

CLASS I GENES

(HIGHEST OCCUPANCY OF PALB2 and BRCA1 BY UNBIASED CLUSTERING)

CHR	REFSEQ#	GENE SYMBOL	STRAND	LOCUS COORDINATES	
chr19	NM_016145	C19orf56	-	12639880	12641465
chr19	NM_004343	CALR	+	12910413	12916304
chr19	NM_001961	EEF2	-	3927053	3936461
chr19	NM_003755	EIF3G	-	10086689	10091599
chr19	NM_000146	FTL	+	54160377	54161948
chr19	NM_005354	JUND	-	18251562	18253432
chr19	NM_198988	LENG9	-	59664790	59666706
chr19	NR_036515	LOC284454	-	13806329	13808103
chr19	NM_023937	MRPL34	+	17277476	17278652
chr19	NM_002566	P2RY11	+	10083196	10087064
chr19	NM_014330	PPP1R15A	+	54067460	54071131
chr19	NM_012423	RPL13A	+	54682676	54687376
chr19	NR_026712	RPL13AP5	+	54682676	54686908
chr19	NM_000980	RPL18A	+	17831730	17835124
chr19	NR_001593	RPL18AP3	+	17831726	17835118
chr19	NM_033643	RPL36	+	5641271	5642678
chr19	NM_001015	RPS11	+	54691445	54694756
chr19	NM_001020	RPS16	-	44615686	44618458
chr19	NM_001031	RPS28	+	8292383	8293280
chr19	NM_001013	RPS9	+	59396537	59403327
chr19	NM_003407	ZFP36	+	44589326	44591885
chr17	NM_003786	ABCC3	+	46067216	46124062
chr17	NM_000018	ACADVL	+	7063876	7069309
chr17	NM_001185078	ARHGDI3	-	77418885	77422571
chr17	NM_000759	CSF3	+	35425139	35427592
chr17	NM_001893	CSNK1D	-	77793825	77824883
chr17	NM_004396	DDX5	-	59924835	59932946
chr17	NM_005801	EIF1	+	37098652	37101424
chr17	NM_001416	EIF4A1	+	7416780	7423048
chr17	NM_005324	H3F3B	-	71284109	71287455
chr17	NM_006460	HEXIM1	+	40580466	40585251
chr17	NM_000213	ITGB4	+	71229110	71265494
chr17	NM_032356	LSMD1	-	7700727	7701897
chr17	NM_001190452	MTRNR2L1	+	21946563	21948118
chr17	NM_021724	NR1D1	-	35502562	35510499
chr17	NM_080822	OVCA2	+	1892026	1893475
chr17	NM_002616	PER1	-	7984512	7996478
chr17	NM_000978	RPL23	-	34259846	34263579
chr17	NM_000984	RPL23A	+	24071126	24075501
chr17	NM_000988	RPL27	+	38403971	38408497
chr17	NM_000999	RPL38	+	69711389	69717614
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chr17	NM_032865	TNS4	-	35885605	35911380

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chr22	NM_001079539	XBP1	-	27520547	27526560
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chr18	NM_000985	RPL17	-	45268848	45272933
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chr2	NM_016441	CRIM1	+	36436873	36631782
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chr2	NM_002026	FN1	-	215933423	216009036
chr2	NM_005253	FOSL2	+	28469282	28491020
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chr15	NM_001003	RPLP1	+	67532212	67534938
chr2	NM_001199241	KYNU	+	143351664	143516355
chr2	NR_027251	LOC100129726	+	43307853	43309498
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chr2	NM_001130158	MYO1B	+	191818351	191998360
chr2	NM_005381	NCL	-	232027702	232037449
chr2	NM_006164	NFE2L2	-	177803278	177838105
chr2	NM_006196	PCBP1	+	70168088	70169838
chr2	NM_001100818	PID1	-	229596932	229844301
chr2	NM_005168	RND3	-	151032954	151052426
chr2	NM_000998	RPL37A	+	217071764	217074433
chr2	NM_001135592	RPS27A	+	55312542	55316493
chr2	NM_152386	SGPP2	+	222997565	223131861
chr2	NM_005415	SLC20A1	+	113119997	113137871
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chr16	NM_005953	MT2A	+	55199978	55200910
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chr16	NR_003142	SNHG9	+	1954997	1955506
chr10	NM_019058	DDIT4	+	73703682	73705803
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chr13	NM_002015	FOXO1	-	40027800	40138734
chr13	NM_005708	GPC6	+	92677078	93858274
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chr14	NM_005252	FOS	+	74815233	74818690
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chr1	NM_199173	BGLAP	+	154478574	154479747
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chr14	NR_002312	RPPH1	-	19881069	19881410
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chr1	NM_002036	DARC	+	157440426	157442914
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chr1	NM_004428	EFNA1	+	153366972	153374010
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chr1	NM_018948	ERRFI1	-	7994365	8008980
chr14	NM_004926	ZFP36L1	-	68324127	68329538
chr1	NM_198076	FAM36A	+	243065261	243074982
chr11	NM_001165	BIRC3	+	101693403	101713675
chr1	NR_002578	GAS5	-	172099661	172103748
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chr1	NM_003528	HIST2H2BE	-	148122633	148124856
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chr1	NM_175055	HIST3H2BB	+	226712430	226712882
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chr1	NR_024485	LOC100130093	+	225982862	225988678
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chr1	NR_037605	LOC100506046	+	172099008	172099703
chr1	NR_015434	LOC148413	+	1324772	1327289
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chr11	NR_002819	MALAT1	+	65021808	65030515
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chr11	NM_001005	RPS3	+	74788209	74794381
chr1	NM_004582	RABGGTB	+	76024473	76033352
chr1	NM_002923	RGS2	+	191044791	191048030
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chr1	NM_152228	TAS1R3	+	1256588	1259707
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chr12	NM_138425	C12orf57	+	6923463	6925426
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chr7	NM_001101	ACTB	-	5533304	5536758
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chr12	NR_002944	HNRNPA1P10	+	52960799	52964930
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chr7	NM_002214	ITGB8	+	20337249	20421907
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chr12	NM_005981	TSPAN31	+	56425050	56428293
chr12	NM_021009	UBC	-	123962144	123965540
chr7	NM_014390	SND1	+	127079437	127519895
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chr6	NM_005510	DOM3Z	-	32045566	32048011
chr3	NM_021101	CLDN1	-	191506183	191522929
chr6	NM_001402	EEF1A1	-	74282193	74287476
chr3	NM_001850	COL8A1	+	100840143	100997848
chr6	NM_001142800	EYS	-	64487834	66473839
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chr6	NM_003512	HIST1H2AC	+	26232351	26232897
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chr6	NM_021052	HIST1H2AE	+	26325126	26325690
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chr3	NM_002295	RPSA	+	39423207	39429036
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chr3	NR_002989	SNORA81	+	187987157	187987335
chr6	NM_001042425	TFAP2A	-	10504901	10527783
chr3	NM_001024847	TGFBR2	+	30622997	30710637
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chr5	NM_001024649	CANX	+	179058535	179091245
chr5	NM_004417	DUSP1	-	172127697	172130809
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chr20	NM_080676	MACROD2	+	13924145	15981841
chr5	NM_006098	GNB2L1	-	180596533	180603512
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chr20	NR_003604	NCRNA00275	+	47328121	47339202
chr5	NM_006805	HNRNPA0	-	137114971	137117938
chr5	NM_004499	HNRNPAB	+	177564113	177570790
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chr5	NM_000997	RPL37	-	40867186	40871144
chr5	NM_001025070	RPS14	-	149803984	149809512
chr5	NM_001025	RPS23	-	81604894	81609991

chr5	NM_001142298	SQSTM1	+	179165993	179197683
chr5	NM_003714	STC2	-	172674331	172689112
chr5	NM_005642	TAF7	-	140678240	140680535
chr5	NM_000358	TGFBI	+	135392482	135427406
chr5	NM_006058	TNIP1	-	150389698	150441190
chr5	NM_014402	UQCQRQ	+	132230217	132232435
chr4	NM_001511	CXCL1	+	74953972	74955819
chr4	NM_002089	CXCL2	-	75181617	75183861
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chr4	NM_000661	RPL9	-	39132139	39136963
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chr4	NM_001017369	SC4MOL	+	166468267	166483675
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chr9	NM_005347	HSPA5	-	127036947	127043487
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chr8	NM_000127	EXT1	-	118880782	119193239
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chr8	NR_003367	PVT1	+	128875960	129182681
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chr8	NM_000971	RPL7	-	74365427	74368423
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chrX	NM_006013	RPL10	+	153279764	153283874
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CLASS II GENES

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chr19	NM_001080543	C19orf29	-	3561626	3577813
chr19	NM_175871	C19orf39	+	11346382	11348627
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chr19	NM_032207	C19orf44	+	16468204	16493163
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chr19	NM_001033026	C19orf6	-	960649	972141
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chr17	NR_037447	MIR3676	+	8031217	8031302
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chr22	NM_022719	DGCR14	-	17497791	17512190
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chr22	NM_001013647	LOC646851	-	37304070	37382580
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chr22	NR_029479	MIRLET7B	+	44888229	44888312
chr22	NM_003776	MRPL40	+	17800035	17803596
chr22	NM_001003704	MTFP1	+	29151719	29155041
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chr22	NM_001199319	PEX26	+	16940685	16953797
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chr22	NM_012399	PITPNB	-	26577656	26645255
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chr18	NM_014177	C18orf55	+	69966725	69977184
chr18	NM_032142	CEP192	+	12981360	13115051
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chr18	NM_006101	NDC80	+	2561509	2606634
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chr2	NM_013325	ATG4B	+	242225699	242261944
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chr2	NM_001080539	CCDC150	+	197212600	197305775
chr2	NM_174931	CCDC75	+	37165097	37177242
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chr15	NM_001025248	DUT	+	46410912	46422862
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chr2	NR_024004	DDX11L2	-	114073074	114077764
chr2	NM_006773	DDX18	+	118288724	118306423
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chr15	NM_004663	RAB11A	+	63948849	63968846
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chr15	NM_015497	TMEM87A	-	40290017	40353047
chr15	NM_016213	TRIP4	+	62467055	62534555
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chr15	NM_006537	USP3	+	61583862	61670716
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chr10	NM_001001976	ATE1	-	123492614	123677536
chr10	NM_001001973	ATP5C1	+	7870098	7889768
chr16	NM_001184824	PRMT7	+	66902377	66948670
chr10	NM_016567	BCCIP	+	127502093	127532254
chr16	NM_024031	PRR14	+	30569741	30575235
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chr10	NM_153244	C10orf111	-	15177389	15179324
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chr16	NM_005611	RBL2	+	52025851	52083061
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chr16	NM_014771	RNF40	+	30681130	30694039
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chr16	NM_080594	RNPS1	-	2243100	2258414
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chr16	NM_015659	RSL1D1	-	11835555	11852943
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chr16	NM_133368	RSPRY1	+	55777741	55830448
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chr16	NM_014712	SETD1A	+	30876115	30903482
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chr10	NM_145247	C10orf78	+	105871805	105876133
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chr16	NM_032178	SLC7A6OS	-	66892018	66902369
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chr16	NR_002326	SNORA64	-	1952974	1953108
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chr10	NM_006023	CDC123	+	12277966	12332595
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chr16	NR_002450	SNORD68	+	88155338	88155410
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chr16	NM_006662	SRCAP	+	30617962	30658951
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chr16	NM_007108	TCEB2	-	2761415	2767298
chr16	NM_014972	TCF25	+	88467494	88505293
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chr16	NM_145911	ZNF23	-	70039003	70053618
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chr10	NM_014263	YME1L1	-	27439388	27483327
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chr10	NM_001002262	ZFYVE27	+	99486867	99510654
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chr10	NM_006954	ZNF33A	+	38339583	38389001
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chr1	NM_020247	ADCK3	+	225194560	225241869
chr1	NM_001127687	ADIPOR1	-	201176583	201194323
chr14	NM_001344	DAD1	-	22103646	22127983
chr14	NM_001163484	DCAF11	+	23653745	23664291
chr1	NM_017825	ADPRHL2	+	36327039	36332120
chr14	NM_020414	DDX24	-	93587020	93617311
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chr14	NM_004450	ERH	-	68916592	68934774
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chr14	NM_015091	FAM179B	+	44501165	44613384

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chr14	NM_203301	FBXO33	-	38935327	38971455
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chr1	NM_001077628	APH1A	-	148504422	148508156
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chr1	NM_022786	ARV1	+	229181445	229203102
chr14	NM_005113	GOLGA5	+	92330402	92376057
chr1	NM_001170535	ATAD3A	+	1437385	1459930
chr1	NM_031921	ATAD3B	+	1397026	1421445
chr1	NM_032852	ATG4C	+	63022364	63103529
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chr1	NM_001039457	ATP6V0B	+	44213188	44216559
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chr14	NM_024658	IPO4	-	23719264	23727964
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chr1	NM_001105530	CAP1	+	40278841	40310908
chr1	NM_006135	CAPZA1	+	112963597	113015764
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chr1	NM_152609	CNST	+	244796261	244898507
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chr1	NM_001199849	DAP3	+	153925505	153975424
chr1	NM_018122	DARS2	+	172060419	172094305
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chr1	NM_007204	DDX20	+	112099712	112111722
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chr1	NM_001039711	DEDD	-	159357391	159369102
chr1	NM_003676	DEGS1	+	222437550	222447765
chr1	NM_004401	DFFA	-	10443189	10455200
chr1	NM_004402	DFFB	+	3763704	3791853
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chr14	NM_080867	SOCS4	+	54563593	54585959
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chr1	NM_015291	DNAJC16	+	15725938	15770815
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chr1	NM_001077394	DPH5	-	101227768	101263950
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chr1	NM_001938	DR1	+	93584065	93600736
chr1	NM_178454	DRAM2	-	111461476	111484361
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chr11	NM_145018	C11orf82	+	82290384	82323347
chr11	NM_001085372	C11orf83	+	62195701	62197738
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chr1	NR_002328	GNRHR2	-	144221176	144227433
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chr11	NM_014633	CTR9	+	10729386	10757866
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chr1	NR_029622	MIR205	+	207672100	207672210
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chr1	NM_001145264	ROBLD3	+	154291140	154294925
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chr1	NM_025065	RPF1	+	84717507	84736621
chr1	NM_000983	RPL22	-	6167666	6182266
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chr1	NM_015203	RPRD2	+	148603613	148715665
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chr1	NM_006513	SARS	+	109558037	109582327
chr1	NM_194292	SASS6	-	100321689	100371099
chr1	NM_005698	SCAMP3	-	153492393	153498819
chr11	NM_006645	STARD10	-	72143421	72182398
chr11	NM_006819	STIP1	+	63710162	63728596
chr11	NM_152713	STT3A	+	124967948	124996490
chr1	NM_024041	SCNM1	+	149405140	149408238
chr11	NM_003164	STX5	-	62330944	62356136
chr1	NM_020423	SCYL3	-	168088427	168129700
chr1	NM_016176	SDF4	-	1142150	1157310
chr1	NM_001035511	SDHC	+	159550789	159601159
chr11	NM_032431	SYVN1	-	64651326	64658579
chr1	NM_001018067	SERBP1	-	67646080	67668711
chr11	NM_032811	TBRG1	+	123997951	124011032
chr1	NM_031459	SES2	+	28458592	28481589
chr1	NM_001145415	SETDB1	+	149165438	149203844
chr1	NM_006802	SF3A3	-	38195238	38228348
chr1	NM_005850	SF3B4	-	148161834	148166326
chr1	NM_199344	SFT2D2	+	166461878	166478712
chr11	NM_001037304	THYN1	-	133623382	133628470
chr11	NM_012456	TIMM10	-	57052511	57054808
chr1	NM_001103160	SH2D5	-	20918811	20931720
chr1	NM_030645	SH3BP5L	-	247071273	247086777
chr11	NM_024092	TMEM109	+	60437946	60447491
chr1	NM_016009	SH3GLB1	+	86942844	86986455
chr1	NM_001130041	SHC1	-	153201397	153213583
chr11	NM_032273	TMEM126A	+	85036610	85045245

chr11	NM_001193537	TMEM126B	+	85017269	85025231
chr1	NM_001102396	SIKE1	-	115113627	115124831
chr11	NM_016464	TMEM138	+	60886048	60893551
chr11	NM_199337	TMEM179B	+	62311449	62314448
chr1	NM_003051	SLC16A1	-	113255992	113300498
chr1	NM_006996	SLC19A2	-	167699772	167721832
chr11	NR_028491	TMEM41B	-	9258777	9292872
chr11	NM_001042463	TMEM80	+	685615	694129
chr11	NM_020644	TMEM9B	-	8925415	8942565
chr1	NM_014655	SLC25A44	+	154430353	154449211
chr11	NM_001144012	TMX2	+	57236570	57265021
chr1	NM_006516	SLC2A1	-	43163632	43197434
chr11	NR_037646	TMX2-CTNND1	+	57236570	57343228
chr11	NM_019009	TOLLIP	-	1252173	1287468
chr1	NM_012243	SLC35A3	+	100208127	100261594
chr11	NM_004620	TRAF6	-	36467298	36488398
chr11	NM_016146	TRAPPC4	+	118394450	118399594
chr1	NM_014437	SLC39A1	-	152198211	152206812
chr1	NM_001122837	SLC50A1	+	153374911	153377958
chr11	NM_017583	TRIM44	+	35640928	35787506
chr1	NM_015327	SMG5	-	154485638	154519244
chr1	NM_001174061	SMG7	+	181708128	181789951
chr1	NM_053052	SNAP47	+	225989319	226035555
chr11	NM_006292	TSG101	-	18458433	18505065
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chr1	NR_003035	SNORA16A	-	28780018	28780152
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chr1	NR_002976	SNORA44	-	28779479	28779611
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chr11	NM_022830	TUT1	-	62099092	62115685
chr1	NR_001456	SNORD38A	+	45016100	45016171
chr11	NM_004788	UBE4A	+	117735511	117775136
chr1	NR_002750	SNORD44	-	172101728	172101789
chr11	NM_015853	UBXN1	-	62200547	62203103
chr1	NR_003042	SNORD45C	+	76025344	76025422
chr1	NR_000024	SNORD46	+	45014750	45014848
chr1	NR_002746	SNORD47	-	172100129	172100206
chr11	NM_001040697	UEVLD	-	18509819	18566857
chr1	NR_000015	SNORD55	+	45014123	45014197
chr1	NR_002579	SNORD74	-	172103434	172103506
chr1	NR_003941	SNORD75	-	172102639	172102699
chr1	NR_003942	SNORD76	-	172102395	172102476
chr1	NR_003943	SNORD77	-	172102071	172102132
chr11	NM_020798	USP35	+	77577505	77603405
chr1	NR_003944	SNORD78	-	172101393	172101447
chr1	NR_003939	SNORD79	-	172101110	172101191
chr1	NR_003940	SNORD80	-	172100593	172100664

chr1	NR_003938	SNORD81	-	172099935	172099978
chr11	NM_021729	VPS11	+	118443702	118457898
chr11	NM_052875	VPS26B	+	133599770	133622896
chr1	NM_003094	SNRPE	+	202097362	202106903
chr11	NM_018093	WDR74	-	62356958	62364204
chr11	NM_182969	XRRA1	-	74229602	74337880
chr1	NM_138796	SPATA17	+	215871317	216107107
chr11	NM_020470	YIF1A	-	65808626	65813214
chr1	NM_015001	SPEN	+	16046945	16139537
chr11	NM_001143667	ZBED5	-	10830826	10836196
chr11	NM_024784	ZBTB3	-	62275010	62278232
chr11	NM_207340	ZDHHC24	-	66063310	66070247
chr11	NM_015457	ZDHHC5	+	57192049	57225235
chr11	NM_001197051	ZFP91	+	58103162	58145599
chr11	NR_024091	ZFP91-CNTF	+	58103162	58149781
chr11	NM_006782	ZFPL1	+	64608269	64612450
chr11	NM_003442	ZNF143	+	9439087	9506647
chr11	NM_024741	ZNF408	+	46678892	46684042
chr1	NM_001130440	SRP9	+	224032137	224044791
chr1	NM_005839	SRRM1	+	24842180	24872359
chr11	NM_004724	ZW10	-	113109118	113149635
chr1	NM_001191006	SRSF10	-	24165523	24179540
chr1	NM_001190987	SRSF11	+	70443952	70490289
chr1	NM_005626	SRSF4	-	29346836	29381224
chr12	NM_001173466	AAAS	-	51987506	52001679
chr1	NM_003145	SSR2	-	154245462	154257382
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chr12	NM_203444	ABCB9	-	121979491	122025705
chr12	NM_001136538	ACAD10	+	110608239	110679294
chr1	NM_017744	ST7L	-	112867663	112963563
chr1	NM_177424	STX12	+	27972280	28023550
chr12	NM_022496	ACTR6	+	99118704	99142332
chr1	NM_005819	STX6	-	179208798	179258669
chr1	NM_007269	STXBP3	+	109090807	109153671
chr1	NM_001105518	SWT1	+	183392814	183527536
chr1	NM_015484	SYF2	-	25421353	25431600
chr12	NM_001013620	ALG10B	+	36996823	37009795
chr12	NM_001001655	ALKBH2	-	108010375	108015676
chr1	NM_001193308	SYTL1	+	27541069	27553010
chr1	NM_001135218	TAF12	-	28802195	28842191
chr12	NM_001113402	AMN1	-	31715337	31773375
chr1	NM_005645	TAF13	-	109408520	109420147
chr1	NM_001201536	TAF1A	-	220797866	220829898
chr12	NM_016238	ANAPC7	-	109295087	109325918
chr12	NM_033121	ANKRD13A	+	108921617	108961618
chr1	NM_007375	TARDBP	+	10995265	11008136
chr1	NM_025150	TARS2	+	148726543	148746373

chr1	NM_001042552	TATDN3	+	211031792	211056790
chr1	NM_001079515	TBCE	+	233597350	233678903
chr1	NM_153035	TCEANC2	+	54291861	54338004
chr1	NM_003198	TCEB3	+	23942442	23961136
chr12	NM_001177	ARL1	-	100311033	100325703
chr12	NM_005719	ARPC3	-	109357088	109372541
chr12	NM_024095	ASB8	-	46827838	46837644
chr1	NM_022366	TFB2M	-	244770485	244796188
chr12	NM_005171	ATF1	+	49444055	49501210
chr1	NM_053055	THEM4	-	150112683	150148737
chr12	NM_001686	ATP5B	-	55318225	55326119
chr1	NM_006335	TIMM17A	+	200191241	200206412
chr1	NM_152902	TIPRL	+	166414794	166437975
chr12	NM_002973	ATXN2	-	110374400	110521863
chr1	NM_019026	TMCO1	-	163960151	164004759
chr12	NM_013449	BAZ2A	-	55275646	55316430
chr1	NM_001167830	TMED5	-	93387886	93418834
chr12	NM_024685	BBS10	-	75262396	75266353
chr1	NM_020141	TMEM167B	+	109434925	109441077
chr1	NM_138391	TMEM183A	+	201243156	201259820
chr1	NM_001079809	TMEM183B	+	201243158	201259291
chr1	NM_018252	TMEM206	-	210604438	210654890
chr1	NM_032125	TMEM222	+	27521222	27535478
chr12	NM_001487	BLOC1S1	+	54396084	54399758
chr1	NM_018056	TMEM39B	+	32311089	32341054
chr12	NR_037658	BLOC1S1-RDH5	+	54396084	54404793
chr1	NM_001168551	TMEM48	-	54003721	54076813
chr12	NM_006768	BRAP	-	110564332	110608173
chr1	NM_014313	TMEM50A	+	25537397	25561439
chr12	NM_021640	C12orf10	+	51979736	51987232
chr12	NM_018164	C12orf11	-	26949378	26982521
chr12	NM_013300	C12orf24	+	109390614	109412575
chr12	NM_032230	C12orf26	+	81276406	81397147
chr1	NM_004872	TMEM59	-	54269936	54291699
chr12	NR_027363	C12orf32	+	2856625	2868887
chr1	NM_016486	TMEM69	+	45926433	45932695
chr1	NR_026678	TMEM79	+	154519327	154528858
chr12	NM_020374	C12orf4	-	4467161	4517898
chr12	NM_017822	C12orf41	-	47333261	47362302
chr12	NM_001098673	C12orf44	+	50750024	50757546
chr12	NM_017915	C12orf48	+	101038085	101115428
chr12	NM_020375	C12orf5	+	4300619	4339451
chr12	NM_032848	C12orf52	+	112107937	112114502
chr1	NM_014765	TOMM20	-	233339280	233358879
chr12	NM_175874	C12orf60	+	14847772	14868058
chr1	NM_015602	TOR1AIP1	+	178118042	178155834
chr12	NM_032901	C12orf62	+	48792166	48800501

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chr1	NM_022371	TOR3A	+	177317734	177331752
chr12	NM_152269	C12orf65	+	122283796	122308459
chr1	NM_001031685	TP53BP2	-	222034217	222100297
chr12	NM_152440	C12orf66	-	62872685	62902343
chr1	NM_003292	TPR	-	184547408	184611080
chr1	NM_014408	TRAPPC3	-	36374759	36387654
chr12	NM_001135570	C12orf73	-	102868110	102875123
chr1	NM_025058	TRIM46	+	153412983	153424069
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chr1	NM_017846	TRNAU1AP	+	28752115	28777644
chr1	NM_001042369	TROVE2	+	191295626	191327529
chr12	NM_020898	CALCOCO1	-	52391168	52407574
chr1	NM_001127394	TSEN15	+	182287433	182309967
chr12	NM_018448	CAND1	+	65949327	65994655
chr1	NM_005999	TSNAX	+	229731021	229768892
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chr1	NM_001122835	TTC13	-	229108609	229181241
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chr1	NM_003594	TTF2	+	117404471	117447014
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chr1	NM_175852	TXLNA	+	32417931	32436473
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chr1	NM_001162916	TYW3	+	74971423	75004948
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chr1	NM_003115	UAP1	+	160797919	160836257
chr12	NM_006431	CCT2	+	68265474	68281624
chr1	NM_014847	UBAP2L	+	152459948	152509953
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chr1	NM_014176	UBE2T	-	200567407	200577717
chr1	NM_001105562	UBE4B	+	10015627	10163883
chr12	NM_000075	CDK4	-	56428269	56432431
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chr12	NM_025114	CEP290	-	86966920	87060124
chr1	NM_016406	UFC1	+	159390157	159395270
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chr1	NM_006004	UQCRH	+	46541966	46555034
chr1	NM_000374	UROD	+	45250391	45253928
chr1	NM_007122	USF1	-	159275664	159282381
chr1	NM_001017415	USP1	+	62674562	62690063
chr1	NM_001014443	USP21	+	159395877	159402140
chr1	NM_032236	USP48	-	21877378	21982275
chr1	NM_016037	UTP11L	+	38250970	38263084
chr1	NM_001185127	VAMP4	-	169935918	169978002

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chr12	NM_001164094	COP57A	+	6703410	6711302
chr1	NM_015836	WARS2	-	119375361	119484818
chr12	NM_032314	COQ5	-	119425464	119451347
chr12	NM_004373	COX6A1	+	119360286	119362912
chr1	NM_006784	WDR3	+	118273894	118304572
chr1	NM_001195831	WDR65	+	43410587	43492616
chr12	NM_001310	CREBL2	+	12656097	12689308
chr1	NM_024102	WDR77	-	111784034	111793353
chr12	NM_004075	CRY1	-	105909271	106011728
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chr1	NM_018053	XKR8	+	28159090	28167191
chr1	NM_004559	YBX1	+	42920652	42940607
chr1	NM_001198906	YY1AP1	-	153895856	153925447
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chr12	NM_016355	DDX47	+	12857546	12874182
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chr12	NM_175066	DDX51	-	131187092	131194833
chr1	NM_001122770	ZBTB37	+	172104115	172122397
chr12	NM_001111322	DDX54	-	112079360	112107667
chr12	NM_020936	DDX55	+	122652624	122671435
chr1	NM_194314	ZBTB41	-	195389436	195436295
chr1	NM_005341	ZBTB48	+	6562649	6571927
chr12	NM_003677	DENR	+	121803323	121821906
chr12	NM_152317	DEPDC4	-	99170172	99184988
chr1	NM_178547	ZBTB8OS	-	32859893	32888772
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chr1	NM_024772	ZMYM1	+	35317558	35354042
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chr1	NM_182976	ZNF326	+	90233265	90266682
chr12	NM_001037494	DYNLL1	+	119392042	119420681
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chr12	NM_006331	EMG1	+	6950204	6955426
chr1	NM_152373	ZNF684	+	40769819	40786428
chr1	NM_020832	ZNF687	+	149521414	149531005
chr1	NM_015911	ZNF691	+	43084866	43090733
chr12	NM_016570	ERGIC2	-	29384845	29425410
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chr1	NM_005455	ZRANB2	-	71301561	71319560
chr7	NM_001011553		7-Sep +	35807151	35911442

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chr7	NM_018238	AGK	+	140897546	141000678
chr7	NM_006303	AIMP2	+	6015407	6029991
chr12	NM_021953	FOXM1	-	2837109	2856564
chr12	NM_031412	GABARAPL1	+	10256755	10266991
chr7	NM_017621	ALKBH4	-	101883671	101892326
chr7	NM_020319	ANKMY2	-	16605925	16651967
chr12	NM_176818	GATC	+	119368623	119385939
chr12	NM_006836	GCN1L1	-	119049396	119116896
chr12	NM_152436	GLIPR1L2	+	74071155	74104087
chr7	NM_001037164	ARL4A	+	12692976	12697081
chr7	NM_001190996	ARPC1A	+	98761431	98801821
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chr12	NM_024312	GNPTAB	-	100663405	100748776
chr12	NM_005895	GOLGA3	-	131855567	131915361
chr7	NM_001003713	ATP5J2	-	98893719	98901760
chr12	NM_016072	GOLT1B	+	21545965	21562604
chr7	NM_001198879	ATP5J2-PTCD1	-	98852297	98901760
chr12	NM_001164372	GPN3	-	109374673	109390909
chr7	NM_001198909	ATP6V1F	+	128290092	128293139
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chr12	NM_003979	GPRC5A	+	12935222	12957867
chr7	NM_032408	BAZ1B	-	72492663	72574551
chr7	NM_001197244	BCL7B	-	72588618	72610001
chr7	NM_005868	BET1	-	93458935	93471626
chr12	NM_001516	GTF2H3	+	122684333	122711287
chr12	NM_001099650	GXYLT1	-	40761914	40824940
chr7	NM_001724	BPGM	+	133982070	134015107
chr7	NM_003910	BUD31	+	98844536	98855175
chr7	NM_138701	C7orf11	-	40138866	40140776
chr7	NR_026865	C7orf13	-	156123820	156126109
chr7	NM_001099858	C7orf25	-	42915396	42918214
chr7	NM_138446	C7orf30	+	23305464	23315705
chr7	NM_020192	C7orf36	+	39572527	39579005
chr7	NR_003697	C7orf40	-	44989151	44992784
chr7	NM_017994	C7orf42	+	66023637	66060973
chr12	NM_001171993	HPD	-	120761815	120810900
chr7	NM_024033	C7orf49	-	134501071	134506072
chr7	NM_197964	C7orf55	+	138676436	138681081
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chr7	NM_001039706	C7orf63	+	89712423	89778313
chr7	NM_032120	C7orf64	+	91996022	92004759
chr12	NM_001127582	ING4	-	6629964	6642569
chr7	NM_001098786	C7orf68	+	127883119	127885708
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chr12	NM_006390	IPO8	-	30673181	30740196
chr12	NM_014301	ISCU	+	107480423	107487289
chr12	NM_018463	ITFG2	+	2792047	2804498
chr7	NM_006136	CAPZA2	+	116289798	116346549
chr7	NM_032982	CASP2	+	142695429	142714911
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chr12	NM_031954	KCTD10	-	108370842	108399538
chr7	NM_007276	CBX3	+	26207623	26219501
chr12	NM_001042603	KDM5A	-	259483	368881
chr7	NM_017667	CCDC132	+	92699588	92826274
chr12	NM_014802	KIAA0528	-	22492784	22588719
chr12	NM_015275	KIAA1033	+	104025621	104087036
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chr7	NM_001009186	CCT6A	+	56086871	56099176
chr7	NM_003718	CDK13	+	39956483	40103258
chr7	NM_004935	CDK5	-	150381831	150385985
chr7	NM_016139	CHCHD2	-	56136759	56141681
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chr12	NM_007043	KRR1	-	74177685	74191685
chr7	NM_152755	CNPY4	+	99555200	99561064
chr7	NM_006833	COPS6	+	99524518	99527758
chr12	NM_001170803	LARP4	+	49080858	49160055
chr12	NM_001167614	LEMD3	+	63849617	63928408
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chr7	NM_181581	DUS4L	+	106991667	107006204
chr7	NM_001134335	EIF2AK1	-	6028403	6065386
chr7	NM_001037283	EIF3B	+	2360999	2386903
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chr12	NM_198578	LRRK2	+	38905079	39049353
chr12	NM_000895	LTA4H	-	94918741	94953496
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chr12	NM_006337	MCRS1	-	48238352	48248178
chr12	NM_006838	METAP2	+	94391952	94433744
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chr7	NM_021167	GATAD1	+	91914700	91926678
chr12	NM_014730	MLEC	+	119609331	119624050
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chr12	NM_015509	NECAP1	+	8126073	8141640
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chr12	NM_001017956	OS9	+	56374004	56401607
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chr7	NM_001194990	MEPCE	+	99864348	99869685
chr12	NM_025126	RNF34	+	120322284	120346538
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chr12	NR_026825	RPSAP52	-	64438067	64507021
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chr7	NM_053035	MRPS33	-	140352429	140361250
chr7	NM_006980	MTERF	-	91339956	91347952
chr7	NM_145808	MTPN	-	135262042	135312744
chr7	NM_001190487	MTRNR2L6	+	142053693	142055088
chr7	NM_016200	NAA38	+	117611321	117631329
chr12	NR_002737	SNORD59A	-	55325077	55325152
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chr7	NM_005011	NRF1	+	129038790	129184158
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chr12	NM_022491	SUDS3	+	117298740	117340223
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chr7	NM_007342	NUPL2	+	23187970	23207155
chr12	NM_018009	TAPBPL	+	6431437	6441749
chr12	NM_004178	TARBP2	+	52180971	52186482
chr12	NM_001146213	TBC1D15	+	70519753	70606896
chr12	NM_013254	TBK1	+	63132106	63182166
chr12	NM_005996	TBX3	-	113592441	113606352
chr12	NM_001143852	TCHP	+	108822461	108840257
chr12	NM_003211	TDG	+	102883722	102906786
chr12	NM_031435	THAP2	+	70343943	70360695
chr12	NM_016056	TMBIM4	-	64816983	64850074
chr12	NM_003217	TMBIM6	+	48421559	48444984
chr7	NM_000466	PEX1	-	91954272	91995781
chr12	NM_006815	TMED2	+	122635028	122648641
chr12	NM_001143841	TMEM106C	+	46643596	46648928
chr7	NR_033436	PHF14	+	10980023	11175775
chr12	NM_001193453	TMEM116	-	110853469	110935406
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chr7	NM_004279	PMPCB	+	102725108	102742369
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chr12	NM_016399	TRIAP1	-	119366146	119368598
chr12	NM_001172697	TSFM	+	56462794	56482906
chr7	NR_003655	POLR2J4	-	43947018	44025273
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chr12	NM_001160408	TULP3	+	2870293	2920567
chr7	NM_005837	POP7	+	100141611	100143059
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chr12	NM_130466	UBE3B	+	108399821	108458890

chr12	NM_006313	USP15	+	60940453	61086165
chr12	NM_032663	USP30	+	107974762	108010214
chr12	NM_001098536	USP5	+	6831545	6846056
chr12	NM_014231	VAMP1	-	6441664	6450104
chr12	NM_017599	VEZT	+	94135652	94220697
chr12	NM_016226	VPS29	-	109413712	109424299
chr12	NM_022916	VPS33A	-	121282046	121317021
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chr7	NM_002803	PSMC2	+	102775324	102795892
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chr7	NM_005402	RALA	+	39629686	39714242
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chr7	NM_001099695	REPIN1	+	149696811	149702066
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chr12	NM_001004304	ZNF740	+	51860801	51870921
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chr21	NM_001003696	ATP5J	-	26018661	26029836
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chr7	NM_001128852	SRRT	+	100310636	100324221
chr7	NM_003143	SSBP1	+	141084644	141096726
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chr21	NM_058182	FAM165B	+	34669618	34683322
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chr21	NM_006948	HSPA13	-	14665307	14677380
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chr7	NM_001130475	THAP5	-	107989906	107997403
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chr7	NM_017528	WBSCR22	+	72735833	72750478
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chr21	NM_153682	PIGP	-	37359533	37367328
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chr21	NM_015227	POFUT2	-	45508270	45532239
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chr21	NM_003683	RRP1	+	44033845	44048411
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chr21	NM_080860	RSPH1	-	42765665	42789470
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chr21	NM_017438	SETD4	-	36328708	36354686
chr7	NM_021994	ZNF277	+	111633878	111771225
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chr7	NM_032164	ZNF394	-	98928789	98935813
chr7	NM_020781	ZNF398	+	148454440	148511051
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chr21	NM_138927	SON	+	33837219	33871682
chr7	NM_145115	ZNF498	+	99052506	99067966
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chr21	NM_003274	TRAPPC10	+	44256633	44350860
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chr21	NM_001001894	TTC3	+	37367440	37497278
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chr6	NM_013375	ABT1	+	26705158	26708256
chr21	NM_033661	WDR4	-	43136272	43172747
chr6	NM_005891	ACAT2	+	160102978	160120077
chr6	NM_001160094	ACOT13	+	24775241	24813274
chr21	NM_058181	YBEY	+	46530694	46542093
chr6	NM_182503	ADAT2	-	143785661	143813534
chr6	NM_032741	AGPAT1	-	32243960	32253866
chr3	NM_018358	ABCF3	+	185386556	185394489
chr3	NM_018394	ABHD10	+	113180517	113194900
chr3	NM_016006	ABHD5	+	43707378	43739221
chr6	NM_018064	AKIRIN2	-	88441296	88468704
chr6	NM_001634	AMD1	+	111302679	111323606
chr3	NM_032169	ACAD11	-	133759671	133861665
chr3	NM_014049	ACAD9	+	130081022	130114647
chr6	NM_032131	ARMC2	+	109276311	109402045
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chr6	NM_003782	B3GALT4	+	33352894	33354580
chr6	NM_001199697	BAG6	-	31714783	31728456
chr3	NM_001006941	ALG3	-	185442810	185450007
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chr3	NR_024400	ANAPC13	-	135679235	135687555
chr3	NM_001025205	AP2M1	+	185375327	185384573
chr3	NM_001640	APEH	+	49686438	49695938
chr3	NM_001660	ARF4	-	57532129	57558255
chr3	NM_006321	ARIH2	+	48931284	48997975
chr3	NM_032146	ARL6	+	98966284	99000063
chr3	NM_018184	ARL8B	+	5138929	5197601
chr3	NM_014065	ASTE1	-	132215410	132228336
chr3	NM_022488	ATG3	-	113734048	113763175
chr6	NM_006443	C6orf108	-	43301344	43305189
chr3	NM_001690	ATP6V1A	+	114948555	115013595
chr6	NM_001029863	C6orf120	+	169844181	169848327
chr3	NM_001184	ATR	-	143650766	143780358
chr3	NM_032166	ATRIP	+	48463221	48482058
chr6	NM_145063	C6orf130	-	41142508	41148166
chr6	NM_001109938	C6orf136	+	30722794	30728966
chr3	NM_001003694	BRPF1	+	9748433	9764699
chr3	NM_000060	BTD	+	15618258	15662329
chr3	NM_016589	C3orf1	+	120700057	120725815
chr3	NM_018462	C3orf10	+	10132332	10143874
chr3	NM_015412	C3orf17	-	114203981	114221245
chr6	NM_152730	C6orf170	-	121442325	121697343
chr3	NM_016474	C3orf19	+	14668256	14689170
chr3	NM_173826	C3orf23	+	44354947	44425944
chr6	NM_001142468	C6orf203	+	107456099	107479239
chr6	NM_024573	C6orf211	+	151815114	151832925
chr3	NM_032898	C3orf34	-	197917544	197923520
chr3	NM_173824	C3orf38	+	88281582	88289805
chr6	NM_025258	C6orf27	-	31841349	31853087
chr6	NR_026736	C6orf52	-	10779636	10803016
chr3	NR_026991	C3orf47	+	130517803	130526102
chr6	NM_018322	C6orf64	-	39179817	39190843
chr6	NM_018341	C6orf70	+	169893645	169923542
chr6	NM_152734	C6orf89	+	36961617	37004718
chr6	NM_001170692	CAGE1	-	7271885	7334941
chr3	NM_173654	C3orf64	-	69107057	69145464
chr6	NM_015439	CCDC28A	+	139136349	139156149
chr3	NR_027331	C3orf74	-	52071149	52074168
chr6	NM_001013399	CCNC	-	100096983	100123411
chr3	NM_001031703	C3orf75	-	47512133	47530203
chr3	NM_001124767	C3orf78	+	52545660	52549626
chr6	NM_001142401	CD164	-	109794409	109810455

chr6	NM_015891	CDC40	+	110608316	110660115
chr6	NM_001253	CDC5L	+	44463279	44522758
chr6	NM_015076	CDK19	-	111037873	111243105
chr3	NM_014296	CAPN7	+	15222736	15269427
chr6	NM_018132	CENPQ	+	49539054	49568779
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chr3	NM_181426	CCDC39	-	181814489	181879977
chr3	NM_024661	CCDC51	-	48448583	48456533
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chr3	NM_022903	CCDC71	-	49174971	49178789
chr3	NM_015933	CCDC72	+	48456689	48460541
chr3	NM_199511	CCDC80	-	113806098	113842667
chr6	NM_017421	COQ3	-	99924068	99948803
chr6	NM_001865	COX7A2	-	76004110	76010364
chr6	NM_001320	CSNK2B	+	31741635	31745822
chr6	NM_001168370	CUL7	-	43113332	43129661
chr6	NM_015089	CUL9	+	43257899	43300303
chr6	NM_001014433	CUTA	-	33492296	33494043
chr3	NM_001777	CD47	-	109244630	109292625
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chr3	NM_001789	CDC25A	-	48173671	48204805
chr6	NM_001141969	DAXX	-	33394312	33398771
chr3	NM_001134422	CDV3	+	134775123	134791808
chr3	NM_001407	CELSR3	-	48648899	48675352
chr3	NM_001042384	CEP63	+	135687264	135776545
chr3	NM_001195308	CGGBP1	-	88183789	88281706
chr6	NM_022047	DEF6	+	35373572	35397526
chr3	NM_001098502	CHCHD4	-	14128577	14141372
chr3	NM_014043	CHMP2B	+	87359102	87387388
chr6	NM_001164239	DHX16	-	30728874	30748809
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chr6	NM_020185	DUSP22	+	237100	296355
chr3	NM_182523	CMC1	+	28258127	28336267
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chr3	NM_001127192	CNBP	-	130369347	130385500
chr3	NM_015442	CNOT10	+	32701701	32790358
chr6	NM_018100	EFHC1	+	52392952	52468542
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chr3	NM_016094	COMMD2	-	150938946	150952976
chr3	NM_004766	COPB2	-	140559122	140591212
chr3	NM_016128	COPG	+	130451142	130479306
chr3	NM_005694	COX17	-	120871061	120878933
chr3	NM_015513	CRELD1	+	9950523	9962097
chr6	NM_032448	FAM120B	+	170457768	170556162
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chr3	NM_001195643	DHFR1L1	-	95259455	95264757
chr3	NM_014966	DHX30	+	47819402	47866690
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chr3	NM_032839	DIRC2	+	123996590	124082676
chr6	NM_014845	FIG4	+	110119116	110253327
chr3	NM_016306	DNAJB11	+	187771160	187786283
chr3	NM_145261	DNAJC19	-	182184191	182190256
chr6	NM_005803	FLOT1	-	30803489	30818432
chr3	NM_001047434	DPH3	-	16273571	16281500
chr6	NM_033260	FOXQ1	+	1257674	1259993
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chr6	NM_015050	FTSJD2	+	37508884	37557262
chr3	NM_014648	DZIP3	+	109791026	109896383
chr3	NM_033083	EAF1	+	15444067	15459124
chr3	NM_014693	ECE2	+	185450138	185493513
chr3	NM_032025	EIF2A	+	151747263	151786493
chr3	NM_003907	EIF2B5	+	185335503	185345793
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chr6	NM_001017408	GOPC	-	117988125	118030398
chr3	NM_014805	EPM2AIP1	-	37002360	37009799
chr3	NM_001033030	FAIM	+	139810231	139834903
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chr6	NM_022107	GPSM3	-	32266520	32271278
chr3	NM_014367	FAM162A	+	123585712	123611651
chr6	NM_001512	GSTA4	-	52950704	52968137
chr3	NM_001018115	FANCD2	+	10043112	10118614
chr6	NM_001517	GTF2H4	+	30983955	30989859
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chr3	NM_001105573	FBXO45	+	197780121	197800327
chr6	NM_001145158	HBS1L	-	135323213	135417729
chr6	NR_026790	HCG11	+	26629912	26635591
chr3	NR_033373	FLJ39534	+	47180863	47260610
chr6	NM_001527	HDAC2	-	114364012	114399052
chr6	NM_138571	HINT3	+	126319553	126343082
chr3	NM_145262	GLYCTK	+	52296875	52304312
chr3	NM_001172713	GOLGA4	+	37259685	37383374
chr3	NM_004487	GOLGB1	-	122864737	122951292
chr6	NM_138720	HIST1H2BD	+	26266327	26279555
chr6	NM_080593	HIST1H2BK	-	27214050	27222616
chr3	NM_005513	GTF2E1	+	121944247	121984606
chr3	NM_014170	GTPBP8	+	114192489	114202911
chr3	NM_012260	HACL1	-	15577243	15618134
chr3	NM_016173	HEMK1	+	50581912	50597425
chr3	NM_024610	HSPBAP1	-	123941535	123995340

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chr3	NM_006764	IFRD2	-	50300166	50305030
chr3	NM_052985	IFT122	+	130641657	130721881
chr3	NM_001190241	IFT80	-	161457467	161600014
chr3	NM_032732	IL17RC	+	9933763	9950314
chr6	NM_006353	HMGNA4	+	26646550	26655143
chr3	NM_001006115	IP6K1	-	49736731	49798977
chr6	NM_005346	HSPA1B	+	31903490	31906010
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chr3	NM_032263	IQCG	-	199100342	199171283
chr3	NM_001199469	ISY1	-	130328948	130362763
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chr3	NM_020696	KIAA1143	-	44765239	44778177
chr3	NM_020817	KIAA1407	-	115165673	115258150
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chr3	NM_020242	KIF15	+	44778212	44869752
chr3	NM_001134878	KIF9	-	47244519	47299341
chr6	NM_015323	KIAA0776	+	97076422	97109872
chr6	NM_014895	KIAA1009	-	84890678	84994054
chr3	NM_025010	KLHL18	+	47299333	47363310
chr6	NM_153369	KIAA1919	+	111687174	111696954
chr3	NM_002268	KPNA4	-	161700655	161766070
chr6	NM_002263	KIFC1	+	33467290	33485677
chr6	NM_201521	KLC4	+	43135349	43150811
chr6	NM_057161	KLHDC3	+	43089954	43097009
chr6	NM_145315	LACE1	+	108722790	108950944
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chr6	NM_181336	LEMD2	-	33846967	33864884
chr3	NR_028303	LOC100302640	-	108311326	108442175
chr6	NR_037169	LOC100507547	-	32228556	32230120
chr6	NR_037593	LOC100526820	-	163754086	163754972
chr6	NM_001135575	LOC221710	+	11202251	11246955
chr3	NR_003266	LOC220729	-	198825294	198839149
chr3	NR_033947	LOC644714	-	45694660	45705378
chr6	NM_018214	LRRC1	+	53767736	53896878
chr6	NM_032860	LTV1	+	144206200	144226636
chr3	NM_001099678	LRRC58	-	121526265	121550876
chr6	NM_020466	LYRM2	-	90398663	90405195
chr3	NM_001134369	LRRFIP2	-	37069120	37192855
chr3	NM_018385	LSG1	-	195842805	195874495
chr3	NM_014463	LSM3	+	14195231	14214873
chr6	NM_003188	MAP3K7	-	91282073	91353628
chr3	NM_020347	LZTFL1	-	45840449	45858625
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chr6	NM_015979	MED23	-	131936798	131991056
chr3	NR_031650	MIR1248	+	187987154	187987260
chr6	NR_036096	MIR3143	+	27223383	27223446
chr6	NM_014161	MRPL18	+	160131481	160139451
chr6	NM_001193343	MRPS18A	-	43746911	43763527
chr6	NM_014046	MRPS18B	+	30693464	30702153
chr6	NM_020662	MRS2	+	24511131	24533795
chr6	NM_014341	MTCH1	-	37043894	37061927
chr3	NM_014160	MKRN2	+	12573593	12600210
chr3	NM_000249	MLH1	+	37009844	37067341
chr6	NM_001114184	MTRF1L	-	153350092	153365618
chr6	NM_000255	MUT	-	49506031	49539000
chr3	NM_007208	MRPL3	-	132663734	132704550
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chr3	NM_020191	MRPS22	+	140545550	140558577
chr3	NM_022497	MRPS25	-	15065022	15081820
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chr3	NM_020998	MST1	-	49696383	49701200
chr6	NR_026805	NCRNA00271	+	135860631	136053669
chr6	NM_014165	NDUFAF4	-	97443907	97452488
chr3	NM_001185118	MYNN	+	170973546	170990198
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chr6	NM_002505	NFYA	+	41148684	41178124
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chr6	NM_016167	NOL7	+	13723537	13729106
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chr3	NM_032316	NICN1	-	49434769	49441761
chr6	NM_005124	NUP153	-	17723247	17814797
chr6	NM_198887	NUP43	-	150087149	150109381
chr6	NM_138459	NUS1	+	118103309	118138579
chr3	NM_020345	NKIRAS1	-	23908575	23933541
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chr3	NM_015938	NMD3	+	162421792	162452489
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chr3	NM_006545	NPRL2	-	50359922	50363490
chr3	NM_015560	OPA1	+	194793626	194898294
chr6	NM_001197259	ORC3	+	88356503	88433891
chr6	NM_017906	PAK1IP1	+	10803173	10817956
chr3	NM_138381	OXNAD1	+	16281670	16322598

chr3	NM_001145391	OXSM	+	25806566	25811029
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chr6	NM_003630	PEX3	+	143813610	143853444
chr6	NM_000287	PEX6	-	43039588	43054959
chr3	NM_001037639	PARL	-	185029866	185085387
chr3	NM_001003931	PARP3	+	51951400	51957923
chr3	NM_018313	PBRM1	-	52554407	52694906
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chr6	NM_017934	PHIP	-	79700854	79844730
chr3	NM_005017	PCYT1A	-	197449649	197498981
chr3	NM_145859	PDCD10	-	168884388	168935345
chr3	NM_001162429	PDCD6IP	+	33815069	33886199
chr3	NM_177966	PDE12	+	57517020	57522808
chr6	NM_181794	PKIB	+	122834760	123089217
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chr3	NM_001166304	PIGX	+	197923641	197947273
chr6	NM_006502	POLH	+	43651855	43696238
chr6	NM_016059	PPIL1	-	36930583	36950778
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chr3	NM_001145319	PLS1	+	143797918	143915195
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chr6	NM_020320	RARS2	-	88280814	88356454
chr6	NM_002904	RDBP	-	32027842	32034843
chr3	NM_005051	QARS	-	49108368	49117175
chr3	NM_017730	QRICH1	-	49042145	49106508
chr3	NM_024638	QTRTD1	+	115258300	115289958
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chr3	NM_004162	RAB5A	+	19963575	20001671
chr3	NM_004637	RAB7A	+	129927668	130016331
chr3	NM_173825	RABL3	-	121888217	121944074
chr3	NM_020165	RAD18	-	8893879	8980159
chr6	NM_031480	RIOK1	+	7335060	7363269
chr3	NM_002880	RAF1	-	12600099	12680700
chr3	NM_002886	RAP2B	+	154362718	154368953
chr6	NM_017909	RMND1	-	151767681	151815009

chr6	NM_030963	RNF146	+	127629712	127651197
chr3	NM_013286	RBM15B	+	51403738	51410376
chr6	NM_025236	RNF39	-	30146021	30151607
chr6	NM_006913	RNF5	+	32254139	32256548
chr6	NR_003129	RNF5P1	+	32254209	32256545
chr3	NM_181573	RFC4	-	187990375	188007178
chr3	NM_052859	RFT1	-	53097540	53139510
chr6	NM_032194	RPF2	+	111409983	111453487
chr3	NM_017819	RG9MTD1	+	102763401	102767779
chr6	NM_198486	RPL7L1	+	42955648	42962709
chr3	NM_001664	RHOA	-	49371582	49424530
chr3	NM_022064	RNF123	+	49701993	49733966
chr3	NM_001201370	RNF7	+	142939740	142948335
chr6	NM_031924	RSPH3	-	159318253	159341186
chr3	NM_000986	RPL24	-	102882623	102888253
chr3	NM_000994	RPL32	-	12851443	12858081
chr3	NR_003111	RPL32P3	-	130584366	130600972
chr6	NM_032730	RTN4IP1	-	107125595	107184066
chr6	NM_001007464	RWDD1	+	116999275	117021129
chr6	NM_033411	RWDD2A	+	83959750	83962975
chr3	NM_001098783	RPP14	+	58267011	58280960
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chr3	NM_004704	RRP9	-	51942485	51950962
chr6	NM_052923	SCAND3	-	28647385	28663091
chr3	NM_003707	RUVBL1	-	129282489	129325361
chr3	NM_014016	SACM1L	+	45705757	45761904
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chr6	NM_015491	SFRS18	-	99954561	99979928
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chr3	NR_003264	SDHAP1	-	197171188	197201547
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chr6	NM_001193267	SIRT5	+	13682770	13722764
chr6	NM_006929	SKIV2L	+	32034559	32045511
chr3	NM_021237	SELK	-	53894265	53901029
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chr3	NM_014445	SERP1	-	151742469	151747118
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chr6	NM_001044305	SMAP1	+	71434199	71628437
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chr3	NM_001104647	SLC25A36	+	142143351	142181475
chr6	NR_002436	SNORA33	+	133180050	133180183
chr6	NR_002435	SNORD100	+	133179633	133179709
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chr6	NR_002745	SNORD48	+	31911018	31911082
chr6	NR_002743	SNORD50A	-	86443730	86443805
chr6	NR_003044	SNORD50B	-	86444025	86444096
chr6	NR_003065	SNORD84	-	31616856	31616934
chr6	NM_020468	SNX14	-	86271933	86360348
chr6	NM_003795	SNX3	-	108639409	108689157
chr3	NM_001002800	SMC4	+	161600123	161635435
chr3	NR_002588	SNORA4	+	187988095	187988232
chr3	NR_002586	SNORA63	+	187987781	187987916
chr6	NM_003017	SRSF3	+	36670067	36680222
chr6	NR_026717	STK19	+	32046930	32057202
chr3	NR_002587	SNORD2	+	187985278	187985348
chr3	NM_014041	SPCS1	+	52714896	52717237
chr3	NM_001080415	SR140	+	144203061	144262257
chr3	NM_007107	SSR3	-	157740622	157755667
chr6	NM_005643	TAF11	-	34953532	34963797
chr6	NM_003190	TAPBP	-	33375449	33390142
chr3	NM_178862	STT3B	+	31549494	31652560
chr6	NM_001143964	TBC1D7	-	13413162	13436766
chr6	NM_001172085	TBP	+	170705345	170723883
chr3	NM_001164674	SUMF1	-	4377828	4483966
chr3	NM_006354	TADA3	-	9796653	9809420
chr3	NM_001199198	TBC1D23	+	101462375	101526784
chr6	NM_174910	TCTE3	-	169882139	169893563
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chr6	NM_016614	TDP2	-	24758183	24775094
chr3	NM_022171	TCTA	+	49424642	49428913
chr3	NM_152773	TCTEX1D2	-	197502486	197529556
chr3	NM_001129884	TEX264	+	51680261	51713379
chr6	NM_016020	TFB1M	-	155618955	155677309
chr3	NM_001007565	TFG	+	101910823	101950500
chr3	NM_001128148	TFRC	-	197260551	197293429
chr6	NM_014051	TMEM14A	+	52643842	52659344
chr6	NM_001127711	TMEM14B	+	10855980	10865200
chr6	NM_001165258	TMEM14C	+	10831133	10839348
chr3	NM_001114092	THUMPD3	+	9379716	9403475
chr6	NM_145316	TMEM217	-	37287931	37333391
chr6	NM_001143958	TMEM30A	-	76019357	76051352
chr6	NM_001134493	TOMM6	+	41863158	41865612
chr3	NM_018447	TMEM111	-	9980635	10003522
chr3	NM_007024	TMEM115	-	50367183	50371943
chr3	NM_018266	TMEM39A	-	120632390	120665161
chr3	NM_080652	TMEM41A	-	186690082	186699539
chr3	NM_024334	TMEM43	+	14141440	14160181
chr3	NM_007114	TMF1	-	69151667	69184174

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chr6	NM_001031712	TRMT11	+	126349268	126402113
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chr3	NM_001068	TOP2B	-	25614478	25680792
chr3	NM_001142646	TPRA1	-	128774601	128792258
chr6	NM_016021	UBE2J1	-	90093062	90119338
chr3	NM_182916	TRNT1	+	3143599	3165706
chr6	NM_015255	UBR2	+	42639737	42769221
chr3	NM_001145393	TSEN2	+	12500930	12549820
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chr6	NM_001080481	USP45	-	99986905	100069973
chr6	NM_006295	VAR5	-	31853275	31871691
chr6	NM_001167733	VAR52	+	30989960	31002214
chr3	NM_001128161	UBP1	-	33404831	33456901
chr6	NM_022553	VPS52	-	33326026	33347640
chr6	NM_016485	VTA1	+	142510102	142583778
chr6	NM_001024934	WASF1	-	110527714	110607900
chr3	NM_003365	UQCRC1	-	48611435	48622102
chr6	NM_001164267	WDR46	-	33354857	33365282
chr3	NM_001199161	USP19	-	49120482	49133375
chr6	NM_020135	WRNIP1	+	2710664	2730978
chr3	NM_003363	USP4	-	49289580	49352540
chr6	NM_020750	XPO5	-	43598045	43651790
chr6	NM_015388	YIPF3	-	43587542	43592706
chr6	NM_152735	ZBTB9	+	33530333	33533298
chr3	NM_001171904	VPRBP	-	51408337	51509058
chr3	NM_020839	WDR48	+	39068510	39112885
chr6	NM_019110	ZKSCAN4	-	28320468	28327981
chr6	NM_003447	ZNF165	+	28156460	28165319
chr3	NM_182627	WDR53	-	197765455	197779810
chr6	NM_007149	ZNF184	-	27526499	27548876
chr3	NM_019069	WDR5B	-	123613389	123617572
chr3	NM_018031	WDR6	+	49019640	49028390
chr6	NM_006298	ZNF192	+	28217694	28233215
chr6	NM_001199479	ZNF193	+	28301007	28309243
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chr3	NM_001145769	XPC	-	14161648	14195176
chr3	NM_001042604	XRN1	-	143508138	143649543
chr6	NM_001076781	ZNF391	+	27464502	27477206
chr6	NM_003427	ZNF76	+	35335487	35371738
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chr3	NM_014415	ZBTB11	-	102850972	102878678
chr6	NR_026751	ZNRD1-AS1	-	30076766	30136940
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chr3	NM_022470	ZMAT3	-	180217706	180272350
chr3	NM_001024855	ZNF197	+	44641514	44664967

chr3	NM_003420	ZNF35	+	44665236	44677287
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chr3	NM_016331	ZNF639	+	180524244	180536014
chr5	NM_018046	AGGF1	+	76361965	76396814
chr5	NM_001167595	AMACR	-	34022847	34043977
chr5	NM_017747	ANKHD1	+	139761582	139899625
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chr5	NM_023039	ANKRA2	-	72883780	72897267
chr5	NM_032290	ANKRD32	+	93980146	94057329
chr5	NM_001284	AP3S1	+	115205517	115277677
chr5	NM_006051	APBB3	-	139918036	139924373
chr5	NM_001127511	APC	+	112071100	112209834
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chr20	NM_015338	ASXL1	+	30409807	30490783
chr5	NM_020801	ARRDC3	-	90700296	90714905
chr20	NM_139321	ATRN	+	3399664	3579769
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chr5	NM_198150	ARSK	+	94916580	94966562
chr5	NM_004707	ATG12	-	115191792	115205447
chr5	NM_004045	ATOX1	-	151102575	151118403
chr20	NM_001191	BCL2L1	-	29715921	29774317
chr5	NM_007255	B4GALT7	+	176959724	176969952
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chr5	NM_001205	BNIP1	+	172504050	172523996
chr5	NM_001159651	BOD1	-	172966753	172976272
chr5	NM_139199	BRD8	-	137503357	137542257
chr5	NM_023924	BRD9	-	916849	945939
chr5	NM_018321	BRIX1	+	34951576	34961545
chr5	NM_001037637	BTF3	+	72830005	72837204
chr20	NM_017896	C20orf11	+	61039885	61050272
chr20	NM_016470	C20orf111	-	42258549	42272845
chr20	NM_001099407	C20orf12	-	18312010	18395829
chr5	NM_152409	C5orf24	+	134209268	134223324
chr20	NM_152503	C20orf132	-	35163042	35241388
chr5	NM_022483	C5orf28	-	43480110	43519749
chr5	NM_198566	C5orf34	-	43522559	43551030
chr5	NM_153607	C5orf41	+	172415960	172498897
chr5	NM_001048249	C5orf43	-	60489292	60494059
chr5	NM_001093755	C5orf44	+	64956313	64997710
chr5	NM_001017987	C5orf45	-	179196871	179218446
chr5	NM_175921	C5orf51	+	41940226	41957495
chr20	NM_001199534	C20orf24	+	34667550	34674374
chr20	NM_015585	C20orf26	+	19981157	20289346
chr5	NM_022090	C5orf54	-	159752732	159759638
chr20	NM_018347	C20orf29	+	3749202	3753954

chr5	NM_138464	C5orf55	-	494642	496258
chr20	NM_020531	C20orf3	-	24891579	24921425
chr20	NM_001009923	C20orf30	-	5028483	5041733
chr20	NM_015511	C20orf4	+	34287860	34308267
chr20	NM_016407	C20orf43	+	54477053	54527349
chr20	NM_001039375	C20orf7	+	13713671	13747067
chr20	NM_052865	C20orf72	+	17897761	17919762
chr5	NM_001745	CAMLG	+	134102104	134115742
chr5	NM_145265	CCDC127	-	257874	271297
chr5	NM_017785	CCDC99	+	168943215	168964359
chr20	NM_016082	CDK5RAP1	-	31410305	31452998
chr5	NM_031966	CCNB1	+	68498668	68509826
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chr20	NM_007186	CEP250	+	33506636	33563217
chr5	NM_012073	CCT5	+	10303281	10319501
chr20	NM_176812	CHMP4B	+	31862770	31905834
chr5	NM_001790	CDC25C	-	137648857	137695415
chr20	NM_001198863	CPNE1	-	33677366	33716292
chr20	NM_001316	CSE1L	+	47096244	47146893
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chr5	NM_001799	CDK7	+	68566377	68609013
chr5	NM_001113575	CDKL3	-	133662013	133730664
chr5	NM_080656	CDKN2AIPNL	-	133765654	133775497
chr5	NM_022145	CENPK	-	64849348	64894751
chr5	NM_001166226	CEP120	-	122708477	122787185
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chr5	NM_004365	CETN3	-	89725284	89741359
chr5	NM_020666	CLK4	-	177962270	177986660
chr5	NM_030782	CLPTM1L	-	1370999	1398002
chr20	NM_023935	DDR GK1	-	3119011	3133295
chr5	NM_015455	CNOT6	+	179854022	179937959
chr5	NM_004779	CNOT8	+	154218390	154236545
chr5	NM_030627	CPEB4	+	173247936	173319919
chr5	NM_001031812	CSNK1G3	+	122875691	122980363
chr5	NM_005869	CWC27	+	64100510	64350346
chr20	NM_052951	DNTTIP1	+	43853982	43873473
chr20	NM_003859	DPM1	-	48984811	49008467
chr20	NM_001145315	DSN1	-	34813607	34835644
chr5	NM_152624	DCP2	+	112340331	112384566
chr20	NM_014183	DYNLRB1	+	32567864	32592423
chr5	NM_016222	DDX41	-	176871183	176876573
chr5	NM_014829	DDX46	+	134122359	134194710
chr20	NM_001145025	EDEM2	-	33166820	33198822
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chr5	NM_014473	DIMT1L	-	61720107	61735485
chr20	NM_001114089	ENTPD6	+	25124338	25155360

chr20	NM_015966	ERGIC3	+	33593191	33608819
chr20	NM_016649	ESF1	-	13642968	13713532
chr20	NM_022760	FAM113A	-	2763970	2769332
chr20	NM_021826	FASTKD5	-	3075164	3088532
chr20	NM_017671	FERMT1	-	6003491	6052191
chr20	NM_001080472	FITM2	-	42368610	42373303
chr20	NM_000801	FKBP1A	-	1297620	1321816
chr5	NM_000082	ERCC8	-	60205415	60276662
chr5	NM_004730	ETF1	-	137869682	137906831
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chr5	NM_014613	FAF2	+	175807961	175869681
chr5	NM_138348	FAM105B	+	14717782	14752842
chr5	NM_018691	FAM114A2	-	153351457	153398690
chr5	NM_205548	FAM151B	+	79819555	79873962
chr5	NM_199133	FAM173B	-	10279437	10303014
chr20	NM_006899	IDH3B	-	2587040	2592843
chr5	NM_198507	FAM174A	+	99899022	99950339
chr20	NM_016004	IFT52	+	41652992	41709276
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chr5	NM_001135647	FAM53C	+	137701122	137713317
chr5	NM_024091	FASTKD3	-	7912271	7922150
chr5	NM_030793	FBXO38	+	147743738	147802592
chr5	NM_012176	FBXO4	+	41961112	41977429
chr5	NM_001146032	FCHO2	+	72287563	72422105
chr5	NM_020177	FEM1C	-	114884506	114908490
chr20	NR_024594	LOC100131496	+	45380652	45382905
chr20	NR_026885	LOC100270804	+	18722692	18724709
chr5	NR_015360	FLJ33630	-	127385142	127446665
chr5	NR_033932	FLJ35946	-	98133221	98136688
chr20	NR_015432	LOC388789	+	18496072	18498203
chr20	NR_027241	LOC388796	-	36482652	36497432
chr5	NM_005754	G3BP1	+	151131668	151165108
chr20	NR_027451	LOC647979	-	34096953	34102296
chr20	NM_001003897	MANBAL	+	35351464	35379077
chr5	NM_015465	GEMIN5	-	154247168	154297969
chr5	NM_032380	GFM2	-	74052786	74098798
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chr20	NM_032485	MCM8	+	5879297	5923831
chr5	NM_017676	GIN1	-	102449602	102483741
chr20	NR_031699	MIR1292	+	2581422	2581488
chr5	NM_152407	GRPEL2	+	148705169	148714339
chr20	NR_030386	MIR663	-	26136821	26136914
chr20	NM_170784	MKKS	-	10333832	10362866
chr20	NM_014484	MOCS3	+	49008769	49011227
chr5	NM_002109	HARS	-	140033673	140051155
chr20	NM_020884	MYH7B	+	33007364	33053901

chr5	NM_012208	HARS2	+	140051201	140059074
chr20	NM_016100	NAA20	+	19945936	19962269
chr20	NM_152667	NANP	-	25541572	25552648
chr5	NM_003883	HDAC3	-	140980626	140996607
chr20	NM_022080	NAPB	-	23303155	23350156
chr20	NM_020967	NCOA5	-	44123032	44151987
chr5	NM_005340	HINT1	-	130522773	130528933
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chr5	NM_014983	HMGXB3	+	149360361	149412899
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chr5	NM_002154	HSPA4	+	132415560	132468608
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chr20	NM_013248	NXT1	+	23279372	23283408
chr5	NM_001190981	IL6ST	-	55266681	55326578
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chr20	NM_032521	PARD6B	+	48781487	48803685
chr20	NM_022104	PCIF1	+	43996723	44010069
chr5	NM_016048	ISOC1	+	128458340	128477618
chr20	NM_030815	PDRG1	-	29996418	30003544
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chr20	NM_002623	PFDN4	+	52257908	52269899
chr20	NM_002638	PI3	+	43236953	43238599
chr20	NM_001184728	PIGT	+	43478120	43488298
chr5	NM_016604	KDM3B	+	137716183	137800615
chr5	NM_001142603	KIAA0141	+	141283568	141301796
chr20	NM_007066	PKIG	+	42593849	42681092
chr5	NM_015325	KIAA0947	+	5475806	5543338
chr5	NM_001079684	KIAA1191	-	175705671	175721415
chr5	NM_005733	KIF20A	+	137542315	137551303
chr5	NM_001098511	KIF2A	+	61637745	61717967
chr5	NM_007054	KIF3A	-	132056221	132101164
chr5	NM_020117	LARS	-	145472781	145542487
chr20	NM_006466	POLR3F	+	18396032	18413286
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chr5	NM_006816	LMAN2	-	176691168	176711491
chr5	NM_001007527	LMBRD2	-	36139170	36187772
chr5	NM_005575	LNPEP	+	96297101	96390871
chr5	NR_027435	LOC100129716	+	90711919	90752288
chr20	NM_012469	PRPF6	+	62082874	62134897
chr5	NR_034121	LOC100131067	-	80569139	80633144
chr5	NR_026682	LOC100268168	-	172314390	172318977
chr5	NR_015447	LOC153684	+	43077992	43081127
chr5	NR_034107	LOC257396	+	52441443	52446709

chr20	NM_020336	RALGAPB	+	36534899	36640918
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chr20	NM_001134337	RNF24	-	3860068	3944216
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chr20	NM_021215	RPRD1B	+	36095361	36154180
chr20	NM_001024	RPS21	+	60395515	60396971
chr20	NM_032957	RTEL1	+	61760090	61798045
chr20	NM_015474	SAMHD1	-	34953640	35013660
chr20	NM_006363	SEC23B	+	18436187	18490050
chr5	NM_173491	LSM11	+	157103332	157116324
chr5	NM_181705	LYRM7	+	130534539	130569018
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chr5	NM_014757	MAML1	+	179092456	179136893
chr5	NM_203406	MBLAC2	-	89789775	89806341
chr5	NM_022132	MCCC2	+	70918870	70990286
chr5	NM_004270	MED7	-	156498028	156502499
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chr20	NR_003239	SNHG11	+	36508710	36512978
chr20	NR_003030	SNORD12	+	47330626	47330716
chr20	NR_003695	SNORD12B	+	47330256	47330359
chr20	NR_002433	SNORD12C	+	47328888	47328967
chr5	NR_037428	MIR3655	+	140007612	140007695
chr5	NR_037434	MIR3661	+	133589346	133589442
chr20	NM_003091	SNRPB	-	2390280	2399499
chr20	NM_003092	SNRPB2	+	16658608	16670417
chr20	NM_152227	SNX5	-	17870243	17897490
chr20	NM_006038	SPATA2	-	47953335	47965487
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chr5	NM_001014990	MRPL22	+	154300825	154329164
chr5	NM_032479	MRPL36	-	1851498	1852956
chr5	NM_015084	MRPS27	-	71550991	71651840
chr5	NM_016640	MRPS30	+	44844783	44851373
chr20	NM_006282	STK4	+	43028533	43142007
chr20	NM_001001433	STX16	+	56659733	56687988
chr5	NM_002454	MTRR	+	7922216	7954235
chr5	NM_001010891	MTX3	-	79308294	79322844
chr20	NM_001099791	SYS1	+	43425153	43438856
chr20	NR_003189	SYS1-DBNDD2	+	43425222	43472664
chr20	NM_144628	TBC1D20	-	364123	391187
chr5	NM_030571	NDFIP1	+	141468507	141514192
chr5	NM_001185012	NDUFA2	-	140005131	140007554
chr5	NM_004553	NDUFS6	+	1854495	1869167
chr20	NM_014742	TM9SF4	+	30160969	30218722
chr20	NM_001162505	TMEM189	-	48173680	48203742

chr5	NM_015384	NIPBL	+	36912617	37101678
chr20	NM_021156	TMX4	-	7909715	7948393
chr5	NM_016391	NOP16	-	175743837	175748146
chr20	NM_033550	TP53RK	-	44746410	44751683
chr20	NM_003288	TPD52L2	+	61967033	61993334
chr20	NM_012112	TPX2	+	29790564	29853264
chr20	NM_015638	TRPC4AP	-	33053867	33144279
chr5	NM_014886	NSA2	+	74098858	74108490
chr20	NM_014657	TTI1	-	36044836	36095247
chr5	NM_145266	NUDCD2	-	162813163	162819721
chr20	NM_001039199	TTPAL	+	42537960	42556658
chr5	NM_153485	NUP155	-	37327697	37406954
chr20	NM_007019	UBE2C	+	43874661	43879003
chr20	NM_021988	UBE2V1	-	48131067	48165901
chr20	NM_014948	UBOX5	-	3036218	3088540
chr20	NM_017859	UCKL1	-	62041625	62058244
chr20	NM_022575	VPS16	+	2769372	2795378
chr5	NM_016480	PAIP2	+	138705417	138733308
chr5	NM_024594	PANK3	-	167915205	167939192
chr20	NM_012255	XRN2	+	21231941	21318463
chr20	NM_001083113	ZGPAT	+	61809237	61837938
chr5	NM_018898	PCDHAC1	+	140286485	140372113
chr20	NM_001083330	ZNF133	+	18217120	18245640
chr20	NM_022095	ZNF335	-	44010698	44034240
chr20	NM_015655	ZNF337	-	25602850	25625469
chr20	NM_024325	ZNF343	-	2410466	2437778
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chr20	NM_080752	ZSWIM3	+	43919626	43941176
chr2	NM_022826		7-Mar +	160277255	160333330
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chr2	NM_001087	AAMP	-	218837095	218843137
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chr2	NM_005721	ACTR3	+	114364006	114432637
chr2	NM_003183	ADAM17	-	9546861	9613368
chr5	NM_013232	PDCD6	+	324735	368089
chr2	NM_018269	ADI1	-	3480696	3502354
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chr2	NM_021831	AGBL5	+	27127994	27146994
chr2	NM_003659	AGPS	+	177965716	178116810
chr5	NM_002622	PFDN1	-	139604818	139662873
chr5	NM_005023	PGGT1B	-	114574425	114626468
chr5	NM_032177	PHAX	+	125964505	125990843
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chr2	NM_001104586	ALS2CR8	+	203485222	203559305
chr2	NM_022662	ANAPC1	-	112243110	112358212
chr5	NM_006622	PLK2	-	57785566	57791670
chr2	NR_027020	ANKRD30BL	-	132621636	132732012

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chr5	NM_000943	PPIC	-	122386976	122400324
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chr5	NM_002715	PPP2CA	-	133560046	133589849
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chr2	NM_173545	APLF	+	68548194	68660798
chr5	NM_024754	PTCD2	+	71651955	71690936
chr2	NM_001037174	ARL5A	-	152365725	152393255
chr2	NM_152522	ARL6IP6	+	153282668	153326013
chr2	NM_152862	ARPC2	+	218790118	218827316
chr5	NM_002853	RAD1	-	34941122	34951537
chr5	NM_005732	RAD50	+	131920514	132008212
chr2	NM_016115	ASB3	-	53750620	53867650
chr2	NM_019048	ASNSD1	+	190234369	190243802
chr5	NM_002887	RARS	+	167846040	167878887
chr5	NM_018047	RBM22	-	150050544	150060862
chr5	NM_018989	RBM27	+	145563355	145648977
chr5	NM_001130029	RELL2	+	140996700	141000815
chr5	NM_018343	RIOK2	-	96522326	96544761
chr5	NM_018434	RNF130	-	179315079	179431715
chr5	NM_014901	RNF44	-	175886305	175897027
chr5	NM_016093	RPL26L1	+	172319044	172329380
chr5	NM_001033503	SAR1B	-	133964737	133996432
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chr5	NM_004168	SDHA	+	271355	309814
chr5	NM_021982	SEC24A	+	134012377	134091500
chr5	NM_020796	SEMA6A	-	115807149	115938450
chr5	NM_015360	SKIV2L2	+	54639332	54757166
chr5	NM_006930	SKP1	-	133519980	133540623
chr5	NM_032637	SKP2	+	36187945	36219904
chr5	NM_003060	SLC22A5	+	131733299	131759205
chr5	NM_138773	SLC25A46	+	110102652	110126385
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chr5	NR_002922	SNORA13	+	111525080	111525213
chr5	NR_002591	SNORD95	-	180602919	180602982
chr5	NR_002592	SNORD96A	-	180601423	180601495
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chr5	NM_001077199	SREK1	+	65475840	65512470
chr5	NM_173829	SREK1IP1	-	64049733	64100252
chr5	NM_152546	SRFBP1	+	121325554	121392194
chr5	NM_003135	SRP19	+	112224891	112231503
chr5	NM_152295	TARS	+	33476654	33503953

chr5	NM_000356	TCOF1	+	149717394	149760064
chr5	NM_017872	THG1L	+	157090900	157099350
chr5	NM_030953	TIGD6	-	149352875	149360410
chr5	NM_018502	TMCO6	+	139999195	140005173
chr5	NM_181836	TMED7	-	114976803	114989775
chr5	NM_017510	TMED9	+	176951818	176955705
chr5	NM_153354	TMEM161B	-	87526778	87600421
chr5	NM_174909	TMEM167A	-	82384420	82409028
chr5	NM_001656	TRIM23	-	64921262	64955943
chr5	NM_033549	TRIM41	+	180582911	180595414
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chr5	NM_004237	TRIP13	+	945968	971164
chr5	NM_014639	TTC37	-	94825354	94916465
chr5	NM_003337	UBE2B	+	133734768	133755698
chr5	NM_003339	UBE2D2	+	138920934	138988202
chr5	NM_145049	UBLCP1	+	158622666	158645626
chr5	NM_032175	UTP15	+	72897353	72913550
chr5	NM_003374	VDAC1	-	133335464	133368723
chr5	NR_026703	VTRNA1-1	+	140071044	140071142
chr5	NM_139281	WDR36	+	110455768	110494099
chr5	NM_018268	WDR41	-	76763824	76824088
chr5	NM_017706	WDR55	+	140024567	140030737
chr5	NM_001024947	YIPF5	-	143517919	143530471
chr5	NM_001131035	ZCCHC9	+	80633157	80644721
chr5	NM_016107	ZFR	-	32390212	32480601
chr5	NM_001105251	ZFYVE16	+	79739593	79811254
chr5	NM_144723	ZMAT2	+	140060215	140066423
chr5	NM_001172831	ZNF300	-	150254146	150264738
chr5	NM_012279	ZNF346	+	176382302	176426351
chr5	NM_005649	ZNF354A	-	178071127	178090309
chr5	NM_058230	ZNF354B	+	178219559	178244030
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chr5	NM_001136116	ZNF879	+	178383381	178393994
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chr4	NM_001040876	ABCE1	+	146238605	146270126
chr4	NM_001101667	ACOX3	-	8418908	8493352
chr4	NM_001119	ADD1	+	2815381	2901587
chr4	NM_014885	ANAPC10	-	146135759	146238818
chr4	NM_181726	ANKRD37	+	186554833	186558384
chr4	NM_020337	ANKRD50	-	125804653	125853337
chr4	NM_001128426	AP1AR	+	113372343	113410660
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chr4	NM_148894	BOD1L	-	13179463	13238426
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chr4	NM_018392	C4orf21	-	113679937	113777600
chr4	NM_152544	C4orf23	+	8493431	8529182

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chr4	NM_173487	C4orf33	+	130234278	130253293
chr4	NM_174921	C4orf34	-	39228940	39316876
chr4	NM_144645	C4orf36	-	88016381	88032599
chr4	NM_153027	C4orf39	+	166097549	166099723
chr4	NM_018352	C4orf43	+	164635122	164661141
chr4	NM_001008393	C4orf46	-	159807280	159812652
chr4	NM_032783	CBR4	-	170145316	170168043
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chr4	NM_006835	CCNI	-	78188198	78216149
chr4	NM_012118	CCRN4L	+	140156392	140186543
chr4	NM_017632	CDKN2AIP	+	184602782	184606043
chr4	NM_025009	CEP135	+	56509793	56594284
chr4	NM_001008388	CISD2	+	104009575	104033412
chr4	NM_001829	CLCN3	+	170778296	170878732
chr4	NM_018366	CNO	+	6768742	6770288
chr4	NM_017845	COMMD8	-	47147567	47160433
chr4	NM_016129	COPS4	+	84175262	84215995
chr4	NM_173827	COX18	-	74139279	74154336
chr4	NM_001334	CTSO	-	157064719	157094498
chr4	NM_017741	DCAF16	-	17411375	17421479
chr4	NM_000788	DCK	+	72078128	72115493
chr4	NM_001358	DHX15	-	24138185	24195282
chr4	NR_033797	DKFZP434I0714	+	153676865	153679865
chr4	NM_153702	ELMOD2	+	141664761	141694374
chr4	NM_021204	ENOPH1	+	83570749	83601268
chr4	NM_004453	ETFDH	+	159812726	159849291
chr4	NM_001034194	EXOSC9	+	122941921	122957626
chr4	NM_001145191	FAM200B	+	15292449	15301168
chr4	NM_001193534	FBXL5	-	15215104	15266133
chr4	NM_001134937	FIP1L1	+	53938576	54020860
chr4	NM_004477	FRG1	+	191098967	191121353
chr4	NM_203504	G3BP2	-	76786976	76817691
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chr4	NM_018983	GAR1	+	110956114	110965342
chr4	NM_138335	GNPDA2	-	44398924	44423369
chr4	NM_001004056	GRK4	+	2935140	3012272
chr4	NM_025196	GRPEL1	-	7112680	7120701
chr4	NM_024751	GSTCD	+	106849389	106988331
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chr4	NM_024511	HAUS3	-	2199893	2213658
chr4	NM_133636	HELQ	-	84547522	84596049
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chr4	NR_034075	LOC100499177	-	84033628	84041093
chr4	NR_026968	LOC285456	-	109678794	109761062
chr4	NR_027277	LOC344967	-	39720931	39735214
chr4	NR_037630	LOC645513	+	120595385	120640195
chr4	NR_015433	LOC93622	+	6726721	6728675
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chr4	NM_020961	METTL14	+	119826021	119851525
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chr4	NM_024629	MLF1IP	-	185852212	185892280
chr4	NM_172250	MMAA	+	146759989	146800637
chr4	NM_020236	MRPL1	+	79002828	79092968
chr4	NM_016067	MRPS18C	+	84596141	84601953
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chr4	NM_001128931	NAF1	-	164267309	164307523
chr4	NM_022346	NCAPG	+	17421622	17455585
chr4	NM_152995	NFXL1	-	47544013	47611390
chr4	NM_024047	NUDT9	+	88562758	88598523
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chr4	NM_001079840	OCIAD1	+	48527816	48558591
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chr4	NM_001127178	PIGG	+	482988	523320
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chr4	NM_138364	PRMT10	-	148778982	148824730
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chr4	NM_003864	SAP30	+	174528667	174535258
chr4	NM_005506	SCARB2	-	77298917	77354059
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chr4	NM_016955	SEPSECS	-	24730724	24771302

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chr4	NM_024672	THAP9	+	84040860	84060308
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chr4	NM_032326	TMEM175	+	916261	942443
chr4	NM_018241	TMEM184C	+	148757988	148776122
chr4	NM_018126	TMEM33	+	41631893	41657581
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chr4	NM_032557	USP38	+	144325519	144362591
chr4	NM_020368	UTP3	+	71773059	71775132
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chr4	NM_145291	ZBTB49	+	4342824	4374414
chr4	NM_024936	ZCCHC4	+	24923493	24981103
chr4	NM_003441	ZNF141	+	321595	357691
chr4	NM_182524	ZNF595	+	43226	78099
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chr9	NM_001195248	APTX	-	32962603	32991639
chr9	NM_030978	ARPC5L	+	126671304	126679517
chr9	NM_001202403	ASB6	-	131436703	131444269
chr9	NM_004888	ATP6V1G1	+	116389814	116400973
chr9	NM_001010895	C9orf102	+	97677720	97770943
chr9	NR_023390	C9orf130	-	97608190	97678080
chr9	NM_016481	C9orf156	-	99706592	99724673
chr9	NM_032937	C9orf37	-	139629604	139633129
chr9	NM_017998	C9orf40	-	76751318	76757622
chr9	NM_152420	C9orf41	-	76787692	76833130
chr9	NM_152786	C9orf43	+	115212842	115231700
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chr9	NM_152833	C9orf69	-	138146247	138150552
chr9	NM_016520	C9orf78	-	131629384	131637393
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chr9	NM_182505	C9orf85	+	73716242	73778191
chr9	NM_001195200	CCDC107	+	35648286	35651500
chr9	NM_139286	CDC26	-	115069111	115077690

chr9	NM_017913	CDC37L1	+	4669565	4696594
chr9	NM_001195536	CHMP5	+	33254876	33272067
chr9	NM_001827	CKS2	+	91115932	91121438
chr9	NM_001076677	CLTA	+	36180852	36202059
chr9	NM_016035	COQ4	+	130124611	130136172
chr9	NM_000755	CRAT	-	130896893	130912891
chr9	NM_006368	CREB3	+	35722316	35727005
chr9	NM_024345	DCAF10	+	37790789	37857665
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chr9	NM_022779	DDX31	-	134459496	134535609
chr9	NM_001539	DNAJA1	+	33015208	33029062
chr9	NM_001015882	DNAJC25	+	113433452	113456452
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chr9	NM_014285	EXOSC2	+	132558978	132570273
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chr9	NM_138333	FAM122A	+	70584783	70588429
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chr9	NM_015635	GAPVD1	+	127063931	127167111
chr9	NM_002077	GOLGA1	-	126680393	126743207
chr9	NM_012203	GRHPR	+	37412706	37426986
chr9	NM_012204	GTF3C4	+	134535548	134555291
chr9	NM_001122823	GTF3C5	+	134895882	134923711
chr9	NM_017645	HAUS6	-	19043140	19092902
chr9	NM_002140	HNRNPK	-	85772817	85785389
chr9	NM_001039792	HRCT1	+	35896188	35897138
chr9	NM_001195822	HSDL2	+	114182009	114274506
chr9	NM_001099223	IFT74	+	26937036	27052931
chr9	NM_003640	IKBKAP	-	110669620	110736429
chr9	NM_014425	INVS	+	101901331	102103247
chr9	NM_022755	IPPK	-	94415286	94472368
chr9	NM_030940	ISCA1	-	88069282	88087310
chr9	NM_004972	JAK2	+	4975244	5118183
chr9	NM_014878	KIAA0020	-	2794154	2834130
chr9	NM_194313	KIF24	-	34242377	34319198
chr9	NR_034006	LOC100132352	+	68116360	68138192
chr9	NR_027440	LOC100272217	-	132442557	132444702
chr9	NR_027442	LOC100288842	+	122595595	122600830
chr9	NR_027447	LOC100289341	-	139099218	139101090

chr9	NR_036526	LOC100499484	+	99040528	99099417
chr9	NR_036592	LOC100506710	+	37069892	37080398
chr9	NR_024408	LOC253039	+	122645140	122656472
chr9	NM_001100111	LOC286238	-	90451913	90456895
chr9	NR_024496	LOC442421	+	66234088	66242850
chr9	NR_036527	LOC57653	+	99040528	99179398
chr9	NM_001127245	LRRC8A	+	130684211	130720138
chr9	NM_001005373	LRSAM1	+	129253585	129305601
chr9	NM_016219	MAN1B1	+	139101237	139123460
chr9	NR_024872	MCART1	-	37867571	37894350
chr9	NM_133640	MED22	-	135197575	135204793
chr9	NM_014791	MELK	+	36562904	36667679
chr9	NM_198469	MORN5	+	123962010	124002188
chr9	NM_019051	MRPL50	-	103192069	103200740
chr9	NM_016034	MRPS2	+	137532303	137536340
chr9	NM_001173512	MRRF	+	124066702	124125563
chr9	NM_024635	NAA35	+	87745876	87827037
chr9	NM_002486	NCBP1	+	99435525	99475850
chr9	NM_001144026	NDOR1	+	139219939	139233634
chr9	NM_014222	NDUFA8	-	123946158	123961919
chr9	NM_001199987	NDUFB6	-	32543523	32563182
chr9	NM_022917	NOL6	-	33451350	33463941
chr9	NM_017948	NOL8	-	94099460	94127697
chr9	NM_001161	NUDT2	+	34319503	34333696
chr9	NM_005085	NUP214	+	132990801	133098912
chr9	NM_152850	PIGO	-	35078684	35086598
chr9	NM_001031689	PLAA	-	26893367	26937468
chr9	NM_015160	PMPCA	+	138424936	138438034
chr9	NM_017443	POLE3	-	115209339	115212850
chr9	NM_001077365	POMT1	+	133368109	133389014
chr9	NM_001123355	PPP6C	-	126948672	126992039
chr9	NM_004697	PRPF4	+	115077794	115094877
chr9	NM_021154	PSAT1	+	80101878	80134829
chr9	NM_002799	PSMB7	-	126155564	126217542
chr9	NM_005047	PSMD5	-	122618152	122645027
chr9	NM_001002913	PTRH1	-	129516047	129517757
chr9	NM_016322	RAB14	-	122980235	123004186
chr9	NM_002874	RAD23B	+	109085364	109134291
chr9	NM_033117	RBM18	-	124041654	124066964
chr9	NM_001100588	RC3H2	-	124651552	124707383
chr9	NM_020385	REXO4	-	135261006	135272985
chr9	NM_018339	RFK	-	78190252	78199264
chr9	NM_001080496	RGP1	+	35739276	35743264
chr9	NM_024945	RMI1	+	85785456	85808807
chr9	NR_003051	RMRP	-	35647747	35648015
chr9	NR_023344	RNU6ATAC	-	136019382	136019507
chr9	NM_006570	RRAGA	+	19039371	19041021

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chr9	NM_006808	SEC61B	+	101024390	101032722
chr9	NM_024077	SECISBP2	+	91123231	91164381
chr9	NM_147157	SIGMAR1	-	34624718	34627768
chr9	NM_080546	SLC44A1	+	107046749	107193503
chr9	NM_015110	SMC5	+	72063697	72159609
chr9	NM_018225	SMU1	-	33031849	33066714
chr9	NM_001039697	SNAPC3	+	15412781	15451627
chr9	NR_024542	SNHG7	-	138738866	138742457
chr9	NR_002447	SNORD24	+	135206071	135206146
chr9	NR_000017	SNORD36B	+	135206769	135206840
chr9	NM_172312	SPAG8	-	35797781	35802259
chr9	NM_006415	SPTLC1	-	93833247	93917511
chr9	NM_003731	SSNA1	+	139202874	139204643
chr9	NM_013442	STOML2	-	35089888	35093154
chr9	NM_006753	SURF6	-	135187372	135192868
chr9	NM_006289	TLN1	-	35687333	35722392
chr9	NM_032928	TMEM141	+	138805597	138807590
chr9	NM_053045	TMEM203	-	139218355	139219911
chr9	NM_001001790	TOMM5	-	37578411	37582636
chr9	NM_001195622	TOPORS	-	32530541	32542626
chr9	NM_000113	TOR1A	-	131615041	131626262
chr9	NM_015679	TRUB2	-	130111216	130124518
chr9	NM_139246	TSTD2	-	99402182	99435783
chr9	NM_144965	TTC16	+	129518178	129533700
chr9	NM_007344	TTF1	-	134240757	134272042
chr9	NM_018449	UBAP2	-	33911690	34038947
chr9	NM_013438	UBQLN1	-	85464697	85512988
chr9	NM_001135954	UCK1	-	133389003	133396483
chr9	NM_001110303	USP20	+	131637516	131683928
chr9	NM_052844	WDR34	-	130435760	130458950
chr9	NM_017588	WDR5	+	135991030	136014915
chr9	NM_138778	WDR85	-	139569181	139593208
chr9	NM_000380	XPA	-	99477011	99499512
chr9	NM_020924	ZBTB26	-	124720198	124733600
chr9	NM_001135776	ZBTB43	+	128607105	128640308
chr9	NM_006626	ZBTB6	-	124710155	124715430
chr9	NM_032799	ZDHHC12	-	130522969	130526229
chr9	NM_006336	ZER1	-	130531887	130574019
chr9	NM_003408	ZFP37	-	114843994	114858817
chr9	NM_031486	ZNF484	-	94648171	94680111
chr9	NM_007135	ZNF79	+	129226473	129247472
chr8	NM_174922	ADCK5	+	145568538	145589261
chr8	NM_018361	AGPAT5	+	6553285	6606429
chr8	NM_198401	ANKRD46	-	101602175	101641188
chr8	NM_018120	ARMC1	-	66677244	66709006
chr8	NM_004674	ASH2L	+	38082167	38116385

chr8	NM_014109	ATAD2	-	124401271	124477886
chr8	NM_001695	ATP6V1C1	+	104102423	104154461
chr8	NM_015878	AZIN1	-	103907711	103945573
chr8	NM_004874	BAG4	+	38153262	38187694
chr8	NM_004331	BNIP3L	+	26296439	26326561
chr8	NM_018310	BRF2	-	37820555	37826589
chr8	NM_023080	C8orf33	+	146248627	146252220
chr8	NM_177965	C8orf37	-	96326316	96350638
chr8	NM_001102401	C8orf41	-	33475777	33490245
chr8	NM_001007090	C8orf48	+	13468722	13470168
chr8	NM_016647	C8orf55	+	143805622	143815352
chr8	NM_001099670	C8orf59	-	86313539	86319895
chr8	NM_001100878	C8orf73	-	144719505	144726071
chr8	NM_032847	C8orf76	-	124301411	124322798
chr8	NR_026974	C8orf77	+	146199000	146202236
chr8	NM_018246	CCDC25	-	27646751	27686089
chr8	NM_152284	CHMP4C	+	82807242	82834303
chr8	NM_017444	CHRAC1	+	141590582	141596434
chr8	NM_013354	CNOT7	-	17131110	17148758
chr8	NM_006837	COP55	-	68117868	68137116
chr8	NM_013291	CPSF1	-	145589253	145605541
chr8	NM_138496	CYHR1	-	145646122	145661226
chr8	NM_015420	DCAF13	+	104496117	104524856
chr8	NM_181787	DPY19L4	+	95801278	95875252
chr8	NM_024094	DSCC1	-	120915361	120937351
chr8	NM_001193557	ENY2	+	110415727	110427365
chr8	NM_153332	ERI1	+	8897723	8928259
chr8	NM_207006	FAM83A	+	124263932	124291499
chr8	NM_174911	FAM84B	-	127633864	127639893
chr8	NM_144963	FAM91A1	+	124850062	124896871
chr8	NM_012162	FBXL6	-	145549898	145552940
chr8	NM_172366	FBXO16	-	28341847	28403703
chr8	NM_002027	FNTA	+	43030598	43060088
chr8	NM_032664	FUT10	-	33347885	33450206
chr8	NM_138465	GLI4	+	144420981	144430476
chr8	NM_003801	GPAA1	+	145209511	145213107
chr8	NM_024531	GPR172A	+	145553032	145555754
chr8	NM_001135726	HMBBOX1	+	28803829	28966161
chr8	NM_005836	HRSP12	-	99183742	99198594
chr8	NM_018142	INTS10	+	19719197	19753866
chr8	NM_001145159	INTS9	-	28681093	28803617
chr8	NM_001077527	JRK	-	143735875	143748403
chr8	NM_014846	KIAA0196	-	126105684	126173243
chr8	NM_015496	KIAA1429	-	95569180	95634922
chr8	NR_033902	KIAA1967	+	22518089	22533928
chr8	NM_012472	LRRC6	-	133653628	133756995
chr8	NM_014462	LSM1	-	38140014	38153183

chr8	NM_032272	MAF1	+	145231292	145234503
chr8	NM_032509	MAK16	+	33462226	33478320
chr8	NM_005914	MCM4	+	49036046	49052621
chr8	NM_080651	MED30	+	118602145	118621682
chr8	NM_138431	MFSD3	+	145705359	145707397
chr8	NR_029714	MIR320A	-	22158419	22158501
chr8	NR_037404	MIR3610	-	117956147	117956220
chr8	NM_014078	MRPL13	-	121477263	121526828
chr8	NM_014175	MRPL15	+	55210333	55223627
chr8	NM_022045	MTBP	+	121526846	121605056
chr8	NM_015942	MTERFD1	-	97320820	97342972
chr8	NM_015458	MTMR9	+	11179409	11223064
chr8	NM_145201	NAPRT1	-	144728097	144731656
chr8	NM_005005	NDUFB9	+	125620523	125631408
chr8	NM_003580	NSMAF	-	59658617	59734958
chr8	NM_032869	NUDCD1	-	110322323	110415526
chr8	NM_016023	OTUD6B	+	92151599	92168499
chr8	NM_018492	PBK	-	27723056	27751268
chr8	NM_006197	PCM1	+	17824645	17931737
chr8	NM_052937	PCMTD1	-	52892692	52974288
chr8	NM_005034	POLR2K	+	101232014	101235406
chr8	NM_001722	POLR3D	+	22158563	22164625
chr8	NM_001009552	PPP2CB	-	30762667	30789894
chr8	NM_005605	PPP3CC	+	22354540	22454582
chr8	NM_014754	PTDSS1	+	97343342	97415950
chr8	NM_014281	PUF60	-	144970534	144983525
chr8	NM_006265	RAD21	-	117927353	117956286
chr8	NM_012415	RAD54B	-	95453363	95556486
chr8	NM_001083617	RB1CC1	-	53697570	53789579
chr8	NM_203390	RBM12B	-	94812903	94822400
chr8	NM_003821	RIPK2	+	90839109	90872433
chr8	NM_007218	RNF139	+	125556188	125570040
chr8	NR_003572	RPL23AP53	-	148344	172318
chr8	NM_001172478	RRM2B	-	103285904	103320522
chr8	NM_015169	RRS1	+	67503816	67505522
chr8	NM_015356	SCRIB	-	144945077	144969537
chr8	NM_032237	SGK196	+	43067813	43097480
chr8	NM_030974	SHARPIN	-	145225523	145231128
chr8	NM_030780	SLC25A32	-	104480041	104496644
chr8	NR_002437	SNORD54	-	57148951	57149014
chr8	NM_022133	SNX16	-	82874372	82917076
chr8	NM_001146160	TATDN1	-	125569915	125620510
chr8	NM_005648	TCEB1	-	75021187	75046900
chr8	NM_024831	TGS1	+	56848344	56900559
chr8	NM_018105	THAP1	-	42810973	42817631
chr8	NM_016127	TMEM66	-	30040172	30060191
chr8	NM_152417	TMEM68	-	56813873	56848439

chr8	NM_003840	TNFRSF10D	-	23049048	23077485
chr8	NM_014294	TRAM1	-	71648006	71683248
chr8	NM_171982	TRIM35	-	27198320	27224751
chr8	NM_017956	TRMT12	+	125532228	125534447
chr8	NM_145003	TSNARE1	-	143291347	143482448
chr8	NM_003313	TSTA3	-	144765930	144770875
chr8	NM_014673	TTC35	+	109525028	109568312
chr8	NM_003350	UBE2V2	+	49083547	49137007
chr8	NM_005671	UBXN8	+	30721231	30744062
chr8	NM_006294	UQCRB	-	97308479	97317038
chr8	NM_032334	UTP23	+	117847922	117856102
chr8	NM_025054	VCPIP1	-	67705041	67742006
chr8	NM_001135694	VDAC3	+	42368502	42382572
chr8	NM_016208	VPS28	-	145619807	145624735
chr8	NM_001145152	VPS37A	+	17148771	17199904
chr8	NM_015024	XPO7	+	21833125	21920042
chr8	NM_152758	YTHDF3	+	64243674	64287900
chr8	NM_015117	ZC3H3	-	144590967	144694763
chr8	NM_001029976	ZNF16	-	146126547	146147078
chr8	NM_001109689	ZNF250	-	146073139	146097650
chr8	NM_138367	ZNF251	-	145917102	145951775
chr8	NR_023392	ZNF252	-	146169778	146199089
chr8	NM_030580	ZNF34	-	145969304	145983529
chr8	NM_001082480	ZNF623	+	144789515	144807043
chr8	NM_030895	ZNF696	+	144444933	144453495
chr8	NM_001042510	ZNF706	-	102278441	102287136
chr8	NM_001100598	ZNF707	+	144838609	144849543
chrX	NM_001130847	AIFM1	-	129091018	129127542
chrX	NM_001199818	ARMCX5-GPRASP	+	101740931	101859317
chrX	NM_001011551	C1GALT1C1	-	119643556	119648033
chrX	NR_026551	CA5BP	+	15602959	15631395
chrX	NM_033018	CDK16	+	46962471	46974338
chrX	NM_001325	CSTF2	+	99962003	99982579
chrX	NM_144970	CXorf38	-	40371116	40391763
chrX	NM_001142463	DKC1	+	153644224	153659158
chrX	NM_001412	EIF1AX	-	20052556	20069887
chrX	NM_001415	EIF2S3	+	23982985	24006851
chrX	NM_001166699	FAM104B	-	55186259	55204353
chrX	NM_001078172	FAM127B	-	134012628	134013887
chrX	NM_012280	FTSJ1	+	48219492	48229696
chrX	NM_001042351	G6PD	-	153412799	153428981
chrX	NM_000169	GLA	-	100539434	100549657
chrX	NM_005334	HCFC1	-	152866201	152890013
chrX	NM_001135565	HDHD1	-	6976960	7076231
chrX	NM_001146702	KDM5C	-	53237227	53271329
chrX	NM_001170649	LAS1L	-	64649186	64671411
chrX	NR_027444	LOC100133957	+	47403195	47404720

chrX	NR_028443	LOC100303728	-	118484023	118487111
chrX	NR_015378	LOC401588	+	46289871	46292614
chrX	NM_015884	MBTPS2	+	21767576	21813462
chrX	NM_004541	NDUFA1	+	118889761	118894657
chrX	NM_024528	NKAP	-	118943040	118961763
chrX	NR_027131	NKAPP1	-	119254335	119263150
chrX	NM_001145408	NONO	+	70419766	70437743
chrX	NM_003611	OFD1	+	13662752	13697401
chrX	NM_181672	OGT	+	70669636	70712472
chrX	NM_000291	PGK1	+	77246321	77268980
chrX	NM_001142389	PNPLA4	-	7826803	7855780
chrX	NM_001167989	PQBP1	+	48640138	48645366
chrX	NM_007213	PRAF2	-	48815761	48818606
chrX	NM_002814	PSMD10	-	107214092	107221504
chrX	NM_006743	RBM3	+	48317779	48321748
chrX	NM_016024	RBMX2	+	129363623	129374998
chrX	NM_001031745	RIBC1	+	53466614	53474782
chrX	NM_006978	RNF113A	-	118888522	118889819
chrX	NM_000328	RPGR	-	38013366	38071732
chrX	NM_006306	SMC1A	-	53417794	53466343
chrX	NR_000011	SNORA70	+	153281815	153281950
chrX	NM_013346	SNX12	-	70197512	70204956
chrX	NM_032796	SYAP1	+	16647627	16690728
chrX	NM_152787	TAB3	-	30755479	30817432
chrX	NM_002536	TBC1D25	+	48283018	48305941
chrX	NM_152634	TCEANC	+	13581227	13592168
chrX	NM_001167947	TIMM17B	-	48635673	48640370
chrX	NM_003492	TMEM187	+	152891184	152901840
chrX	NM_001011658	TRAPPC2	-	13640281	13662675
chrX	NM_001168683	TXLNG	+	16714475	16772563
chrX	NM_001017980	VMA21	+	150316314	150328494
chrX	NM_001184965	WDR44	+	117364063	117467951
chrX	NM_007075	WDR45	-	48819035	48845003
chrX	NM_001178099	ZNF182	-	47719193	47748338
chrX	NM_152695	ZNF449	+	134306361	134325004
chrX	NM_001039891	ZNF674	-	46242103	46289836
chrX	NM_005089	ZRSR2	+	15718494	15751303

U snRNAs LOCI OCCUPIED BY BRCA1 AND PALB2

chr19	U6	U6	+	972520	972627
chr17	U104	U104	+	59577169	59577249
chr17	U1-related	U1-related	-	54091512	54091656
chr17	U1-related	U1-related	-	54111885	54112050
chr17	U2-related	U2-related	-	38800801	38800976
chr17	U3b2-related	U3b2-related	-	54064021	54064196

chr16	U60	U60	-	2145024	2145107
chr17	U8	U8	-	8017495	8017631
chr12	U4	U4	-	119213945	119214089
chr12	U4	U4	-	119215279	119215423
chr22	U12	U12	+	41341193	41341343
chr15	U5A	U5A	+	63375441	63375558
chr15	U5B-related	U5B-related	+	63384067	63384184
chr11	U2	U2	-	62365669	62365857
chr11	U25	U25	-	62379612	62379679
chr11	U99	U99	+	62189469	62189618
chr10	U2	U2	-	103114594	103114782
chr1	U1	U1	-	16713203	16713367
chr1	U1	U1	+	17095061	17095225
chr1	U1	U1	-	147490681	147490845
chr1	U11	U11	+	28847698	28847833
chr12	U7	U7	+	6923238	6923302
chr3	U2-related	U2-related	+	73242832	73243020
chr1	U5A-related	U5A-related	-	208614122	208614235
chr1	U5Ds	U5Ds	-	44969327	44969427
chr1	U5E	U5E	+	11890797	11890916
chr1	U5E-related	U5E-related	-	11892449	11892569
chr1	U5E-related	U5E-related	-	45058157	45058254
chr1	U5F	U5F	-	44960044	44960160
chr1	U74	U74	-	172103434	172103506
chr20	U106	U106	+	47328888	47328967
chr1	U1-related	U1-related	+	143245394	143245557
chr1	U1-related	U1-related	+	144094113	144094277
chr1	U1-related	U1-related	-	145022789	145022927
chr1	U1-related	U1-related	+	146202375	146202531
chr1	U1-related	U1-related	-	146273359	146273514
chr1	U1-related	U1-related	-	147481793	147481922
chr2	U2-related	U2-related	-	88096991	88097181
chr2	U4atac	U4atac	+	122004925	122005055
chr8	U13	U13	+	33490534	33490638

tRNAs AND ADDITIONAL RNAPIII LOCI OCCUPIED BY BRCA1

chrX	tRNAVal-TAC	tRNAVal-TAC	-	18602949	18603022
chr1	tRNAVal-CAC	tRNAVal-CAC	-	159636113	159636186
chr5	tRNAVal-AAC	tRNAVal-AAC	-	180577875	180577948
chr8	tRNATyr-GTA	tRNATyr-GTA	+	67188776	67188865
chr17	tRNATrp-CCA	tRNATrp-CCA	+	19352085	19352157
chr14	tRNAThr-TGT	tRNAThr-TGT	-	20169158	20169231
chr17	tRNAThr-CGT	tRNAThr-CGT	+	26901212	26901284
chr16	tRNAThr-CGT	tRNAThr-CGT	+	14287250	14287322
chr6	tRNASer-TGA	tRNASer-TGA	-	27581585	27581667
chr6	tRNASer-TGA	tRNASer-TGA	+	27621446	27621528

chr10	tRNASer-TGA	tRNASer-TGA	+	69194266	69194348
chr6	tRNASer-AGA	tRNASer-AGA	+	26435795	26435877
chr6	tRNASer-AGA	tRNASer-AGA	+	27571571	27571653
chr19	tRNASec(e)-TCA	tRNASec(e)-TCA	-	50673699	50673785
chr14	tRNAPro-TGG	tRNAPro-TGG	+	20171004	20171076
chr11	tRNAPro-TGG	tRNAPro-TGG	-	75624516	75624588
chr16	tRNAPro-TGG	tRNAPro-TGG	+	3148923	3148995
chr5	tRNAPro-TGG	tRNAPro-TGG	-	180548459	180548531
chr1	tRNAPro-CGG	tRNAPro-CGG	+	165950585	165950657
chr14	tRNAPro-AGG	tRNAPro-AGG	-	20151399	20151471
chr12	tRNAPhe-GAA	tRNAPhe-GAA	-	123978341	123978414
chr8	tRNAMet-CAT	tRNAMet-CAT	-	124238650	124238723
chr6	tRNAMet-CAT	tRNAMet-CAT	-	26438507	26438579
chr6	tRNAMet-CAT	tRNAMet-CAT	-	27668578	27668650
chr17	tRNAMet-CAT	tRNAMet-CAT	-	78045885	78045957
chr17	tRNAMet-CAT	tRNAMet-CAT	-	78045885	78045957
chr17	tRNAMet-CAT	tRNAMet-CAT	-	78045885	78045957
chr1	tRNALys-TTT	tRNALys-TTT	-	202742780	202742853
chr11	tRNALys-TTT	tRNALys-TTT	-	59084383	59084456
chr14	tRNALeu-TAG	tRNALeu-TAG	+	20163368	20163450
chr16	tRNALeu-TAG	tRNALeu-TAG	-	22114532	22114614
chr6	tRNALeu-TAA	tRNALeu-TAA	+	144579376	144579459
chr16	tRNALeu-CAG	tRNALeu-CAG	-	55891892	55891975
chr1	tRNALeu-CAA	tRNALeu-CAA	+	247134676	247134782
chr6	tRNALeu-CAA	tRNALeu-CAA	-	27681395	27681503
chr6	tRNALeu-CAA	tRNALeu-CAA	-	28971978	28972084
chr6	tRNALeu-CAA	tRNALeu-CAA	+	29016808	29016913
chr14	tRNALeu-AAG	tRNALeu-AAG	+	20148130	20148212
chr2	tRNAIle-TAT	tRNAIle-TAT	+	42891179	42891272
chr6	tRNAIle-AAT	tRNAIle-AAT	+	27763945	27764019
chr1	tRNAGly-TCC	tRNAGly-TCC	-	144109220	144109292
chr1	tRNAGly-TCC	tRNAGly-TCC	-	159676584	159676656
chr1	tRNAGly-TCC	tRNAGly-TCC	+	159767526	159767598
chr6	tRNAGly-GCC	tRNAGly-GCC	-	27978664	27978735
chr21	tRNAGly-GCC	tRNAGly-GCC	-	17748977	17749048
chr15	tRNAGlu-TTC	tRNAGlu-TTC	-	23878473	23878545
chr13	tRNAGlu-TTC	tRNAGlu-TTC	-	44390061	44390133
chr6	tRNAGlu-CTC	tRNAGlu-CTC	+	29057954	29058026
chr17	tRNAGln-TTG	tRNAGln-TTG	+	44624888	44624960
chr3	tRNACys-GCA	tRNACys-GCA	-	133433331	133433403
chr12	tRNAAsp-GTC	tRNAAsp-GTC	+	97421411	97421483
chr1	tRNAAsn-GTT	tRNAAsn-GTT	+	146467428	146467502
chr1	tRNAAsn-GTT	tRNAAsn-GTT	-	147497193	147497267
chr13	tRNAAsn-GTT	tRNAAsn-GTT	-	30146100	30146174
chr10	tRNAAsn-GTT	tRNAAsn-GTT	-	22558443	22558517
chr11	tRNAArg-TCT	tRNAArg-TCT	+	59075342	59075428
chr17	tRNAArg-CCT	tRNAArg-CCT	-	70542120	70542193

chr16	tRNAArg-CCT	tRNAArg-CCT	+	3142901	3142974
chr17	tRNAArg-CCG	tRNAArg-CCG	-	63446474	63446547
chr16	tRNAArg-CCG	tRNAArg-CCG	+	3140675	3140748
chr12	tRNAAla-TGC	tRNAAla-TGC	-	123972253	123972325
chr12	tRNAAla-TGC	tRNAAla-TGC	+	123990464	123990536
chr6	tRNAAla-CGC	tRNAAla-CGC	+	26661709	26661781
chr6	tRNAAla-CGC	tRNAAla-CGC	-	28749591	28749663
chr2	tRNAAla-CGC	tRNAAla-CGC	+	156965526	156965598
chr6	tRNAAla-AGC	tRNAAla-AGC	-	26680070	26680143
chr6	tRNAAla-AGC	tRNAAla-AGC	-	28914199	28914271
chr1	tRNAMet-CAT	tRNAMet-CAT	+	151910349	151910421
chr1	tRNAGly-GCC	tRNAGly-GCC	-	159760260	159760331
chr6	tRNAVal-CAC	tRNAVal-CAC	+	26646260	26646333
chr6	tRNAMet-CAT	tRNAMet-CAT	+	26394732	26394804
chr6	tRNALeu-CAG	tRNALeu-CAG	+	26629414	26629497
chr1	tRNAAsn-GTT	tRNAAsn-GTT	+	159776654	159776728
chr16	tRNAMet-CAT	tRNAMet-CAT	-	85975128	85975201
chr19	tRNAGly-TCC	tRNAGly-TCC	+	4675081	4675153
chr2	tRNAGlu-TTC	tRNAGlu-TTC	-	130811170	130811242
chr15	tRNASer-GCT	tRNASer-GCT	-	38673314	38673396
chr8	tRNASer-AGA	tRNASer-AGA	-	96351060	96351142
chr7	tRNAArg-CCT	tRNAArg-CCT	+	138675985	138676058
chr17	tRNAThr-AGT	tRNAThr-AGT	+	8031202	8031276
chr17	tRNASer-AGA	tRNASer-AGA	-	8070652	8070734
chr17	tRNAAsp-GTC	tRNAAsp-GTC	-	8066280	8066352
chr16	tRNAGly-CCC	tRNAGly-CCC	-	626736	626807
chr11	tRNASer-GCT	tRNASer-GCT	+	65872166	65872248
chr14	tRNATyr-GTA	tRNATyr-GTA	+	20221271	20221360
chr17	tRNAGln-CTG	tRNAGln-CTG	+	7963794	7963866
chr2	tRNATyr-GTA	tRNATyr-GTA	+	27127153	27127242
chr6	tRNATyr-GTA	tRNATyr-GTA	+	26703080	26703169
chr14	U6	U6	+	31741001	31741107
chr14	U6	U6	-	31742120	31742226
chr6	7SK_RNA	7SK_RNA	+	52968376	52968708
chr5	HVG-3	HVG-3	+	140085927	140086015
chr5	HVG-2	HVG-2	+	140078694	140078782
chr5	HVG-1	HVG-1	+	140071044	140071142
chr14	SRP_RNA	SRP_RNA	-	49399018	49399317
chr14	RNaseP_RNA	RNaseP_RNA	-	19881070	19881410
chr9	RNaseMRP_RNA	RNaseMRP_RNA	-	35647749	35648014