
15	79068615	79068629	14 ADAMTS7	11
15	79068631	79068655	24 ADAMTS7	11
15	79082100	79082121	21 ADAMTS7	7
15	79082124	79082129	5 ADAMTS7	7
15	79089066	79089067	1 ADAMTS7	4
15	79092557	79092647	90 ADAMTS7	2
15	79103458	79103567	109 ADAMTS7	1
15	80189334	80189335	1 MTHFS	1
15	80200018	80200020	2 ST20-MTHF	1
15	80200018	80200020	2 ST20	1
15	80200018	80200020	2 ST20-MTHF	1
15	80200018	80200020	2 ST20	1
15	81294653	81294655	2 MESDC1	1
15	83205573	83205637	64 RPS17L	5
15	83207698	83207741	43 RPS17L	3
15	83208825	83208888	63 RPS17L	2
15	83209172	83209184	12 RPS17L	1
15	83213337	83213410	73 CPEB1	12
15	83213415	83213457	42 CPEB1	12
15	83316602	83316610	8 CPEB1	1
15	83331895	83331929	34 AP3B2	21
15	83378341	83378361	20 AP3B2	1
15	83378449	83378458	9 AP3B2	1
15	83478731	83478784	53 WHAMM	1
15	83478931	83479055	124 WHAMM	1



15	83499658	83499675	17 WHAMM	9
15	83621278	83621292	14 HOMER2	1
15	83680353	83680359	6 C15orf40	1
15	83680362	83680364	2 C15orf40	1
15	83953361	83953385	24 BNC1	1
15	85360448	85360497	49 ALPK3	1
15	85360500	85360504	4 ALPK3	1
15	85360556	85360642	86 ALPK3	1
15	85360712	85360749	37 ALPK3	1
15	85438316	85438322	6 SLC28A1	4
15	86287004	86287039	35 AKAP13	35
15	89456548	89456553	5 MFGE8	1
15	90185470	90185489	19 KIF7	10
15	90185612	90185641	29 KIF7	10
15	90191496	90191786	290 KIF7	4
15	90192418	90192419	1 KIF7	3
15	90192423	90192431	8 KIF7	3
15	90293848	90293857	9 MESP1	1
15	90293859	90293863	4 MESP1	1
15	90293867	90293872	5 MESP1	1
15	90319588	90319682	94 MESP2	1
15	90744912	90744914	2 SEMA4B	1
15	90744916	90744917	1 SEMA4B	1
15	90744947	90744972	25 SEMA4B	1
15	90768547	90768548	1 SEMA4B	11
15	90768550	90768634	84 SEMA4B	11
15	91422194	91422200	6 FURIN	8
15	91433317	91433326	9 FES	8
15	91475657	91475775	118 HDDC3	1
15	91489887	91489916	29 UNC45A	10
15	91489918	91489920	2 UNC45A	10
15	91500389	91500415	26 RCCD1	2
15	93198811	93198828	17 FAM174B	1
15	98504231	98504232	1 ARRDC4	1
15	98504238	98504239	1 ARRDC4	1
15	98504249	98504250	1 ARRDC4	1
15	99645668	99645744	76 SYNM	1
15	99645750	99645836	86 SYNM	1
15	99645907	99645908	1 SYNM	1
15	99645911	99645912	1 SYNM	1
15	99645921	99645932	11 SYNM	1
15	99645940	99645956	16 SYNM	1
15	99646157	99646159	2 SYNM	1
15	99646161	99646172	11 SYNM	1
15	1.01E+08	1.01E+08	5 ADAMTS17	6

15	1.01E+08	1.01E+08	121 ADAMTS17	2
15	1.01E+08	1.01E+08	21 ADAMTS17	2
15	1.01E+08	1.01E+08	93 ADAMTS17	2
15	1.02E+08	1.02E+08	93 LRRK1	2
15	1.02E+08	1.02E+08	147 CHSY1	1
15	1.02E+08	1.02E+08	74 PCSK6	1
15	1.02E+08	1.02E+08	26 TARSL2	1
15	1.02E+08	1.02E+08	21 TARSL2	1
15	1.02E+08	1.02E+08	4 TARSL2	1
16	111964	112055	91 RHBDF1	7
16	188265	188266	1 NPRL3	1
16	204073	204100	27 HBZ	2
16	226923	227039	116 HBA1	2
16	227048	227129	81 HBA1	2
16	227134	227136	2 HBA1	2
16	230481	230585	104 HBQ1	1
16	325844	325888	44 RGS11	1
16	330680	330758	78 ARHGDIG	1
16	332518	332535	17 ARHGDIG	5
16	343493	343502	9 AXIN1	7
16	431696	431809	113 TMEM8A	1
16	447218	447318	100 NME4	1
16	460686	460694	8 DECR2	6
16	460771	460789	18 DECR2	6
16	476002	476048	46 RAB11FIP3	1
16	476095	476215	120 RAB11FIP3	1
16	511492	511495	3 RAB11FIP3	2
16	599283	599306	23 SOLH	3
16	602046	602112	66 SOLH	7
16	614050	614084	34 C16orf11	1
16	614685	614691	6 C16orf11	2
16	681251	681267	16 WFIKKN1	1
16	686090	686123	33 C16orf13	1
16	686193	686274	81 C16orf13	1
16	692115	692205	90 FAM195A	2
16	706315	706494	179 WDR90	18
16	711046	711070	24 WDR90	29
16	711162	711167	5 WDR90	29
16	726097	726120	23 RHBDL1	1
16	734229	734249	20 JMJD8	1
16	734899	734907	8 WDR24	9
16	744270	744279	9 FBXL16	5
16	745410	745427	17 FBXL16	2
16	747196	747296	100 FBXL16	1
16	765285	765398	113 METRN	1

16	765711	765848	137 METRN	2
16	771359	771362	3 FAM173A	1
16	771371	771412	41 FAM173A	1
16	778111	778238	127 HAGHL	3
16	778499	778592	93 HAGHL	5
16	779322	779395	73 HAGHL	8
16	820527	820540	13 MSLNL	14
16	820826	820851	25 MSLNL	13
16	838962	838978	16 CHTF18	2
16	839087	839091	4 CHTF18	2
16	839092	839094	2 CHTF18	2
16	843244	843246	2 CHTF18	14
16	843247	843253	6 CHTF18	14
16	847736	847737	1 CHTF18	21
16	847740	847756	16 CHTF18	21
16	863676	863725	49 PRR25	3
16	863731	863850	119 PRR25	3
16	919883	919900	17 LMF1	9
16	1031918	1032044	126 SOX8	1
16	1032049	1032092	43 SOX8	1
16	1032093	1032098	5 SOX8	1
16	1035348	1035380	32 SOX8	3
16	1143496	1143516	20 C1QTNF8	2
16	1203801	1203872	71 CACNA1H	1
16	1204039	1204041	2 CACNA1H	1
16	1273446	1273453	7 TPSG1	3
16	1273469	1273472	3 TPSG1	3
16	1279189	1279403	214 TPSB2	3
16	1290966	1290968	2 TPSAB1	1
16	1292132	1292134	2 TPSAB1	5
16	1393389	1393519	130 BAIAP3	15
16	1401982	1402023	41 GNPTG	1
16	1435273	1435278	5 UNKL	10
16	1488811	1488821	10 CCDC154	8
16	1488822	1488824	2 CCDC154	8
16	1488826	1488829	3 CCDC154	8
16	1511428	1511430	2 CLCN7	4
16	1511431	1511434	3 CLCN7	4
16	1545342	1545385	43 TELO2	2
16	1552369	1552410	41 TELO2	12
16	1574566	1574567	1 IFT140	22
16	1574570	1574580	10 IFT140	22
16	1576615	1576649	34 IFT140	18
16	1821392	1821416	24 NME3	2
16	1822821	1822848	27 MRPS34	1

16	1968166	1968236	70 HS3ST6	1
16	2012582	2012611	29 RPS2	5
16	2012613	2012629	16 RPS2	5
16	2012632	2012645	13 RPS2	5
16	2012648	2012654	6 RPS2	5
16	2029144	2029250	106 NOXO1	8
16	2030140	2030142	2 NOXO1	5
16	2030155	2030156	1 NOXO1	5
16	2030168	2030187	19 NOXO1	5
16	2040103	2040207	104 SYNGR3	1
16	2042164	2042217	53 SYNGR3	2
16	2048233	2048257	24 ZNF598	12
16	2048352	2048362	10 ZNF598	12
16	2059666	2059699	33 ZNF598	1
16	2069915	2069976	61 NPW	1
16	2069983	2069990	7 NPW	1
16	2070046	2070102	56 NPW	1
16	2070108	2070118	10 NPW	1
16	2070121	2070131	10 NPW	1
16	2077018	2077056	38 SLC9A3R2	1
16	2141053	2141153	100 PKD1	43
16	2141420	2141446	26 PKD1	42
16	2152563	2152639	76 PKD1	25
16	2158565	2158614	49 PKD1	15
16	2158814	2158957	143 PKD1	15
16	2159337	2159459	122 PKD1	15
16	2159955	2160109	154 PKD1	15
16	2160116	2160125	9 PKD1	15
16	2160126	2160128	2 PKD1	15
16	2160938	2160954	16 PKD1	15
16	2161100	2161147	47 PKD1	15
16	2161152	2161154	2 PKD1	15
16	2161161	2161165	4 PKD1	15
16	2222573	2222597	24 TRAF7	8
16	2223827	2223842	15 TRAF7	11
16	2228898	2229015	117 CASKIN1	19
16	2229151	2229331	180 CASKIN1	19
16	2229752	2229786	34 CASKIN1	18
16	2229788	2229793	5 CASKIN1	18
16	2230180	2230185	5 CASKIN1	18
16	2246427	2246438	11 CASKIN1	1
16	2264730	2264754	24 PGP	1
16	2287491	2287502	11 DNASE1L2	4
16	2305679	2305688	9 RNPS1	6
16	2479478	2479503	25 CCNF	1

16	2510141	2510176	35 C16orf59	1
16	2521724	2521828	104 NTN3	1
16	2523752	2523920	168 NTN3	6
16	2523999	2524013	14 NTN3	6
16	2524017	2524111	94 NTN3	6
16	2588109	2588142	33 PDPK1	1
16	2732559	2732615	56 KCTD5	1
16	2745931	2745982	51 KCTD5	2
16	2745995	2746049	54 KCTD5	2
16	2762734	2762760	26 PRSS27	6
16	2765714	2765743	29 PRSS27	3
16	2835379	2835381	2 PRSS33	4
16	2835390	2835392	2 PRSS33	4
16	2835397	2835401	4 PRSS33	4
16	2835402	2835412	10 PRSS33	4
16	2835432	2835435	3 PRSS33	4
16	2835436	2835438	2 PRSS33	4
16	2835489	2835490	1 PRSS33	4
16	2835492	2835609	117 PRSS33	4
16	2848955	2849059	104 PRSS41	2
16	2849065	2849076	11 PRSS41	2
16	2867266	2867338	72 PRSS21	1
16	2867426	2867438	12 PRSS21	2
16	3016379	3016380	1 KREMEN2	4
16	3017218	3017248	30 KREMEN2	6
16	3017316	3017381	65 KREMEN2	7
16	3017382	3017451	69 KREMEN2	7
16	3070394	3070400	6 TNFRSF12A	1
16	3078344	3078353	9 CCDC64B	8
16	3096925	3096949	24 MMP25	1
16	3767417	3767466	49 TRAP1	1
16	3779174	3779197	23 CREBBP	31
16	3779201	3779255	54 CREBBP	31
16	3823896	3823923	27 CREBBP	13
16	4165399	4165405	6 ADCY9	1
16	4310206	4310210	4 TFAP4	6
16	4659634	4659635	1 FAM100A	3
16	4659659	4659666	7 FAM100A	3
16	4659670	4659695	25 FAM100A	3
16	4659705	4659715	10 FAM100A	3
16	4659718	4659767	49 FAM100A	3
16	4659788	4659790	2 FAM100A	3
16	4659798	4659823	25 FAM100A	3
16	4659827	4659830	3 FAM100A	3
16	4743723	4743740	17 NUDT16L1	1

16	4748583	4748605	22 ANKS3	12
16	4848587	4848588	1 ROGDI	7
16	4943209	4943230	21 PPL	14
16	4943240	4943250	10 PPL	14
16	4943255	4943257	2 PPL	14
16	5083300	5083309	9 NAGPA	2
16	5131010	5131062	52 ALG1	10
16	9000369	9000374	5 USP7	13
16	9000443	9000444	1 USP7	13
16	11035834	11035867	33 DEXI	1
16	11035834	11035867	33 LOC100505	1
16	11035856	11035931	75 DEXI	1
16	11035856	11035931	75 LOC100505	1
16	11036008	11036107	99 LOC100505	1
16	11036197	11036317	120 LOC100505	1
16	11439324	11439470	146 RMI2	1
16	11439476	11439590	114 RMI2	1
16	11836429	11836444	15 TXNDC11	1
16	11836445	11836447	2 TXNDC11	1
16	12070659	12070675	16 RUNDC2A	1
16	12223583	12223588	5 SNX29	5
16	12223591	12223598	7 SNX29	5
16	14827103	14827162	59 LOC100652	1
16	15069052	15069055	3 PDXDC1	1
16	15069063	15069065	2 PDXDC1	1
16	15095637	15095718	81 PDXDC1	4
16	15149743	15149746	3 NTAN1	1
16	15149748	15149765	17 NTAN1	1
16	15149767	15149788	21 NTAN1	1
16	15149794	15149833	39 NTAN1	1
16	16043604	16043661	57 ABCC1	1
16	17564648	17564658	10 XYLT1	1
16	18995381	18995457	76 TMC7	1
16	19184747	19184748	1 SYT17	3
16	20429535	20429536	1 ACSM5	2
16	21281114	21281119	5 CRYM	4
16	21611050	21611060	10 METTL9	1
16	22019618	22019733	115 C16orf52	1
16	22163840	22163845	5 VWA3A	31
16	23160310	23160312	2 USP31	1
16	23160463	23160484	21 USP31	1
16	23160490	23160504	14 USP31	1
16	23160579	23160596	17 USP31	1
16	23203834	23203848	14 SCNN1G	3
16	24366182	24366238	56 CACNG3	3

16	24950837	24950839	2 ARHGAP17	17
16	25703955	25703956	1 HS3ST4	1
16	25704039	25704148	109 HS3ST4	1
16	27560993	27561006	13 GTF3C1	1
16	28331956	28332056	100 SBK1	3
16	28403354	28403356	2 EIF3CL	8
16	28403358	28403359	1 EIF3CL	8
16	28834690	28834849	159 ATXN2L	1
16	28877460	28877482	22 SH2B1	1
16	29466714	29466775	61 SLX1B	2
16	29466862	29466898	36 SLX1B	3
16	29466903	29466904	1 SLX1B	3
16	29466912	29466922	10 SLX1B	3
16	29466923	29467114	191 SLX1B	3
16	29708344	29708363	19 QPRT	3
16	29818294	29818395	101 MAZ	2
16	29818541	29818582	41 MAZ	2
16	29908258	29908289	31 SEZ6L2	3
16	29908290	29908292	2 SEZ6L2	3
16	29997117	29997155	38 TAOK2	14
16	30016609	30016676	67 INO80E	7
16	30200186	30200290	104 CORO1A	10
16	30204291	30204400	109 BOLA2B	3
16	30204674	30204781	107 BOLA2B	2
16	30204860	30205119	259 BOLA2B	1
16	30205401	30205528	127 SLX1A	1
16	30205539	30205598	59 SLX1A	1
16	30206204	30206456	252 SLX1A	3
16	30206465	30206553	88 SLX1A	3
16	30208290	30208427	137 SLX1A	4
16	30208586	30208683	97 SLX1A	5
16	30208753	30208792	39 SLX1A	6
16	30212141	30212202	61 SULT1A3	1
16	30212297	30212432	135 SULT1A3	2
16	30212512	30212619	107 SULT1A3	3
16	30214006	30214118	112 SULT1A3	4
16	30214121	30214142	21 SULT1A3	4
16	30214228	30214248	20 SULT1A3	5
16	30381282	30381289	7 TBC1D10B	1
16	30381291	30381409	118 TBC1D10B	1
16	30381478	30381509	31 TBC1D10B	1
16	30428902	30428981	79 ZNF771	2
16	30429638	30429642	4 ZNF771	2
16	30456924	30457027	103 SEPHS2	1
16	30913394	30913671	277 CTF1	3

16	30913723	30913788	65	CTF1	3
16	30939167	30939168	1	FBXL19	5
16	30939169	30939171	2	FBXL19	5
16	30939179	30939182	3	FBXL19	5
16	30939185	30939187	2	FBXL19	5
16	30990502	30990548	46	SETD1A	13
16	30991150	30991151	1	SETD1A	13
16	31153817	31153818	1	PRSS36	10
16	31153858	31153869	11	PRSS36	10
16	31159762	31159831	69	PRSS36	5
16	31226352	31226431	79	TRIM72	1
16	31342570	31342601	31	ITGAM	29
16	31368358	31368360	2	ITGAX	4
16	31374371	31374401	30	ITGAX	13
16	31519682	31519699	17	C16orf58	1
16	31993291	31993328	37	LOC388248	8
16	46708573	46708574	1	VPS35	9
16	46771669	46771671	2	MYLK3	3
16	47177485	47177503	18	NETO2	1
16	47177509	47177528	19	NETO2	1
16	48278490	48278502	12	LONP2	1
16	49315323	49315324	1	CBLN1	1
16	49315325	49315381	56	CBLN1	1
16	50120121	50120150	29	HEATR3	11
16	50367569	50367613	44	BRD7	8
16	52580623	52580640	17	TOX3	1
16	53468464	53468484	20	RBL2	1
16	53468493	53468495	2	RBL2	1
16	53468524	53468526	2	RBL2	1
16	53468556	53468558	2	RBL2	1
16	53468562	53468589	27	RBL2	1
16	53468623	53468627	4	RBL2	1
16	53656217	53656273	56	RPGRIP1L	22
16	54318404	54318407	3	IRX3	2
16	54318416	54318420	4	IRX3	2
16	54318436	54318440	4	IRX3	2
16	54318447	54318457	10	IRX3	2
16	54318458	54318460	2	IRX3	2
16	54318513	54318515	2	IRX3	2
16	54318528	54318531	3	IRX3	2
16	54965358	54965364	6	IRX5	1
16	54967126	54967129	3	IRX5	3
16	54967217	54967248	31	IRX5	3
16	55844901	55844926	25	CES1	10
16	55880358	55880391	33	CES5A	14



16	55880425	55880599	174	CES5A	14
16	55883682	55883690	8	CES5A	12
16	55905607	55905664	57	CES5A	4
16	56459231	56459244	13	AMFR	1
16	57103825	57103836	11	NLRC5	35
16	57562595	57562599	4	CCDC102A	1
16	57562601	57562629	28	CCDC102A	1
16	57562636	57562637	1	CCDC102A	1
16	57562641	57562647	6	CCDC102A	1
16	57562652	57562654	2	CCDC102A	1
16	57832050	57832052	2	KIFC3	1
16	57832053	57832070	17	KIFC3	1
16	57832071	57832075	4	KIFC3	1
16	57993804	57993856	52	CNGB1	9
16	57993863	57993865	2	CNGB1	9
16	58429072	58429094	22	GINS3	2
16	58429095	58429127	32	GINS3	2
16	58498330	58498376	46	NDRG4	1
16	58550002	58550006	4	SETD6	2
16	66638722	66638725	3	CMTM3	1
16	66730273	66730359	86	CMTM4	1
16	66730406	66730433	27	CMTM4	1
16	66878388	66878435	47	CA7	1
16	66958929	66958930	1	RRAD	1
16	66958931	66958932	1	RRAD	1
16	66958933	66958935	2	RRAD	1
16	66958936	66958938	2	RRAD	1
16	66958939	66959031	92	RRAD	1
16	66959042	66959087	45	RRAD	1
16	67100580	67100648	68	CBFB	4
16	67100653	67100657	4	CBFB	4
16	67214197	67214198	1	KIAA0895L	1
16	67214199	67214215	16	KIAA0895L	1
16	67214230	67214234	4	KIAA0895L	1
16	67226146	67226151	5	E2F4	1
16	67282966	67282968	2	SLC9A5	1
16	67298276	67298288	12	SLC9A5	13
16	67428632	67428642	10	ZDHHC1	10
16	67428713	67428717	4	ZDHHC1	10
16	67428719	67428743	24	ZDHHC1	10
16	67465192	67465344	152	HSD11B2	1
16	67681672	67681674	2	RLTPR	12
16	67686943	67687034	91	RLTPR	29
16	67687122	67687134	12	RLTPR	29
16	67919620	67919622	2	NRN1L	2

16	68002477	68002490	13 SLC12A4	1
16	68379584	68379589	5 PRMT7	8
16	69221065	69221294	229 SNTB2	1
16	69221385	69221496	111 SNTB2	1
16	69221509	69221512	3 SNTB2	1
16	69221523	69221529	6 SNTB2	1
16	69221545	69221654	109 SNTB2	1
16	69364084	69364141	57 PDF	1
16	69364337	69364478	141 PDF	1
16	69364737	69364743	6 COG8	5
16	69419690	69419753	63 TERF2	1
16	70215795	70215855	60 CLEC18C	4
16	70285398	70285473	75 EXOSC6	1
16	70285551	70285606	55 EXOSC6	1
16	70285607	70285609	2 EXOSC6	1
16	70405436	70405471	35 DDX19A	11
16	70507149	70507203	54 FUK	14
16	70697685	70697690	5 MTSS1L	15
16	70697694	70697695	1 MTSS1L	15
16	70713869	70713954	85 MTSS1L	4
16	70861159	70861312	153 HYDIN	82
16	70862177	70862183	6 HYDIN	81
16	70873995	70874121	126 HYDIN	75
16	70883736	70883849	113 HYDIN	74
16	70894587	70894744	157 HYDIN	69
16	70923566	70923568	2 HYDIN	57
16	70923569	70923580	11 HYDIN	57
16	70923581	70923612	31 HYDIN	57
16	70925544	70925792	248 HYDIN	56
16	70937545	70937705	160 HYDIN	51
16	70941323	70941399	76 HYDIN	49
16	70952109	70952265	156 HYDIN	46
16	70969850	70970005	155 HYDIN	44
16	70970006	70970008	2 HYDIN	44
16	70970009	70970010	1 HYDIN	44
16	70993565	70993585	20 HYDIN	38
16	70998780	70998785	5 HYDIN	36
16	71007241	71007400	159 HYDIN	34
16	71008461	71008578	117 HYDIN	31
16	71009061	71009177	116 HYDIN	30
16	71021822	71021999	177 HYDIN	26
16	71022291	71022392	101 HYDIN	25
16	71052047	71052225	178 HYDIN	22
16	71052231	71052294	63 HYDIN	22
16	71059281	71059434	153 HYDIN	20

16	71061660	71061774	114	HYDIN	19
16	71094402	71094564	162	HYDIN	17
16	71171224	71171260	36	HYDIN	7
16	71660534	71660541	7	MARVELD3	1
16	71736590	71736614	24	PHLPP2	2
16	71736637	71736639	2	PHLPP2	2
16	72092148	72092259	111	HP	5
16	72133105	72133106	1	DHX38	6
16	72133107	72133109	2	DHX38	6
16	72133111	72133112	1	DHX38	6
16	74640682	74640689	7	GLG1	1
16	74808562	74808626	64	FA2H	1
16	74808641	74808658	17	FA2H	1
16	75271093	75271108	15	BCAR1	3
16	75276763	75276765	2	BCAR1	2
16	75579719	75579734	15	TMEM231	2
16	75682066	75682126	60	TERF2IP	1
16	77246174	77246271	97	SYCE1L	9
16	77468501	77468503	2	ADAMTS18	1
16	77468508	77468522	14	ADAMTS18	1
16	77468524	77468531	7	ADAMTS18	1
16	77468535	77468536	1	ADAMTS18	1
16	79633062	79633069	7	MAF	1
16	79633238	79633361	123	MAF	1
16	80646547	80646554	7	CDYL2	5
16	80646557	80646566	9	CDYL2	5
16	80646580	80646581	1	CDYL2	5
16	81069601	81069666	65	ATMIN	1
16	81129731	81129766	35	GCSH	1
16	83932758	83932825	67	MLYCD	1
16	84002249	84002372	123	NECAB2	1
16	84346610	84346709	99	WFDC1	2
16	84346710	84346712	2	WFDC1	2
16	84472822	84472829	7	ATP2C2	12
16	84733692	84733722	30	USP10	1
16	85105384	85105385	1	KIAA0513	2
16	86544171	86544199	28	FOXF1	1
16	86544857	86544859	2	FOXF1	1
16	86544865	86544952	87	FOXF1	1
16	86565622	86565630	8	MTHFSD	8
16	86612834	86613027	193	FOXL1	1
16	87417006	87417009	3	FBXO31	1
16	87417211	87417344	133	FBXO31	1
16	87445539	87445574	35	ZCCHC14	12
16	87445580	87445604	24	ZCCHC14	12

16	87445611	87445616	5 ZCCHC14	12
16	87448075	87448079	4 ZCCHC14	10
16	87525312	87525351	39 ZCCHC14	1
16	87902546	87902552	6 SLC7A5	1
16	87902956	87903033	77 SLC7A5	1
16	88503811	88503812	1 ZNF469	2
16	88503816	88503824	8 ZNF469	2
16	88599824	88599870	46 ZFPM1	10
16	88600347	88600380	33 ZFPM1	10
16	88600678	88600709	31 ZFPM1	10
16	88601011	88601049	38 ZFPM1	10
16	88601197	88601198	1 ZFPM1	10
16	88709820	88709823	3 CYBA	6
16	88709827	88709830	3 CYBA	6
16	88709856	88709873	17 CYBA	6
16	88709877	88709984	107 CYBA	6
16	88772689	88772692	3 RNF166	1
16	88772693	88772695	2 RNF166	1
16	88772990	88773011	21 CTU2	1
16	88793593	88793599	6 PIEZO1	24
16	88793602	88793605	3 PIEZO1	24
16	88803043	88803062	19 PIEZO1	11
16	88851304	88851377	73 PIEZO1	1
16	88870359	88870472	113 CDT1	1
16	88923261	88923290	29 GALNS	1
16	88967945	88967959	14 CBFA2T3	2
16	88967967	88967970	3 CBFA2T3	2
16	89262416	89262523	107 SLC22A31	6
16	89264525	89264531	6 SLC22A31	4
16	89345797	89345965	168 ANKRD11	7
16	89346101	89346118	17 ANKRD11	7
16	89346131	89346133	2 ANKRD11	7
16	89574821	89574846	25 SPG7	1
16	89574848	89574850	2 SPG7	1
16	89574857	89574884	27 SPG7	1
16	89574890	89574929	39 SPG7	1
16	89642301	89642303	2 CPNE7	1
16	89642336	89642356	20 CPNE7	1
16	89775766	89775767	1 C16orf7	12
16	89775768	89775820	52 C16orf7	12
16	89777300	89777411	111 C16orf7	10
16	89788166	89788167	1 ZNF276	1
16	89788169	89788193	24 ZNF276	1
16	89894954	89895124	170 SPIRE2	1
16	89917057	89917071	14 SPIRE2	3

16	89977500	89977514	14	TCF25	18
16	89977519	89977521	2	TCF25	18
16	90089125	90089137	12	GAS8	1
17	30920	31186	266	DOC2B	1
17	31192	31275	83	DOC2B	1
17	65477	65598	121	RPH3AL	7
17	97039	97053	14	RPH3AL	5
17	260129	260271	142	C17orf97	1
17	900396	900401	5	TIMM22	1
17	1174414	1174471	57	BHLHA9	1
17	1382720	1382777	57	MYO1C	9
17	1382780	1382782	2	MYO1C	9
17	1382786	1382801	15	MYO1C	9
17	1546769	1546785	16	SCARF1	4
17	1546786	1546787	1	SCARF1	4
17	1547017	1547266	249	SCARF1	4
17	1552501	1552564	63	RILP	3
17	1552569	1552573	4	RILP	3
17	1552599	1552605	6	RILP	3
17	1960430	1960506	76	HIC1	2
17	1968789	1968834	45	SMG6	17
17	2274674	2274678	4	SGSM2	13
17	2279095	2279096	1	SGSM2	18
17	2279102	2279106	4	SGSM2	18
17	2298502	2298503	1	MNT	2
17	2298507	2298512	5	MNT	2
17	2298591	2298617	26	MNT	2
17	2569305	2569344	39	PAFAH1B1	3
17	2569350	2569389	39	PAFAH1B1	3
17	2595295	2595298	3	KIAA0664	22
17	3749445	3749468	23	C17orf85	1
17	3832617	3832626	9	ATP2A3	19
17	3867463	3867590	127	ATP2A3	1
17	4402433	4402573	140	SPNS2	1
17	4458620	4458624	4	MYBBP1A	1
17	4463016	4463032	16	GGT6	2
17	4487933	4487950	17	SMTNL2	1
17	4487954	4487955	1	SMTNL2	1
17	4488169	4488173	4	SMTNL2	1
17	4488174	4488304	130	SMTNL2	1
17	4500158	4500185	27	SMTNL2	6
17	4614039	4614044	5	ARRB2	1
17	4619825	4619863	38	ARRB2	5
17	4883817	4883819	2	CAMTA2	9
17	5039181	5039213	32	USP6	8

17	5039216	5039228	12 USP6	8
17	5042660	5042702	42 USP6	13
17	5185812	5185820	8 RABEP1	1
17	5342182	5342394	212 C1QBP	1
17	5389470	5389475	5 DERL2	1
17	5389480	5389486	6 DERL2	1
17	6459700	6459731	31 PITPNM3	1
17	6946001	6946004	3 SLC16A11	3
17	7127956	7127977	21 ACADVL	18
17	7197544	7197748	204 YBX2	1
17	7232496	7232505	9 NEURL4	1
17	7232507	7232534	27 NEURL4	1
17	7232579	7232636	57 NEURL4	1
17	7296491	7296574	83 PLSCR3	4
17	7297116	7297135	19 PLSCR3	2
17	7311570	7311649	79 NLGN2	1
17	7320794	7320796	2 NLGN2	7
17	7320907	7321031	124 NLGN2	7
17	7452504	7452517	13 TNFSF12	1
17	7452504	7452517	13 TNFSF12-TM	1
17	7452504	7452517	13 TNFSF12	1
17	7452504	7452517	13 TNFSF12-TM	1
17	7452518	7452519	1 TNFSF12	1
17	7452518	7452519	1 TNFSF12-TM	1
17	7452518	7452519	1 TNFSF12	1
17	7452518	7452519	1 TNFSF12-TM	1
17	7477962	7477979	17 EIF4A1	3
17	7750988	7751171	183 KDM6B	8
17	7751944	7751990	46 KDM6B	8
17	7752279	7752304	25 KDM6B	8
17	7756756	7756792	36 KDM6B	19
17	7788120	7788163	43 CHD3	1
17	7788292	7788343	51 CHD3	1
17	7794023	7794054	31 CHD3	3
17	7796815	7796816	1 CHD3	5
17	7796818	7796830	12 CHD3	5
17	7796833	7796866	33 CHD3	5
17	7812456	7812575	119 CHD3	37
17	7812581	7812652	71 CHD3	37
17	7906596	7906645	49 GUCY2D	1
17	7942861	7942928	67 ALOX15B	2
17	8024884	8025038	154 HES7	4
17	8025103	8025105	2 HES7	4
17	8025123	8025160	37 HES7	4
17	8046934	8046968	34 PER1	18

17	8046974	8047072	98 PER1	18
17	8066191	8066202	11 VAMP2	1
17	8151352	8151359	7 CTC1	1
17	8722396	8722400	4 PIK3R6	17
17	8722401	8722412	11 PIK3R6	17
17	8925686	8925742	56 NTN1	1
17	8925745	8925750	5 NTN1	1
17	9548964	9549041	77 USP43	1
17	9549044	9549047	3 USP43	1
17	10633092	10633098	6 TMEM220	1
17	11144758	11144883	125 SHISA6	1
17	11144974	11144984	10 SHISA6	1
17	11501825	11501828	3 DNAH9	1
17	11513798	11513835	37 DNAH9	3
17	11924199	11924323	124 MAP2K4	1
17	12877487	12877563	76 ARHGAP44	18
17	12883494	12883506	12 ARHGAP44	19
17	13504115	13504206	91 HS3ST3A1	1
17	14204862	14204863	1 HS3ST3B1	1
17	15466746	15466762	16 FAM18B2	1
17	15466746	15466762	16 FAM18B2-C	1
17	15466746	15466762	16 FAM18B2	1
17	15466746	15466762	16 FAM18B2-C	1
17	15903222	15903306	84 TTC19	1
17	15903427	15903484	57 TTC19	2
17	15903536	15903537	1 TTC19	2
17	15903555	15903564	9 TTC19	2
17	16256562	16256755	193 CENPV	1
17	16395054	16395098	44 C17orf76	1
17	16395265	16395305	40 C17orf76	1
17	16596288	16596312	24 CCDC144A	2
17	16946158	16946160	2 MPRIP	1
17	17109591	17109605	14 PLD6	1
17	17713289	17713300	11 RAI1	4
17	17716108	17716137	29 SREBF1	20
17	17942855	17942913	58 C17orf39	1
17	17942983	17943042	59 C17orf39	1
17	18024052	18024053	1 MYO15A	1
17	18024062	18024066	4 MYO15A	1
17	18024239	18024270	31 MYO15A	1
17	18024550	18024681	131 MYO15A	1
17	18061156	18061196	40 MYO15A	50
17	18128992	18129082	90 LLGL1	1
17	18140797	18140857	60 LLGL1	14
17	18150478	18150480	2 FLII	21

17	18286335	18286424	89	EVPLL	6
17	18286437	18286504	67	EVPLL	6
17	18395294	18395308	14	LGALS9C	8
17	18576273	18576373	100	ZNF286B	3
17	18682505	18682506	1	FBXW10	14
17	18684608	18684623	15	FAM18B1	1
17	18918509	18918517	8	SLC5A10	11
17	19188972	19189029	57	EPN2	2
17	19189031	19189032	1	EPN2	2
17	19702890	19702892	2	ULK2	17
17	19753050	19753063	13	ULK2	4
17	19768111	19768162	51	ULK2	3
17	19880900	19880949	49	AKAP10	1
17	20355659	20355662	3	LGALS9B	8
17	20355667	20355673	6	LGALS9B	8
17	20370740	20370788	48	LGALS9B	1
17	20483092	20483103	11	CDRT15L2	1
17	20796756	20796780	24	CCDC144NL	2
17	21101948	21101950	2	TMEM11	2
17	21156467	21156519	52	C17orf103	1
17	21156541	21156542	1	C17orf103	1
17	25973611	25973619	8	LGALS9	8
17	26088166	26088184	18	NOS2	22
17	26088218	26088219	1	NOS2	22
17	26088228	26088258	30	NOS2	22
17	26092556	26092579	23	NOS2	19
17	26657256	26657259	3	IFT20	3
17	26684387	26684435	48	POLDIP2	1
17	26699285	26699287	2	SARM1	1
17	26699291	26699315	24	SARM1	1
17	26715188	26715189	1	SARM1	6
17	26715190	26715191	1	SARM1	6
17	26715192	26715193	1	SARM1	6
17	26715272	26715300	28	SARM1	6
17	26732900	26732910	10	SLC46A1	1
17	26732930	26732935	5	SLC46A1	1
17	27086521	27086524	3	C17orf63	2
17	27229596	27229692	96	DHRS13	2
17	27229718	27229720	2	DHRS13	2
17	27229722	27229724	2	DHRS13	2
17	27283225	27283257	32	SEZ6	16
17	27420000	27420007	7	MYO18A	32
17	27804674	27804720	46	TAOK1	4
17	27804722	27804729	7	TAOK1	4
17	27893919	27893921	2	ABHD15	1



17	27893922	27893925	3 ABHD15	1
17	27893940	27893943	3 ABHD15	1
17	27893944	27893945	1 ABHD15	1
17	27893947	27893957	10 ABHD15	1
17	27899879	27899943	64 TP53I13	7
17	27916340	27916401	61 GIT1	1
17	27934761	27934786	25 ANKRD13B	2
17	27943003	27943004	1 CORO6	9
17	29298100	29298218	118 RNF135	1
17	29422323	29422392	69 NF1	1
17	30186115	30186124	9 C17orf79	1
17	30186206	30186223	17 C17orf79	1
17	30264261	30264282	21 SUZ12	1
17	30264329	30264449	120 SUZ12	1
17	30469707	30469753	46 RHOT1	1
17	30593204	30593324	120 RHBDL3	1
17	31618990	31619001	11 ACCN1	1
17	31619031	31619138	107 ACCN1	1
17	33469272	33469292	20 NLE1	1
17	33469296	33469298	2 NLE1	1
17	34077126	34077130	4 GAS2L2	2
17	34091440	34091493	53 C17orf50	3
17	34171632	34171633	1 TAF15	15
17	34539879	34539889	10 CCL4L1	3
17	34624846	34624890	44 CCL3L1	2
17	34625566	34625610	44 CCL3L1	1
17	34625615	34625651	36 CCL3L1	1
17	34640132	34640190	58 CCL4L2	1
17	34640819	34640863	44 CCL4L2	2
17	34641445	34641542	97 CCL4L2	3
17	34901569	34901600	31 GGNBP2	1
17	34948470	34948591	121 DHRS11	1
17	36060983	36061005	22 HNF1B	7
17	36061018	36061019	1 HNF1B	7
17	36508180	36508339	159 SOCS7	1
17	36508693	36508694	1 SOCS7	1
17	36508696	36508697	1 SOCS7	1
17	36584725	36584797	72 ARHGAP23	1
17	36633918	36633959	41 ARHGAP23	12
17	36636077	36636129	52 ARHGAP23	14
17	36654719	36654757	38 ARHGAP23	22
17	36666274	36666352	78 ARHGAP23	24
17	36666412	36666462	50 ARHGAP23	24
17	36666617	36666691	74 ARHGAP23	24
17	36666766	36666930	164 ARHGAP23	24

17	36667121	36667213	92 ARHGAP23	24
17	36705352	36705411	59 SRCIN1	16
17	36715919	36715951	32 SRCIN1	10
17	36715957	36715972	15 SRCIN1	10
17	36720500	36720506	6 SRCIN1	4
17	36734904	36735024	120 SRCIN1	2
17	36829696	36829735	39 C17orf96	1
17	36830235	36830237	2 C17orf96	1
17	36830241	36830249	8 C17orf96	1
17	36868095	36868099	4 MLLT6	7
17	36878126	36878370	244 MLLT6	17
17	36878378	36878379	1 MLLT6	17
17	36878380	36878388	8 MLLT6	17
17	36878390	36878391	1 MLLT6	17
17	36878395	36878396	1 MLLT6	17
17	36878413	36878414	1 MLLT6	17
17	36878421	36878431	10 MLLT6	17
17	36878433	36878439	6 MLLT6	17
17	36878447	36878467	20 MLLT6	17
17	36878471	36878473	2 MLLT6	17
17	36878926	36878935	9 MLLT6	18
17	37070678	37070695	17 LASP1	5
17	37374245	37374247	2 STAC2	2
17	37374249	37374296	47 STAC2	2
17	37374297	37374298	1 STAC2	2
17	37844218	37844219	1 PGAP3	1
17	37856487	37856569	82 ERBB2	1
17	37883545	37883564	19 ERBB2	26
17	38297013	38297037	24 CASC3	1
17	38430104	38430132	28 WIPF2	5
17	38600035	38600229	194 IGFBP4	1
17	38949417	38949420	3 KRT28	7
17	38975155	38975158	3 KRT10	7
17	39020089	39020121	32 KRT12	4
17	39183190	39183194	4 KRTAP1-5	1
17	39324178	39324203	25 KRTAP4-3	1
17	39324206	39324208	2 KRTAP4-3	1
17	39324214	39324216	2 KRTAP4-3	1
17	39324217	39324219	2 KRTAP4-3	1
17	39324220	39324245	25 KRTAP4-3	1
17	39422021	39422117	96 KRTAP9-6	1
17	39506973	39506977	4 KRT33A	1
17	39534306	39534403	97 KRT34	7
17	39535682	39535735	53 KRT34	5
17	39535817	39535926	109 KRT34	4

17	39535942	39535988	46 KRT34	4
17	39537386	39537469	83 KRT34	3
17	39538447	39538629	182 KRT34	1
17	39553747	39553796	49 KRT31	1
17	39580720	39580764	44 KRT37	1
17	39728131	39728182	51 KRT9	1
17	39742894	39742899	5 KRT14	1
17	39742912	39742922	10 KRT14	1
17	39742927	39742928	1 KRT14	1
17	39768708	39768733	25 KRT16	1
17	39768734	39768755	21 KRT16	1
17	39768757	39768806	49 KRT16	1
17	39768906	39768945	39 KRT16	1
17	39775841	39775875	34 KRT17	8
17	39920976	39921027	51 JUP	6
17	39921029	39921034	5 JUP	6
17	39925401	39925407	6 JUP	3
17	39967840	39967912	72 LEPREL4	1
17	39967916	39967917	1 LEPREL4	1
17	39968160	39968170	10 LEPREL4	1
17	39992445	39992450	5 NT5C3L	1
17	40021499	40021577	78 KLHL11	1
17	40021606	40021628	22 KLHL11	1
17	40054002	40054021	19 ACLY	12
17	40118898	40118910	12 CNP	1
17	40189775	40189791	16 ZNF385C	2
17	40189850	40189851	1 ZNF385C	2
17	40189853	40189860	7 ZNF385C	2
17	40269426	40269444	18 KAT2A	10
17	40272979	40273034	55 KAT2A	1
17	40273048	40273292	244 KAT2A	1
17	40273302	40273327	25 KAT2A	1
17	40315841	40315843	2 KCNH4	13
17	40315847	40315967	120 KCNH4	13
17	40336167	40336240	73 HCRT	2
17	40336243	40336244	1 HCRT	2
17	40341788	40341889	101 GHDC	8
17	40341899	40341900	1 GHDC	8
17	40341913	40341915	2 GHDC	8
17	40341916	40341944	28 GHDC	8
17	40451892	40451893	1 STAT5A	5
17	40688382	40688443	61 NAGLU	1
17	40688669	40688676	7 NAGLU	1
17	40719166	40719173	7 MLX	1
17	40719194	40719207	13 MLX	1

17	40761196	40761209	13	FAM134C	1
17	40822097	40822204	107	PLEKHH3	11
17	40822260	40822357	97	PLEKHH3	11
17	40824349	40824360	11	PLEKHH3	7
17	40831635	40831657	22	CCR10	2
17	40831660	40831662	2	CCR10	2
17	40850843	40850845	2	CNTNAP1	24
17	40850846	40850866	20	CNTNAP1	24
17	40913275	40913329	54	RAMP2	1
17	41132851	41132852	1	RUNDC1	1
17	41173985	41173992	7	VAT1	1
17	41174005	41174059	54	VAT1	1
17	41177365	41177383	18	RND2	1
17	41477567	41477571	4	ARL4D	1
17	41477572	41477575	3	ARL4D	1
17	42082142	42082163	21	NAGS	1
17	42082165	42082215	50	NAGS	1
17	42082216	42082218	2	NAGS	1
17	42084030	42084035	5	NAGS	4
17	42143916	42143960	44	LSM12	1
17	42170177	42170179	2	HDAC5	6
17	42219506	42219518	12	C17orf53	1
17	42248212	42248271	59	ASB16	1
17	42254390	42254395	5	C17orf65	1
17	42254390	42254395	5	ASB16	3
17	42254390	42254395	5	C17orf65	1
17	42254390	42254395	5	ASB16	3
17	42254397	42254402	5	C17orf65	1
17	42254397	42254402	5	ASB16	3
17	42254397	42254402	5	C17orf65	1
17	42254397	42254402	5	ASB16	3
17	42392815	42392969	154	RUNDC3A	8
17	42431243	42431245	2	FAM171A2	8
17	42431248	42431401	153	FAM171A2	8
17	42431490	42431497	7	FAM171A2	8
17	42431913	42431940	27	FAM171A2	8
17	42432159	42432249	90	FAM171A2	8
17	42432255	42432257	2	FAM171A2	8
17	42432261	42432278	17	FAM171A2	8
17	42441036	42441073	37	FAM171A2	1
17	42462311	42462314	3	ITGA2B	7
17	42635052	42635079	27	FZD2	1
17	42733977	42734031	54	C17orf104	1
17	42836563	42836633	70	ADAM11	1
17	42851711	42851752	41	ADAM11	12

17	42929091	42929096	5 EFTUD2	26
17	43299487	43299625	138 FMNL1	1
17	43319209	43319321	112 FMNL1	15
17	43861906	43861948	42 CRHR1	1
17	43911105	43911108	3 CRHR1	12
17	43922300	43922305	5 IMP5	1
17	43922309	43922322	13 IMP5	1
17	44076975	44077037	62 STH	1
17	44087671	44087730	59 MAPT	11
17	44109038	44109048	10 KIAA1267	14
17	44115935	44115939	4 KIAA1267	9
17	44115942	44115955	13 KIAA1267	9
17	44116421	44116472	51 KIAA1267	8
17	44116474	44116476	2 KIAA1267	8
17	44116480	44116481	1 KIAA1267	8
17	44116485	44116586	101 KIAA1267	8
17	44144913	44145038	125 KIAA1267	4
17	44248216	44248524	308 KIAA1267	1
17	44249392	44249472	80 KIAA1267	1
17	44408583	44408584	1 LRRC37A	9
17	44408757	44408847	90 LRRC37A	9
17	44414799	44414867	68 LRRC37A	13
17	44648120	44648232	112 ARL17A	2
17	44653536	44653693	157 ARL17A	1
17	44668137	44668158	21 NSF	1
17	44701605	44701700	95 NSF	2
17	44703974	44704083	109 NSF	3
17	44707772	44707821	49 NSF	4
17	44714770	44714908	138 NSF	5
17	44717425	44717532	107 NSF	6
17	44718004	44718089	85 NSF	7
17	44720468	44720629	161 NSF	8
17	44751790	44751981	191 NSF	9
17	44770264	44770266	2 NSF	10
17	44771208	44771292	84 NSF	11
17	44851029	44851045	16 WNT3	2
17	44929000	44929086	86 WNT9B	1
17	45056343	45056374	31 RPRML	1
17	45331223	45331237	14 ITGB3	1
17	45608662	45608813	151 NPEPPS	1
17	45608877	45608926	49 NPEPPS	1
17	45776736	45776770	34 TBKBP1	5
17	45786104	45786156	52 TBKBP1	8
17	45786203	45786328	125 TBKBP1	8
17	45786405	45786468	63 TBKBP1	8

17	45786471	45786473	2 TBKBP1	8
17	45786478	45786481	3 TBKBP1	8
17	45786738	45786761	23 TBKBP1	8
17	45810818	45810819	1 TBX21	1
17	45810990	45811082	92 TBX21	1
17	46115042	46115085	43 COPZ2	1
17	46621928	46621947	19 HOXB2	1
17	46622006	46622012	6 HOXB2	1
17	46622013	46622015	2 HOXB2	1
17	46628465	46628548	83 HOXB3	2
17	46655453	46655479	26 HOXB4	1
17	47246893	47246902	9 B4GALNT2	11
17	47297297	47297304	7 ABI3	5
17	47297307	47297320	13 ABI3	5
17	47297671	47297675	4 ABI3	6
17	47297676	47297682	6 ABI3	6
17	47297689	47297693	4 ABI3	6
17	47375870	47375897	27 ZNF652	5
17	47785104	47785138	34 SLC35B1	1
17	47785145	47785151	6 SLC35B1	1
17	47785157	47785169	12 SLC35B1	1
17	47841249	47841369	120 FAM117A	1
17	47841413	47841424	11 FAM117A	1
17	48165180	48165182	2 ITGA3	24
17	48165184	48165187	3 ITGA3	24
17	48165190	48165221	31 ITGA3	24
17	48194805	48194827	22 SAMD14	3
17	48276630	48276638	8 COL1A1	5
17	48276640	48276659	19 COL1A1	5
17	48276661	48276666	5 COL1A1	5
17	48460477	48460491	14 LRRC59	7
17	48614416	48614423	7 EPN3	1
17	48614425	48614470	45 EPN3	1
17	48614472	48614473	1 EPN3	1
17	48624593	48624651	58 SPATA20	1
17	48628533	48628534	1 SPATA20	12
17	48628538	48628555	17 SPATA20	12
17	55038160	55038162	2 COIL	1
17	55038164	55038166	2 COIL	1
17	55334099	55334170	71 MSI2	1
17	55962856	55962930	74 CUEDC1	1
17	56065456	56065477	21 VEZF1	1
17	56402245	56402268	23 BZRAP1	5
17	56439921	56439922	1 RNF43	5
17	56565081	56565158	77 HSF5	1

17	56833701	56833728	27 PPM1E	1
17	57656836	57656860	24 DHX40	9
17	58677775	58677784	9 PPM1D	1
17	59477676	59477687	11 TBX2	1
17	59477759	59477779	20 TBX2	1
17	59482740	59482767	27 TBX2	6
17	59483077	59483148	71 TBX2	6
17	60705177	60705190	13 MRC2	1
17	61554451	61554464	13 ACE	1
17	61561865	61561868	3 ACE	12
17	61678481	61678528	47 TACO1	1
17	61678531	61678532	1 TACO1	1
17	61919814	61920039	225 SMARCD2	1
17	61973106	61973215	109 CSH1	3
17	61973431	61973600	169 CSH1	2
17	62076062	62076147	85 C17orf72	2
17	62207331	62207334	3 ERN1	1
17	62523248	62523253	5 CEP95	11
17	62594577	62594587	10 SMURF2	3
17	62594597	62594607	10 SMURF2	3
17	62594612	62594613	1 SMURF2	3
17	62657942	62658003	61 SMURF2	1
17	65715854	65715908	54 NOL11	2
17	65716017	65716018	1 NOL11	3
17	65821838	65821997	159 BPTF	1
17	65822123	65822196	73 BPTF	1
17	66536985	66536995	10 FAM20A	8
17	66537022	66537026	4 FAM20A	8
17	66537027	66537033	6 FAM20A	8
17	66537073	66537104	31 FAM20A	8
17	67101742	67101743	1 ABCA6	19
17	67244398	67244463	65 ABCA5	37
17	67246041	67246130	89 ABCA5	36
17	67302864	67302875	11 ABCA5	5
17	70120020	70120059	39 SOX9	3
17	71189468	71189471	3 COG1	1
17	71189478	71189487	9 COG1	1
17	72308139	72308203	64 DNAI2	11
17	72839046	72839147	101 GRIN2C	12
17	72839229	72839342	113 GRIN2C	12
17	72839348	72839483	135 GRIN2C	12
17	72839649	72839697	48 GRIN2C	12
17	73043341	73043393	52 KCTD2	1
17	73127624	73127633	9 NT5C	1
17	73127767	73127777	10 NT5C	1

17	73127781	73127787	6 NT5C	1
17	73236153	73236194	41 GGA3	13
17	73257624	73257630	6 GGA3	1
17	73498252	73498253	1 CASKIN2	17
17	73570338	73570346	8 LLGL2	22
17	73749941	73749994	53 ITGB4	32
17	73751899	73751901	2 ITGB4	34
17	73751902	73751936	34 ITGB4	34
17	73781030	73781032	2 UNK	1
17	73808557	73808561	4 UNK	4
17	73824863	73824912	49 UNC13D	31
17	73824915	73824917	2 UNC13D	31
17	73826483	73826511	28 UNC13D	29
17	73873950	73873965	15 TRIM47	1
17	73874205	73874206	1 TRIM47	1
17	73874208	73874214	6 TRIM47	1
17	73874215	73874289	74 TRIM47	1
17	73892600	73892610	10 TRIM65	1
17	73926073	73926133	60 FBF1	5
17	74011056	74011105	49 EVPL	17
17	74011106	74011109	3 EVPL	17
17	74017750	74017757	7 EVPL	8
17	74017971	74018088	117 EVPL	7
17	74019726	74019740	14 EVPL	3
17	74023177	74023187	10 EVPL	1
17	74071018	74071141	123 GALR2	1
17	74085253	74085254	1 EXOC7	9
17	74261706	74261711	5 FAM100B	1
17	74266453	74266591	138 FAM100B	3
17	74344605	74344607	2 PRPSAP1	2
17	74349610	74349615	5 PRPSAP1	1
17	74349687	74349691	4 PRPSAP1	1
17	74349710	74349743	33 PRPSAP1	1
17	74349747	74349748	1 PRPSAP1	1
17	74349753	74349755	2 PRPSAP1	1
17	74349771	74349772	1 PRPSAP1	1
17	74381538	74381588	50 SPHK1	2
17	74381590	74381593	3 SPHK1	2
17	74449176	74449228	52 UBE2O	1
17	74477557	74477602	45 RHBDF2	1
17	74569447	74569448	1 ST6GALNAC	4
17	74706682	74706729	47 MXRA7	1
17	74706925	74707033	108 MXRA7	1
17	74944856	74944865	9 MGAT5B	16
17	75494600	75494601	1 9-Sep	12



17	76164790	76164801	11 SYNGR2	1
17	76228114	76228115	1 TMEM235	1
17	76374763	76374774	11 PGS1	1
17	76374821	76374894	73 PGS1	1
17	76778309	76778310	1 CYTH1	1
17	76799993	76800018	25 USP36	14
17	76802233	76802271	38 USP36	13
17	76921142	76921143	1 TIMP2	1
17	77071022	77071066	44 ENGASE	1
17	77071079	77071090	11 ENGASE	1
17	77071093	77071103	10 ENGASE	1
17	77077147	77077160	13 ENGASE	6
17	77093506	77093511	5 RBFOX3	7
17	77111732	77111755	23 RBFOX3	1
17	77111767	77111802	35 RBFOX3	1
17	77704897	77704925	28 ENPP7	1
17	77704927	77704929	2 ENPP7	1
17	77704932	77704934	2 ENPP7	1
17	77811631	77811706	75 CBX4	3
17	78010469	78010470	1 CCDC40	1
17	78010471	78010484	13 CCDC40	1
17	78023971	78023972	1 CCDC40	7
17	78179418	78179419	1 CARD14	18
17	78179425	78179434	9 CARD14	18
17	78181932	78181948	16 CARD14	20
17	78190920	78190922	2 SGSH	2
17	78190925	78190926	1 SGSH	2
17	78194020	78194117	97 SGSH	1
17	78222948	78222956	8 SLC26A11	14
17	78261804	78261809	5 RNF213	4
17	78261811	78261813	2 RNF213	4
17	79097131	79097133	2 AATK	10
17	79101671	79101676	5 AATK	5
17	79101679	79101715	36 AATK	5
17	79102265	79102326	61 AATK	4
17	79102328	79102338	10 AATK	4
17	79102343	79102354	11 AATK	4
17	79164489	79164508	19 AZI1	23
17	79166113	79166140	27 AZI1	20
17	79171960	79171968	8 AZI1	11
17	79212781	79212805	24 C17orf56	1
17	79212809	79212819	10 C17orf56	1
17	79212820	79212822	2 C17orf56	1
17	79213194	79213252	58 C17orf89	1
17	79213363	79213397	34 C17orf89	2

17	79225334	79225394	60 SLC38A10	14
17	79254475	79254479	4 SLC38A10	6
17	79373535	79373709	174 BAHCC1	1
17	79409415	79409462	47 BAHCC1	4
17	79412507	79412509	2 BAHCC1	9
17	79412522	79412562	40 BAHCC1	9
17	79412563	79412564	1 BAHCC1	9
17	79419056	79419108	52 BAHCC1	12
17	79425396	79425397	1 BAHCC1	17
17	79425398	79425429	31 BAHCC1	17
17	79507845	79507862	17 C17orf70	9
17	79603937	79603961	24 NPLOC4	1
17	79615220	79615239	19 TSPAN10	3
17	79633903	79633910	7 CCDC137	1
17	79849194	79849305	111 THOC4	1
17	79860189	79860325	136 NPB	1
17	79869138	79869146	8 PCYT2	1
17	79869148	79869158	10 PCYT2	1
17	79869233	79869236	3 PCYT2	1
17	79871645	79871698	53 SIRT7	9
17	79875733	79875734	1 SIRT7	2
17	79875742	79875743	1 SIRT7	2
17	79875744	79875848	104 SIRT7	2
17	79875910	79875942	32 SIRT7	1
17	79911123	79911133	10 NOTUM	11
17	79974347	79974408	61 ASPSCR1	13
17	79985882	79985942	60 LRRC45	9
17	79985946	79985950	4 LRRC45	9
17	79985967	79985974	7 LRRC45	9
17	79987470	79987516	46 LRRC45	14
17	79989633	79989677	44 RAC3	1
17	79995328	79995346	18 DCXR	2
17	80009462	80009492	30 RFNG	1
17	80009564	80009647	83 RFNG	1
17	80047552	80047553	1 FASN	11
17	80207422	80207427	5 CSNK1D	7
17	80207433	80207437	4 CSNK1D	7
17	80274167	80274170	3 CD7	3
17	80274172	80274174	2 CD7	3
17	80332796	80332799	3 UTS2R	1
17	80332802	80332813	11 UTS2R	1
17	80332815	80332822	7 UTS2R	1
17	80333364	80333369	5 UTS2R	1
17	80376283	80376366	83 C17orf101	1
17	80477812	80477910	98 FOXK2	1

17	80674659	80674665	6 FN3KRP	1
17	80693541	80693560	19 FN3K	1
17	80710195	80710197	2 TBCD	1
17	80710206	80710225	19 TBCD	1
17	80878427	80878457	30 TBCD	24
17	81009623	81009625	2 B3GNTL1	1
17	81009627	81009628	1 B3GNTL1	1
17	81009636	81009637	1 B3GNTL1	1
17	81009640	81009657	17 B3GNTL1	1
17	81009659	81009660	1 B3GNTL1	1
17	81009667	81009668	1 B3GNTL1	1
17	81037776	81037866	90 METRNL	1
18	158694	158719	25 USP14	1
18	334737	334742	5 COLEC12	6
18	334757	334759	2 COLEC12	6
18	500503	500519	16 COLEC12	1
18	649895	649896	1 CLUL1	8
18	649898	649906	8 CLUL1	8
18	657758	657761	3 TYMS	1
18	2707912	2707923	11 SMCHD1	17
18	2847210	2847325	115 EMILIN2	1
18	2906847	2907070	223 EMILIN2	5
18	5489016	5489022	6 EPB41L3	1
18	5890603	5890682	79 TMEM200C	1
18	5890686	5890759	73 TMEM200C	1
18	5891035	5891081	46 TMEM200C	1
18	5891083	5891085	2 TMEM200C	1
18	5891092	5891193	101 TMEM200C	1
18	5891197	5891233	36 TMEM200C	1
18	5891357	5891363	6 TMEM200C	1
18	7567876	7567894	18 PTPRM	1
18	8609754	8609790	36 RAB12	1
18	8785964	8785981	17 CCDC165	5
18	8785985	8786026	41 CCDC165	5
18	8786088	8786094	6 CCDC165	5
18	9524695	9524758	63 RALBP1	4
18	9614471	9614487	16 PPP4R1	1
18	11689620	11689622	2 GNAL	1
18	12376963	12377086	123 AFG3L2	1
18	12407970	12408011	41 SLMO1	1
18	12657786	12657789	3 SPIRE1	1
18	12657849	12657870	21 SPIRE1	1
18	12699824	12699828	4 CEP76	3
18	12825899	12825948	49 PTPN2	5
18	14769337	14769339	2 ANKRD30B	8

18	14840582	14840627	45 ANKRD30B	31
18	19110400	19110456	56 ESCO1	9
18	19751738	19751757	19 GATA6	1
18	19751848	19752187	339 GATA6	1
18	19756911	19756913	2 GATA6	2
18	19756921	19756924	3 GATA6	2
18	19756926	19756977	51 GATA6	2
18	19756982	19757087	105 GATA6	2
18	20715722	20715790	68 CABLES1	1
18	20715874	20715927	53 CABLES1	1
18	20715938	20715945	7 CABLES1	1
18	20715952	20715954	2 CABLES1	1
18	20715957	20715960	3 CABLES1	1
18	20715966	20716068	102 CABLES1	1
18	20716091	20716093	2 CABLES1	1
18	20716200	20716245	45 CABLES1	1
18	20716252	20716254	2 CABLES1	1
18	21269643	21269651	8 LAMA3	1
18	21898567	21898614	47 OSBPL1A	8
18	22006716	22006761	45 IMPACT	1
18	23806940	23806956	16 TAF4B	1
18	24126995	24126997	2 KCTD1	1
18	24127001	24127035	34 KCTD1	1
18	24128321	24128440	119 KCTD1	1
18	24128445	24128481	36 KCTD1	1
18	25756922	25756961	39 CDH2	1
18	33058281	33058318	37 INO80C	6
18	33767601	33767618	17 MOCOS	1
18	34298339	34298340	1 FHOD3	16
18	34298344	34298369	25 FHOD3	16
18	34409097	34409114	17 KIAA1328	1
18	42643390	42643417	27 SETBP1	5
18	42643500	42643577	77 SETBP1	5
18	43206937	43206958	21 SLC14A2	3
18	43417508	43417594	86 SIGLEC15	3
18	43417595	43417597	2 SIGLEC15	3
18	43417863	43417866	3 SIGLEC15	3
18	43684373	43684385	12 HAUS1	1
18	44561142	44561175	33 TCEB3B	1
18	44771867	44771868	1 SKOR2	2
18	44773002	44773062	60 SKOR2	1
18	44773560	44773642	82 SKOR2	1
18	44773753	44774035	282 SKOR2	1
18	44774072	44774115	43 SKOR2	1
18	44774527	44774608	81 SKOR2	1

18	44774678	44774701	23	SKOR2	1
18	44774775	44774814	39	SKOR2	1
18	47088678	47088693	15	LIPG	1
18	47313678	47313736	58	ACAA2	8
18	47455878	47455973	95	MYO5B	17
18	47721155	47721167	12	MYO5B	1
18	48723386	48723625	239	MEX3C	1
18	51750548	51750551	3	MBD2	1
18	51750726	51750909	183	MBD2	1
18	55103060	55103094	34	ONECUT2	1
18	55103185	55103258	73	ONECUT2	1
18	55309155	55309197	42	LOC100505	1
18	55315754	55315949	195	ATP8B1	27
18	56338936	56339089	153	MALT1	1
18	56936470	56936510	40	RAX	3
18	56936580	56936581	1	RAX	3
18	56940145	56940234	89	RAX	1
18	59992581	59992587	6	TNFRSF11A	1
18	59992610	59992665	55	TNFRSF11A	1
18	60190653	60190704	51	ZCCHC2	1
18	60190853	60190937	84	ZCCHC2	1
18	60382974	60383021	47	PHLPP1	1
18	60383192	60383247	55	PHLPP1	1
18	60383605	60383611	6	PHLPP1	1
18	60383644	60383647	3	PHLPP1	1
18	60383650	60383702	52	PHLPP1	1
18	60384254	60384256	2	PHLPP1	1
18	60384257	60384300	43	PHLPP1	1
18	60384302	60384330	28	PHLPP1	1
18	67788809	67788852	43	RTTN	26
18	70209327	70209374	47	CBLN2	1
18	72124292	72124295	3	FAM69C	1
18	72124298	72124407	109	FAM69C	1
18	72593036	72593037	1	ZNF407	5
18	72920800	72920801	1	ZADH2	1
18	72920994	72921018	24	ZADH2	1
18	72997830	72997857	27	TSHZ1	1
18	72997860	72997873	13	TSHZ1	1
18	74962517	74962522	5	GALR1	1
18	76740270	76740361	91	SALL3	1
18	76752279	76752354	75	SALL3	2
18	76752363	76752719	356	SALL3	2
18	76752812	76752902	90	SALL3	2
18	76752961	76752998	37	SALL3	2
18	76753578	76753809	231	SALL3	2

18	76754446	76754487	41 SALL3	2
18	76829406	76829534	128 ATP9B	1
18	77439943	77440233	290 CTD1P1	1
18	77624025	77624026	1 KCNG2	1
18	77664035	77664045	10 PQLC1	5
18	77724731	77724745	14 HSBP1L1	1
18	77724769	77724770	1 HSBP1L1	1
18	77724772	77724778	6 HSBP1L1	1
19	290947	291071	124 PPAP2C	1
19	344769	344787	18 MIER2	1
19	407488	407519	31 C2CD4C	1
19	407521	407527	6 C2CD4C	1
19	460549	460674	125 SHC2	1
19	460826	460946	120 SHC2	1
19	464126	464161	35 ODF3L2	4
19	467724	467767	43 ODF3L2	3
19	472492	472506	14 ODF3L2	2
19	497883	497990	107 MADCAM1	2
19	507506	507547	41 C19orf20	1
19	507552	507568	16 C19orf20	1
19	519187	519191	4 C19orf20	2
19	519193	519200	7 C19orf20	2
19	519201	519203	2 C19orf20	2
19	548917	548918	1 GZMM	4
19	590125	590284	159 HCN2	1
19	590369	590458	89 HCN2	1
19	590474	590582	108 HCN2	1
19	603965	603972	7 HCN2	2
19	605198	605205	7 HCN2	3
19	605206	605227	21 HCN2	3
19	614000	614021	21 HCN2	7
19	615939	615940	1 HCN2	8
19	615941	616055	114 HCN2	8
19	616233	616322	89 HCN2	8
19	616386	616479	93 HCN2	8
19	619615	619637	22 POLRMT	13
19	619767	619770	3 POLRMT	13
19	621299	621444	145 POLRMT	10
19	621449	621652	203 POLRMT	10
19	629535	629605	70 POLRMT	3
19	629618	629797	179 POLRMT	3
19	633478	633517	39 POLRMT	1
19	639965	640035	70 FGF22	1
19	640040	640041	1 FGF22	1
19	640055	640060	5 FGF22	1

19	640079	640144	65 FGF22	1
19	648367	648436	69 RNF126	8
19	648877	648909	32 RNF126	7
19	651628	651684	56 RNF126	4
19	663042	663126	84 RNF126	1
19	676426	676427	1 FSTL3	1
19	676433	676435	2 FSTL3	1
19	676469	676517	48 FSTL3	1
19	680432	680473	41 FSTL3	3
19	709142	709156	14 PALM	1
19	727003	727013	10 PALM	3
19	808371	808383	12 PTBP1	12
19	812565	812847	282 LPPR3	6
19	860664	860683	19 CFD	2
19	900852	900936	84 C19orf22	4
19	900937	900957	20 C19orf22	4
19	901425	901429	4 C19orf22	3
19	901433	901435	2 C19orf22	3
19	901438	901441	3 C19orf22	3
19	913103	913162	59 C19orf22	1
19	920078	920096	18 KISS1R	4
19	920293	920307	14 KISS1R	5
19	929585	929656	71 ARID3A	1
19	972066	972070	4 ARID3A	8
19	1000638	1000826	188 GRIN3B	1
19	1009258	1009443	185 GRIN3B	9
19	1020890	1020925	35 C19orf6	1
19	1037817	1037842	25 CNN2	7
19	1051530	1051531	1 ABCA7	20
19	1051532	1051536	4 ABCA7	20
19	1053384	1053398	14 ABCA7	23
19	1064925	1064995	70 ABCA7	45
19	1074608	1074611	3 HMHA1	9
19	1074696	1074705	9 HMHA1	9
19	1074707	1074708	1 HMHA1	9
19	1074710	1074712	2 HMHA1	9
19	1074716	1074720	4 HMHA1	9
19	1074862	1074875	13 HMHA1	10
19	1104806	1104823	17 GPX4	1
19	1108242	1108292	50 SBNO2	31
19	1108295	1108395	100 SBNO2	31
19	1108398	1108404	6 SBNO2	31
19	1108406	1108418	12 SBNO2	31
19	1108422	1108633	211 SBNO2	31
19	1111990	1112002	12 SBNO2	22

19	1147303	1147424	121 SBNO2	3
19	1154195	1154280	85 SBNO2	1
19	1220575	1220604	29 STK11	5
19	1226595	1226599	4 STK11	9
19	1226602	1226618	16 STK11	9
19	1233550	1233578	28 C19orf26	7
19	1242488	1242504	16 ATP5D	2
19	1275579	1275626	47 C19orf24	1
19	1286163	1286312	149 EFNA2	1
19	1407768	1407806	38 DAZAP1	1
19	1430258	1430268	10 DAZAP1	10
19	1430365	1430366	1 DAZAP1	10
19	1440036	1440038	2 RPS15	3
19	1453021	1453058	37 APC2	1
19	1462171	1462179	8 APC2	13
19	1465383	1465437	54 APC2	14
19	1467278	1467280	2 APC2	14
19	1467302	1467303	1 APC2	14
19	1467306	1467307	1 APC2	14
19	1468192	1468208	16 APC2	14
19	1468209	1468270	61 APC2	14
19	1468882	1468925	43 APC2	14
19	1469224	1469383	159 APC2	14
19	1469472	1469566	94 APC2	14
19	1469595	1469597	2 APC2	14
19	1469622	1469675	53 APC2	14
19	1469676	1469677	1 APC2	14
19	1481952	1481955	3 PCSK4	15
19	1483677	1483680	3 PCSK4	11
19	1483832	1483841	9 PCSK4	10
19	1490342	1490350	8 PCSK4	1
19	1508437	1508459	22 ADAMTSL5	5
19	1508460	1508464	4 ADAMTSL5	5
19	1510694	1510701	7 ADAMTSL5	2
19	1510702	1510703	1 ADAMTSL5	2
19	1555945	1556025	80 MEX3D	2
19	1567662	1567778	116 MEX3D	1
19	1567793	1567913	120 MEX3D	1
19	1619404	1619455	51 TCF3	14
19	1619778	1619784	6 TCF3	13
19	1622365	1622419	54 TCF3	8
19	1753657	1753767	110 ONECUT3	1
19	1753923	1754003	80 ONECUT3	1
19	1754011	1754012	1 ONECUT3	1
19	1754029	1754035	6 ONECUT3	1



19	1754041	1754104	63 ONECUT3	1
19	1754110	1754128	18 ONECUT3	1
19	1754233	1754237	4 ONECUT3	1
19	1754238	1754278	40 ONECUT3	1
19	1754338	1754460	122 ONECUT3	1
19	1775393	1775402	9 ONECUT3	2
19	1785542	1785544	2 ATP8B3	25
19	1823688	1823721	33 REXO1	4
19	1826986	1827004	18 REXO1	2
19	1827070	1827071	1 REXO1	2
19	1848235	1848270	35 REXO1	1
19	1854457	1854512	55 KLF16	2
19	1854514	1854515	1 KLF16	2
19	1863137	1863142	5 KLF16	1
19	1863149	1863157	8 KLF16	1
19	1863159	1863279	120 KLF16	1
19	1863415	1863501	86 KLF16	1
19	1877353	1877371	18 FAM108A1	5
19	2015463	2015500	37 BTBD2	1
19	2015623	2015707	84 BTBD2	1
19	2164179	2164204	25 DOT1L	1
19	2226198	2226200	2 DOT1L	27
19	2247871	2248095	224 SF3A2	8
19	2248242	2248310	68 SF3A2	8
19	2248497	2248498	1 SF3A2	8
19	2252330	2252332	2 JSRP1	6
19	2275908	2275915	7 C19orf35	3
19	2275919	2275990	71 C19orf35	3
19	2279024	2279062	38 C19orf35	2
19	2337628	2337629	1 SPPL2B	3
19	2344032	2344042	10 SPPL2B	10
19	2424110	2424177	67 TMPRSS9	14
19	2456836	2456876	40 LMNB2	1
19	2810456	2810478	22 THOP1	10
19	2820065	2820127	62 ZNF554	1
19	2944833	2944837	4 ZNF77	1
19	3011045	3011154	109 TLE2	12
19	3054113	3054197	84 AES	6
19	3178820	3178827	7 S1PR4	1
19	3178851	3178858	7 S1PR4	1
19	3178860	3178861	1 S1PR4	1
19	3206145	3206193	48 NCLN	11
19	3206255	3206280	25 NCLN	12
19	3286020	3286028	8 CELF5	10
19	3453860	3453879	19 NFIC	9

19	3478821	3478837	16 C19orf77	2
19	3492401	3492502	101 DOHH	3
19	3543406	3543476	70 C19orf71	2
19	3543548	3543556	8 C19orf71	3
19	3577053	3577094	41 HMG20B	7
19	3585591	3585650	59 GIPC3	1
19	3585666	3585673	7 GIPC3	1
19	3585681	3585684	3 GIPC3	1
19	3599842	3599886	44 TBXA2R	1
19	3599888	3599890	2 TBXA2R	1
19	3612374	3612391	17 C19orf29	10
19	3700290	3700393	103 PIP5K1C	1
19	3751324	3751329	5 APBA3	9
19	3751427	3751524	97 APBA3	8
19	3770944	3770946	2 RAX2	2
19	3825340	3825389	49 ZFR2	7
19	3831468	3831479	11 ZFR2	5
19	3868958	3868966	8 ZFR2	1
19	4054391	4054394	3 ZBTB7A	1
19	4054404	4054442	38 ZBTB7A	1
19	4054445	4054447	2 ZBTB7A	1
19	4123844	4123877	33 MAP2K2	1
19	4174743	4174859	116 SIRT6	8
19	4199675	4199714	39 ANKRD24	2
19	4199718	4199753	35 ANKRD24	2
19	4199761	4199763	2 ANKRD24	2
19	4217497	4217943	446 ANKRD24	17
19	4233127	4233153	26 EBI3	3
19	4237033	4237060	27 EBI3	5
19	4258348	4258387	39 CCDC94	5
19	4311974	4311980	6 FSD1	7
19	4333687	4333691	4 STAP2	3
19	4343589	4343602	13 MPND	1
19	4343700	4343801	101 MPND	2
19	4343876	4343949	73 MPND	2
19	4363807	4363813	6 SH3GL1	6
19	4363839	4363841	2 SH3GL1	6
19	4363851	4363880	29 SH3GL1	6
19	4402755	4402816	61 CHAF1A	1
19	4422768	4422797	29 CHAF1A	5
19	4452442	4452444	2 UBXN6	4
19	4452460	4452492	32 UBXN6	4
19	4501918	4501986	68 HDGFRP2	16
19	4512688	4512841	153 PLIN4	3
19	4543608	4543622	14 SEMA6B	16

19	4543632	4544140	508 SEMA6B	16
19	4544275	4544276	1 SEMA6B	16
19	4544278	4544283	5 SEMA6B	16
19	4558428	4558451	23 SEMA6B	1
19	4683040	4683133	93 LOC100131	1
19	4688786	4688788	2 DPP9	14
19	4791882	4791997	115 FEM1A	1
19	4792068	4792191	123 FEM1A	1
19	4792394	4792398	4 FEM1A	1
19	4792700	4792707	7 FEM1A	1
19	4792708	4792716	8 FEM1A	1
19	4816472	4816536	64 TICAM1	1
19	4945945	4945982	37 UHRF1	9
19	5215579	5215587	8 PTPRS	26
19	5229497	5229503	6 PTPRS	14
19	5229657	5229678	21 PTPRS	14
19	5231599	5231631	32 PTPRS	13
19	5687001	5687007	6 HSD11B1L	4
19	5783739	5783740	1 PRR22	3
19	5843876	5843881	5 FUT3	1
19	5844676	5844677	1 FUT3	1
19	5866710	5866712	2 FUT5	1
19	5866713	5866758	45 FUT5	1
19	5896459	5896465	6 NDUFA11	3
19	5904953	5904954	1 VMAC	1
19	5904981	5904982	1 VMAC	1
19	5941805	5941836	31 RANBP3	4
19	6010231	6010234	3 RFX2	8
19	6010235	6010266	31 RFX2	8
19	6040001	6040042	41 RFX2	4
19	6213963	6214054	91 MLLT1	9
19	6222380	6222435	55 MLLT1	6
19	6279779	6279800	21 MLLT1	1
19	6372869	6373040	171 ALKBH7	1
19	6424459	6424564	105 KHSRP	1
19	6424639	6424717	78 KHSRP	1
19	6433603	6433604	1 SLC25A41	1
19	6433611	6433612	1 SLC25A41	1
19	6531287	6531306	19 TNFSF9	1
19	6739768	6739801	33 TRIP10	1
19	6754384	6754402	18 SH2D3A	6
19	7293798	7293907	109 INSR	1
19	7532353	7532454	101 ARHGEF18	16
19	7532459	7532460	1 ARHGEF18	16
19	7532461	7532534	73 ARHGEF18	16

19	7565971	7565972	1 C19orf45	1
19	7571038	7571056	18 C19orf45	6
19	7584555	7584575	20 ZNF358	1
19	7585344	7585349	5 ZNF358	1
19	7585353	7585354	1 ZNF358	1
19	7587632	7587672	40 MCOLN1	1
19	7604811	7604836	25 PNPLA6	5
19	7620496	7620497	1 PNPLA6	25
19	7621578	7621582	4 PNPLA6	27
19	7671391	7671398	7 CAMSAP3	4
19	7672702	7672704	2 CAMSAP3	6
19	7678006	7678049	43 CAMSAP3	13
19	7692273	7692311	38 XAB2	4
19	7763672	7763673	1 FCER2	2
19	7795736	7795750	14 CLEC4G	5
19	7923216	7923222	6 EVI5L	12
19	7927853	7927856	3 EVI5L	17
19	7927927	7927958	31 EVI5L	17
19	7934126	7934176	50 FLJ22184	5
19	7934178	7934184	6 FLJ22184	5
19	7934289	7934291	2 FLJ22184	5
19	7934295	7934297	2 FLJ22184	5
19	7934614	7934881	267 FLJ22184	4
19	7934886	7934933	47 FLJ22184	4
19	7935191	7935221	30 FLJ22184	4
19	7935312	7935502	190 FLJ22184	4
19	7935523	7935626	103 FLJ22184	4
19	7935907	7935917	10 FLJ22184	4
19	7937065	7937110	45 FLJ22184	4
19	7968825	7968860	35 MAP2K7	1
19	7974667	7974712	45 MAP2K7	2
19	7981576	7981684	108 LOC645781	2
19	7981687	7981689	2 LOC645781	2
19	7981776	7981777	1 LOC645781	2
19	7981781	7981799	18 LOC645781	2
19	7982633	7982683	50 LOC645781	4
19	8211983	8211993	10 FBN3	2
19	8398861	8398895	34 KANK3	4
19	8399531	8399535	4 KANK3	2
19	8399540	8399725	185 KANK3	2
19	8399922	8399926	4 KANK3	2
19	8399928	8400085	157 KANK3	2
19	8400195	8400198	3 KANK3	2
19	8400201	8400214	13 KANK3	2
19	8400219	8400269	50 KANK3	2

19	8434113	8434114	1 ANGPTL4	4
19	8434115	8434120	5 ANGPTL4	4
19	8434123	8434127	4 ANGPTL4	4
19	8491660	8491667	7 2-Mar	2
19	8575787	8575800	13 ZNF414	7
19	8576670	8576754	84 ZNF414	5
19	8576755	8576756	1 ZNF414	5
19	8576759	8576765	6 ZNF414	5
19	8578923	8578935	12 ZNF414	1
19	8650094	8650096	2 ADAMTS10	22
19	8650100	8650105	5 ADAMTS10	22
19	9946056	9946083	27 PIN1	1
19	10046975	10047047	72 OLFM2	1
19	10077022	10077024	2 COL5A3	64
19	10077025	10077026	1 COL5A3	64
19	10077027	10077029	2 COL5A3	64
19	10121003	10121066	63 COL5A3	1
19	10206846	10206863	17 ANGPTL6	1
19	10206940	10207053	113 ANGPTL6	1
19	10217325	10217352	27 PPAN-P2RY	2
19	10217325	10217352	27 PPAN	2
19	10217325	10217352	27 PPAN-P2RY	2
19	10217325	10217352	27 PPAN	2
19	10334576	10334577	1 S1PR2	1
19	10334580	10334638	58 S1PR2	1
19	10370295	10370296	1 MRPL4	9
19	10400718	10400735	17 ICAM5	1
19	10407057	10407088	31 ICAM5	11
19	10431821	10431824	3 RAVR1	8
19	10431825	10431827	2 RAVR1	8
19	10431838	10431840	2 RAVR1	8
19	10431842	10431893	51 RAVR1	8
19	10654763	10654866	103 ATG4D	1
19	10685088	10685092	4 AP1M2	11
19	10798068	10798082	14 ILF3	17
19	10828914	10828950	36 DNM2	1
19	10828992	10828999	7 DNM2	1
19	10946790	10946817	27 TMED1	1
19	10982450	10982484	34 CARM1	1
19	11039552	11039597	45 C19orf52	1
19	11373068	11373121	53 DOCK6	1
19	11436069	11436088	19 RAB3D	4
19	11437465	11437511	46 TSPAN16	7
19	11437513	11437525	12 TSPAN16	7
19	11461507	11461525	18 CCDC159	5

19	11512716	11512813	97 RGL3	13
19	11537798	11537799	1 CCDC151	4
19	11537850	11537865	15 CCDC151	4
19	11553196	11553204	8 PRKCSH	6
19	11558506	11558516	10 PRKCSH	11
19	11565336	11565337	1 ELAVL3	7
19	11567920	11567938	18 ELAVL3	6
19	11616327	11616328	1 ZNF653	1
19	11616497	11616529	32 ZNF653	1
19	12768270	12768294	24 MAN2B1	11
19	12768296	12768298	2 MAN2B1	11
19	12768302	12768310	8 MAN2B1	11
19	12768312	12768313	1 MAN2B1	11
19	12876994	12877004	10 HOOK2	15
19	12877025	12877031	6 HOOK2	15
19	13002659	13002660	1 GCDH	3
19	13002672	13002673	1 GCDH	3
19	13067933	13068031	98 GADD45GIF	1
19	13211882	13211915	33 LYL1	1
19	13211918	13211925	7 LYL1	1
19	13211941	13211944	3 LYL1	1
19	13211945	13211946	1 LYL1	1
19	13211952	13211970	18 LYL1	1
19	13246689	13246717	28 NACC1	1
19	13318467	13318610	143 CACNA1A	48
19	13318773	13318781	8 CACNA1A	48
19	13318783	13318786	3 CACNA1A	48
19	13319611	13319711	100 CACNA1A	47
19	13321426	13321471	45 CACNA1A	45
19	13875697	13875766	69 MRI1	2
19	14046815	14046862	47 PODNL1	4
19	14063320	14063326	6 DCAF15	1
19	14063331	14063459	128 DCAF15	1
19	14073502	14073524	22 RFX1	20
19	14074665	14074667	2 RFX1	16
19	14074781	14074794	13 RFX1	16
19	14083645	14083659	14 RFX1	8
19	14104603	14104629	26 RFX1	1
19	14200637	14200817	180 SAMD1	2
19	14200905	14200917	12 SAMD1	1
19	14201170	14201237	67 SAMD1	1
19	14261843	14261907	64 LPHN1	23
19	14272381	14272443	62 LPHN1	6
19	14584788	14584839	51 PTGER1	1
19	14590219	14590277	58 GIPC1	4

19	14593520	14593639	119	GIPC1	1
19	14593645	14593669	24	GIPC1	1
19	14877834	14877848	14	EMR2	5
19	15220510	15220532	22	SYDE1	3
19	15288521	15288852	331	NOTCH3	24
19	15288862	15288865	3	NOTCH3	24
19	15288867	15288906	39	NOTCH3	24
19	15290901	15290919	18	NOTCH3	20
19	15291945	15291955	10	NOTCH3	18
19	15291972	15291974	2	NOTCH3	18
19	15298706	15298707	1	NOTCH3	10
19	15311594	15311654	60	NOTCH3	1
19	15353816	15353945	129	BRD4	13
19	15354021	15354066	45	BRD4	13
19	15354114	15354262	148	BRD4	13
19	15355062	15355079	17	BRD4	12
19	15355088	15355089	1	BRD4	12
19	15355092	15355103	11	BRD4	12
19	15355110	15355112	2	BRD4	12
19	15355118	15355119	1	BRD4	12
19	15355120	15355122	2	BRD4	12
19	15355137	15355144	7	BRD4	12
19	15355236	15355261	25	BRD4	12
19	15355347	15355357	10	BRD4	12
19	15366968	15366974	6	BRD4	8
19	15375454	15375460	6	BRD4	5
19	15375464	15375501	37	BRD4	5
19	15375549	15375582	33	BRD4	5
19	15376205	15376314	109	BRD4	4
19	15490932	15491071	139	AKAP8L	14
19	15491072	15491073	1	AKAP8L	14
19	15535439	15535531	92	WIZ	5
19	15564140	15564147	7	RASAL3	14
19	15568293	15568497	204	RASAL3	8
19	15568500	15568566	66	RASAL3	8
19	15575159	15575174	15	RASAL3	1
19	16436309	16436403	94	KLF2	2
19	16436512	16436642	130	KLF2	2
19	16436656	16436658	2	KLF2	2
19	16436663	16436665	2	KLF2	2
19	16436666	16436671	5	KLF2	2
19	16582719	16582750	31	EPS15L1	1
19	16582752	16582761	9	EPS15L1	1
19	16636075	16636095	20	CHERP	10
19	16640455	16640460	5	CHERP	8

19	16640470	16640523	53	CHERP	8
19	16738752	16738759	7	MED26	1
19	16772028	16772029	1	TMEM38A	1
19	16940303	16940356	53	SIN3B	1
19	16980851	16980854	3	SIN3B	14
19	16980859	16980872	13	SIN3B	14
19	16980875	16980891	16	SIN3B	14
19	17007322	17007324	2	CPAMD8	40
19	17007327	17007329	2	CPAMD8	40
19	17007330	17007443	113	CPAMD8	40
19	17008524	17008536	12	CPAMD8	39
19	17013465	17013470	5	CPAMD8	35
19	17013473	17013474	1	CPAMD8	35
19	17137479	17137598	119	CPAMD8	1
19	17322749	17322755	6	MYO9B	39
19	17346760	17346858	98	NR2F6	3
19	17355950	17356031	81	NR2F6	1
19	17379786	17379880	94	BABAM1	1
19	17434321	17434604	283	ANO8	18
19	17438041	17438100	59	ANO8	16
19	17439373	17439375	2	ANO8	13
19	17439376	17439378	2	ANO8	13
19	17439553	17439668	115	ANO8	13
19	17444494	17444613	119	ANO8	2
19	17531001	17531010	9	FAM125A	1
19	17531018	17531020	2	FAM125A	1
19	17531021	17531034	13	FAM125A	1
19	17531035	17531037	2	FAM125A	1
19	17566480	17566559	79	NXNL1	2
19	17581379	17581380	1	SLC27A1	1
19	17581389	17581391	2	SLC27A1	1
19	17612077	17612092	15	SLC27A1	11
19	17622756	17622774	18	PGLS	1
19	17666588	17666748	160	GLT25D1	1
19	17688238	17688244	6	GLT25D1	8
19	17734346	17734361	15	UNC13A	36
19	17751348	17751421	73	UNC13A	22
19	17844032	17844048	16	MAP1S	6
19	17889578	17889647	69	FCHO1	17
19	17899083	17899085	2	FCHO1	26
19	17947933	17947986	53	JAK3	12
19	18054072	18054136	64	CCDC124	3
19	18054188	18054189	1	CCDC124	3
19	18109081	18109172	91	KCNN1	9
19	18258381	18258385	4	MAST3	26



19	18260048	18260169	121	MAST3	27
19	18260222	18260237	15	MAST3	27
19	18260298	18260300	2	MAST3	27
19	18272084	18272244	160	PIK3R2	5
19	18304087	18304112	25	MPV17L2	1
19	18305630	18305668	38	MPV17L2	3
19	18331931	18331990	59	PDE4C	4
19	18391727	18391754	27	JUND	1
19	18391820	18391826	6	JUND	1
19	18392191	18392241	50	JUND	1
19	18433823	18433835	12	LSM4	1
19	18542158	18542194	36	SSBP4	6
19	18547888	18547906	18	ISYNA1	3
19	18699607	18699715	108	C19orf60	1
19	18710399	18710408	9	CRLF1	2
19	18717347	18717421	74	CRLF1	1
19	18723786	18723828	42	TMEM59L	1
19	18723922	18723944	22	TMEM59L	1
19	18747861	18747914	53	KLHL26	1
19	18879452	18879493	41	CRTC1	11
19	18887976	18887977	1	CRTC1	15
19	18900746	18900794	48	COMP	4
19	18900800	18900919	119	COMP	4
19	18979889	18980182	293	GDF1	2
19	18981084	18981102	18	GDF1	1
19	19006628	19006844	216	CERS1	1
19	19042812	19042946	134	HOMER3	6
19	19043728	19043732	4	HOMER3	5
19	19230739	19230747	8	TMEM161A	12
19	19245598	19245608	10	TMEM161A	2
19	19256773	19256803	30	MEF2BNB- <del>M</del>	7
19	19256773	19256803	30	MEF2B	8
19	19256773	19256803	30	MEF2BNB- <del>M</del>	7
19	19256773	19256803	30	MEF2B	8
19	19257125	19257127	2	MEF2B	7
19	19257128	19257157	29	MEF2B	7
19	19257885	19257887	2	MEF2BNB- <del>M</del>	4
19	19257885	19257887	2	MEF2B	4
19	19257885	19257887	2	MEF2BNB- <del>M</del>	4
19	19257885	19257887	2	MEF2B	4
19	19335848	19335859	11	NCAN	5
19	19390017	19390122	105	SUGP1	10
19	19431664	19431689	25	MAU2	1
19	19648327	19648338	11	YJEFN3	7
19	19651933	19651988	55	CILP2	4

19	19651991	19652002	11 CILP2	4
19	19729330	19729443	113 PBX4	1
19	19744654	19744784	130 GMIP	19
19	19774449	19774456	7 ATP13A1	1
19	29703921	29703970	49 UQCRFS1	1
19	30017488	30017493	5 VSTM2B	1
19	30433465	30433521	56 C19orf2	1
19	33167545	33167551	6 RGS9BP	1
19	33182862	33182957	95 NUDT19	1
19	33555685	33555763	78 RHPN2	1
19	33697895	33697908	13 LRP3	7
19	33716591	33716614	23 SLC7A10	1
19	33792775	33792831	56 CEBPA	1
19	33792849	33792954	105 CEBPA	1
19	34012645	34012655	10 PEPD	1
19	34012659	34012671	12 PEPD	1
19	34843763	34843830	67 KIAA0355	13
19	34919363	34919379	16 UBA2	1
19	34919380	34919385	5 UBA2	1
19	34972875	34972967	92 WTIP	1
19	34973109	34973195	86 WTIP	1
19	34973380	34973551	171 WTIP	1
19	35521720	35521753	33 SCN1B	1
19	35625516	35625542	26 LGI4	1
19	35758159	35758191	32 LSR	9
19	35758193	35758200	7 LSR	9
19	35760000	35760071	71 USF2	1
19	35760344	35760379	35 USF2	2
19	35760381	35760383	2 USF2	2
19	35760479	35760491	12 USF2	3
19	35760828	35760839	11 USF2	4
19	35770157	35770161	4 USF2	10
19	36002398	36002412	14 DMKN	5
19	36033264	36033282	18 GAPDHS	5
19	36048733	36048754	21 ATP4A	11
19	36168741	36168802	61 UPK1A	6
19	36209014	36209141	127 MLL4	1
19	36209184	36209288	104 MLL4	1
19	36211446	36211477	31 MLL4	3
19	36211538	36211577	39 MLL4	3
19	36224167	36224215	48 MLL4	28
19	36224220	36224266	46 MLL4	28
19	36231323	36231324	1 IGFLR1	2
19	36247729	36247772	43 HSPB6	1
19	36278853	36278908	55 ARHGAP33	21

19	36297995	36297998	3 PRODH2	6
19	36359534	36359589	55 APLP1	1
19	36359594	36359690	96 APLP1	1
19	36435817	36435873	56 LRFN3	2
19	36500227	36500295	68 ALKBH6	7
19	36500456	36500460	4 ALKBH6	7
19	36545954	36545975	21 WDR62	1
19	36631909	36632004	95 CAPNS1	1
19	36633197	36633198	1 CAPNS1	2
19	38591716	38591735	19 SIPA1L3	4
19	38684353	38684385	32 SIPA1L3	16
19	38714749	38714757	8 DPF1	1
19	38714761	38714768	7 DPF1	1
19	38714778	38714788	10 DPF1	1
19	38714837	38714840	3 DPF1	1
19	38714843	38714868	25 DPF1	1
19	38746946	38746972	26 PPP1R14A	1
19	38755528	38755555	27 SPINT2	1
19	38755627	38755643	16 SPINT2	1
19	38780912	38780925	13 SPINT2	5
19	38810618	38810678	60 KCNK6	1
19	38865319	38865323	4 PSMD8	1
19	38881034	38881086	52 SPRED3	1
19	38886349	38886404	55 SPRED3	5
19	38886763	38886773	10 SPRED3	5
19	38886775	38886778	3 SPRED3	5
19	38886782	38886788	6 SPRED3	5
19	38909199	38909203	4 RASGRP4	7
19	38957033	38957043	10 RYR1	24
19	38974076	38974130	54 RYR1	33
19	39006746	39006750	4 RYR1	65
19	39013684	39013702	18 RYR1	68
19	39055887	39056006	119 RYR1	91
19	39056010	39056052	42 RYR1	91
19	39056235	39056357	122 RYR1	91
19	39063939	39063942	3 RYR1	96
19	39079881	39079886	5 MAP4K1	31
19	39096049	39096120	71 MAP4K1	19
19	39227791	39227830	39 CAPN12	10
19	39227880	39227904	24 CAPN12	10
19	39227910	39227937	27 CAPN12	10
19	39228913	39228992	79 CAPN12	8
19	39229053	39229065	12 CAPN12	7
19	39261742	39261784	42 LGALS7	4
19	39262552	39262675	123 LGALS7	3

19	39264122	39264137	15	LGALS7	1
19	39279862	39279877	15	LGALS7B	1
19	39282215	39282268	53	LGALS7B	4
19	39330973	39331021	48	HNRNPL	8
19	39331123	39331124	1	HNRNPL	7
19	39340401	39340411	10	HNRNPL	1
19	39340469	39340475	6	HNRNPL	1
19	39340494	39340611	117	HNRNPL	1
19	39360757	39360892	135	RINL	8
19	39402702	39402742	40	LOC643669	1
19	39522852	39522871	19	FBXO27	1
19	39660329	39660337	8	PAK4	1
19	39669157	39669159	2	PAK4	8
19	39669167	39669189	22	PAK4	8
19	39687626	39687817	191	NCCRP1	1
19	39694853	39694859	6	SYCN	1
19	39906992	39906994	2	PLEKHG2	4
19	39971554	39971571	17	TIMM50	1
19	39993450	39993457	7	DLL3	4
19	39993460	39993479	19	DLL3	4
19	39993480	39993483	3	DLL3	4
19	39993485	39993517	32	DLL3	4
19	39993521	39993702	181	DLL3	4
19	40317550	40317597	47	DYRK1B	8
19	40322449	40322512	63	DYRK1B	1
19	40363251	40363261	10	FCGBP	32
19	40367841	40367879	38	FCGBP	29
19	40373949	40373951	2	FCGBP	26
19	40376899	40376901	2	FCGBP	24
19	40376933	40376934	1	FCGBP	24
19	40380258	40380327	69	FCGBP	23
19	40382278	40382338	60	FCGBP	22
19	40382687	40382688	1	FCGBP	22
19	40392631	40392769	138	FCGBP	16
19	40396090	40396254	164	FCGBP	15
19	40396256	40396392	136	FCGBP	15
19	40398188	40398355	167	FCGBP	14
19	40398471	40398515	44	FCGBP	14
19	40399782	40399860	78	FCGBP	13
19	40400245	40400316	71	FCGBP	12
19	40400355	40400506	151	FCGBP	12
19	40718740	40718745	5	MAP3K10	7
19	40719648	40719700	52	MAP3K10	9
19	40723857	40723911	54	TTC9B	1
19	40723922	40723971	49	TTC9B	1

19	40724137	40724262	125 TTC9B	1
19	40885569	40885570	1 HIPK4	4
19	40909637	40909647	10 PRX	2
19	41018717	41018751	34 SPTBN4	13
19	41018756	41018757	1 SPTBN4	13
19	41060065	41060098	33 SPTBN4	22
19	41060102	41060107	5 SPTBN4	22
19	41071598	41071626	28 SPTBN4	28
19	41073707	41073722	15 SPTBN4	30
19	41082805	41082809	4 SHKBP1	1
19	41103136	41103206	70 LTBP4	1
19	41183181	41183205	24 NUMBL	7
19	41190331	41190335	4 NUMBL	3
19	41196360	41196393	33 NUMBL	1
19	41223036	41223137	101 ITPKC	1
19	41811652	41811716	64 HNRNPUL1	14
19	41836952	41836973	21 TGFB1	7
19	41949119	41949169	50 C19orf69	1
19	41949906	41949928	22 C19orf69	2
19	42392148	42392168	20 ARHGEF1	2
19	42503088	42503259	171 GRIK5	19
19	42596326	42596352	26 POU2F2	13
19	42621444	42621507	63 POU2F2	5
19	42713948	42713964	16 DEDD2	3
19	42737433	42737440	7 GSK3A	7
19	42746390	42746530	140 GSK3A	1
19	42799182	42799300	118 CIC	20
19	42799305	42799330	25 CIC	20
19	42828884	42828886	2 TMEM145	15
19	42841333	42841337	4 MEGF8	8
19	42847760	42847765	5 MEGF8	9
19	42857216	42857233	17 MEGF8	19
19	42860987	42860991	4 MEGF8	26
19	42874397	42874406	9 MEGF8	38
19	42891582	42891632	50 CNFN	2
19	42905959	42906065	106 LIPE	10
19	44031274	44031275	1 ETHE1	1
19	44039192	44039285	93 ZNF575	2
19	44039525	44039550	25 ZNF575	2
19	44280689	44280695	6 KCNN4	2
19	45252043	45252111	68 BCL3	1
19	45252201	45252204	3 BCL3	1
19	45252211	45252224	13 BCL3	1
19	45252225	45252230	5 BCL3	1
19	45252236	45252241	5 BCL3	1

19	45252258	45252262	4 BCL3	1
19	45312377	45312398	21 BCAM	1
19	45312419	45312420	1 BCAM	1
19	45312423	45312427	4 BCAM	1
19	45385502	45385523	21 PVRL2	6
19	45389385	45389396	11 PVRL2	8
19	45394668	45394746	78 TOMM40	1
19	45394892	45394951	59 TOMM40	1
19	45397112	45397143	31 TOMM40	4
19	45397213	45397227	14 TOMM40	5
19	45397243	45397279	36 TOMM40	5
19	45397285	45397300	15 TOMM40	5
19	45397311	45397328	17 TOMM40	5
19	45412185	45412188	3 APOE	3
19	45412198	45412199	1 APOE	3
19	45412200	45412202	2 APOE	3
19	45412208	45412213	5 APOE	3
19	45412215	45412235	20 APOE	3
19	45458648	45458728	80 CLPTM1	1
19	45504833	45504868	35 RELB	1
19	45504918	45504932	14 RELB	1
19	45504947	45504948	1 RELB	1
19	45515335	45515337	2 RELB	4
19	45563872	45563873	1 CLASRP	9
19	45563874	45563876	2 CLASRP	9
19	45570590	45570668	78 CLASRP	13
19	45579413	45579434	21 ZNF296	1
19	45649118	45649135	17 LRRRC68	11
19	45656985	45657038	53 NKPD1	4
19	45661926	45661956	30 NKPD1	2
19	45661959	45661961	2 NKPD1	2
19	45661971	45661974	3 NKPD1	2
19	45682888	45682941	53 BLOC1S3	1
19	45720905	45720913	8 EXOC3L2	7
19	45721457	45721480	23 EXOC3L2	6
19	45801070	45801075	5 MARK4	15
19	45898730	45898763	33 PPP1R13L	6
19	45898815	45898870	55 PPP1R13L	6
19	45898962	45898978	16 PPP1R13L	6
19	45898979	45898983	4 PPP1R13L	6
19	46011025	46011039	14 VASP	1
19	46172774	46172807	33 GIPR	1
19	46172852	46172854	2 GIPR	1
19	46180576	46180578	2 GIPR	8
19	46181446	46181474	28 GIPR	11

19	46271762	46271766	4 SIX5	1
19	46271767	46271844	77 SIX5	1
19	46271845	46271944	99 SIX5	1
19	46271946	46271948	2 SIX5	1
19	46271957	46271960	3 SIX5	1
19	46274224	46274264	40 DMPK	13
19	46274268	46274270	2 DMPK	13
19	46296013	46296019	6 DMWD	1
19	46388724	46388791	67 IRF2BP1	1
19	46394095	46394173	78 MYPOP	2
19	46394320	46394325	5 MYPOP	2
19	46394372	46394445	73 MYPOP	2
19	46394449	46394451	2 MYPOP	2
19	46405010	46405011	1 MYPOP	1
19	46405014	46405015	1 MYPOP	1
19	46443497	46443616	119 NOVA2	4
19	46518302	46518408	106 CCDC61	7
19	46518410	46518522	112 CCDC61	7
19	46807318	46807319	1 HIF3A	2
19	46996810	46996818	8 PNMAL2	1
19	47152143	47152293	150 DACT3	4
19	47152362	47152507	145 DACT3	4
19	47152608	47152647	39 DACT3	4
19	47152661	47152662	1 DACT3	4
19	47152670	47152791	121 DACT3	4
19	47152868	47153060	192 DACT3	4
19	47164318	47164326	8 DACT3	1
19	47249580	47249692	112 STRN4	1
19	47525059	47525068	9 NPAS1	2
19	47525070	47525084	14 NPAS1	2
19	47525088	47525109	21 NPAS1	2
19	47542700	47542713	13 NPAS1	7
19	47548733	47548849	116 NPAS1	11
19	47549463	47549464	1 TMEM160	3
19	47551660	47551745	85 TMEM160	1
19	47551751	47551870	119 TMEM160	1
19	47615676	47615772	96 ZC3H4	1
19	47634187	47634205	18 SAE1	1
19	47731499	47731612	113 BBC3	2
19	47778379	47778510	131 PRR24	1
19	47922322	47922343	21 MEIS3	1
19	48184145	48184147	2 GLTSCR1	4
19	48184149	48184164	15 GLTSCR1	4
19	48184204	48184205	1 GLTSCR1	4
19	48184220	48184405	185 GLTSCR1	4

19	48185301	48185370	69	GLTSCR1	5
19	48197367	48197392	25	GLTSCR1	6
19	48197412	48197443	31	GLTSCR1	6
19	48197508	48197721	213	GLTSCR1	6
19	48197840	48197903	63	GLTSCR1	6
19	48198628	48198635	7	GLTSCR1	8
19	48204977	48205033	56	GLTSCR1	13
19	48205574	48205674	100	GLTSCR1	13
19	48257864	48257893	29	GLTSCR2	7
19	48258130	48258153	23	GLTSCR2	8
19	48258704	48258734	30	GLTSCR2	9
19	48547112	48547175	63	CABP5	1
19	48613767	48613777	10	PLA2G4C	1
19	48675330	48675339	9	C19orf68	1
19	48698171	48698172	1	C19orf68	3
19	48698175	48698185	10	C19orf68	3
19	48698196	48698197	1	C19orf68	3
19	48698636	48698677	41	C19orf68	3
19	48901645	48901739	94	GRIN2D	1
19	48901817	48902072	255	GRIN2D	1
19	48945867	48945887	20	GRIN2D	12
19	48945971	48946265	294	GRIN2D	12
19	48946296	48946416	120	GRIN2D	12
19	48946730	48946823	93	GRIN2D	12
19	48946902	48947195	293	GRIN2D	12
19	48953605	48953621	16	GRWD1	4
19	48965612	48965613	1	KCNJ14	1
19	48965637	48965638	1	KCNJ14	1
19	48965643	48965659	16	KCNJ14	1
19	48972760	48972766	6	CYTH2	1
19	48994432	48994433	1	LMTK3	15
19	48994434	48994457	23	LMTK3	15
19	48994459	48994465	6	LMTK3	15
19	48994682	48994726	44	LMTK3	14
19	48997059	48997132	73	LMTK3	13
19	48997308	48997317	9	LMTK3	13
19	48997327	48997328	1	LMTK3	13
19	49002020	49002033	13	LMTK3	12
19	49002124	49002279	155	LMTK3	12
19	49002280	49002283	3	LMTK3	12
19	49002581	49002628	47	LMTK3	12
19	49002634	49002640	6	LMTK3	12
19	49003038	49003053	15	LMTK3	12
19	49003058	49003084	26	LMTK3	12
19	49014816	49014875	59	LMTK3	2



19	49106941	49106979	38	FAM83E	4
19	49106981	49106996	15	FAM83E	4
19	49138832	49138919	87	DBP	2
19	49138921	49138923	2	DBP	2
19	49139118	49139133	15	DBP	2
19	49139146	49139147	1	DBP	2
19	49140173	49140242	69	DBP	1
19	49165139	49165144	5	NTN5	6
19	49165158	49165247	89	NTN5	6
19	49173669	49173769	100	NTN5	1
19	49242236	49242366	130	RASIP1	2
19	49362297	49362356	59	PLEKHA4	7
19	49458181	49458224	43	BAX	1
19	49519390	49519392	2	LHB	3
19	49519394	49519395	1	LHB	3
19	49519497	49519572	75	LHB	3
19	49519825	49519875	50	LHB	2
19	49519884	49519887	3	LHB	2
19	49519890	49519891	1	LHB	2
19	49519923	49519942	19	LHB	2
19	49617657	49617703	46	LIN7B	1
19	49618105	49618135	30	LIN7B	2
19	49618139	49618141	2	LIN7B	2
19	49641580	49641619	39	PPFIA3	15
19	49899021	49899026	5	CCDC155	4
19	49920288	49920290	2	CCDC155	17
19	49932010	49932017	7	LOC100507	3
19	49935835	49935838	3	SLC17A7	9
19	49935840	49935843	3	SLC17A7	9
19	50016653	50016665	12	FCGRT	1
19	50016734	50016735	1	FCGRT	1
19	50017745	50017746	1	FCGRT	3
19	50093225	50093283	58	PRRG2	5
19	50098433	50098547	114	PRR12	4
19	50098655	50098657	2	PRR12	4
19	50098658	50098719	61	PRR12	4
19	50100076	50100166	90	PRR12	4
19	50101186	50101187	1	PRR12	4
19	50104966	50105023	57	PRR12	6
19	50139111	50139114	3	RRAS	5
19	50143294	50143322	28	RRAS	1
19	50154289	50154316	27	SCAF1	6
19	50155053	50155054	1	SCAF1	6
19	50155055	50155140	85	SCAF1	6
19	50155143	50155313	170	SCAF1	6

19	50173587	50173592	5 BCL2L12	6
19	50333399	50333401	2 MED25	7
19	50333404	50333414	10 MED25	7
19	50354663	50354761	98 PTOV1	1
19	50364866	50364878	12 PNKP	14
19	50365623	50365634	11 PNKP	10
19	50391740	50391750	10 TBC1D17	17
19	50393623	50393640	17 IL4I1	7
19	50435837	50435854	17 ATF5	2
19	50435921	50435958	37 ATF5	2
19	50462636	50462678	42 SIGLEC11	5
19	50464258	50464261	3 SIGLEC11	1
19	50464265	50464266	1 SIGLEC11	1
19	50771439	50771533	94 MYH14	23
19	50775912	50775946	34 MYH14	26
19	50784872	50784891	19 MYH14	32
19	50794142	50794143	1 MYH14	35
19	50823498	50823526	28 KCNC3	4
19	50823554	50823591	37 KCNC3	4
19	50823595	50823611	16 KCNC3	4
19	50823850	50823851	1 KCNC3	3
19	50826227	50826228	1 KCNC3	2
19	50826283	50826284	1 KCNC3	2
19	50826289	50826294	5 KCNC3	2
19	50826312	50826314	2 KCNC3	2
19	50826327	50826481	154 KCNC3	2
19	50831465	50831542	77 KCNC3	1
19	50831589	50831711	122 KCNC3	1
19	50832094	50832141	47 KCNC3	1
19	50832226	50832344	118 KCNC3	1
19	50902163	50902196	33 POLD1	1
19	50905975	50905984	9 POLD1	7
19	50918976	50919087	111 POLD1	21
19	50979816	50979880	64 C19orf63	1
19	51021390	51021408	18 LRRC4B	2
19	51052089	51052100	11 LRRC4B	1
19	51170907	51170911	4 SHANK1	22
19	51170912	51171120	208 SHANK1	22
19	51171263	51171273	10 SHANK1	22
19	51171278	51171280	2 SHANK1	22
19	51171627	51171683	56 SHANK1	22
19	51171783	51171826	43 SHANK1	22
19	51172001	51172005	4 SHANK1	22
19	51172006	51172177	171 SHANK1	22
19	51172195	51172362	167 SHANK1	22

19	51172364	51172368	4 SHANK1	22
19	51226780	51226800	20 CLEC11A	1
19	51226803	51226810	7 CLEC11A	1
19	51226816	51226818	2 CLEC11A	1
19	51226857	51226881	24 CLEC11A	1
19	51226902	51226903	1 CLEC11A	1
19	51294026	51294122	96 ACPT	3
19	51295350	51295359	9 ACPT	5
19	51512441	51512449	8 KLK9	2
19	51602084	51602090	6 CTU1	2
19	51815158	51815185	27 IGLON5	1
19	51831084	51831145	61 IGLON5	7
19	51843315	51843464	149 VSIG10L	4
19	51919179	51919217	38 SIGLEC10	5
19	51919415	51919416	1 SIGLEC10	5
19	52146646	52146655	9 SIGLEC14	7
19	52149214	52149318	104 SIGLEC14	3
19	52149643	52149808	165 SIGLEC14	2
19	52149824	52149898	74 SIGLEC14	2
19	52149971	52150017	46 SIGLEC14	1
19	53552500	53552696	196 ERVV-2	1
19	53552703	53552859	156 ERVV-2	1
19	54485625	54485657	32 CACNG8	4
19	54485905	54486108	203 CACNG8	4
19	54599344	54599360	16 OSCAR	5
19	54627150	54627157	7 PRPF31	6
19	54631456	54631580	124 PRPF31	9
19	54631675	54631757	82 PRPF31	10
19	54656627	54656638	11 CNOT3	15
19	54664199	54664226	27 TMC4	14
19	54664736	54664773	37 TMC4	13
19	54664922	54664941	19 TMC4	12
19	54666405	54666416	11 TMC4	10
19	54672169	54672226	57 TMC4	4
19	54672229	54672231	2 TMC4	4
19	54676757	54676815	58 TMC4	1
19	54684734	54684793	59 MBOAT7	5
19	54684798	54684855	57 MBOAT7	5
19	54695211	54695221	10 TSEN34	1
19	54695228	54695353	125 TSEN34	1
19	54697080	54697103	23 TSEN34	4
19	54711261	54711292	31 RPS9	4
19	54724020	54724080	60 LILRB3	7
19	54725695	54725820	125 LILRB3	4
19	54726225	54726366	141 LILRB3	3

19	54726375	54726439	64	LILRB3	3
19	54743821	54743824	3	LILRA6	7
19	54743825	54743832	7	LILRA6	7
19	54744360	54744362	2	LILRA6	6
19	54744378	54744396	18	LILRA6	6
19	54744405	54744406	1	LILRA6	6
19	54745447	54745548	101	LILRA6	4
19	54746040	54746078	38	LILRA6	3
19	54746406	54746411	5	LILRA6	2
19	54746583	54746605	22	LILRA6	1
19	54754793	54754801	8	LILRB5	13
19	54756228	54756271	43	LILRB5	11
19	54756344	54756417	73	LILRB5	10
19	54781400	54781419	19	LILRB2	8
19	54783358	54783388	30	LILRB2	4
19	54849432	54849436	4	LILRA4	4
19	54849442	54849511	69	LILRA4	4
19	54867558	54867620	62	LAIR1	9
19	54933402	54933437	35	TTYH1	4
19	54946752	54946832	80	TTYH1	11
19	54962517	54962564	47	LENG8	1
19	54965623	54965661	38	LENG8	5
19	54965662	54965671	9	LENG8	5
19	54965674	54965676	2	LENG8	5
19	54965685	54965692	7	LENG8	5
19	54965722	54965866	144	LENG8	5
19	54966579	54966607	28	LENG8	7
19	54973275	54973292	17	LENG9	1
19	54973977	54974006	29	LENG9	1
19	54974292	54974349	57	LENG9	1
19	54974487	54974488	1	LENG9	1
19	54974492	54974573	81	LENG9	1
19	54974579	54974776	197	LENG9	1
19	54974778	54974780	2	LENG9	1
19	54976470	54976509	39	CDC42EP5	1
19	54976582	54976593	11	CDC42EP5	1
19	55143062	55143087	25	LILRB1	3
19	55143427	55143503	76	LILRB1	4
19	55175027	55175030	3	LILRB4	2
19	55176245	55176277	32	LILRB4	5
19	55176576	55176603	27	LILRB4	6
19	55176608	55176609	1	LILRB4	6
19	55239218	55239224	6	KIR3DL3	4
19	55246715	55246759	44	KIR3DL3	6
19	55315341	55315386	45	KIR2DL4	2

19	55316324	55316331	7 KIR2DL4	3
19	55317441	55317463	22 KIR2DL4	4
19	55317665	55317674	9 KIR2DL4	4
19	55324575	55324676	101 KIR2DL4	6
19	55327957	55327994	37 KIR3DL1	1
19	55328984	55329019	35 KIR3DL1	2
19	55329838	55329958	120 KIR3DL1	3
19	55350906	55350991	85 KIR2DS4	4
19	55361932	55361969	37 KIR3DL2	1
19	55362683	55362715	32 KIR3DL2	2
19	55396888	55396942	54 FCAR	3
19	55441862	55442039	177 NLRP7	8
19	55451790	55451839	49 NLRP7	3
19	55481665	55481668	3 NLRP2	1
19	55587814	55587834	20 EPS8L1	1
19	55592135	55592143	8 EPS8L1	6
19	55592594	55592689	95 EPS8L1	7
19	55592835	55592865	30 EPS8L1	7
19	55593935	55593937	2 EPS8L1	11
19	55623845	55623908	63 PPP1R12C	3
19	55628633	55628635	2 PPP1R12C	1
19	55628639	55628643	4 PPP1R12C	1
19	55628649	55628818	169 PPP1R12C	1
19	55658044	55658047	3 TNNT1	3
19	55668415	55668426	11 TNNT3	3
19	55672766	55672791	25 C19orf51	7
19	55673023	55673033	10 C19orf51	6
19	55673034	55673041	7 C19orf51	6
19	55684871	55684899	28 SYT5	8
19	55684908	55684909	1 SYT5	8
19	55742137	55742216	79 PPP6R1	21
19	55742218	55742256	38 PPP6R1	21
19	55785808	55785809	1 HSPBP1	3
19	55795836	55795951	115 BRSK1	1
19	55816032	55816270	238 BRSK1	14
19	55823345	55823437	92 BRSK1	19
19	55858319	55858437	118 SUV420H2	8
19	55858443	55858489	46 SUV420H2	8
19	55865335	55865339	4 COX6B2	2
19	55870731	55870789	58 FAM71E2	9
19	55873941	55873942	1 FAM71E2	2
19	55873943	55873945	2 FAM71E2	2
19	55895092	55895169	77 TMEM238	1
19	55895255	55895288	33 TMEM238	1
19	55895465	55895609	144 TMEM238	1

19	55912857	55912876	19	UBE2S	4
19	55912882	55912890	8	UBE2S	4
19	55912918	55912927	9	UBE2S	4
19	55912930	55912947	17	UBE2S	4
19	55944641	55944694	53	SHISA7	4
19	55944745	55944798	53	SHISA7	4
19	55953773	55953799	26	SHISA7	1
19	55954012	55954022	10	SHISA7	1
19	55954112	55954235	123	SHISA7	1
19	55993243	55993406	163	ZNF628	1
19	55993535	55993735	200	ZNF628	1
19	55993796	55993893	97	ZNF628	1
19	55998170	55998251	81	NAT14	2
19	56000368	56000404	36	SSC5D	2
19	56000788	56000800	12	SSC5D	3
19	56029269	56029358	89	SSC5D	14
19	56029552	56029562	10	SSC5D	14
19	56056249	56056318	69	SGK110	2
19	56089593	56089595	2	ZNF579	1
19	56089596	56089648	52	ZNF579	1
19	56089654	56089779	125	ZNF579	1
19	56089782	56089785	3	ZNF579	1
19	56089830	56089845	15	ZNF579	1
19	56089847	56089851	4	ZNF579	1
19	56089853	56089895	42	ZNF579	1
19	56090885	56090925	40	ZNF579	1
19	56090929	56090954	25	ZNF579	1
19	56090962	56090964	2	ZNF579	1
19	56104163	56104171	8	FIZ1	2
19	56104458	56104460	2	FIZ1	2
19	56104462	56104470	8	FIZ1	2
19	56104472	56104482	10	FIZ1	2
19	56104729	56104781	52	FIZ1	2
19	56104782	56104784	2	FIZ1	2
19	56104785	56104787	2	FIZ1	2
19	56104790	56104791	1	FIZ1	2
19	56104792	56104794	2	FIZ1	2
19	56113997	56114002	5	ZNF524	1
19	56125777	56125829	52	ZNF865	1
19	56126352	56126354	2	ZNF865	1
19	56126357	56126424	67	ZNF865	1
19	56126426	56126523	97	ZNF865	1
19	56133178	56133269	91	ZNF784	2
19	56133752	56133793	41	ZNF784	2
19	56171877	56171881	4	U2AF2	4

19	56185406	56185416	10 U2AF2	12
19	56203371	56203372	1 EPN1	7
19	56283434	56283461	27 LOC729974	1
19	56283963	56283978	15 LOC729974	2
19	56599433	56599466	33 ZNF787	2
19	56599597	56599605	8 ZNF787	2
19	56599609	56599709	100 ZNF787	2
19	56599792	56599794	2 ZNF787	2
19	56600394	56600396	2 ZNF787	2
19	56658276	56658385	109 ZNF444	1
19	56658485	56658496	11 ZNF444	1
19	56658499	56658501	2 ZNF444	1
19	56658502	56658582	80 ZNF444	1
19	56671545	56671548	3 ZNF444	3
19	56671552	56671563	11 ZNF444	3
19	56671565	56671575	10 ZNF444	3
19	58421079	58421081	2 ZNF417	3
19	58549230	58549234	4 ZSCAN1	1
19	58861897	58861899	2 A1BG	6
19	58861901	58862000	99 A1BG	6
19	58907792	58907829	37 LOC646862	1
19	58907871	58907873	2 LOC646862	1
19	58907891	58907932	41 LOC646862	1
19	59027951	59028026	75 ZBTB45	1
19	59028621	59028623	2 ZBTB45	1
19	59056144	59056253	109 TRIM28	1
19	59056401	59056411	10 TRIM28	1
19	59056417	59056418	1 TRIM28	1
20	278603	278640	37 ZCCHC3	1
20	278644	278649	5 ZCCHC3	1
20	306617	306631	14 SOX12	1
20	401510	401521	11 RBCK1	7
20	401522	401524	2 RBCK1	7
20	442975	443054	79 TBC1D20	1
20	590638	590706	68 TCF15	1
20	590747	590759	12 TCF15	1
20	590861	590862	1 TCF15	1
20	590863	590876	13 TCF15	1
20	633754	633766	12 SRXN1	1
20	644783	644809	26 SCRT2	2
20	644858	644878	20 SCRT2	2
20	1579465	1579587	122 SIRPB1	5
20	1584451	1584506	55 SIRPB1	4
20	1584577	1584729	152 SIRPB1	4
20	1585383	1585531	148 SIRPB1	3

20	1591998	1592037	39 SIRPB1	2
20	1592229	1592349	120 SIRPB1	2
20	1876089	1876110	21 SIRPA	1
20	1876116	1876119	3 SIRPA	1
20	2082774	2082792	18 STK35	1
20	2375141	2375143	2 TGM6	2
20	2380229	2380288	59 TGM6	6
20	2673787	2673799	12 EBF4	1
20	2674302	2674433	131 EBF4	2
20	2732780	2732914	134 EBF4	14
20	2732998	2733135	137 EBF4	15
20	2781194	2781223	29 CPXM1	1
20	2844632	2844634	2 VPS16	16
20	3063315	3063331	16 AVP	3
20	3063358	3063362	4 AVP	3
20	3063618	3063671	53 AVP	2
20	3063697	3063699	2 AVP	2
20	3145374	3145402	28 ProSAPiP1	3
20	3145405	3145406	1 ProSAPiP1	3
20	3210243	3210244	1 SLC4A11	14
20	3388119	3388209	90 C20orf194	1
20	3451808	3451809	1 ATRN	1
20	3451815	3451816	1 ATRN	1
20	3451823	3451832	9 ATRN	1
20	3451839	3451841	2 ATRN	1
20	3452067	3452115	48 ATRN	1
20	3641542	3641543	1 GFRA4	2
20	3651648	3651652	4 ADAM33	19
20	3766629	3766630	1 CENPB	1
20	3777174	3777255	81 CDC25B	1
20	3869744	3869745	1 PANK2	1
20	3870308	3870311	3 PANK2	1
20	3870317	3870319	2 PANK2	1
20	3870334	3870336	2 PANK2	1
20	5892320	5892333	13 CHGB	1
20	5924803	5924871	68 TRMT6	4
20	5987098	5987099	1 CRLS1	1
20	5987101	5987109	8 CRLS1	1
20	5987126	5987203	77 CRLS1	1
20	8000186	8000214	28 TMX4	1
20	13202497	13202566	69 ISM1	1
20	17929584	17929599	15 SNX5	10
20	18568712	18568764	52 DTD1	1
20	20349396	20349465	69 INSM1	1
20	21376762	21376866	104 NKX2-4	2



20	21377862	21377870	8 NKX2-4	1
20	21686494	21686501	7 PAX1	1
20	21686503	21686521	18 PAX1	1
20	21686524	21686586	62 PAX1	1
20	21689927	21690035	108 PAX1	4
20	22562950	22562969	19 FOXA2	2
20	23402039	23402044	5 NAPB	1
20	23618395	23618504	109 CST3	1
20	25038698	25038706	8 ACSS1	1
20	25062311	25062525	214 VSX1	1
20	25371144	25371161	17 ABHD12	1
20	25371323	25371339	16 ABHD12	1
20	30156918	30156926	8 HM13	13
20	30156927	30156929	2 HM13	13
20	30449415	30449455	40 DUSP15	7
20	30555974	30556055	81 XKR7	1
20	30556482	30556484	2 XKR7	1
20	30556486	30556487	1 XKR7	1
20	30556490	30556496	6 XKR7	1
20	30556499	30556510	11 XKR7	1
20	30584303	30584306	3 XKR7	3
20	30606775	30606895	120 C20orf160	5
20	30607061	30607146	85 C20orf160	5
20	30785139	30785149	10 PLAGL2	2
20	30785150	30785156	6 PLAGL2	2
20	31035523	31035527	4 C20orf112	7
20	31035531	31035624	93 C20orf112	7
20	31331109	31331202	93 COMMD7	1
20	32031118	32031135	17 SNTA1	1
20	32031156	32031162	6 SNTA1	1
20	32031164	32031254	90 SNTA1	1
20	32031261	32031396	135 SNTA1	1
20	32245639	32245668	29 NECAB3	12
20	32247496	32247521	25 NECAB3	8
20	32273855	32274039	184 E2F1	1
20	33033087	33033108	21 ITCH	9
20	33169347	33169352	5 PIGU	10
20	33297944	33297958	14 TP53INP2	3
20	33297962	33297965	3 TP53INP2	3
20	33464572	33464619	47 ACSS2	1
20	33583134	33583139	5 MYH7B	26
20	33584914	33584918	4 MYH7B	29
20	33584919	33584920	1 MYH7B	29
20	33584921	33584924	3 MYH7B	29
20	33585089	33585182	93 MYH7B	30

20	33585270	33585301	31 MYH7B	30
20	33588925	33588926	1 MYH7B	39
20	33588932	33588933	1 MYH7B	39
20	33879982	33880090	108 FAM83C	1
20	33880102	33880112	10 FAM83C	1
20	34287125	34287215	90 NFS1	1
20	34313047	34313082	35 RBM39	6
20	35064536	35064537	1 DLGAP4	2
20	35491233	35491271	38 KIAA0889	1
20	35491277	35491282	5 KIAA0889	1
20	35491283	35491287	4 KIAA0889	1
20	35491616	35491620	4 KIAA0889	1
20	35491622	35491752	130 KIAA0889	1
20	35807765	35807802	37 C20orf132	1
20	35807765	35807802	37 RPN2	1
20	35807765	35807777	12 C20orf132	1
20	35807765	35807777	12 RPN2	1
20	36012646	36012651	5 SRC	1
20	36026097	36026123	26 SRC	6
20	36026134	36026151	17 SRC	6
20	36026211	36026223	12 SRC	6
20	36026228	36026231	3 SRC	6
20	36026244	36026262	18 SRC	6
20	36572566	36572622	56 VSTM2L	4
20	36776383	36776418	35 TGM2	5
20	36874475	36874479	4 KIAA1755	2
20	36874480	36874483	3 KIAA1755	2
20	37230581	37230670	89 ARHGAP40	1
20	37377117	37377151	34 ACTR5	1
20	37377170	37377211	41 ACTR5	1
20	37377262	37377292	30 ACTR5	1
20	37377298	37377347	49 ACTR5	1
20	39657726	39657727	1 TOP1	1
20	39657733	39657745	12 TOP1	1
20	39995244	39995279	35 EMILIN3	1
20	40041977	40042096	119 CHD6	34
20	40042102	40042154	52 CHD6	34
20	41818281	41818378	97 PTPRT	1
20	42087098	42087154	56 SRSF6	2
20	42295919	42295948	29 MYBL2	1
20	42543584	42543635	51 TOX2	1
20	42694736	42694752	16 TOX2	7
20	42788857	42788858	1 JPH2	2
20	42788862	42788864	2 JPH2	2
20	42788865	42788868	3 JPH2	2

20	42788882	42788886	4 JPH2	2
20	42788890	42788894	4 JPH2	2
20	44420719	44420727	8 DNTTIP1	1
20	44420746	44420753	7 DNTTIP1	1
20	44594298	44594312	14 ZNF335	6
20	44650445	44650530	85 SLC12A5	1
20	44838982	44839004	22 CDH22	6
20	45174957	45174968	11 C20orf123	2
20	45280015	45280065	50 SLC13A3	1
20	45357997	45357998	1 SLC2A10	4
20	45358005	45358006	1 SLC2A10	4
20	46305355	46305372	17 SULF2	9
20	47444365	47444402	37 PREX1	1
20	48098876	48098881	5 KCNB1	1
20	48098884	48098913	29 KCNB1	1
20	48098914	48098921	7 KCNB1	1
20	48099006	48099022	16 KCNB1	1
20	48184575	48184653	78 PTGIS	1
20	48770152	48770179	27 TMEM189-I	1
20	48770152	48770179	27 TMEM189	1
20	48770152	48770179	27 TMEM189-I	1
20	48770152	48770179	27 TMEM189	1
20	48807736	48807740	4 CEBPB	1
20	48807741	48807743	2 CEBPB	1
20	48807745	48807753	8 CEBPB	1
20	48808060	48808088	28 CEBPB	1
20	49411526	49411542	16 BCAS4	1
20	50418813	50418861	48 SALL4	1
20	52830960	52831002	42 PFDN4	2
20	54934057	54934252	195 C20orf108	1
20	55206594	55206642	48 TFAP2C	2
20	55206643	55206644	1 TFAP2C	2
20	57268094	57268111	17 NPEPL1	1
20	57429673	57429693	20 GNAS	1
20	57429697	57429701	4 GNAS	1
20	57556333	57556339	6 TH1L	1
20	57582036	57582188	152 CTSZ	1
20	58180176	58180192	16 PHACTR3	1
20	58440857	58440925	68 SYCP2	40
20	58514754	58514969	215 PPP1R3D	1
20	59827565	59827631	66 CDH4	1
20	60578904	60578907	3 TAF4	8
20	60578912	60578913	1 TAF4	8
20	60639713	60639715	2 TAF4	1
20	60639719	60639722	3 TAF4	1

20	60639729	60639834	105 TAF4	1
20	60640135	60640245	110 TAF4	1
20	60640261	60640308	47 TAF4	1
20	60640654	60640707	53 TAF4	1
20	60791473	60791522	49 HRH3	3
20	60884387	60884536	149 LAMA5	80
20	60897709	60897819	110 LAMA5	46
20	60908194	60908217	23 LAMA5	26
20	60909585	60909596	11 LAMA5	21
20	60909600	60909614	14 LAMA5	21
20	60909619	60909631	12 LAMA5	21
20	60909633	60909642	9 LAMA5	21
20	60942157	60942238	81 LAMA5	1
20	60942260	60942306	46 LAMA5	1
20	60981966	60981969	3 CABLES2	1
20	60981988	60981996	8 CABLES2	1
20	60981997	60981999	2 CABLES2	1
20	60982002	60982048	46 CABLES2	1
20	60982121	60982129	8 CABLES2	1
20	60982208	60982210	2 CABLES2	1
20	60982214	60982241	27 CABLES2	1
20	60982284	60982337	53 CABLES2	1
20	60988452	60988455	3 C20orf151	10
20	61050264	61050266	2 GATA5	1
20	61050273	61050286	13 GATA5	1
20	61050289	61050290	1 GATA5	1
20	61050293	61050297	4 GATA5	1
20	61050303	61050305	2 GATA5	1
20	61427871	61427928	57 C20orf20	1
20	61427931	61427941	10 C20orf20	1
20	61436207	61436223	16 OGFR	1
20	61436317	61436387	70 OGFR	1
20	61448412	61448431	19 COL9A3	1
20	61448432	61448438	6 COL9A3	1
20	61448462	61448499	37 COL9A3	1
20	61450640	61450650	10 COL9A3	4
20	61492430	61492610	180 TCFL5	1
20	61492654	61492655	1 TCFL5	1
20	61492663	61492664	1 TCFL5	1
20	61492675	61492679	4 TCFL5	1
20	61492689	61492690	1 TCFL5	1
20	61492692	61492701	9 TCFL5	1
20	61492939	61492948	9 TCFL5	1
20	61584178	61584246	68 SLC17A9	1
20	61637748	61637782	34 BHLHE23	1

20	61637843	61638051	208 BHLHE23	1
20	61638073	61638076	3 BHLHE23	1
20	61638079	61638083	4 BHLHE23	1
20	61885779	61885807	28 NKAIN4	1
20	61959426	61959438	12 COL20A1	32
20	61992447	61992448	1 CHRNA4	1
20	61992483	61992522	39 CHRNA4	1
20	62038317	62038345	28 KCNQ2	17
20	62124523	62124527	4 EEF1A2	4
20	62175626	62175633	7 SRMS	2
20	62175639	62175695	56 SRMS	2
20	62190672	62190676	4 PRIC285	19
20	62190677	62190694	17 PRIC285	19
20	62194764	62194791	27 PRIC285	8
20	62197726	62197811	85 PRIC285	7
20	62198627	62198629	2 PRIC285	6
20	62226979	62226981	2 GMEB2	5
20	62319007	62319025	18 RTEL1	16
20	62369169	62369184	15 LIME1	2
20	62371261	62371294	33 SLC2A4RG	1
20	62371725	62371889	164 SLC2A4RG	2
20	62373821	62373822	1 SLC2A4RG	6
20	62373823	62373874	51 SLC2A4RG	6
20	62594793	62594794	1 ZNF512B	10
20	62594796	62594798	2 ZNF512B	10
20	62679811	62679822	11 SOX18	2
20	62679823	62679915	92 SOX18	2
20	62680050	62680071	21 SOX18	2
20	62680073	62680074	1 SOX18	2
20	62680076	62680078	2 SOX18	2
20	62680079	62680081	2 SOX18	2
20	62680082	62680084	2 SOX18	2
20	62680086	62680088	2 SOX18	2
20	62680703	62680729	26 SOX18	1
20	62680789	62680874	85 SOX18	1
20	62714895	62714907	12 C20orf201	2
20	62715062	62715063	1 C20orf201	2
20	62715166	62715278	112 C20orf201	1
20	62715280	62715282	2 C20orf201	1
20	62715400	62715405	5 C20orf201	1
20	62715409	62715415	6 C20orf201	1
20	62715433	62715455	22 C20orf201	1
20	62715457	62715459	2 C20orf201	1
20	62715462	62715466	4 C20orf201	1
21	19751595	19751640	45 Tmprss15	5

21	30255397	30255398	1 N6AMT1	2
21	32496856	32496862	6 TIAM1	24
21	33057357	33057373	16 SCAF4	19
21	33984553	33984554	1 C21orf59	1
21	34143842	34143905	63 GCFC1	1
21	34399737	34399761	24 OLIG2	1
21	34399850	34399868	18 OLIG2	1
21	34400069	34400147	78 OLIG2	1
21	34443145	34443300	155 OLIG1	1
21	34775845	34775927	82 IFNGR2	1
21	34927469	34927487	18 SON	3
21	34960713	34960952	239 DONSON	1
21	36041751	36042128	377 CLIC6	1
21	36042177	36042323	146 CLIC6	1
21	36042419	36042560	141 CLIC6	1
21	37612235	37612248	13 DOPEY2	17
21	38119961	38120049	88 SIM2	11
21	38120119	38120241	122 SIM2	11
21	38120306	38120334	28 SIM2	11
21	38120336	38120339	3 SIM2	11
21	38379068	38379181	113 DSCR6	1
21	38498375	38498388	13 TTC3	14
21	38569962	38570002	40 TTC3	42
21	40553693	40553701	8 PSMG1	2
21	40553709	40553710	1 PSMG1	2
21	40553711	40553719	8 PSMG1	2
21	40684762	40684773	11 BRWD1	4
21	40684779	40684831	52 BRWD1	4
21	40684993	40685013	20 BRWD1	3
21	40685025	40685026	1 BRWD1	3
21	40720824	40720848	24 HMGN1	1
21	42540186	42540292	106 BACE2	1
21	42551439	42551444	5 PLAC4	1
21	42688806	42688830	24 FAM3B	1
21	43279173	43279212	39 PRDM15	10
21	43299105	43299122	17 PRDM15	2
21	43362251	43362359	108 C2CD2	2
21	43373728	43373762	34 C2CD2	1
21	43733591	43733594	3 TFF3	2
21	44581194	44581247	53 LOC100288	1
21	44836928	44836944	16 SIK1	13
21	44838927	44838931	4 SIK1	10
21	45053303	45053307	4 HSF2BP	4
21	45196080	45196086	6 CSTB	1
21	45660682	45660685	3 ICOSLG	1

21	45660692	45660693	1 ICOSLG	1
21	45670806	45670837	31 DNMT3L	9
21	45706979	45706980	1 AIRE	3
21	45706981	45707001	20 AIRE	3
21	45719984	45720078	94 PFKL	1
21	45826647	45826653	6 TRPM2	19
21	45844825	45844827	2 TRPM2	24
21	45845548	45845577	29 TRPM2	25
21	46237858	46237888	30 SUMO3	1
21	46360051	46360079	28 FAM207A	1
21	46604426	46604513	87 ADARB1	6
21	46895385	46895410	25 COL18A1	4
21	46906808	46906911	103 COL18A1	15
21	46929331	46929421	90 COL18A1	38
21	46929426	46929428	2 COL18A1	38
21	47558428	47558456	28 FTCD	12
21	47565752	47565866	114 FTCD	9
21	47722055	47722073	18 C21orf58	8
21	47808795	47808804	9 PCNT	18
21	47817923	47818024	101 PCNT	23
21	47818029	47818040	11 PCNT	23
21	47818144	47818174	30 PCNT	24
21	47974730	47974749	19 DIP2A	28
21	48081835	48081853	18 PRMT2	8
22	17264600	17264602	2 XKR3	3
22	17264871	17264951	80 XKR3	3
22	17265119	17265271	152 XKR3	3
22	17590104	17590110	6 IL17RA	13
22	17590119	17590120	1 IL17RA	13
22	17590135	17590140	5 IL17RA	13
22	17590146	17590200	54 IL17RA	13
22	17590204	17590206	2 IL17RA	13
22	17601496	17601520	24 CECR6	1
22	17601569	17602022	453 CECR6	1
22	17640011	17640063	52 CECR5	1
22	17640089	17640146	57 CECR5	1
22	18301037	18301070	33 MICAL3	25
22	18900683	18900725	42 PRODH	14
22	18923624	18923788	164 PRODH	1
22	19137384	19137434	50 GSC2	2
22	19137629	19137751	122 GSC2	1
22	19462613	19462628	15 UFD1L	3
22	19711898	19711992	94 GP1BB	2
22	19748463	19748488	25 TBX1	2
22	19753907	19753965	58 TBX1	8

22	19754044	19754096	52	TBX1	8
22	19929233	19929298	65	TXNRD2	1
22	20105168	20105192	24	RANBP1	1
22	20134699	20134729	30	ZDHHC8	11
22	20378048	20378148	100	TMEM191B	1
22	20378516	20378554	38	TMEM191B	2
22	20378679	20378725	46	TMEM191B	3
22	20378881	20378965	84	TMEM191B	4
22	20379798	20379827	29	TMEM191B	7
22	20380042	20380068	26	TMEM191B	8
22	20380117	20380221	104	TMEM191B	9
22	20780543	20780544	1	SCARF2	11
22	20780547	20780549	2	SCARF2	11
22	20785300	20785351	51	SCARF2	4
22	20909273	20909274	1	MED15	5
22	21065624	21065674	50	PI4KA	50
22	21088344	21088434	90	PI4KA	33
22	21370274	21370278	4	P2RX6	2
22	21370280	21370282	2	P2RX6	2
22	21370290	21370293	3	P2RX6	2
22	21576362	21576428	66	GGT2	2
22	21576443	21576508	65	GGT2	2
22	21797116	21797126	10	HIC2	1
22	21821808	21821908	100	TMEM191C	1
22	21822178	21822223	45	TMEM191C	2
22	21822230	21822311	81	TMEM191C	2
22	21822436	21822482	46	TMEM191C	3
22	21822687	21822725	38	TMEM191C	4
22	21823558	21823587	29	TMEM191C	7
22	21823797	21823828	31	TMEM191C	8
22	21823901	21824005	104	TMEM191C	9
22	21984199	21984200	1	YDJC	1
22	21984204	21984207	3	YDJC	1
22	21984213	21984308	95	YDJC	1
22	21996621	21996642	21	SDF2L1	1
22	21996655	21996659	4	SDF2L1	1
22	21997213	21997214	1	SDF2L1	2
22	23523426	23523497	71	BCR	1
22	24108423	24108462	39	CHCHD10	3
22	24109628	24109644	16	CHCHD10	2
22	24109646	24109647	1	CHCHD10	2
22	24109657	24109659	2	CHCHD10	2
22	24109662	24109665	3	CHCHD10	2
22	24109671	24109675	4	CHCHD10	2
22	24109677	24109785	108	CHCHD10	2



22	24115053	24115117	64 MMP11	1
22	24115154	24115170	16 MMP11	1
22	24224641	24224670	29 SLC2A11	7
22	24284783	24284855	72 LOC100652	4
22	24284868	24284990	122 LOC100652	4
22	24302477	24302573	96 GSTT2B	2
22	24309098	24309132	34 DDTL	1
22	24309569	24309638	69 DDTL	2
22	24316072	24316137	65 DDT	2
22	24325181	24325240	59 GSTT2	4
22	24373192	24373250	58 LOC391322	1
22	24373605	24373658	53 LOC391322	2
22	24373739	24373855	116 LOC391322	2
22	24376418	24376569	151 GSTT1	5
22	24376817	24376974	157 GSTT1	4
22	24379386	24379516	130 GSTT1	3
22	24381695	24381792	97 GSTT1	2
22	24384115	24384192	77 GSTT1	1
22	24384196	24384236	40 GSTT1	1
22	24563080	24563081	1 CABIN1	31
22	24563085	24563086	1 CABIN1	31
22	24628173	24628176	3 GGT5	5
22	24629471	24629540	69 GGT5	3
22	24988825	24988929	104 C22orf36	1
22	25023948	25023951	3 GGT1	9
22	25202288	25202302	14 SGSM1	1
22	25436881	25436916	35 KIAA1671	3
22	25961003	25961025	22 ADRBK2	1
22	26242250	26242255	5 MYO18B	18
22	26565631	26565734	103 SEZ6L	1
22	26879868	26879938	70 SRRD	1
22	26879944	26879997	53 SRRD	1
22	28194173	28194174	1 MN1	1
22	28194175	28194223	48 MN1	1
22	28194307	28194308	1 MN1	1
22	28194323	28194357	34 MN1	1
22	28195479	28195498	19 MN1	1
22	29168862	29169009	147 CCDC117	1
22	29196412	29196419	7 XBP1	1
22	29279841	29279891	50 ZNRF3	1
22	29280029	29280039	10 ZNRF3	1
22	29469188	29469220	32 KREMEN1	1
22	29602036	29602095	59 EMID1	1
22	29661478	29661493	15 RHBDD3	1
22	29707642	29707645	3 GAS2L1	5

22	29707647	29707656	9 GAS2L1	5
22	29876347	29876395	48 NEFH	1
22	29876401	29876413	12 NEFH	1
22	30688798	30688811	13 TBC1D10A	9
22	30722861	30722864	3 TBC1D10A	1
22	30722866	30722870	4 TBC1D10A	1
22	30752755	30752756	1 SF3A1	1
22	30752762	30752765	3 SF3A1	1
22	30768123	30768176	53 CCDC157	5
22	30772244	30772245	1 CCDC157	9
22	30782104	30782105	1 RNF215	3
22	30783120	30783175	55 RNF215	1
22	30783234	30783307	73 RNF215	1
22	31672770	31672835	65 LIMK2	15
22	35785871	35785872	1 HMOX1	4
22	35785915	35785917	2 HMOX1	4
22	35785930	35785956	26 HMOX1	4
22	36424283	36424316	33 RBFOX2	1
22	36424325	36424452	127 RBFOX2	1
22	37332586	37332596	10 CSF2RB	12
22	37332598	37332599	1 CSF2RB	12
22	37415873	37415918	45 MPST	1
22	37447775	37447812	37 KCTD17	1
22	37911975	37912039	64 CARD10	3
22	37912040	37912045	5 CARD10	3
22	37915099	37915212	113 CARD10	1
22	37964359	37964429	70 CDC42EP1	2
22	38004863	38004915	52 GGA1	1
22	38020971	38021005	34 GGA1	10
22	38021010	38021012	2 GGA1	10
22	38021026	38021088	62 GGA1	10
22	38051370	38051480	110 SH3BP1	18
22	38051640	38051692	52 SH3BP1	18
22	38055066	38055069	3 PDXP	1
22	38071705	38071723	18 LGALS1	1
22	38121782	38121789	7 TRIOBP	5
22	38220739	38220823	84 GALR3	2
22	38220991	38220994	3 GALR3	2
22	38221082	38221091	9 GALR3	2
22	38221337	38221372	35 GALR3	2
22	38302425	38302466	41 MICALL1	1
22	38318345	38318354	9 MICALL1	6
22	38318356	38318435	79 MICALL1	6
22	38321663	38321677	14 MICALL1	8
22	38333204	38333206	2 MICALL1	14

22	38379790	38379792	2 SOX10	1
22	38477459	38477505	46 SLC16A8	3
22	38477510	38477516	6 SLC16A8	3
22	38478842	38478866	24 SLC16A8	1
22	38478877	38478885	8 SLC16A8	1
22	38482308	38482361	53 BAIAP2L2	12
22	38485187	38485241	54 BAIAP2L2	9
22	38485558	38485679	121 BAIAP2L2	8
22	38519124	38519129	5 PLA2G6	10
22	38519133	38519135	2 PLA2G6	10
22	38610887	38610889	2 MAFF	2
22	38690110	38690115	5 CSNK1E	8
22	38690118	38690121	3 CSNK1E	8
22	39239235	39239259	24 NPTXR	1
22	39239344	39239352	8 NPTXR	1
22	39239515	39239523	8 NPTXR	1
22	39239529	39239531	2 NPTXR	1
22	39239581	39239584	3 NPTXR	1
22	39239602	39239666	64 NPTXR	1
22	39239723	39239728	5 NPTXR	1
22	39262647	39262648	1 CBX6	5
22	39262655	39262660	5 CBX6	5
22	39357684	39357691	7 APOBEC3A	3
22	39387332	39387366	34 APOBEC3B	6
22	40045667	40045668	1 CACNA1I	10
22	40081761	40081829	68 CACNA1I	37
22	40081832	40081834	2 CACNA1I	37
22	40081842	40081844	2 CACNA1I	37
22	40081849	40081872	23 CACNA1I	37
22	40082140	40082313	173 CACNA1I	37
22	40814729	40814755	26 MKL1	9
22	40816847	40816857	10 MKL1	7
22	40816861	40816862	1 MKL1	7
22	41565604	41565606	2 EP300	26
22	41565607	41565610	3 EP300	26
22	41565617	41565625	8 EP300	26
22	41633790	41634123	333 CHADL	3
22	41919926	41919950	24 ACO2	12
22	42095637	42095688	51 MEI1	1
22	42276898	42276902	4 SREBF2	10
22	42306050	42306052	2 SHISA8	4
22	42306061	42306070	9 SHISA8	4
22	42306071	42306135	64 SHISA8	4
22	42310178	42310196	18 SHISA8	1
22	42310588	42310676	88 SHISA8	1

22	42322278	42322305	27 TNFRSF13C	2
22	42322637	42322684	47 TNFRSF13C	1
22	42322766	42322782	16 TNFRSF13C	1
22	42950939	42951020	81 SERHL2	2
22	42951024	42951098	74 SERHL2	2
22	42951233	42951356	123 SERHL2	3
22	42951665	42951716	51 SERHL2	4
22	42952085	42952094	9 SERHL2	5
22	42954349	42954455	106 SERHL2	7
22	43539260	43539359	99 MCAT	1
22	43582896	43583080	184 TTL12	1
22	43654241	43654258	17 SCUBE1	6
22	43739175	43739272	97 SCUBE1	1
22	44083348	44083359	11 EFCAB6	9
22	45283936	45283937	1 PHF21B	10
22	45283985	45283987	2 PHF21B	10
22	45283990	45284006	16 PHF21B	10
22	45309890	45309929	39 PHF21B	5
22	45680890	45680894	4 UPK3A	1
22	46449625	46449655	30 C22orf26	1
22	46449659	46449661	2 C22orf26	1
22	46449938	46449978	40 C22orf26	1
22	46658428	46658430	2 PKDREJ	1
22	46658724	46658748	24 PKDREJ	1
22	46658837	46659210	373 PKDREJ	1
22	46762891	46762899	8 CELSR1	29
22	46932496	46932659	163 CELSR1	1
22	46932827	46932829	2 CELSR1	1
22	46932831	46932833	2 CELSR1	1
22	46932834	46932838	4 CELSR1	1
22	46932839	46932976	137 CELSR1	1
22	50312413	50312420	7 CRELD2	1
22	50312436	50312450	14 CRELD2	1
22	50312451	50312459	8 CRELD2	1
22	50312463	50312465	2 CRELD2	1
22	50609213	50609270	57 PANX2	1
22	50616563	50616784	221 PANX2	2
22	50616785	50616794	9 PANX2	2
22	50639631	50639634	3 SELO	1
22	50639721	50639861	140 SELO	1
22	50639862	50639867	5 SELO	1
22	50639869	50639870	1 SELO	1
22	50639990	50639996	6 SELO	1
22	50689240	50689250	10 HDAC10	2
22	50689253	50689254	1 HDAC10	2

22	50726111	50726167	56 PLXNB2	5
22	50751033	50751051	18 FAM116B	18
22	50765236	50765238	2 FAM116B	1
22	50765372	50765376	4 FAM116B	1
22	50765403	50765422	19 FAM116B	1
22	50886702	50886705	3 SBF1	38
22	50894916	50894927	11 SBF1	30
22	50904233	50904239	6 SBF1	10
22	50913225	50913274	49 SBF1	1
22	50946107	50946109	2 LMF2	1
22	50957077	50957078	1 NCAPH2	8
22	50964904	50964910	6 TYMP	7
22	51042885	51042917	32 MAPK8IP2	5
22	51042958	51042987	29 MAPK8IP2	5
22	51113068	51113137	69 SHANK3	1
22	51113526	51113684	158 SHANK3	2
22	51135670	51135724	54 SHANK3	11
22	51135965	51136148	183 SHANK3	12
22	51158638	51158874	236 SHANK3	22
22	51158879	51158885	6 SHANK3	22
22	51158980	51159054	74 SHANK3	22
22	51159162	51159166	4 SHANK3	22
22	51159169	51159188	19 SHANK3	22
22	51159250	51159321	71 SHANK3	22
22	51169222	51169224	2 SHANK3	23
22	51169233	51169274	41 SHANK3	23
22	51169279	51169326	47 SHANK3	23
22	51183369	51183387	18 ACR	5
22	51183438	51183489	51 ACR	5
X	208162	208267	105 PLCXD1	4
X	208301	208326	25 PLCXD1	4
X	209697	209735	38 PLCXD1	5
X	224035	224038	3 GTPBP6	5
X	224416	224550	134 GTPBP6	4
X	228095	228133	38 GTPBP6	3
X	228148	228156	8 GTPBP6	3
X	228267	228299	32 GTPBP6	3
X	229460	229462	2 GTPBP6	2
X	229463	229464	1 GTPBP6	2
X	299334	299373	39 PPP2R3B	12
X	306904	306952	48 PPP2R3B	6
X	306956	306959	3 PPP2R3B	6
X	307494	307496	2 PPP2R3B	5
X	307498	307515	17 PPP2R3B	5
X	308324	308433	109 PPP2R3B	3

X	347181	347428	247 PPP2R3B	1
X	605126	605376	250 SHOX	5
X	1510787	1510907	120 SLC25A6	1
X	1537891	1538012	121 ASMTL	10
X	1546715	1546736	21 ASMTL	7
X	1571638	1571738	100 ASMTL	1
X	1585348	1585404	56 P2RY8	1
X	1585410	1585412	2 P2RY8	1
X	1585416	1585418	2 P2RY8	1
X	1585419	1585420	1 P2RY8	1
X	1585423	1585456	33 P2RY8	1
X	1718086	1718088	2 AKAP17A	3
X	1719547	1719677	130 AKAP17A	4
X	1719680	1719688	8 AKAP17A	4
X	1719782	1719784	2 AKAP17A	4
X	1719787	1719816	29 AKAP17A	4
X	1719820	1719871	51 AKAP17A	4
X	1720240	1720360	120 AKAP17A	4
X	1720402	1720455	53 AKAP17A	4
X	2418853	2418971	118 DHRSX	1
X	2609397	2609405	8 CD99	1
X	2609410	2609473	63 CD99	1
X	2644310	2644316	6 CD99	8
X	2847281	2847321	40 ARSD	1
X	2856131	2856141	10 ARSE	8
X	2856145	2856147	2 ARSE	8
X	2856154	2856156	2 ARSE	8
X	2861202	2861204	2 ARSE	7
X	3228560	3228677	117 MXRA5	6
X	3228691	3228759	68 MXRA5	6
X	3228765	3228768	3 MXRA5	6
X	3228770	3228780	10 MXRA5	6
X	3235453	3235525	72 MXRA5	5
X	3235539	3235635	96 MXRA5	5
X	3235645	3235646	1 MXRA5	5
X	3235664	3235665	1 MXRA5	5
X	3235669	3235673	4 MXRA5	5
X	3235723	3235724	1 MXRA5	5
X	7194018	7194019	1 STS	6
X	8699932	8700082	150 KAL1	1
X	9733675	9733765	90 GPR143	1
X	9733858	9733862	4 GPR143	1
X	9754581	9754592	11 SHROOM2	1
X	9754626	9754755	129 SHROOM2	1
X	10094188	10094217	29 WWC3	14

X	10094293	10094351	58 WWC3	14
X	10096592	10096594	2 WWC3	16
X	11157019	11157020	1 ARHGAP6	13
X	11157028	11157030	2 ARHGAP6	13
X	11682743	11682835	92 ARHGAP6	1
X	12994891	12994892	1 TMSB4X	2
X	15333542	15333552	10 ASB11	1
X	15863552	15863573	21 AP1S2	3
X	15863618	15863644	26 AP1S2	3
X	16804606	16804618	12 TXLNG	1
X	16804635	16804638	3 TXLNG	1
X	16804645	16804646	1 TXLNG	1
X	16804655	16804656	1 TXLNG	1
X	16964980	16964986	6 REPS2	1
X	16965066	16965262	196 REPS2	1
X	17088058	17088121	63 REPS2	11
X	17393876	17394227	351 NHS	1
X	17394442	17394444	2 NHS	1
X	17705964	17705966	2 NHS	2
X	18231980	18232036	56 BEND2	3
X	18915378	18915380	2 PHKA2	30
X	19055707	19055714	7 GPR64	3
X	19055725	19055759	34 GPR64	3
X	19362151	19362217	66 PDHA1	1
X	19380957	19380958	1 MAP3K15	26
X	19380961	19380973	12 MAP3K15	26
X	19389160	19389187	27 MAP3K15	24
X	19533014	19533042	28 MAP3K15	1
X	19533144	19533200	56 MAP3K15	1
X	19533286	19533384	98 MAP3K15	1
X	19854371	19854405	34 SH3KBP1	2
X	19905420	19905431	11 SH3KBP1	1
X	19955626	19955637	11 CXorf23	8
X	20134998	20135002	4 MAP7D2	1
X	20206614	20206623	9 RPS6KA3	8
X	20206626	20206627	1 RPS6KA3	8
X	20206629	20206630	1 RPS6KA3	8
X	20206632	20206641	9 RPS6KA3	8
X	20206642	20206655	13 RPS6KA3	8
X	21627212	21627216	4 CNKSR2	20
X	21666945	21666958	13 CNKSR2	21
X	21958956	21958996	40 SMS	1
X	23761237	23761240	3 ACOT9	1
X	23761247	23761251	4 ACOT9	1
X	23886772	23886810	38 APOO	5

X	24383117	24383118	1 FAM48B1	1
X	24383200	24383349	149 FAM48B1	1
X	24383350	24383359	9 FAM48B1	1
X	24516944	24516945	1 PDK3	3
X	24516946	24517022	76 PDK3	3
X	25022890	25022906	16 ARX	5
X	25022911	25022951	40 ARX	5
X	25031291	25031293	2 ARX	2
X	25031296	25031312	16 ARX	2
X	25031478	25031480	2 ARX	2
X	25031641	25031684	43 ARX	2
X	25031845	25031920	75 ARX	2
X	30725681	30725701	20 GK	12
X	30725702	30725720	18 GK	12
X	30861082	30861087	5 TAB3	5
X	31164485	31164490	5 DMD	76
X	31164500	31164536	36 DMD	76
X	34675126	34675151	25 TMEM47	1
X	36379609	36379610	1 CXorf30	11
X	37431202	37431261	59 LANCL3	1
X	37431283	37431287	4 LANCL3	1
X	37431293	37431322	29 LANCL3	1
X	37431386	37431475	89 LANCL3	1
X	37431484	37431547	63 LANCL3	1
X	37431549	37431551	2 LANCL3	1
X	37526726	37526731	5 LANCL3	4
X	40448366	40448368	2 ATP6AP2	2
X	40448372	40448373	1 ATP6AP2	2
X	40523734	40523735	1 MED14	25
X	40523736	40523746	10 MED14	25
X	40594552	40594576	24 MED14	1
X	40594580	40594622	42 MED14	1
X	41056612	41056613	1 USP9X	28
X	41206584	41206593	9 DDX3X	16
X	41333296	41333315	19 NYX	2
X	41333319	41333324	5 NYX	2
X	44023224	44023278	54 EFHC2	14
X	44732925	44732963	38 KDM6A	1
X	44941876	44941877	1 KDM6A	21
X	45017087	45017097	10 CXorf36	3
X	46618135	46618149	14 SLC9A7	1
X	46618385	46618389	4 SLC9A7	1
X	46618390	46618392	2 SLC9A7	1
X	46618393	46618469	76 SLC9A7	1
X	47003867	47003899	32 NDUFB11	1



X	47004069	47004071	2	NDUFB11	1
X	47004082	47004083	1	NDUFB11	1
X	47004883	47004920	37	RBM10	1
X	47030661	47030662	1	RBM10	4
X	47092526	47092575	49	USP11	1
X	47433417	47433612	195	SYN1	12
X	47433618	47433833	215	SYN1	12
X	47478812	47478815	3	SYN1	1
X	47488943	47488954	11	CFP	2
X	47990065	47990144	79	SPACA5B	1
X	47990160	47990219	59	SPACA5B	1
X	47990650	47990806	156	SPACA5B	2
X	47991637	47991715	78	SPACA5B	3
X	47991810	47991916	106	SPACA5B	4
X	48324404	48324448	44	SLC38A5	6
X	48398210	48398278	68	TBC1D25	1
X	48398308	48398313	5	TBC1D25	1
X	48547053	48547223	170	WAS	10
X	48547273	48547351	78	WAS	10
X	48547368	48547372	4	WAS	10
X	48673364	48673446	82	HDAC6	13
X	48676448	48676459	11	HDAC6	20
X	48690305	48690561	256	PCSK1N	2
X	48690674	48690679	5	PCSK1N	2
X	48690680	48690682	2	PCSK1N	2
X	48690684	48690687	3	PCSK1N	2
X	48693816	48693822	6	PCSK1N	1
X	48693890	48693939	49	PCSK1N	1
X	48768818	48768874	56	SLC35A2	1
X	48814487	48814682	195	OTUD5	1
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X	48822457	48822468	11	KCND1	5
X	48822475	48822476	1	KCND1	5
X	48822477	48822488	11	KCND1	5
X	48822490	48822493	3	KCND1	5
X	48822496	48822536	40	KCND1	5
X	48822645	48822651	6	KCND1	5
X	48822652	48822654	2	KCND1	5
X	48822656	48822664	8	KCND1	5
X	48822665	48822668	3	KCND1	5
X	48832739	48832780	41	GRIPAP1	23
X	48921962	48922016	54	CCDC120	4
X	48922076	48922078	2	CCDC120	4
X	48922080	48922083	3	CCDC120	4
X	48922090	48922091	1	CCDC120	4

X	48922099	48922108	9 CCDC120	4
X	48922109	48922110	1 CCDC120	4
X	48925476	48925504	28 CCDC120	8
X	48925510	48925513	3 CCDC120	8
X	48930220	48930259	39 PRAF2	2
X	49022570	49022571	1 MAGIX	6
X	49103187	49103215	28 CCDC22	7
X	49104749	49104776	27 CCDC22	10
X	49104863	49104872	9 CCDC22	11
X	49104874	49104875	1 CCDC22	11
X	49106107	49106121	14 CCDC22	16
X	49113906	49113966	60 FOXP3	3
X	49126329	49126550	221 PPP1R3F	1
X	49126573	49126589	16 PPP1R3F	1
X	49126790	49126814	24 PPP1R3F	1
X	49846299	49846317	18 CLCN5	7
X	49959034	49959052	18 AKAP4	5
X	50213287	50213313	26 DGKK	1
X	50213400	50213407	7 DGKK	1
X	50213584	50213679	95 DGKK	1
X	50378240	50378245	5 SHROOM4	4
X	50378247	50378248	1 SHROOM4	4
X	51809956	51810155	199 MAGED4B	2
X	51810158	51810221	63 MAGED4B	2
X	51810227	51810232	5 MAGED4B	2
X	51810624	51810673	49 MAGED4B	2
X	51929608	51929686	78 MAGED4	2
X	51930024	51930129	105 MAGED4	2
X	51930132	51930161	29 MAGED4	2
X	51930166	51930167	1 MAGED4	2
X	51930174	51930176	2 MAGED4	2
X	51930208	51930236	28 MAGED4	2
X	51930262	51930272	10 MAGED4	2
X	51930328	51930331	3 MAGED4	2
X	53111755	53111763	8 TSPYL2	1
X	53111768	53111781	13 TSPYL2	1
X	53226147	53226174	27 KDM5C	19
X	53263486	53263496	10 IQSEC2	15
X	53263568	53263642	74 IQSEC2	15
X	53263943	53264073	130 IQSEC2	15
X	53264271	53264371	100 IQSEC2	15
X	53265001	53265005	4 IQSEC2	14
X	53265015	53265019	4 IQSEC2	14
X	53349652	53349805	153 IQSEC2	1
X	53460781	53460798	17 HSD17B10	2

X	53563588	53563590	2 HUWE1	76
X	53563610	53563612	2 HUWE1	76
X	53563622	53563633	11 HUWE1	76
X	54224917	54224920	3 WNK3	23
X	54224923	54224924	1 WNK3	23
X	54497120	54497159	39 FGD1	3
X	54521777	54521797	20 FGD1	1
X	54800624	54800635	11 ITIH5L	6
X	55041223	55041239	16 ALAS2	8
X	55119143	55119169	26 PAGE2	4
X	55514943	55514979	36 USP51	1
X	56590322	56590337	15 UBQLN2	1
X	57162828	57162969	141 SPIN2A	1
X	57162985	57163035	50 SPIN2A	1
X	57618477	57618710	233 ZXDB	1
X	57618788	57618959	171 ZXDB	1
X	57619130	57619240	110 ZXDB	1
X	57619242	57619256	14 ZXDB	1
X	57936397	57936518	121 ZXDA	1
X	57936608	57936859	251 ZXDA	1
X	64748229	64748243	14 LAS1L	7
X	65412013	65412016	3 HEPH	7
X	66766200	66766261	61 AR	1
X	66766434	66766452	18 AR	1
X	67940206	67940235	29 STARD8	8
X	68725434	68725435	1 FAM155B	1
X	69247831	69247834	3 EDA	4
X	69247840	69247891	51 EDA	4
X	69459718	69459735	17 AWAT1	6
X	69665047	69665048	1 DLG3	1
X	69669563	69669579	16 DLG3	4
X	69671830	69671853	23 DLG3	7
X	69711964	69711980	16 DLG3	11
X	69898649	69898744	95 TEX11	14
X	69964010	69964074	64 TEX11	9
X	70146501	70146503	2 SLC7A3	9
X	70352264	70352266	2 MED12	31
X	70356300	70356371	71 MED12	37
X	70356384	70356387	3 MED12	37
X	70356414	70356479	65 MED12	37
X	70464647	70464654	7 ZMYM3	18
X	70466205	70466206	1 ZMYM3	14
X	70466266	70466324	58 ZMYM3	14
X	70586334	70586349	15 TAF1	1
X	70775035	70775051	16 OGT	7

X	70814591	70814634	43 ACRC	5
X	70936926	70937092	166 CXorf49	1
X	70937102	70937111	9 CXorf49	1
X	70937113	70937116	3 CXorf49	1
X	70937120	70937139	19 CXorf49	1
X	70983269	70983272	3 CXorf49B	1
X	70984034	70984036	2 CXorf49B	1
X	70984269	70984399	130 CXorf49B	1
X	71130973	71130986	13 NHSL2	1
X	71131208	71131222	14 NHSL2	1
X	71350990	71351039	49 RGAG4	1
X	73641246	73641300	54 SLC16A2	1
X	73641306	73641307	1 SLC16A2	1
X	73641328	73641342	14 SLC16A2	1
X	73641348	73641357	9 SLC16A2	1
X	73641388	73641470	82 SLC16A2	1
X	73641472	73641474	2 SLC16A2	1
X	73641483	73641489	6 SLC16A2	1
X	73641562	73641563	1 SLC16A2	1
X	73641568	73641598	30 SLC16A2	1
X	76891411	76891415	4 ATRX	16
X	76912124	76912148	24 ATRX	13
X	77158229	77158230	1 COX7B	2
X	78216983	78216994	11 P2RY10	1
X	79945266	79945267	1 BRWD3	33
X	79947583	79947585	2 BRWD3	29
X	79947587	79947591	4 BRWD3	29
X	79947598	79947599	1 BRWD3	29
X	80370613	80370733	120 HMG5	6
X	84322202	84322203	1 APOOL	6
X	84322207	84322212	5 APOOL	6
X	84322220	84322229	9 APOOL	6
X	84558407	84558462	55 POF1B	14
X	84558470	84558499	29 POF1B	14
X	84606354	84606381	27 POF1B	4
X	96171435	96171436	1 DIAPH2	8
X	99921880	99921921	41 SRPX2	7
X	99955888	99955889	1 SYTL4	4
X	1E+08	1E+08	20 CENPI	8
X	1.01E+08	1.01E+08	31 NXF5	11
X	1.01E+08	1.01E+08	57 ZMAT1	1
X	1.02E+08	1.02E+08	26 NXF2	7
X	1.02E+08	1.02E+08	13 NXF2	21
X	1.02E+08	1.02E+08	15 NXF2B	21
X	1.02E+08	1.02E+08	3 NXF2B	7

X	1.03E+08	1.03E+08	22 GLRA4	2
X	1.03E+08	1.03E+08	5 GLRA4	2
X	1.03E+08	1.03E+08	2 GLRA4	2
X	1.03E+08	1.03E+08	3 GLRA4	2
X	1.03E+08	1.03E+08	28 GLRA4	2
X	1.03E+08	1.03E+08	21 ESX1	4
X	1.06E+08	1.06E+08	1 CXorf57	7
X	1.06E+08	1.06E+08	18 MORC4	4
X	1.06E+08	1.06E+08	111 MORC4	1
X	1.07E+08	1.07E+08	1 COL4A6	38
X	1.07E+08	1.07E+08	29 COL4A6	36
X	1.07E+08	1.07E+08	2 COL4A6	36
X	1.08E+08	1.08E+08	109 COL4A5	20
X	1.08E+08	1.08E+08	69 COL4A5	20
X	1.08E+08	1.08E+08	10 COL4A5	31
X	1.08E+08	1.08E+08	3 COL4A5	31
X	1.08E+08	1.08E+08	5 COL4A5	41
X	1.08E+08	1.08E+08	43 COL4A5	41
X	1.09E+08	1.09E+08	6 KCNE1L	1
X	1.09E+08	1.09E+08	33 KCNE1L	1
X	1.09E+08	1.09E+08	1 KCNE1L	1
X	1.1E+08	1.1E+08	2 AMMECR1	1
X	1.1E+08	1.1E+08	2 AMMECR1	1
X	1.1E+08	1.1E+08	1 AMMECR1	1
X	1.1E+08	1.1E+08	97 CAPN6	9
X	1.11E+08	1.11E+08	20 ALG13	24
X	1.12E+08	1.12E+08	3 AMOT	10
X	1.14E+08	1.14E+08	57 LRCH2	17
X	1.14E+08	1.14E+08	26 LRCH2	10
X	1.14E+08	1.14E+08	5 LRCH2	5
X	1.14E+08	1.14E+08	15 LRCH2	1
X	1.16E+08	1.16E+08	15 SLC6A14	2
X	1.16E+08	1.16E+08	2 SLC6A14	8
X	1.18E+08	1.18E+08	3 DOCK11	10
X	1.18E+08	1.18E+08	6 DOCK11	10
X	1.18E+08	1.18E+08	11 DOCK11	10
X	1.18E+08	1.18E+08	33 DOCK11	10
X	1.18E+08	1.18E+08	3 DOCK11	45
X	1.18E+08	1.18E+08	50 IL13RA1	1
X	1.19E+08	1.19E+08	284 SLC25A43	1
X	1.19E+08	1.19E+08	92 ANKRD58	1
X	1.19E+08	1.19E+08	148 ANKRD58	1
X	1.19E+08	1.19E+08	11 UPF3B	2
X	1.19E+08	1.19E+08	7 NKAP	4
X	1.19E+08	1.19E+08	89 RHOXF2B	2

X	1.19E+08	1.19E+08	18 RHOXF2B	2
X	1.19E+08	1.19E+08	122 RHOXF2B	2
X	1.2E+08	1.2E+08	42 LAMP2	2
X	1.2E+08	1.2E+08	34 LAMP2	2
X	1.2E+08	1.2E+08	30 CT47B1	1
X	1.2E+08	1.2E+08	68 CT47B1	1
X	1.2E+08	1.2E+08	53 GLUD2	1
X	1.23E+08	1.23E+08	37 XIAP	3
X	1.23E+08	1.23E+08	16 STAG2	10
X	1.23E+08	1.23E+08	25 STAG2	20
X	1.24E+08	1.24E+08	29 ODZ1	18
X	1.24E+08	1.24E+08	62 ODZ1	4
X	1.29E+08	1.29E+08	48 OCRL	1
X	1.29E+08	1.29E+08	1 APLN	1
X	1.29E+08	1.29E+08	21 XPNPEP2	8
X	1.29E+08	1.29E+08	19 SASH3	4
X	1.29E+08	1.29E+08	16 ZDHHC9	4
X	1.29E+08	1.29E+08	81 BCORL1	3
X	1.29E+08	1.29E+08	3 BCORL1	3
X	1.29E+08	1.29E+08	63 ZNF280C	3
X	1.3E+08	1.3E+08	7 ARHGAP36	11
X	1.32E+08	1.32E+08	35 MBNL3	5
X	1.32E+08	1.32E+08	7 MBNL3	5
X	1.32E+08	1.32E+08	7 MBNL3	5
X	1.34E+08	1.34E+08	9 PHF6	2
X	1.34E+08	1.34E+08	17 HPRT1	1
X	1.34E+08	1.34E+08	10 HPRT1	1
X	1.34E+08	1.34E+08	7 HPRT1	4
X	1.34E+08	1.34E+08	72 CXorf48	3
X	1.35E+08	1.35E+08	7 SAGE1	1
X	1.35E+08	1.35E+08	40 SLC9A6	1
X	1.35E+08	1.35E+08	31 SLC9A6	14
X	1.35E+08	1.35E+08	73 MAP7D3	3
X	1.35E+08	1.35E+08	2 MAP7D3	1
X	1.35E+08	1.35E+08	7 GPR112	11
X	1.36E+08	1.36E+08	4 RBMX	3
X	1.39E+08	1.39E+08	45 MCF2	18
X	1.39E+08	1.39E+08	3 MCF2	18
X	1.39E+08	1.39E+08	2 MCF2	18
X	1.4E+08	1.4E+08	58 SOX3	1
X	1.4E+08	1.4E+08	79 SOX3	1
X	1.4E+08	1.4E+08	91 SOX3	1
X	1.4E+08	1.4E+08	55 SPANXB1	1
X	1.4E+08	1.4E+08	85 SPANXB1	2
X	1.4E+08	1.4E+08	56 SPANXC	1

X	1.41E+08	1.41E+08	63	MAGEC3	3
X	1.41E+08	1.41E+08	4	MAGEC3	3
X	1.41E+08	1.41E+08	59	MAGEC1	2
X	1.46E+08	1.46E+08	2	CXorf51B	2
X	1.46E+08	1.46E+08	23	CXorf51B	2
X	1.46E+08	1.46E+08	36	CXorf51A	2
X	1.47E+08	1.47E+08	1	FMR1	6
X	1.47E+08	1.47E+08	6	FMR1	9
X	1.49E+08	1.49E+08	1	IDS	3
X	1.49E+08	1.49E+08	18	IDS	3
X	1.5E+08	1.5E+08	61	MTM1	2
X	1.5E+08	1.5E+08	11	MTMR1	1
X	1.5E+08	1.5E+08	76	MTMR1	1
X	1.5E+08	1.5E+08	76	CD99L2	1
X	1.51E+08	1.51E+08	12	CNGA2	2
X	1.51E+08	1.51E+08	85	GABRE	2
X	1.52E+08	1.52E+08	37	GABRQ	6
X	1.52E+08	1.52E+08	1	GABRQ	6
X	1.52E+08	1.52E+08	23	GABRQ	6
X	1.53E+08	1.53E+08	51	ZFP92	4
X	1.53E+08	1.53E+08	33	HAUS7	9
X	1.53E+08	1.53E+08	20	HAUS7	1
X	1.53E+08	1.53E+08	91	FAM58A	1
X	1.53E+08	1.53E+08	272	DUSP9	1
X	1.53E+08	1.53E+08	1	DUSP9	1
X	1.53E+08	1.53E+08	48	PNCK	1
X	1.53E+08	1.53E+08	72	SLC6A8	1
X	1.53E+08	1.53E+08	51	SLC6A8	1
X	1.53E+08	1.53E+08	19	SLC6A8	1
X	1.53E+08	1.53E+08	99	SLC6A8	8
X	1.53E+08	1.53E+08	3	SLC6A8	8
X	1.53E+08	1.53E+08	23	SLC6A8	11
X	1.53E+08	1.53E+08	10	SLC6A8	12
X	1.53E+08	1.53E+08	53	BCAP31	6
X	1.53E+08	1.53E+08	17	BCAP31	6
X	1.53E+08	1.53E+08	1	ABCD1	1
X	1.53E+08	1.53E+08	14	ABCD1	1
X	1.53E+08	1.53E+08	2	ABCD1	1
X	1.53E+08	1.53E+08	7	ABCD1	1
X	1.53E+08	1.53E+08	23	ABCD1	9
X	1.53E+08	1.53E+08	80	ABCD1	10
X	1.53E+08	1.53E+08	4	PLXNB3	5
X	1.53E+08	1.53E+08	142	PLXNB3	6
X	1.53E+08	1.53E+08	73	PLXNB3	13
X	1.53E+08	1.53E+08	1	PLXNB3	17

X	1.53E+08	1.53E+08	7 PLXNB3	17
X	1.53E+08	1.53E+08	3 PLXNB3	18
X	1.53E+08	1.53E+08	5 PLXNB3	18
X	1.53E+08	1.53E+08	15 PLXNB3	18
X	1.53E+08	1.53E+08	10 PLXNB3	18
X	1.53E+08	1.53E+08	29 PLXNB3	18
X	1.53E+08	1.53E+08	8 PLXNB3	18
X	1.53E+08	1.53E+08	2 PLXNB3	18
X	1.53E+08	1.53E+08	4 PLXNB3	28
X	1.53E+08	1.53E+08	2 PLXNB3	28
X	1.53E+08	1.53E+08	68 SRPK3	1
X	1.53E+08	1.53E+08	12 PDZD4	8
X	1.53E+08	1.53E+08	65 PDZD4	8
X	1.53E+08	1.53E+08	26 ARHGAP4	23
X	1.53E+08	1.53E+08	2 ARHGAP4	20
X	1.53E+08	1.53E+08	25 ARHGAP4	20
X	1.53E+08	1.53E+08	15 ARHGAP4	20
X	1.53E+08	1.53E+08	11 ARHGAP4	15
X	1.53E+08	1.53E+08	1 ARHGAP4	2
X	1.53E+08	1.53E+08	12 ARHGAP4	2
X	1.53E+08	1.53E+08	1 ARHGAP4	2
X	1.53E+08	1.53E+08	30 NAA10	1
X	1.53E+08	1.53E+08	22 RENBP	11
X	1.53E+08	1.53E+08	65 RENBP	11
X	1.53E+08	1.53E+08	2 RENBP	7
X	1.53E+08	1.53E+08	1 HCFC1	24
X	1.53E+08	1.53E+08	9 HCFC1	18
X	1.53E+08	1.53E+08	2 HCFC1	14
X	1.53E+08	1.53E+08	6 HCFC1	14
X	1.53E+08	1.53E+08	106 HCFC1	8
X	1.53E+08	1.53E+08	4 HCFC1	8
X	1.53E+08	1.53E+08	8 IRAK1	11
X	1.53E+08	1.53E+08	1 IRAK1	11
X	1.53E+08	1.53E+08	5 MECP2	3
X	1.53E+08	1.53E+08	1 MECP2	3
X	1.53E+08	1.53E+08	7 MECP2	3
X	1.53E+08	1.53E+08	15 MECP2	1
X	1.53E+08	1.53E+08	4 OPN1LW	3
X	1.53E+08	1.53E+08	18 OPN1MW	5
X	1.53E+08	1.53E+08	123 OPN1MW2	2
X	1.53E+08	1.53E+08	90 OPN1MW2	3
X	1.53E+08	1.53E+08	90 OPN1MW2	4
X	1.53E+08	1.53E+08	189 OPN1MW2	5
X	1.54E+08	1.54E+08	16 TEX28	1
X	1.54E+08	1.54E+08	29 TAZ	5



X	1.54E+08	1.54E+08	10 ATP6AP1	1
X	1.54E+08	1.54E+08	18 PLXNA3	1
X	1.54E+08	1.54E+08	44 PLXNA3	3
X	1.54E+08	1.54E+08	4 PLXNA3	4
X	1.54E+08	1.54E+08	40 PLXNA3	5
X	1.54E+08	1.54E+08	25 PLXNA3	6
X	1.54E+08	1.54E+08	10 PLXNA3	18
X	1.54E+08	1.54E+08	22 LAGE3	1
X	1.54E+08	1.54E+08	57 UBL4A	1
X	1.54E+08	1.54E+08	1 FAM3A	6
X	1.54E+08	1.54E+08	35 FAM3A	6
X	1.54E+08	1.54E+08	50 FAM3A	5
X	1.54E+08	1.54E+08	1 G6PD	13
X	1.54E+08	1.54E+08	3 G6PD	13
X	1.54E+08	1.54E+08	10 G6PD	5
X	1.54E+08	1.54E+08	10 G6PD	5
X	1.54E+08	1.54E+08	18 G6PD	1
X	1.54E+08	1.54E+08	27 IKBKG	3
X	1.54E+08	1.54E+08	1 IKBKG	3
X	1.54E+08	1.54E+08	29 IKBKG	4
X	1.54E+08	1.54E+08	55 IKBKG	4
X	1.54E+08	1.54E+08	132 IKBKG	5
X	1.54E+08	1.54E+08	61 IKBKG	8
X	1.54E+08	1.54E+08	79 IKBKG	8
X	1.54E+08	1.54E+08	41 IKBKG	9
X	1.54E+08	1.54E+08	58 CTAG1A	1
X	1.54E+08	1.54E+08	1 CTAG1A	1
X	1.54E+08	1.54E+08	4 CTAG1B	1
X	1.54E+08	1.54E+08	1 CTAG1B	1
X	1.54E+08	1.54E+08	77 CTAG1B	1
X	1.54E+08	1.54E+08	1 CTAG2	1
X	1.54E+08	1.54E+08	81 GAB3	1
X	1.54E+08	1.54E+08	25 BRCC3	6
X	1.55E+08	1.55E+08	15 TMLHE	7
X	1.55E+08	1.55E+08	9 IL9R	8
Y	150850	150986	136 PLCXD1	1
Y	155395	155515	120 PLCXD1	2
Y	157310	157429	119 PLCXD1	3
Y	158162	158326	164 PLCXD1	4
Y	159697	159874	177 PLCXD1	5
Y	165759	166007	248 PLCXD1	6
Y	171736	171869	133 GTPBP6	6
Y	174035	174150	115 GTPBP6	5
Y	174416	174550	134 GTPBP6	4
Y	178095	178299	204 GTPBP6	3

Y	179428	179464	36 GTPBP6	2
Y	179474	179596	122 GTPBP6	2
Y	180812	180892	80 GTPBP6	1
Y	245194	245257	63 PPP2R3B	13
Y	249334	249450	116 PPP2R3B	12
Y	249508	249620	112 PPP2R3B	11
Y	251495	251678	183 PPP2R3B	10
Y	252037	252136	99 PPP2R3B	9
Y	252613	252671	58 PPP2R3B	8
Y	256246	256261	15 PPP2R3B	7
Y	256273	256395	122 PPP2R3B	7
Y	256904	257000	96 PPP2R3B	6
Y	257431	257515	84 PPP2R3B	5
Y	257964	258012	48 PPP2R3B	4
Y	258018	258076	58 PPP2R3B	4
Y	258324	258433	109 PPP2R3B	3
Y	272152	272330	178 PPP2R3B	2
Y	297098	297428	330 PPP2R3B	1
Y	541628	541914	286 SHOX	1
Y	545348	545549	201 SHOX	2
Y	551551	551618	67 SHOX	3
Y	551729	551827	98 SHOX	4
Y	555126	555376	250 SHOX	5
Y	1264872	1265019	147 CRLF2	6
Y	1267442	1267569	127 CRLF2	5
Y	1271291	1271410	119 CRLF2	4
Y	1275321	1275404	83 CRLF2	3
Y	1275416	1275497	81 CRLF2	3
Y	1277694	1277806	112 CRLF2	2
Y	1281444	1281532	88 CRLF2	1
Y	1351592	1351677	85 CSF2RA	1
Y	1354677	1354818	141 CSF2RA	2
Y	1357407	1357540	133 CSF2RA	3
Y	1357647	1357786	139 CSF2RA	4
Y	1359225	1359405	180 CSF2RA	5
Y	1363240	1363359	119 CSF2RA	6
Y	1364315	1364354	39 CSF2RA	7
Y	1369395	1369524	129 CSF2RA	8
Y	1372811	1372917	106 CSF2RA	10
Y	1374334	1374425	91 CSF2RA	11
Y	1378290	1378377	87 CSF2RA	12
Y	1410654	1410727	73 IL3RA	1
Y	1414210	1414329	119 IL3RA	2
Y	1417319	1417443	124 IL3RA	3
Y	1420988	1421130	142 IL3RA	4

Y	1421210	1421399	189 IL3RA	5
Y	1425120	1425234	114 IL3RA	6
Y	1427749	1427785	36 IL3RA	7
Y	1434026	1434137	111 IL3RA	8
Y	1447547	1447608	61 IL3RA	9
Y	1447622	1447662	40 IL3RA	9
Y	1449911	1450002	91 IL3RA	10
Y	1451279	1451363	84 IL3RA	11
Y	1455490	1455582	92 SLC25A6	4
Y	1455591	1455657	66 SLC25A6	4
Y	1456167	1456234	67 SLC25A6	3
Y	1456249	1456317	68 SLC25A6	3
Y	1458129	1458261	132 SLC25A6	2
Y	1458277	1458391	114 SLC25A6	2
Y	1458407	1458609	202 SLC25A6	2
Y	1460787	1460907	120 SLC25A6	1
Y	1472157	1472221	64 ASMTL	13
Y	1472231	1472365	134 ASMTL	13
Y	1481620	1481668	48 ASMTL	12
Y	1481683	1481752	69 ASMTL	12
Y	1486874	1486994	120 ASMTL	11
Y	1487891	1488012	121 ASMTL	10
Y	1490547	1490735	188 ASMTL	9
Y	1494452	1494585	133 ASMTL	8
Y	1496622	1496737	115 ASMTL	7
Y	1496740	1496999	259 ASMTL	7
Y	1501157	1501273	116 ASMTL	6
Y	1503910	1503981	71 ASMTL	5
Y	1504582	1504656	74 ASMTL	4
Y	1507985	1508016	31 ASMTL	3
Y	1508031	1508042	11 ASMTL	3
Y	1511097	1511215	118 ASMTL	2
Y	1521638	1521738	100 ASMTL	1
Y	1534367	1534773	406 P2RY8	1
Y	1534789	1535044	255 P2RY8	1
Y	1535049	1535456	407 P2RY8	1
Y	1662351	1663122	771 AKAP17A	1
Y	1664272	1664402	130 AKAP17A	2
Y	1668086	1668330	244 AKAP17A	3
Y	1669547	1669871	324 AKAP17A	4
Y	1669887	1670199	312 AKAP17A	4
Y	1670208	1670360	152 AKAP17A	4
Y	1670402	1670492	90 AKAP17A	4
Y	1684088	1684166	78 ASMT	1
Y	1692027	1692088	61 ASMT	2

Y	1692103	1692211	108 ASMT	2
Y	1693157	1693273	116 ASMT	3
Y	1696591	1696669	78 ASMT	4
Y	1698709	1698837	128 ASMT	5
Y	1702062	1702180	118 ASMT	7
Y	1705326	1705422	96 ASMT	8
Y	1711691	1711777	86 ASMT	9
Y	1711785	1711912	127 ASMT	9
Y	2089077	2089265	188 DHRSX	7
Y	2111059	2111276	217 DHRSX	6
Y	2134776	2134844	68 DHRSX	5
Y	2134859	2134993	134 DHRSX	5
Y	2159538	2159649	111 DHRSX	4
Y	2276781	2276859	78 DHRSX	3
Y	2293233	2293350	117 DHRSX	2
Y	2356671	2356745	74 ZBED1	1
Y	2356748	2356948	200 ZBED1	1
Y	2356952	2357138	186 ZBED1	1
Y	2357151	2357536	385 ZBED1	1
Y	2357540	2357851	311 ZBED1	1
Y	2357864	2358113	249 ZBED1	1
Y	2358125	2358370	245 ZBED1	1
Y	2358386	2358765	379 ZBED1	1
Y	2368853	2368971	118 DHRSX	1
Y	2559397	2559405	8 CD99	1
Y	2559410	2559473	63 CD99	1
Y	2582458	2582500	42 CD99	2
Y	2585641	2585698	57 CD99	3
Y	2587697	2587751	54 CD99	4
Y	2588392	2588470	78 CD99	5
Y	2590663	2590720	57 CD99	6
Y	2591350	2591372	22 CD99	7
Y	2591386	2591410	24 CD99	7
Y	2594310	2594419	109 CD99	8
Y	2606236	2606271	35 CD99	9
Y	2608815	2608850	35 CD99	10
Y	2655025	2655058	33 SRY	1
Y	2655077	2655416	339 SRY	1
Y	2655422	2655649	227 SRY	1
Y	2709661	2709673	12 RPS4Y1	1
Y	2710202	2710288	86 RPS4Y1	2
Y	2712205	2712303	98 RPS4Y1	3
Y	2713682	2713778	96 RPS4Y1	4
Y	2722636	2722723	87 RPS4Y1	5
Y	2733124	2733229	105 RPS4Y1	6

Y	2734842	2734940	98 RPS4Y1	7
Y	2821973	2822043	70 ZFY	1
Y	2829110	2829341	231 ZFY	2
Y	2829419	2829692	273 ZFY	2
Y	2843131	2843252	121 ZFY	3
Y	2843547	2843600	53 ZFY	4
Y	2844736	2844868	132 ZFY	5
Y	2846074	2846126	52 ZFY	6
Y	2846846	2846887	41 ZFY	7
Y	2846892	2847105	213 ZFY	7
Y	2847213	2847485	272 ZFY	7
Y	2847490	2847669	179 ZFY	7
Y	2847905	2848025	120 ZFY	7
Y	3447281	3447848	567 TGIF2LY	1
Y	4924860	4925493	633 PCDH11Y	1
Y	4966251	4968322	2071 PCDH11Y	2
Y	4968329	4968753	424 PCDH11Y	2
Y	5369093	5369146	53 PCDH11Y	3
Y	5369159	5369301	142 PCDH11Y	3
Y	5449811	5449844	33 PCDH11Y	4
Y	5605308	5605454	146 PCDH11Y	5
Y	5605465	5605988	523 PCDH11Y	5
Y	6734109	6734124	15 AMELY	5
Y	6736073	6736160	87 AMELY	4
Y	6736247	6736415	168 AMELY	4
Y	6736768	6736822	54 AMELY	3
Y	6740591	6740654	63 AMELY	1
Y	6893121	6893147	26 TBL1Y	1
Y	6911050	6911171	121 TBL1Y	2
Y	6931939	6932195	256 TBL1Y	3
Y	6938232	6938285	53 TBL1Y	4
Y	6938774	6938888	114 TBL1Y	5
Y	6939596	6939614	18 TBL1Y	6
Y	6939625	6939669	44 TBL1Y	6
Y	6939769	6939876	107 TBL1Y	7
Y	6948856	6948899	43 TBL1Y	9
Y	6954014	6954018	4 TBL1Y	10
Y	6954413	6954463	50 TBL1Y	11
Y	6955348	6955478	130 TBL1Y	12
Y	6958125	6958157	32 TBL1Y	13
Y	6958163	6958236	73 TBL1Y	13
Y	6959508	6959538	30 TBL1Y	14
Y	9384285	9384378	93 FAM197Y1	1
Y	9384635	9384730	95 FAM197Y1	1
Y	14821376	14821481	105 USP9Y	1

Y	14832517	14832675	158 USP9Y	2
Y	14834036	14834057	21 USP9Y	3
Y	14834063	14834125	62 USP9Y	3
Y	14837041	14837119	78 USP9Y	4
Y	14837125	14837163	38 USP9Y	4
Y	14838575	14838731	156 USP9Y	5
Y	14847541	14847580	39 USP9Y	6
Y	14847586	14847666	80 USP9Y	6
Y	14847933	14848052	119 USP9Y	7
Y	14848058	14848188	130 USP9Y	7
Y	14848372	14848488	116 USP9Y	8
Y	14850088	14850207	119 USP9Y	9
Y	14850210	14850248	38 USP9Y	9
Y	14851469	14851568	99 USP9Y	10
Y	14869183	14869333	150 USP9Y	11
Y	14870462	14870577	115 USP9Y	12
Y	14872410	14872552	142 USP9Y	13
Y	14882997	14883094	97 USP9Y	14
Y	14885512	14885600	88 USP9Y	15
Y	14885686	14885864	178 USP9Y	15
Y	14887400	14887505	105 USP9Y	16
Y	14888591	14888799	208 USP9Y	17
Y	14889986	14890198	212 USP9Y	18
Y	14890548	14890694	146 USP9Y	19
Y	14891478	14891585	107 USP9Y	20
Y	14898132	14898272	140 USP9Y	21
Y	14898450	14898738	288 USP9Y	22
Y	14902360	14902470	110 USP9Y	23
Y	14903452	14903562	110 USP9Y	24
Y	14905007	14905139	132 USP9Y	25
Y	14922163	14922227	64 USP9Y	26
Y	14922602	14922758	156 USP9Y	27
Y	14923565	14923676	111 USP9Y	28
Y	14924769	14924945	176 USP9Y	29
Y	14928111	14928284	173 USP9Y	30
Y	14930350	14930417	67 USP9Y	31
Y	14930473	14930550	77 USP9Y	31
Y	14945609	14945742	133 USP9Y	32
Y	14949832	14949924	92 USP9Y	33
Y	14949930	14949983	53 USP9Y	33
Y	14951785	14951844	59 USP9Y	34
Y	14951921	14952123	202 USP9Y	34
Y	14952190	14952545	355 USP9Y	34
Y	14952951	14953064	113 USP9Y	35
Y	14954161	14954233	72 USP9Y	36

Y	14954316	14954396	80	USP9Y	36
Y	14954984	14955032	48	USP9Y	37
Y	14955036	14955123	87	USP9Y	37
Y	14958308	14958448	140	USP9Y	38
Y	14958899	14959083	184	USP9Y	39
Y	14959159	14959257	98	USP9Y	40
Y	14968362	14968426	64	USP9Y	41
Y	14968553	14968560	7	USP9Y	42
Y	14968730	14968775	45	USP9Y	42
Y	14969486	14969591	105	USP9Y	43
Y	14971230	14971346	116	USP9Y	44
Y	15016843	15016897	54	DDX3Y	1
Y	15019443	15019510	67	DDX3Y	2
Y	15021266	15021323	57	DDX3Y	3
Y	15023767	15023885	118	DDX3Y	4
Y	15024639	15024758	119	DDX3Y	5
Y	15024763	15024799	36	DDX3Y	5
Y	15024870	15024928	58	DDX3Y	6
Y	15024932	15024979	47	DDX3Y	6
Y	15025625	15025734	109	DDX3Y	7
Y	15025740	15025770	30	DDX3Y	7
Y	15026484	15026566	82	DDX3Y	8
Y	15026800	15026899	99	DDX3Y	9
Y	15026974	15027049	75	DDX3Y	10
Y	15027537	15027691	154	DDX3Y	11
Y	15027859	15027944	85	DDX3Y	12
Y	15028226	15028359	133	DDX3Y	13
Y	15028424	15028436	12	DDX3Y	14
Y	15028487	15028551	64	DDX3Y	14
Y	15028898	15028977	79	DDX3Y	15
Y	15029342	15029459	117	DDX3Y	16
Y	15029950	15029951	1	DDX3Y	17
Y	15361731	15361767	36	UTY	28
Y	15362892	15362974	82	UTY	27
Y	15362980	15363072	92	UTY	27
Y	15372177	15372289	112	UTY	26
Y	15409613	15409733	120	UTY	25
Y	15410888	15411029	141	UTY	24
Y	15414761	15414876	115	UTY	23
Y	15417274	15417390	116	UTY	22
Y	15417396	15417432	36	UTY	22
Y	15417913	15417997	84	UTY	21
Y	15418061	15418087	26	UTY	20
Y	15435430	15435534	104	UTY	19
Y	15435540	15435645	105	UTY	19

Y	15436565	15436591	26 UTY	18
Y	15438161	15438235	74 UTY	17
Y	15447453	15448220	767 UTY	16
Y	15466878	15467282	404 UTY	15
Y	15467798	15467903	105 UTY	14
Y	15469752	15469854	102 UTY	13
Y	15471642	15471798	156 UTY	12
Y	15472382	15472413	31 UTY	11
Y	15478142	15478187	45 UTY	10
Y	15478193	15478278	85 UTY	10
Y	15481131	15481234	103 UTY	9
Y	15505734	15505778	44 UTY	8
Y	15508793	15508816	23 UTY	7
Y	15508822	15508857	35 UTY	7
Y	15522891	15522998	107 UTY	6
Y	15526610	15526678	68 UTY	5
Y	15560892	15560951	59 UTY	4
Y	15582087	15582114	27 UTY	3
Y	15591129	15591202	73 UTY	2
Y	15591390	15591509	119 UTY	1
Y	15591512	15591550	38 UTY	1
Y	15816263	15816320	57 TMSB4Y	1
Y	15817100	15817144	44 TMSB4Y	2
Y	16097746	16097826	80 VCY	2
Y	16168664	16168744	80 VCY1B	2
Y	16733995	16734125	130 NLGN4Y	1
Y	16734216	16734380	164 NLGN4Y	1
Y	16834992	16835115	123 NLGN4Y	2
Y	16936183	16936258	75 NLGN4Y	3
Y	16941641	16941831	190 NLGN4Y	4
Y	16942118	16942273	155 NLGN4Y	4
Y	16942345	16942404	59 NLGN4Y	4
Y	16952288	16952485	197 NLGN4Y	5
Y	16952642	16952933	291 NLGN4Y	5
Y	16953080	16953147	67 NLGN4Y	5
Y	19881419	19881781	362 XKRY	1
Y	20297994	20298356	362 XKRY2	1
Y	20708733	20709191	458 HSFY1	1
Y	20709667	20710245	578 HSFY1	2
Y	20710253	20710362	109 HSFY1	2
Y	20933816	20933925	109 HSFY2	2
Y	20933933	20934511	578 HSFY2	2
Y	20934987	20935445	458 HSFY2	1
Y	21749106	21749144	38 TXLNG2P	1
Y	21749150	21749398	248 TXLNG2P	1



Y	21751410	21751503	93 TXLNG2P	2
Y	21751964	21751994	30 TXLNG2P	3
Y	21759514	21759556	42 CYorf15B	1
Y	21761629	21761722	93 CYorf15B	2
Y	21764098	21764202	104 CYorf15B	3
Y	21765691	21766011	320 CYorf15B	4
Y	21867885	21868236	351 KDM5D	27
Y	21868322	21868329	7 KDM5D	26
Y	21868410	21868530	120 KDM5D	26
Y	21868675	21868754	79 KDM5D	25
Y	21869028	21869418	390 KDM5D	24
Y	21869423	21869587	164 KDM5D	24
Y	21869838	21869962	124 KDM5D	23
Y	21870146	21870314	168 KDM5D	22
Y	21870756	21870809	53 KDM5D	21
Y	21870813	21870904	91 KDM5D	21
Y	21871332	21871643	311 KDM5D	20
Y	21872257	21872291	34 KDM5D	19
Y	21872297	21872363	66 KDM5D	19
Y	21877265	21877390	125 KDM5D	18
Y	21877496	21877516	20 KDM5D	17
Y	21877522	21877630	108 KDM5D	17
Y	21877704	21877771	67 KDM5D	16
Y	21877777	21877895	118 KDM5D	16
Y	21878160	21878364	204 KDM5D	15
Y	21878477	21878553	76 KDM5D	14
Y	21882753	21882925	172 KDM5D	13
Y	21883011	21883159	148 KDM5D	12
Y	21885308	21885324	16 KDM5D	11
Y	21893657	21893821	164 KDM5D	10
Y	21893927	21894056	129 KDM5D	9
Y	21894465	21894626	161 KDM5D	8
Y	21897233	21897388	155 KDM5D	7
Y	21897502	21897630	128 KDM5D	6
Y	21901409	21901553	144 KDM5D	5
Y	21903199	21903307	108 KDM5D	4
Y	21903312	21903379	67 KDM5D	4
Y	21903616	21903748	132 KDM5D	3
Y	21905043	21905130	87 KDM5D	2
Y	21906266	21906425	159 KDM5D	1
Y	22737753	22737778	25 EIF1AY	1
Y	22741489	22741492	3 EIF1AY	2
Y	22741498	22741582	84 EIF1AY	2
Y	22744480	22744584	104 EIF1AY	3
Y	22746355	22746415	60 EIF1AY	4

Y	22749905	22749907	2 EIF1AY	5
Y	22749913	22749996	83 EIF1AY	5
Y	22751373	22751466	93 EIF1AY	6
Y	22754222	22754237	15 EIF1AY	7
Y	22918045	22918057	12 RPS4Y2	1
Y	22918660	22918746	86 RPS4Y2	2
Y	22921841	22921939	98 RPS4Y2	3
Y	22923165	22923264	99 RPS4Y2	4
Y	22930686	22930773	87 RPS4Y2	5
Y	22930779	22930867	88 RPS4Y2	5
Y	22941391	22941510	119 RPS4Y2	6
Y	22941516	22941557	41 RPS4Y2	6
Y	22942825	22942923	98 RPS4Y2	7
Y	59106535	59106629	94 SPRY3	1
Y	59106632	59106753	121 SPRY3	1
Y	59106761	59107008	247 SPRY3	1
Y	59107021	59107202	181 SPRY3	1
Y	59107211	59107411	200 SPRY3	1
Y	59222131	59222255	124 VAMP7	1
Y	59228287	59228354	67 VAMP7	2
Y	59230791	59230920	129 VAMP7	3
Y	59233165	59233262	97 VAMP7	4
Y	59272366	59272464	98 VAMP7	5
Y	59274548	59274814	266 VAMP7	6
Y	59330426	59330463	37 IL9R	1
Y	59335598	59335688	90 IL9R	2
Y	59336200	59336236	36 IL9R	3
Y	59336343	59336459	116 IL9R	4
Y	59336471	59336531	60 IL9R	4
Y	59337086	59337145	59 IL9R	5
Y	59338018	59338155	137 IL9R	6
Y	59340274	59340283	9 IL9R	8

**444496 bps (1.4%)**

**31025704 bps (100%)**