

Supporting Information Table 4. List of human protein-protein interactors.

Entrez ID 1	Symbol 1	Entrez ID 2	Symbol 2	Data Source (R: Rual et al; S: Stelzl et al; L: Literature curation)
1	A1BG	10321	CRISP3	L
2	A2M	259	AMBP	L
2	A2M	348	APOE	L
2	A2M	351	APP	L
2	A2M	354	KLK3	L
2	A2M	567	B2M	L
2	A2M	1508	CTSB	L
2	A2M	1990	ELA1	L
2	A2M	3309	HSPA5	L
2	A2M	3553	IL1B	L
2	A2M	3586	IL10	L
2	A2M	3931	LCAT	L
2	A2M	3952	LEP	L
2	A2M	4035	LRP1	L
2	A2M	4803	NGFB	L
2	A2M	5047	PAEP	L
2	A2M	7045	TGFBI	L
2	A2M	8728	ADAM19	L
2	A2M	9510	ADAMTS1	L
2	A2M	10944	SMAP	S
2	A2M	55729	ATF7IP	L
9	NAT1	8260	ARD1A	L
12	SERPINA3	351	APP	L
12	SERPINA3	354	KLK3	L
12	SERPINA3	1215	CMA1	L
12	SERPINA3	1504	CTRB1	L
12	SERPINA3	1506	CTRL	L
12	SERPINA3	1511	CTSG	L
12	SERPINA3	1990	ELA1	L
12	SERPINA3	1991	ELA2	L
12	SERPINA3	2064	ERBB2	L
12	SERPINA3	2153	F5	L
12	SERPINA3	3817	KLK2	L
12	SERPINA3	4035	LRP1	L
12	SERPINA3	4485	MST1	L
12	SERPINA3	5422	POLA	L
12	SERPINA3	64215	DNAJC1	L
14	AAMP	51497	TH1L	S
15	AANAT	7534	YWHAZ	L
18	ABAT	7915	ALDH5A1	L
19	ABCA1	335	APOA1	L
19	ABCA1	6645	SNTB2	L
19	ABCA1	8772	FADD	L
20	ABCA2	55755	CDK5RAP2	L
22	ABCB7	2235	FECH	L
23	ABCF1	3692	ITGB4BP	S
24	ABCA4	1258	CNGB1	L
25	ABL1	27	ABL2	L
25	ABL1	472	ATM	L
25	ABL1	613	BCR	L
25	ABL1	718	C3	L
25	ABL1	867	CBL	L
25	ABL1	1501	CTNND2	L
25	ABL1	2048	EPHB2	L
25	ABL1	2547	XRCC6	L
25	ABL1	2876	GPX1	L
25	ABL1	2885	GRB2	L
25	ABL1	3055	HCK	L
25	ABL1	3636	INPPL1	L
25	ABL1	3716	JAK1	L
25	ABL1	4193	MDM2	L
25	ABL1	4690	NCK1	L
25	ABL1	4914	NTRK1	L
25	ABL1	5062	PAK2	L
25	ABL1	5295	PIK3R1	L

25	ABL1	5335	PLCG1	L
25	ABL1	5591	PRKDC	L
25	ABL1	5829	PXN	L
25	ABL1	5883	RAD9A	L
25	ABL1	5901	RAN	L
25	ABL1	5921	RASA1	L
25	ABL1	5925	RB1	L
25	ABL1	5989	RFX1	L
25	ABL1	6091	ROBO1	L
25	ABL1	6098	ROS1	L
25	ABL1	6549	SLC9A2	L
25	ABL1	6714	SRC	L
25	ABL1	6764	ST5	L
25	ABL1	7157	TP53	L
25	ABL1	7161	TP73	L
25	ABL1	7275	TUB	L
25	ABL1	7535	ZAP70	L
25	ABL1	8751	ADAM15	L
25	ABL1	8936	WASF1	L
25	ABL1	9051	PSTPIP1	L
25	ABL1	9564	BCAR1	L
25	ABL1	9610	RIN1	L
25	ABL1	10006	ABI1	L
25	ABL1	10152	ABI2	L
25	ABL1	10580	SORBS1	L
25	ABL1	11183	MAP4K5	L
25	ABL1	23385	NCSTN	L
25	ABL1	23616	SH3BP1	L
25	ABL1	51466	EVL	L
25	ABL1	55824	PAG1	L
25	ABL1	91746	YT521	L
26	ABP1	1785	DNM2	L
27	ABL2	613	BCR	L
27	ABL2	847	CAT	L
27	ABL2	1398	CRK	L
27	ABL2	2048	EPHB2	L
27	ABL2	2876	GPX1	L
27	ABL2	3055	HCK	L
31	ACACA	672	BRCA1	L
31	ACACA	1114	CHGB	S
39	ACAT2	1045	CDX2	L
40	ACCN1	41	ACCN2	L
40	ACCN1	9311	ACCN3	L
43	ACHE	351	APP	L
43	ACHE	1282	COL4A1	L
43	ACHE	1939	LGTN	L
43	ACHE	8292	COLQ	L
43	ACHE	284217	LAMA1	L
49	ACR	5104	SERPINA5	L
49	ACR	7783	ZP2	L
51	ACOX1	6342	SCP2	L
52	ACP1	1969	EPHA2	L
52	ACP1	2047	EPHB1	L
52	ACP1	2048	EPHB2	L
52	ACP1	7535	ZAP70	L
52	ACP1	51460	SFMBT1	R
52	ACP1	54874	FNBP1L	S
52	ACP1	55052	MRPL20	S
54	ACP5	1959	EGR2	S
54	ACP5	2239	GPC4	L
54	ACP5	5601	MAPK9	S
54	ACP5	6118	RPA2	S
54	ACP5	7704	ZBTB16	S
54	ACP5	8743	TNFSF10	S
54	ACP5	9141	PDCD5	S
54	ACP5	9410	WDR57	S
54	ACP5	54978	C2orf18	S

58	ACTA1	1072	CFL1	L
58	ACTA1	1756	DMD	L
58	ACTA1	1773	DNASE1	L
58	ACTA1	2638	GC	L
58	ACTA1	2934	GSN	L
58	ACTA1	4632	MYL1	L
58	ACTA1	5216	PFN1	L
58	ACTA1	5578	PRKCA	L
58	ACTA1	5879	RAC1	L
58	ACTA1	6525	SMTN	L
58	ACTA1	6624	FSCN1	L
58	ACTA1	6876	TAGLN	L
58	ACTA1	7094	TLN1	L
58	ACTA1	7114	TMSB4X	L
58	ACTA1	7187	TRAF3	L
58	ACTA1	9468	PCYT1B	L
58	ACTA1	10575	CCT4	L
58	ACTA1	22948	CCT5	L
59	ACTA2	1072	CFL1	L
59	ACTA2	1773	DNASE1	L
59	ACTA2	2638	GC	L
59	ACTA2	4632	MYL1	L
59	ACTA2	7114	TMSB4X	L
59	ACTA2	9468	PCYT1B	L
59	ACTA2	10575	CCT4	L
59	ACTA2	22948	CCT5	L
60	ACTB	70	ACTC	L
60	ACTB	71	ACTG1	R
60	ACTB	1072	CFL1	R
60	ACTB	1073	CFL2	R
60	ACTB	2010	EMD	L
60	ACTB	2314	FLII	L
60	ACTB	2934	GSN	L
60	ACTB	4093	SMAD9	L
60	ACTB	4687	NCF1	L
60	ACTB	4892	NRAP	L
60	ACTB	5027	P2RX7	L
60	ACTB	5201	PFDN1	L
60	ACTB	5216	PFN1	L
60	ACTB	5217	PFN2	L
60	ACTB	5337	PLD1	L
60	ACTB	5338	PLD2	L
60	ACTB	5764	PTN	L
60	ACTB	5879	RAC1	L
60	ACTB	5880	RAC2	L
60	ACTB	6336	SCN10A	L
60	ACTB	6597	SMARCA4	L
60	ACTB	6709	SPTAN1	L
60	ACTB	7168	TPM1	L
60	ACTB	7169	TPM2	L
60	ACTB	7170	TPM3	L
60	ACTB	7430	VIL2	L
60	ACTB	7447	VSNL1	L
60	ACTB	8655	DNCL1	L
60	ACTB	8904	CPNE1	L
60	ACTB	11034	DSTN	R
60	ACTB	23214	XPO6	L
60	ACTB	25932	CLIC4	L
60	ACTB	55729	ATF7IP	L
60	ACTB	83988	NCALD	L
60	ACTB	131034	CPNE4	L
60	ACTB	221184	CPNE2	L
70	ACTC	81	ACTN4	L
70	ACTC	283	ANG	L
70	ACTC	1072	CFL1	L
70	ACTC	1756	DMD	L
70	ACTC	2039	EPB49	L

70	ACTC	2638	GC	L
70	ACTC	3315	HSPB1	L
70	ACTC	3927	LASP1	L
70	ACTC	4638	MYLK	L
70	ACTC	5339	PLEC1	L
70	ACTC	5581	PRKCE	L
70	ACTC	5756	PTK9	L
70	ACTC	6624	FSCN1	L
70	ACTC	7094	TLN1	L
70	ACTC	7414	VCL	L
70	ACTC	7430	VIL2	L
70	ACTC	7454	WAS	L
70	ACTC	7456	WASPIP	L
70	ACTC	8655	DNCL1	L
70	ACTC	10097	ACTR2	L
70	ACTC	23224	SYNE2	L
70	ACTC	23345	SYNE1	L
70	ACTC	51660	BRP44L	S
70	ACTC	60312	AFAP	L
70	ACTC	84687	PPP1R9B	L
70	ACTC	85477	SCIN	L
70	ACTC	137735	STARS	L
71	ACTG1	308	ANXA5	L
71	ACTG1	1072	CFL1	R
71	ACTG1	1073	CFL2	R
71	ACTG1	1773	DNASE1	L
71	ACTG1	3692	ITGB4BP	S
71	ACTG1	4640	MYO1A	L
71	ACTG1	5217	PFN2	S
71	ACTG1	5800	PTPRO	S
71	ACTG1	5829	PXN	L
71	ACTG1	6456	SH3GL2	S
71	ACTG1	6487	ST3GAL3	S
71	ACTG1	7094	TLN1	L
71	ACTG1	7114	TMSB4X	L
71	ACTG1	7414	VCL	L
71	ACTG1	8655	DNCL1	L
71	ACTG1	8936	WASF1	L
71	ACTG1	10134	BCAP31	L
71	ACTG1	11034	DSTN	R
71	ACTG1	11098	PRSS23	S
71	ACTG1	55729	ATF7IP	L
81	ACTN4	135	ADORA2A	L
81	ACTN4	525	ATP6V1B1	L
81	ACTN4	818	CAMK2G	L
81	ACTN4	1308	COL17A1	L
81	ACTN4	2934	GSN	L
81	ACTN4	3688	ITGB1	L
81	ACTN4	4703	NEB	L
81	ACTN4	9124	PDLIM1	RL
81	ACTN4	9223	MAGI1	L
81	ACTN4	9351	SLC9A3R2	L
81	ACTN4	9712	USP6NL	L
81	ACTN4	10612	TRIM3	L
81	ACTN4	51778	MYOZ2	R
81	ACTN4	57554	LRRC7	L
81	ACTN4	58529	MYOZ1	R
86	ACTL6A	396	ARHGDI1A	S
86	ACTL6A	2130	EWSR1	R
86	ACTL6A	4609	MYC	L
86	ACTL6A	5430	POLR2A	L
86	ACTL6A	6597	SMARCA4	L
86	ACTL6A	9031	BAZ1B	L
87	ACTN1	135	ADORA2A	L
87	ACTN1	815	CAMK2A	L
87	ACTN1	1308	COL17A1	L
87	ACTN1	1495	CTNNA1	L

87	ACTN1	2203	FBP1	L
87	ACTN1	2903	GRIN2A	L
87	ACTN1	4110	MAGEA11	R
87	ACTN1	5585	PKN1	L
87	ACTN1	5834	PYGB	L
87	ACTN1	7273	TTN	L
87	ACTN1	7518	XRCC4	R
87	ACTN1	7791	ZYX	L
87	ACTN1	8048	CSRP3	L
87	ACTN1	8851	CDK5R1	L
87	ACTN1	8941	CDK5R2	L
87	ACTN1	9124	PDLIM1	L
87	ACTN1	9499	MYOT	L
87	ACTN1	10755	GIPC1	L
87	ACTN1	26136	TES	L
87	ACTN1	51778	MYOZ2	L
87	ACTN1	58529	MYOZ1	RL
87	ACTN1	117178	SSX2IP	L
87	ACTN1	125950	RAVER1	L
88	ACTN2	89	ACTN3	L
88	ACTN2	135	ADORA2A	L
88	ACTN2	1739	DLG1	L
88	ACTN2	1742	DLG4	L
88	ACTN2	2904	GRIN2B	L
88	ACTN2	3739	KCNA4	L
88	ACTN2	3741	KCNA5	L
88	ACTN2	5585	PKN1	L
88	ACTN2	6401	SELE	L
88	ACTN2	8038	ADAM12	L
88	ACTN2	9124	PDLIM1	L
88	ACTN2	22142	(null)	S
88	ACTN2	23022	KIAA0992	L
88	ACTN2	27185	DISC1	L
88	ACTN2	51778	MYOZ2	L
88	ACTN2	58529	MYOZ1	L
88	ACTN2	84665	MYPN	L
88	ACTN2	117178	SSX2IP	L
88	ACTN2	125950	RAVER1	L
89	ACTN3	135	ADORA2A	L
89	ACTN3	84665	MYPN	L
90	ACVR1	91	ACVR1B	L
90	ACVR1	650	BMP2	L
90	ACVR1	655	BMP7	L
90	ACVR1	2022	ENG	L
90	ACVR1	2339	FNTA	L
90	ACVR1	3547	IGSF1	L
90	ACVR1	3624	INHBA	L
90	ACVR1	3625	INHBB	L
90	ACVR1	3626	INHBC	L
90	ACVR1	4086	SMAD1	L
90	ACVR1	4090	SMAD5	L
90	ACVR1	4093	SMAD9	L
90	ACVR1	8200	GDF5	L
91	ACVR1B	92	ACVR2A	L
91	ACVR1B	93	ACVR2B	L
91	ACVR1B	3547	IGSF1	L
91	ACVR1B	3624	INHBA	L
91	ACVR1B	3625	INHBB	L
91	ACVR1B	3626	INHBC	L
91	ACVR1B	4089	SMAD4	L
91	ACVR1B	4092	SMAD7	L
91	ACVR1B	6642	SNX1	L
91	ACVR1B	6997	TDGF1	L
91	ACVR1B	9392	TGFBRAP1	L
92	ACVR2A	650	BMP2	L
92	ACVR2A	654	BMP6	L
92	ACVR2A	655	BMP7	L

92	ACVR2A	2022	ENG	L
92	ACVR2A	2661	GDF9	L
92	ACVR2A	3547	IGSF1	L
92	ACVR2A	3624	INHBA	L
92	ACVR2A	3625	INHBB	L
92	ACVR2A	3626	INHBC	L
92	ACVR2A	7049	TGFBR3	L
92	ACVR2A	8200	GDF5	L
93	ACVR2B	655	BMP7	L
93	ACVR2B	2660	GDF8	L
93	ACVR2B	3547	IGSF1	L
93	ACVR2B	3624	INHBA	L
93	ACVR2B	3625	INHBB	L
93	ACVR2B	3626	INHBC	L
93	ACVR2B	6642	SNX1	L
93	ACVR2B	6643	SNX2	L
93	ACVR2B	8200	GDF5	L
93	ACVR2B	9392	TGFBRAP1	L
93	ACVR2B	10220	GDF11	L
94	ACVRL1	7040	TGFB1	L
94	ACVRL1	7048	TGFBR2	L
94	ACVRL1	9392	TGFBRAP1	L
95	ACY1	7265	TTC1	R
100	ADA	134	ADORA1	L
100	ADA	135	ADORA2A	L
100	ADA	1803	DPP4	L
100	ADA	1812	DRD1	L
100	ADA	2885	GRB2	L
100	ADA	2908	NR3C1	L
102	ADAM10	1943	EFNA2	L
103	ADAR	7514	XPO1	L
107	ADCY1	108	ADCY2	L
108	ADCY2	111	ADCY5	L
108	ADCY2	2778	GNAS	L
111	ADCY5	2770	GNAI1	L
111	ADCY5	2778	GNAS	L
111	ADCY5	5578	PRKCA	L
111	ADCY5	5590	PRKCZ	L
111	ADCY5	5997	RGS2	L
112	ADCY6	1139	CHRNA7	L
116	ADCYAP1	117	ADCYAP1R1	L
116	ADCYAP1	6344	SCTR	L
116	ADCYAP1	6469	SHH	L
116	ADCYAP1	7434	VIPR2	L
118	ADD1	119	ADD2	L
118	ADD1	801	CALM1	L
118	ADD1	3398	ID2	L
118	ADD1	6708	SPTA1	L
118	ADD1	6709	SPTAN1	L
118	ADD1	6710	SPTB	L
118	ADD1	10808	HSPH1	L
119	ADD2	801	CALM1	L
119	ADD2	2534	FYN	L
119	ADD2	6709	SPTAN1	L
128	ADH5	1107	CHD3	S
133	ADM	1906	EDN1	L
133	ADM	3075	CFH	L
133	ADM	4880	NPPC	L
133	ADM	11318	ADMR	L
134	ADORA1	1812	DRD1	L
134	ADORA1	2037	EPB41L2	L
134	ADORA1	2771	GNAI2	L
134	ADORA1	2775	GNAO1	L
134	ADORA1	2781	GNAZ	L
134	ADORA1	2911	GRM1	L
134	ADORA1	5028	P2RY1	L
135	ADORA2A	1813	DRD2	L

142	PARP1	596	BCL2	L
142	PARP1	836	CASP3	L
142	PARP1	1026	CDKN1A	L
142	PARP1	1058	CENPA	L
142	PARP1	1059	CENPB	L
142	PARP1	4605	MYBL2	L
142	PARP1	4790	NFKB1	L
142	PARP1	5111	PCNA	L
142	PARP1	5422	POLA	L
142	PARP1	5451	POU2F1	L
142	PARP1	5970	RELA	L
142	PARP1	6189	RPS3A	L
142	PARP1	6256	RXRA	L
142	PARP1	7157	TP53	L
142	PARP1	7515	XRCC1	L
142	PARP1	9184	BUB3	L
142	PARP1	10038	PARP2	L
142	PARP1	10039	PARP3	L
142	PARP1	10432	RBM14	L
142	PARP1	23090	ZNF423	L
142	PARP1	23649	POLA2	L
142	PARP1	54840	APTX	L
143	PARP4	9961	MVP	L
147	ADRA1B	1173	AP2M1	L
147	ADRA1B	2767	GNA11	L
147	ADRA1B	6295	SAG	L
148	ADRA1A	84687	PPP1R9B	L
150	ADRA2A	153	ADRB1	L
150	ADRA2A	1967	EIF2B1	L
150	ADRA2A	2770	GNAI1	L
150	ADRA2A	2775	GNAO1	L
150	ADRA2A	7534	YWHAZ	L
151	ADRA2B	1967	EIF2B1	L
151	ADRA2B	2771	GNAI2	L
151	ADRA2B	7534	YWHAZ	L
152	ADRA2C	1967	EIF2B1	L
152	ADRA2C	2775	GNAO1	L
152	ADRA2C	7534	YWHAZ	L
153	ADRB1	408	ARRB1	L
153	ADRB1	1742	DLG4	L
153	ADRB1	2885	GRB2	L
153	ADRB1	10755	GIPC1	L
154	ADRB2	407	ARR3	L
154	ADRB2	1967	EIF2B1	L
154	ADRB2	2767	GNA11	L
154	ADRB2	2769	GNA15	L
154	ADRB2	2870	GRK6	L
154	ADRB2	2885	GRB2	L
154	ADRB2	3763	KCNJ6	L
154	ADRB2	3765	KCNJ9	L
154	ADRB2	4985	OPRD1	L
154	ADRB2	5578	PRKCA	L
154	ADRB2	9351	SLC9A3R2	L
154	ADRB2	9368	SLC9A3R1	L
154	ADRB2	9495	AKAP5	L
154	ADRB2	9630	GNA14	L
155	ADRB3	2778	GNAS	L
155	ADRB3	6714	SRC	L
156	ADRBK1	408	ARRB1	L
156	ADRBK1	857	CAV1	L
156	ADRBK1	1233	CCR4	L
156	ADRBK1	2492	FSHR	L
156	ADRBK1	2776	GNAQ	L
156	ADRBK1	5037	PBP	L
156	ADRBK1	5082	PDCL	L
156	ADRBK1	5132	PDC	L
156	ADRBK1	5579	PRKCB1	L

156	ADRBK1	5957	RCV1	L
156	ADRBK1	6010	RHO	L
156	ADRBK1	6714	SRC	L
156	ADRBK1	9815	GIT2	L
156	ADRBK1	23413	FREQ	L
156	ADRBK1	28964	GIT1	L
157	ADRBK2	1233	CCR4	L
157	ADRBK2	7852	CXCR4	L
157	ADRBK2	28964	GIT1	L
160	AP2A1	274	BIN1	L
160	AP2A1	1175	AP2S1	L
160	AP2A1	2060	EPS15	L
160	AP2A1	2690	GHR	L
160	AP2A1	3092	HIP1	L
160	AP2A1	4093	SMAD9	L
160	AP2A1	6016	RIT1	S
160	AP2A1	6464	SHC1	L
160	AP2A1	7913	DEK	L
160	AP2A1	8301	PICALM	L
160	AP2A1	9685	ENTH	L
160	AP2A1	22841	RAB11FIP2	L
160	AP2A1	84258	SYT3	L
160	AP2A1	114034	TOE1	S
161	AP2A2	163	AP2B1	L
161	AP2A2	2060	EPS15	L
161	AP2A2	3064	HD	L
161	AP2A2	4086	SMAD1	L
161	AP2A2	6464	SHC1	L
162	AP1B1	164	AP1G1	L
162	AP1B1	375	ARF1	L
162	AP1B1	381	ARF5	L
162	AP1B1	382	ARF6	L
162	AP1B1	409	ARRB2	L
162	AP1B1	699	BUB1	L
162	AP1B1	701	BUB1B	L
162	AP1B1	1213	CLTC	L
162	AP1B1	4087	SMAD2	L
162	AP1B1	10053	AP1M2	L
162	AP1B1	23523	CABIN1	L
162	AP1B1	55729	ATF7IP	L
162	AP1B1	63971	KIF13A	L
163	AP2B1	701	BUB1B	L
163	AP2B1	1173	AP2M1	RL
163	AP2B1	1175	AP2S1	L
163	AP2B1	4201	MEA1	R
163	AP2B1	4292	MLH1	R
163	AP2B1	7046	TGFBR1	L
163	AP2B1	8907	AP1M1	R
163	AP2B1	9550	ATP6V1G1	R
163	AP2B1	9685	ENTH	L
163	AP2B1	9729	KIAA0408	R
163	AP2B1	9883	POM121	R
163	AP2B1	10053	AP1M2	RL
163	AP2B1	26119	LDLRAP1	R
163	AP2B1	26150	RIBC2	R
163	AP2B1	27229	76P	R
163	AP2B1	53371	NUP54	R
163	AP2B1	54386	TERF2IP	R
163	AP2B1	54855	FAM46C	R
163	AP2B1	55145	THAP1	R
163	AP2B1	55707	NECAP2	R
163	AP2B1	79132	LGP2	R
164	AP1G1	375	ARF1	L
164	AP1G1	1174	AP1S1	L
164	AP1G1	1213	CLTC	L
164	AP1G1	4130	MAP1A	L
164	AP1G1	6710	SPTB	L

164	AP1G1	8905	AP1S2	L
164	AP1G1	9135	RABEP1	L
164	AP1G1	9685	ENTH	L
164	AP1G1	10053	AP1M2	L
164	AP1G1	11276	AP1GBP1	L
164	AP1G1	54812	AFTIPHILIN	L
164	AP1G1	57473	GM632	L
164	AP1G1	63971	KIF13A	L
164	AP1G1	92737	DNER	L
165	AEBP1	6929	TCF3	L
166	AES	367	AR	L
166	AES	2960	GTF2E1	L
166	AES	3146	HMGB1	L
166	AES	4990	SIX6	L
166	AES	5970	RELA	L
166	AES	6142	RPL18A	S
166	AES	6354	CCL7	S
166	AES	6457	SH3GL3	S
166	AES	6495	SIX1	L
166	AES	6496	SIX3	L
166	AES	9627	SNCAIP	S
166	AES	10736	SIX2	L
166	AES	11337	GABARAP	S
166	AES	51003	MED31	S
166	AES	51651	BIT1	L
174	AFP	1234	CCR5	L
174	AFP	9905	RUTBC1	S
175	AGA	3482	IGF2R	L
176	AGC1	1404	HAPLN1	L
176	AGC1	2192	FBLN1	L
176	AGC1	2199	FBLN2	L
176	AGC1	7130	TNFAIP6	L
176	AGC1	7143	TNR	L
177	AGER	3146	HMGB1	L
177	AGER	6271	S100A1	L
177	AGER	6283	S100A12	L
177	AGER	6285	S100B	L
177	AGER	6286	S100P	L
177	AGER	55140	ELP3	L
181	AGRP	4159	MC3R	L
181	AGRP	4160	MC4R	L
181	AGRP	4161	MC5R	L
181	AGRP	51738	GHRL	L
182	JAG1	4242	MFNG	L
182	JAG1	4301	MLLT4	L
182	JAG1	4851	NOTCH1	L
182	JAG1	4853	NOTCH2	L
182	JAG1	4854	NOTCH3	L
183	AGT	185	AGTR1	L
183	AGT	186	AGTR2	L
183	AGT	2130	EWSR1	R
183	AGT	4142	MAS1	L
183	AGT	4224	MEP1A	L
183	AGT	5553	PRG2	L
183	AGT	23549	DNPEP	L
185	AGTR1	624	BDKRB2	L
185	AGTR1	3717	JAK2	L
185	AGTR1	5868	RAB5A	L
186	AGTR2	7704	ZBTB16	L
186	AGTR2	57509	MTUS1	L
187	AGTRL1	8862	APLN	L
189	AGXT	9627	SNCAIP	S
190	NR0B1	367	AR	L
190	NR0B1	6720	SREBF1	L
190	NR0B1	9318	COPS2	L
196	AHR	405	ARNT	L
196	AHR	406	ARNTL	L

196	AHR	904	CCNT1	L
196	AHR	2099	ESR1	L
196	AHR	2963	GTF2F2	L
196	AHR	3320	HSPCA	L
196	AHR	4738	NEDD8	L
196	AHR	5925	RB1	L
196	AHR	5970	RELA	L
196	AHR	6597	SMARCA4	L
196	AHR	6667	SP1	L
196	AHR	6908	TBP	L
196	AHR	7025	NR2F1	L
196	AHR	7514	XPO1	L
196	AHR	7818	DAP3	L
196	AHR	8204	NRIP1	L
196	AHR	8648	NCOA1	L
196	AHR	9049	AIP	L
196	AHR	10728	PTGES3	L
197	AHSG	1634	DCN	L
197	AHSG	3643	INSR	L
197	AHSG	22800	RRAS2	L
197	AHSG	26232	FBXO2	L
203	AK1	2274	FHL2	L
207	AKT1	673	BRAF	L
207	AKT1	1147	CHUK	L
207	AKT1	1326	MAP3K8	L
207	AKT1	2475	FRAP1	L
207	AKT1	2887	GRB10	L
207	AKT1	3064	HD	L
207	AKT1	3164	NR4A1	L
207	AKT1	3320	HSPCA	L
207	AKT1	3611	ILK	L
207	AKT1	3615	IMPDH2	L
207	AKT1	3654	IRAK1	L
207	AKT1	3667	IRS1	L
207	AKT1	3858	KRT10	L
207	AKT1	4193	MDM2	L
207	AKT1	4296	MAP3K11	L
207	AKT1	4303	MLLT7	L
207	AKT1	4515	MTCP1	L
207	AKT1	4687	NCF1	L
207	AKT1	5170	PDPK1	L
207	AKT1	5586	PKN2	L
207	AKT1	5588	PRKCQ	L
207	AKT1	5590	PRKCZ	L
207	AKT1	5770	PTPN1	L
207	AKT1	5894	RAF1	L
207	AKT1	6198	RPS6KB1	L
207	AKT1	6416	MAP2K4	L
207	AKT1	7248	TSC1	L
207	AKT1	7249	TSC2	L
207	AKT1	7534	YWHAZ	L
207	AKT1	8115	TCL1A	L
207	AKT1	8600	TNFSF11	L
207	AKT1	8682	PEA15	L
207	AKT1	9479	MAPK8IP1	L
207	AKT1	9623	TCL1B	L
207	AKT1	9846	GAB2	L
207	AKT1	27004	TCL6	L
207	AKT1	57761	TRIB3	L
207	AKT1	64400	FTS	L
208	AKT2	1147	CHUK	L
208	AKT2	2932	GSK3B	L
208	AKT2	4515	MTCP1	L
208	AKT2	6517	SLC2A4	L
208	AKT2	8115	TCL1A	L
208	AKT2	9623	TCL1B	L
208	AKT2	26060	APPL	L

208	AKT2	57761	TRIB3	L
212	ALAS2	8803	SUCLA2	L
213	ALB	259	AMBP	L
213	ALB	348	APOE	L
213	ALB	1409	CRYAA	L
213	ALB	2217	FCGRT	L
213	ALB	4036	LRP2	L
213	ALB	5004	ORM1	L
213	ALB	5444	PON1	L
213	ALB	5552	PRG1	L
213	ALB	5950	RBP4	L
213	ALB	6927	TCF1	L
213	ALB	8029	CUBN	L
213	ALB	51631	LUC7L2	S
214	ALCAM	923	CD6	L
215	ABCD1	225	ABCD2	L
215	ABCD1	5824	PEX19	L
215	ABCD1	5825	ABCD3	L
217	ALDH2	1400	CRMP1	S
217	ALDH2	3329	HSPD1	L
217	ALDH2	3336	HSPE1	L
217	ALDH2	3692	ITGB4BP	S
217	ALDH2	9094	UNC119	S
217	ALDH2	11161	C14orf1	S
217	ALDH2	54978	C2orf18	S
217	ALDH2	55855	FAM45B	S
217	ALDH2	84966	IGSF21	S
225	ABCD2	5824	PEX19	L
225	ABCD2	5825	ABCD3	L
226	ALDOA	529	ATP6V1E1	L
226	ALDOA	2820	GPD2	L
226	ALDOA	5338	PLD2	L
226	ALDOA	8655	DNCL1	L
226	ALDOA	54464	XRN1	L
229	ALDOB	529	ATP6V1E1	L
230	ALDOC	5338	PLD2	L
231	AKR1B1	4086	SMAD1	L
238	ALK	3320	HSPCA	L
238	ALK	3667	IRS1	L
238	ALK	3718	JAK3	L
238	ALK	5335	PLCG1	L
238	ALK	5764	PTN	L
238	ALK	5921	RASA1	L
238	ALK	6464	SHC1	L
238	ALK	51530	ZC3HC1	L
239	ALOX12	3691	ITGB4	L
239	ALOX12	3852	KRT5	L
239	ALOX12	4000	LMNA	L
240	ALOX5	241	ALOX5AP	L
240	ALOX5	2885	GRB2	L
240	ALOX5	9392	TGFBRAP1	L
240	ALOX5	23406	COTL1	L
242	ALOX12B	3852	KRT5	L
242	ALOX12B	4000	LMNA	L
250	ALPP	2822	GPLD1	L
250	ALPP	10026	PIGK	L
259	AMBP	2147	F2	L
259	AMBP	2335	FN1	L
267	AMFR	7322	UBE2D2	L
267	AMFR	7327	UBE2G2	L
268	AMH	269	AMHR2	L
268	AMH	1956	EGFR	L
268	AMH	5125	PCSK5	L
270	AMPD1	4620	MYH2	L
273	AMPH	274	BIN1	L
273	AMPH	1213	CLTC	L
273	AMPH	1759	DNM1	L

273	AMPH	5338	PLD2	L
273	AMPH	6853	SYN1	L
273	AMPH	7448	VTN	L
273	AMPH	8851	CDK5R1	L
273	AMPH	23523	CABIN1	L
274	BIN1	1523	CUTL1	S
274	BIN1	1759	DNM1	L
274	BIN1	3672	ITGA1	L
274	BIN1	3675	ITGA3	L
274	BIN1	5338	PLD2	L
274	BIN1	5747	PTK2	L
274	BIN1	6456	SH3GL2	L
274	BIN1	6853	SYN1	L
274	BIN1	8491	MAP4K3	L
274	BIN1	8723	SNX4	L
274	BIN1	8867	SYNJ1	L
274	BIN1	79890	RIN3	L
276	AMY1A	10270	AKAP8	L
279	AMY2A	2813	GP2	L
283	ANG	537	ATP6AP1	S
283	ANG	944	TNFSF8	L
283	ANG	5728	PTEN	S
283	ANG	6050	RNH1	L
283	ANG	6997	TDGF1	S
284	ANGPT1	285	ANGPT2	L
284	ANGPT1	7010	TEK	L
285	ANGPT2	7010	TEK	L
286	ANK1	3897	L1CAM	L
286	ANK1	6005	RHAG	L
286	ANK1	6508	SLC4A3	L
286	ANK1	6521	SLC4A1	L
286	ANK1	6709	SPTAN1	L
286	ANK1	7074	TIAM1	L
286	ANK1	7273	TTN	L
286	ANK1	84033	OBSCN	L
286	ANK1	84224	AE2	L
287	ANK2	3897	L1CAM	L
287	ANK2	4897	NRCAM	L
287	ANK2	10280	OPRS1	L
288	ANK3	4087	SMAD2	L
288	ANK3	4088	SMAD3	L
288	ANK3	6324	SCN1B	L
291	SLC25A4	367	AR	L
291	SLC25A4	581	BAX	L
291	SLC25A4	2908	NR3C1	L
292	SLC25A5	1159	CKMT1B	L
292	SLC25A5	5829	PXN	L
292	SLC25A5	7414	VCL	L
293	SLC25A6	1114	CHGB	S
293	SLC25A6	2261	FGFR3	S
293	SLC25A6	3735	KARS	S
293	SLC25A6	5359	PLSCR1	R
293	SLC25A6	7431	VIM	S
293	SLC25A6	11098	PRSS23	S
293	SLC25A6	29888	STRN4	S
293	SLC25A6	83755	KRTAP4-12	R
301	ANXA1	2357	FPR1	L
301	ANXA1	3856	KRT8	L
301	ANXA1	6282	S100A11	L
301	ANXA1	7052	TGM2	L
302	ANXA2	350	APOH	L
302	ANXA2	634	CEACAM1	L
302	ANXA2	1508	CTSB	L
302	ANXA2	2885	GRB2	L
302	ANXA2	5111	PCNA	L
302	ANXA2	5245	PHB	L
302	ANXA2	5327	PLAT	L

302	ANXA2	5340	PLG	L
302	ANXA2	5829	PXN	L
302	ANXA2	6277	S100A6	L
302	ANXA2	6281	S100A10	L
302	ANXA2	6714	SRC	L
302	ANXA2	7414	VCL	L
302	ANXA2	10434	LYPLA1	L
302	ANXA2	51365	PLA1A	L
306	ANXA3	7157	TP53	S
306	ANXA3	9094	UNC119	S
306	ANXA3	10436	C2F	S
306	ANXA3	84966	IGSF21	S
306	ANXA3	197131	UBR1	S
307	ANXA4	2813	GP2	L
308	ANXA5	1280	COL2A1	L
308	ANXA5	1300	COL10A1	L
308	ANXA5	1981	EIF4G1	S
308	ANXA5	2222	FDFT1	S
308	ANXA5	3693	ITGB5	L
308	ANXA5	3791	KDR	L
308	ANXA5	6827	SUPT4H1	S
308	ANXA5	8726	EED	L
309	ANXA6	1380	CR2	L
309	ANXA6	5921	RASA1	L
309	ANXA6	6271	S100A1	L
309	ANXA6	6285	S100B	L
309	ANXA6	79577	CDC73	S
310	ANXA7	6281	S100A10	L
310	ANXA7	6717	SRI	L
311	ANXA11	2026	ENO2	S
311	ANXA11	3189	HNRPH3	S
311	ANXA11	5359	PLSCR1	R
311	ANXA11	6277	S100A6	L
311	ANXA11	6717	SRI	L
311	ANXA11	10016	PDCD6	L
312	ANXA13	4734	NEDD4	L
317	APAF1	598	BCL2L1	L
317	APAF1	837	CASP4	L
317	APAF1	841	CASP8	L
317	APAF1	842	CASP9	L
317	APAF1	3303	HSPA1A	L
317	APAF1	54205	CYCS	L
317	APAF1	57099	AVEN	L
319	APOF	335	APOA1	L
319	APOF	336	APOA2	L
320	APBA1	351	APP	L
320	APBA1	774	CACNA1B	L
320	APBA1	3358	HTR2C	L
320	APBA1	3768	KCNJ12	L
320	APBA1	5663	PSEN1	L
320	APBA1	6804	STX1A	L
320	APBA1	6812	STXBP1	L
320	APBA1	8573	CASK	L
320	APBA1	9973	CCS	L
320	APBA1	57576	KIF17	L
320	APBA1	64130	LIN7B	L
320	APBA1	79937	CNTNAP3	L
321	APBA2	351	APP	L
321	APBA2	4035	LRP1	L
321	APBA2	4036	LRP2	L
321	APBA2	5970	RELA	L
321	APBA2	22883	CLSTN1	L
321	APBA2	63941	APBA2BP	L
322	APBB1	333	APLP1	L
322	APBB1	351	APP	L
322	APBB1	356	FASLG	L
322	APBB1	4035	LRP1	L

322	APBB1	7024	TFCP2	L
322	APBB1	10524	HTATIP	L
322	APBB1	22883	CLSTN1	L
322	APBB1	51466	EVL	L
323	APBB2	334	APLP2	L
323	APBB2	351	APP	L
324	APC	699	BUB1	L
324	APC	991	CDC20	L
324	APC	1499	CTNNB1	L
324	APC	3728	JUP	L
324	APC	4085	MAD2L1	L
324	APC	5525	PPP2R5A	L
324	APC	5747	PTK2	L
324	APC	6101	RP1	L
324	APC	6477	SIAH1	L
324	APC	8312	AXIN1	L
324	APC	8313	AXIN2	L
324	APC	9229	DLGAP1	L
324	APC	22919	MAPRE1	L
324	APC	22920	KIFAP3	L
324	APC	50649	ARHGEF4	L
325	APCS	712	C1QA	L
325	APCS	722	C4BPA	L
325	APCS	813	CALU	L
325	APCS	1401	CRP	L
325	APCS	2209	FCGR1A	L
325	APCS	2213	FCGR2B	L
325	APCS	2214	FCGR3A	L
325	APCS	2215	FCGR3B	L
325	APCS	2335	FN1	L
325	APCS	7038	TG	L
326	AIRE	1387	CREBBP	L
327	APEH	9798	KIAA0174	R
327	APEH	79876	UBE1DC1	R
327	APEH	80021	TMEM62	S
328	APEX1	1639	DCTN1	L
328	APEX1	2237	FEN1	L
328	APEX1	2547	XRCC6	L
328	APEX1	3091	HIF1A	L
328	APEX1	3148	HMGB2	L
328	APEX1	3191	HNRPL	L
328	APEX1	3303	HSPA1A	L
328	APEX1	4595	MUTYH	L
328	APEX1	4830	NME1	L
328	APEX1	5111	PCNA	L
328	APEX1	5423	POLB	L
328	APEX1	6418	SET	L
328	APEX1	7157	TP53	L
328	APEX1	7295	TXN	L
328	APEX1	7329	UBE2I	L
328	APEX1	7515	XRCC1	L
329	BIRC2	836	CASP3	L
329	BIRC2	840	CASP7	L
329	BIRC2	842	CASP9	L
329	BIRC2	2935	GSPT1	L
329	BIRC2	3728	JUP	R
329	BIRC2	4055	LTBR	L
329	BIRC2	4110	MAGEA11	R
329	BIRC2	7185	TRAF1	L
329	BIRC2	7186	TRAF2	R
329	BIRC2	8717	TRADD	L
329	BIRC2	8767	RIPK2	L
329	BIRC2	27429	HTRA2	L
330	BIRC3	836	CASP3	L
330	BIRC3	840	CASP7	L
330	BIRC3	842	CASP9	L
330	BIRC3	2935	GSPT1	L

330	BIRC3	7185	TRAF1	L
330	BIRC3	7186	TRAF2	L
330	BIRC3	56616	DIABLO	L
331	BIRC4	836	CASP3	L
331	BIRC4	840	CASP7	L
331	BIRC4	842	CASP9	RL
331	BIRC4	2935	GSPT1	L
331	BIRC4	6885	MAP3K7	L
331	BIRC4	7189	TRAF6	L
331	BIRC4	9500	MAGED1	L
331	BIRC4	10454	MAP3K7IP1	L
331	BIRC4	23118	MAP3K7IP2	L
331	BIRC4	27429	HTRA2	L
331	BIRC4	54739	BIRC4BP	L
331	BIRC4	55093	C8orf32	R
331	BIRC4	55437	ALS2CR2	L
331	BIRC4	56616	DIABLO	L
331	BIRC4	140735	Dic2	R
331	BIRC4	150684	COMMD1	L
332	BIRC5	836	CASP3	L
332	BIRC5	840	CASP7	L
332	BIRC5	842	CASP9	L
332	BIRC5	983	CDC2	L
332	BIRC5	1019	CDK4	L
332	BIRC5	3619	INCENP	L
332	BIRC5	56616	DIABLO	L
333	APLP1	1031	CDKN2C	S
333	APLP1	1600	DAB1	L
333	APLP1	2948	GSTM4	S
333	APLP1	3117	HLA-DQA1	S
333	APLP1	3336	HSPE1	S
333	APLP1	4666	NACA	S
333	APLP1	4860	NP	S
333	APLP1	6303	SAT	S
333	APLP1	6811	STX5A	S
333	APLP1	6943	TCF21	S
333	APLP1	7083	TK1	S
333	APLP1	7572	ZNF24	S
333	APLP1	8848	TSC22D1	S
333	APLP1	8894	EIF2S2	S
333	APLP1	10200	MPHOSPH6	S
333	APLP1	10813	UTP14A	S
333	APLP1	19241	(null)	S
333	APLP1	54544	C1orf42	S
333	APLP1	55274	PHF10	S
333	APLP1	56144	PCDHA4	S
333	APLP1	114034	TOE1	S
334	APLP2	1600	DAB1	L
334	APLP2	10307	APBB3	L
334	APLP2	57473	GM632	L
335	APOA1	506	ATP5B	L
335	APOA1	949	SCARB1	L
335	APOA1	1071	CETP	L
335	APOA1	3078	CFHL1	L
335	APOA1	3250	HPR	L
335	APOA1	3931	LCAT	L
335	APOA1	5110	PCMT1	S
335	APOA1	8542	APOL1	L
335	APOA1	8794	TNFRSF10C	S
335	APOA1	9804	TOMM20	S
335	APOA1	55700	RPRC1	S
336	APOA2	341	APOC1	L
336	APOA2	347	APOD	L
336	APOA2	720	C4A	L
336	APOA2	5360	PLTP	L
337	APOA4	2822	GPLD1	L
338	APOB	633	BGN	L

338	APOB	811	CALR	L
338	APOB	821	CANX	L
338	APOB	3303	HSPA1A	L
338	APOB	3309	HSPA5	L
338	APOB	3320	HSPCA	L
338	APOB	3949	LDLR	L
338	APOB	3990	LIPC	L
338	APOB	4036	LRP2	L
338	APOB	4547	MTP	L
338	APOB	5479	PPIB	L
338	APOB	7184	TRA1	L
338	APOB	9601	PDIA4	L
338	APOB	10952	SEC61B	L
339	APOBEC1	9530	BAG4	L
339	APOBEC1	10659	CUGBP2	L
339	APOBEC1	10930	APOBEC2	L
339	APOBEC1	29974	ACF	L
339	APOBEC1	51726	DNAJB11	L
344	APOC2	4023	LPL	L
347	APOD	3953	LEPR	L
347	APOD	81488	GRINL1A	S
348	APOE	949	SCARB1	L
348	APOE	1270	CNTF	L
348	APOE	1508	CTSB	L
348	APOE	3949	LDLR	L
348	APOE	4035	LRP1	L
348	APOE	4036	LRP2	L
348	APOE	4133	MAP2	L
348	APOE	4137	MAPT	L
348	APOE	4741	NEF3	L
348	APOE	5360	PLTP	L
348	APOE	6383	SDC2	L
348	APOE	7436	VLDLR	L
348	APOE	7804	LRP8	L
350	APOH	2161	F12	L
350	APOH	4036	LRP2	L
350	APOH	7804	LRP8	L
351	APP	633	BGN	L
351	APP	642	BLMH	L
351	APP	811	CALR	L
351	APP	841	CASP8	L
351	APP	857	CAV1	L
351	APP	1278	COL1A2	L
351	APP	1282	COL4A1	L
351	APP	1284	COL4A2	L
351	APP	1285	COL4A3	L
351	APP	1287	COL4A5	L
351	APP	1288	COL4A6	L
351	APP	1504	CTRB1	L
351	APP	1600	DAB1	L
351	APP	2161	F12	L
351	APP	2192	FBLN1	L
351	APP	2597	GAPDH	L
351	APP	2934	GSN	L
351	APP	3028	HADH2	L
351	APP	3032	HADHB	L
351	APP	3163	HMOX2	L
351	APP	3339	HSPG2	L
351	APP	3416	IDE	L
351	APP	3827	KNG1	L
351	APP	3831	KNS2	L
351	APP	4035	LRP1	L
351	APP	4811	NID1	L
351	APP	5644	PRSS1	L
351	APP	5646	PRSS3	L
351	APP	5663	PSEN1	L
351	APP	6464	SHC1	L

351	APP	6622	SNCA	L
351	APP	7040	TGFB1	L
351	APP	7042	TGFB2	L
351	APP	8650	NUMB	L
351	APP	8883	APPBP1	L
351	APP	9479	MAPK8IP1	L
351	APP	9546	APBA3	L
351	APP	10134	BCAP31	L
351	APP	10307	APBB3	L
351	APP	10513	APPBP2	L
351	APP	10524	HTATIP	L
351	APP	22883	CLSTN1	L
351	APP	23385	NCSTN	L
351	APP	84570	COL25A1	L
354	KLK3	2057	EPOR	L
354	KLK3	2335	FN1	L
354	KLK3	3486	IGFBP3	L
354	KLK3	5104	SERPINA5	L
354	KLK3	5858	PZP	L
355	FAS	356	FASLG	L
355	FAS	695	BTK	L
355	FAS	841	CASP8	L
355	FAS	843	CASP10	L
355	FAS	1400	CRMP1	S
355	FAS	1616	DAXX	L
355	FAS	1915	EEF1A1	S
355	FAS	2534	FYN	L
355	FAS	3932	LCK	L
355	FAS	5783	PTPN13	L
355	FAS	7329	UBE2I	L
355	FAS	7341	SUMO1	L
355	FAS	8717	TRADD	L
355	FAS	8737	RIPK1	L
355	FAS	8772	FADD	L
355	FAS	9994	CASP8AP2	L
355	FAS	10016	PDCD6	L
355	FAS	10114	HIPK3	L
355	FAS	11124	FAF1	L
355	FAS	11161	C14orf1	S
355	FAS	23017	FAIM2	L
355	FAS	55791	C1orf103	S
355	FAS	85302	FBF1	L
355	FAS	407977	TNFSF12-TNFSF13	L
356	FASLG	1616	DAXX	L
356	FASLG	1756	DMD	L
356	FASLG	2335	FN1	L
356	FASLG	2534	FYN	L
356	FASLG	2885	GRB2	L
356	FASLG	3932	LCK	L
356	FASLG	4297	MLL	L
356	FASLG	4316	MMP7	L
356	FASLG	4687	NCF1	L
356	FASLG	4690	NCK1	L
356	FASLG	5295	PIK3R1	L
356	FASLG	5783	PTPN13	L
356	FASLG	6714	SRC	L
356	FASLG	7341	SUMO1	L
356	FASLG	7430	VIL2	L
356	FASLG	8771	TNFRSF6B	L
356	FASLG	9402	GRAP2	L
356	FASLG	10016	PDCD6	L
356	FASLG	10750	GRAP	L
356	FASLG	11252	PACSIN2	L
356	FASLG	23048	FNBP1	L
358	AQP1	4188	MDF1	R
358	AQP1	7205	TRIP6	R
358	AQP1	11007	DIPA	R

358	AQP1	30008	EFEMP2	R
358	AQP1	79734	KCTD17	R
358	AQP1	83755	KRTAP4-12	R
360	AQP3	5338	PLD2	L
362	AQP5	4188	MDFI	R
367	AR	573	BAG1	L
367	AR	595	CCND1	L
367	AR	672	BRCA1	L
367	AR	811	CALR	L
367	AR	834	CASP1	L
367	AR	836	CASP3	L
367	AR	840	CASP7	L
367	AR	841	CASP8	L
367	AR	857	CAV1	L
367	AR	898	CCNE1	L
367	AR	994	CDC25B	L
367	AR	1329	COX5B	L
367	AR	1387	CREBBP	L
367	AR	1499	CTNNB1	L
367	AR	2099	ESR1	L
367	AR	2274	FHL2	L
367	AR	2308	FOXO1A	L
367	AR	2316	FLNA	L
367	AR	2597	GAPDH	L
367	AR	2908	NR3C1	L
367	AR	2934	GSN	L
367	AR	2962	GTF2F1	L
367	AR	2963	GTF2F2	L
367	AR	2965	GTF2H1	L
367	AR	3065	HDAC1	L
367	AR	3146	HMGB1	L
367	AR	3169	FOXA1	L
367	AR	3320	HSPCA	L
367	AR	3416	IDE	L
367	AR	3725	JUN	L
367	AR	4088	SMAD3	L
367	AR	4089	SMAD4	L
367	AR	4790	NFKB1	L
367	AR	4841	NONO	L
367	AR	5451	POU2F1	L
367	AR	5469	PPARBP	L
367	AR	5881	RAC3	L
367	AR	5883	RAD9A	L
367	AR	5894	RAF1	L
367	AR	5901	RAN	L
367	AR	5925	RB1	L
367	AR	5970	RELA	L
367	AR	6047	RNF4	L
367	AR	6736	SRY	L
367	AR	6774	STAT3	L
367	AR	6840	SVIL	L
367	AR	6925	TCF4	L
367	AR	7041	TGFB111	L
367	AR	7181	NR2C1	L
367	AR	7182	NR2C2	L
367	AR	7251	TSG101	L
367	AR	7818	DAP3	L
367	AR	8031	NCOA4	L
367	AR	8202	NCOA3	L
367	AR	8409	UXT	L
367	AR	8431	NR0B2	L
367	AR	8648	NCOA1	L
367	AR	8805	TRIM24	L
367	AR	9063	PIAS2	L
367	AR	9282	CRSP2	L
367	AR	9604	RNF14	L
367	AR	9611	NCOR1	L

367	AR	9733	SART3	L
367	AR	10048	RANBP9	L
367	AR	10399	GNB2L1	L
367	AR	10499	NCOA2	L
367	AR	10514	MYBBP1A	L
367	AR	10524	HTATIP	L
367	AR	11140	CDC37	L
367	AR	11143	MYST2	L
367	AR	11188	NISCH	L
367	AR	24148	C20orf14	L
367	AR	25898	RCHY1	L
367	AR	27043	PELP1	L
367	AR	51588	PIAS4	L
367	AR	56924	PAK6	L
367	AR	64324	NSD1	L
368	ABCC6	7414	VCL	L
369	ARAF	445	ASS	L
369	ARAF	1460	CSNK2B	L
369	ARAF	2202	EFEMP1	L
369	ARAF	5295	PIK3R1	L
369	ARAF	5604	MAP2K1	L
369	ARAF	5605	MAP2K2	L
369	ARAF	6237	RRAS	L
369	ARAF	8533	COPS3	L
369	ARAF	10469	TIMM44	L
369	ARAF	24148	C20orf14	L
369	ARAF	51497	TH1L	L
369	ARAF	55872	PBK	L
369	ARAF	59349	KLHL12	R
372	ARCN1	1314	COPA	L
372	ARCN1	1315	COPB	L
372	ARCN1	9276	COPB2	L
372	ARCN1	22820	COPG	L
372	ARCN1	26958	COPG2	L
373	TRIM23	2669	GEM	R
373	TRIM23	7536	SF1	R
373	TRIM23	9266	PSCD2	L
373	TRIM23	9267	PSCD1	L
373	TRIM23	9883	POM121	R
373	TRIM23	23062	GGA2	R
373	TRIM23	26150	RIBC2	R
373	TRIM23	51545	ZNF581	R
373	TRIM23	58500	ZNF250	R
373	TRIM23	79173	MGC11271	R
373	TRIM23	80308	FLAD1	R
373	TRIM23	84708	LNX	R
374	AREG	896	CCND3	L
374	AREG	1956	EGFR	L
374	AREG	4318	MMP9	L
375	ARF1	1131	CHRM3	L
375	ARF1	1315	COPB	L
375	ARF1	1937	EEF1G	S
375	ARF1	4194	MDM4	L
375	ARF1	5337	PLD1	L
375	ARF1	5338	PLD2	L
375	ARF1	5898	RALA	L
375	ARF1	7094	TLN1	L
375	ARF1	8394	PIP5K1A	L
375	ARF1	8853	DDEF2	L
375	ARF1	8943	AP3D1	L
375	ARF1	9179	AP4M1	L
375	ARF1	9266	PSCD2	L
375	ARF1	9267	PSCD1	L
375	ARF1	9463	PRKCABP	L
375	ARF1	10945	KDELRL1	L
375	ARF1	11316	COPE	L
375	ARF1	22820	COPG	L

375	ARF1	23163	GGA3	L
375	ARF1	23431	AP4E1	L
375	ARF1	23647	ARFIP2	L
375	ARF1	27236	ARFIP1	L
375	ARF1	51729	WBP11	S
375	ARF1	55738	ARFGAP1	L
375	ARF1	84273	C4orf14	S
375	ARF1	84725	PLEKHA8	L
377	ARF3	9463	PRKCABP	L
377	ARF3	9493	KIF23	L
377	ARF3	23062	GGA2	L
377	ARF3	23647	ARFIP2	L
377	ARF3	27236	ARFIP1	L
378	ARF4	1956	EGFR	L
379	ARF4L	1967	EIF2B1	S
379	ARF4L	2058	EPRS	S
379	ARF4L	3301	DNAJA1	S
379	ARF4L	5223	PGAM1	S
379	ARF4L	5589	PRKCSH	S
379	ARF4L	6638	SNRPN	S
379	ARF4L	7088	TLE1	S
379	ARF4L	9094	UNC119	S
379	ARF4L	10397	NDRG1	S
379	ARF4L	23162	MAPK8IP3	S
379	ARF4L	23204	ARL6IP	L
379	ARF4L	27436	EML4	S
379	ARF4L	29058	C20orf30	S
379	ARF4L	197131	UBR1	S
379	ARF4L	245812	MGC40499	S
381	ARF5	8394	PIP5K1A	L
381	ARF5	8853	DDEF2	L
381	ARF5	23647	ARFIP2	L
382	ARF6	408	ARRB1	L
382	ARF6	409	ARRB2	L
382	ARF6	1131	CHRM3	L
382	ARF6	5337	PLD1	L
382	ARF6	8394	PIP5K1A	L
382	ARF6	8853	DDEF2	L
382	ARF6	8943	AP3D1	L
382	ARF6	9266	PSCD2	L
382	ARF6	10640	SEC10L1	L
382	ARF6	23396	PIP5K1C	L
382	ARF6	23647	ARFIP2	L
383	ARG1	384	ARG2	L
383	ARG1	4842	NOS1	L
387	RHOA	392	ARHGAP1	RL
387	RHOA	396	ARHGDIA	L
387	RHOA	397	ARHGDIB	L
387	RHOA	398	ARHGDIG	L
387	RHOA	1609	DGKQ	L
387	RHOA	2316	FLNA	L
387	RHOA	3708	ITPR1	L
387	RHOA	3737	KCNA2	L
387	RHOA	3895	KTN1	L
387	RHOA	4168	MCF2	L
387	RHOA	4659	PPP1R12A	L
387	RHOA	4983	OPHN1	L
387	RHOA	5147	PDE6D	L
387	RHOA	5335	PLCG1	L
387	RHOA	5337	PLD1	L
387	RHOA	5578	PRKCA	L
387	RHOA	5585	PKN1	L
387	RHOA	5586	PKN2	L
387	RHOA	5910	RAP1GDS1	L
387	RHOA	6093	ROCK1	L
387	RHOA	6242	RTKN	L
387	RHOA	7052	TGM2	L

387	RHOA	7204	TRIO	L
387	RHOA	7410	VAV2	L
387	RHOA	8506	CNTNAP1	L
387	RHOA	9181	ARHGEF2	L
387	RHOA	9600	PITPNM1	L
387	RHOA	9826	ARHGEF11	L
387	RHOA	10256	CNKS1R1	L
387	RHOA	10451	VAV3	L
387	RHOA	10567	RABAC1	L
387	RHOA	11214	AKAP13	L
387	RHOA	23002	DAAM1	L
387	RHOA	23263	MCF2L	L
387	RHOA	23365	ARHGEF12	L
387	RHOA	23463	ICMT	L
387	RHOA	23616	SH3BP1	L
387	RHOA	50619	DEF6	L
387	RHOA	50649	ARHGEF4	L
387	RHOA	51291	GMIP	L
387	RHOA	57522	SRGAP1	L
388	RHOB	398	ARHGDIG	L
388	RHOB	5147	PDE6D	L
388	RHOB	85415	RHPN2	L
389	RHOC	392	ARHGAP1	R
389	RHOC	6242	RTKN	L
390	RND3	6093	ROCK1	L
390	RND3	91544	UBXD5	L
391	RHOG	398	ARHGDIG	L
391	RHOG	1793	DOCK1	L
391	RHOG	3895	KTN1	L
391	RHOG	4296	MAP3K11	L
391	RHOG	5337	PLD1	L
391	RHOG	7410	VAV2	L
391	RHOG	10451	VAV3	L
391	RHOG	10788	IQGAP2	L
392	ARHGAP1	663	BNIP2	L
392	ARHGAP1	998	CDC42	L
392	ARHGAP1	5295	PIK3R1	L
392	ARHGAP1	5921	RASA1	L
392	ARHGAP1	6714	SRC	L
392	ARHGAP1	7454	WAS	L
393	ARHGAP4	4214	MAP3K1	L
393	ARHGAP4	4893	NRAS	L
394	ARHGAP5	3678	ITGA5	L
394	ARHGAP5	3688	ITGB1	L
394	ARHGAP5	5921	RASA1	L
394	ARHGAP5	64750	SMURF2	L
396	ARHGDIA	998	CDC42	L
396	ARHGDIA	1027	CDKN1B	S
396	ARHGDIA	2237	FEN1	S
396	ARHGDIA	3728	JUP	S
396	ARHGDIA	5058	PAK1	L
396	ARHGDIA	5879	RAC1	L
396	ARHGDIA	5880	RAC2	L
396	ARHGDIA	5962	RDX	L
396	ARHGDIA	6457	SH3GL3	S
396	ARHGDIA	6484	ST3GAL4	S
396	ARHGDIA	23327	NEDD4L	S
397	ARHGDIB	399	RHOH	L
397	ARHGDIB	998	CDC42	L
397	ARHGDIB	5879	RAC1	L
397	ARHGDIB	5880	RAC2	L
397	ARHGDIB	7409	VAV1	L
397	ARHGDIB	7430	VIL2	L
398	ARHGDIG	399	RHOH	L
398	ARHGDIG	998	CDC42	L
398	ARHGDIG	5683	PSMA2	L
398	ARHGDIG	5879	RAC1	L

399	RHOH	2664	GDI1	L
399	RHOH	3757	KCNH2	S
399	RHOH	10813	UTP14A	S
399	RHOH	55791	C1orf103	S
400	ARL1	2800	GOLGA1	L
400	ARL1	2803	GOLGA4	L
401	PHOX2A	1387	CREBBP	L
401	PHOX2A	1388	CREBL1	L
401	PHOX2A	5566	PRKACA	L
401	PHOX2A	9464	HAND2	L
402	ARL2	5147	PDE6D	RL
403	ARL3	2803	GOLGA4	L
403	ARL3	5147	PDE6D	SL
403	ARL3	6102	RP2	L
403	ARL3	7088	TLE1	S
403	ARL3	7157	TP53	S
403	ARL3	7846	TUBA3	L
403	ARL3	9094	UNC119	SL
403	ARL3	55791	C1orf103	S
403	ARL3	197131	UBR1	S
405	ARNT	2034	EPAS1	L
405	ARNT	2963	GTF2F2	L
405	ARNT	3091	HIF1A	L
405	ARNT	4093	SMAD9	L
405	ARNT	5371	PML	L
405	ARNT	6492	SIM1	L
405	ARNT	6493	SIM2	L
405	ARNT	8648	NCOA1	L
405	ARNT	9049	AIP	L
405	ARNT	10499	NCOA2	L
405	ARNT	10728	PTGES3	L
405	ARNT	23462	HEY1	L
405	ARNT	23493	HEY2	L
405	ARNT	57491	AHRR	L
406	ARNTL	1407	CRY1	L
406	ARNTL	1454	CSNK1E	L
406	ARNTL	2034	EPAS1	L
406	ARNTL	3091	HIF1A	L
406	ARNTL	3320	HSPCA	L
406	ARNTL	9575	CLOCK	L
407	ARR3	826	CAPNS1	S
407	ARR3	1213	CLTC	L
407	ARR3	1457	CSNK2A1	L
407	ARR3	1856	DVL2	R
407	ARR3	5609	MAP2K7	S
407	ARR3	6010	RHO	L
407	ARR3	6039	RNASE6	S
407	ARR3	6714	SRC	L
407	ARR3	8546	AP3B1	L
407	ARR3	27232	GNMT	R
407	ARR3	84838	ZNF496	R
407	ARR3	283248	RCOR2	S
408	ARRB1	1213	CLTC	L
408	ARRB1	1231	CCR2	L
408	ARRB1	1234	CCR5	L
408	ARRB1	1445	CSK	L
408	ARRB1	1855	DVL1	L
408	ARRB1	1856	DVL2	L
408	ARRB1	2268	FGR	L
408	ARRB1	3579	IL8RB	L
408	ARRB1	4792	NFKBIA	L
408	ARRB1	4905	NSF	L
408	ARRB1	4985	OPRD1	L
408	ARRB1	5144	PDE4D	L
408	ARRB1	5744	PTHLH	L
408	ARRB1	5745	PTHR1	L
408	ARRB1	5900	RALGDS	L

408	ARRB1	7201	TRHR	L
408	ARRB1	9266	PSCD2	L
408	ARRB1	23099	ZNF297B	R
408	ARRB1	27232	GNMT	R
409	ARRB2	554	AVPR2	L
409	ARRB2	4193	MDM2	L
409	ARRB2	4217	MAP3K5	L
409	ARRB2	4922	NTS	L
409	ARRB2	4923	NTSR1	L
409	ARRB2	4985	OPRD1	L
409	ARRB2	5021	OXTR	L
409	ARRB2	5144	PDE4D	L
409	ARRB2	5602	MAPK10	L
409	ARRB2	5900	RALGDS	L
409	ARRB2	6416	MAP2K4	L
409	ARRB2	6601	SMARCC2	S
409	ARRB2	7200	TRH	L
409	ARRB2	8614	STC2	S
409	ARRB2	9266	PSCD2	L
409	ARRB2	10114	HIPK3	L
409	ARRB2	112950	MED8	S
409	ARRB2	374291	NDUFS7	S
415	ARSE	4692	NDN	S
415	ARSE	10188	TNK2	S
415	ARSE	51004	COQ6	S
416	ARSF	6625	SNRP70	L
417	ART1	5155	PDGFB	L
421	ARVCF	999	CDH1	L
421	ARVCF	1000	CDH2	L
421	ARVCF	1013	CDH15	L
421	ARVCF	55914	ERBB2IP	L
427	ASAH1	8848	TSC22D1	S
427	ASAH1	9869	SETDB1	S
429	ASCL1	650	BMP2	L
429	ASCL1	4205	MEF2A	L
429	ASCL1	6925	TCF4	L
430	ASCL2	801	CALM1	L
430	ASCL2	805	CALM2	L
430	ASCL2	808	CALM3	L
432	ASGR1	433	ASGR2	L
432	ASGR1	1719	DHFR	L
432	ASGR1	3320	HSPCA	L
432	ASGR1	7038	TG	L
432	ASGR1	7184	TRA1	L
432	ASGR1	29956	LASS2	L
433	ASGR2	29956	LASS2	L
434	ASIP	4157	MC1R	L
434	ASIP	4158	MC2R	L
434	ASIP	4159	MC3R	L
434	ASIP	4160	MC4R	L
435	ASL	5859	QARS	R
440	ASNS	29888	STRN4	S
444	ASPH	10345	TRDN	L
445	ASS	2006	ELN	L
445	ASS	64400	FTS	S
445	ASS	84164	ASCC2	S
462	SERPINC1	2147	F2	L
462	SERPINC1	5340	PLG	L
462	SERPINC1	6383	SDC2	L
463	ATBF1	22981	KIAA0980	R
463	ATBF1	55660	FNBP3	L
466	ATF1	571	BACH1	L
466	ATF1	672	BRCA1	L
466	ATF1	1385	CREB1	L
466	ATF1	1387	CREBBP	L
466	ATF1	1390	CREM	L
466	ATF1	1457	CSNK2A1	L

466	ATF1	1459	CSNK2A2	L
466	ATF1	2551	GABPA	L
466	ATF1	3725	JUN	L
466	ATF1	4783	NFIL3	L
466	ATF1	6688	SPI1	L
466	ATF1	6928	TCF2	L
466	ATF1	8721	EDF1	L
467	ATF3	468	ATF4	L
467	ATF3	1054	CEBPG	L
467	ATF3	1386	ATF2	L
467	ATF3	1649	DDIT3	L
467	ATF3	2261	FGFR3	S
467	ATF3	3725	JUN	L
467	ATF3	3726	JUNB	L
467	ATF3	3727	JUND	L
467	ATF3	4088	SMAD3	L
467	ATF3	7157	TP53	SL
467	ATF3	9586	CREB5	L
467	ATF3	11016	ATF7	L
467	ATF3	55509	SNFT	L
467	ATF3	55791	C1orf103	S
467	ATF3	83540	CDCA1	S
467	ATF3	84966	IGSF21	S
468	ATF4	1050	CEBPA	L
468	ATF4	1051	CEBPB	L
468	ATF4	1052	CEBPD	L
468	ATF4	1053	CEBPE	L
468	ATF4	1054	CEBPG	L
468	ATF4	1613	DAPK3	L
468	ATF4	1649	DDIT3	L
468	ATF4	2353	FOS	L
468	ATF4	2354	FOSB	L
468	ATF4	2874	GPS2	R
468	ATF4	2963	GTF2F2	L
468	ATF4	3131	HLF	L
468	ATF4	3725	JUN	L
468	ATF4	4094	MAF	L
468	ATF4	4779	NFE2L1	L
468	ATF4	4780	NFE2L2	L
468	ATF4	5432	POLR2C	L
468	ATF4	7276	TTR	R
468	ATF4	9568	GPR51	L
468	ATF4	9586	CREB5	L
468	ATF4	10538	BATF	L
468	ATF4	11016	ATF7	L
468	ATF4	11219	TREX2	R
468	ATF4	23641	LDOC1	R
468	ATF4	27185	DISC1	L
468	ATF4	29903	HSU79303	S
468	ATF4	55037	FLJ20758	R
468	ATF4	55509	SNFT	L
468	ATF4	57761	TRIB3	L
468	ATF4	58487	ZF	L
472	ATM	847	CAT	L
472	ATM	3014	H2AFX	L
472	ATM	3094	HINT1	L
472	ATM	5591	PRKDC	L
472	ATM	5830	PEX5	L
472	ATM	5884	RAD17	L
472	ATM	5976	RENT1	L
472	ATM	7013	TERF1	L
472	ATM	7157	TP53	L
472	ATM	11200	CHEK2	L
473	RERE	1822	ATN1	L
473	RERE	7205	TRIP6	L
475	ATOX1	538	ATP7A	L
475	ATOX1	540	ATP7B	L

476	ATP1A1	1072	CFL1	L
476	ATP1A1	2146	EZH2	S
476	ATP1A1	5348	FXYD1	L
476	ATP1A1	5595	MAPK3	L
476	ATP1A1	53822	FXYD7	L
481	ATP1B1	5348	FXYD1	L
481	ATP1B1	53822	FXYD7	L
481	ATP1B1	55791	C1orf103	S
482	ATP1B2	58157	NGB	L
487	ATP2A1	3667	IRS1	L
487	ATP2A1	5350	PLN	L
487	ATP2A1	6588	SLN	L
487	ATP2A1	8660	IRS2	L
488	ATP2A2	5350	PLN	L
488	ATP2A2	6271	S100A1	L
491	ATP2B2	1739	DLG1	L
491	ATP2B2	1740	DLG2	L
491	ATP2B2	1742	DLG4	L
491	ATP2B2	9351	SLC9A3R2	L
491	ATP2B2	51248	PDZK11	L
493	ATP2B4	805	CALM2	L
493	ATP2B4	1739	DLG1	L
493	ATP2B4	1740	DLG2	L
493	ATP2B4	1741	DLG3	L
493	ATP2B4	1742	DLG4	L
493	ATP2B4	8573	CASK	L
496	ATP4B	6804	STX1A	L
498	ATP5A1	91647	ATPAF2	L
501	ALDH7A1	9400	RECQL5	S
506	ATP5B	5340	PLG	L
506	ATP5B	7414	VCL	L
506	ATP5B	10197	PSME3	S
506	ATP5B	91647	ATPAF2	L
509	ATP5C1	771	CA12	S
509	ATP5C1	896	CCND3	S
509	ATP5C1	1956	EGFR	S
509	ATP5C1	3698	ITIH2	S
509	ATP5C1	4354	MPP1	S
509	ATP5C1	4709	NDUFB3	S
509	ATP5C1	5074	PAWR	S
509	ATP5C1	5764	PTN	S
509	ATP5C1	10072	DPP3	S
509	ATP5C1	10574	CCT7	S
509	ATP5C1	23649	POLA2	S
509	ATP5C1	25791	NGEF	S
509	ATP5C1	25978	CHMP2B	S
509	ATP5C1	26152	ZNF337	S
509	ATP5C1	51586	PCQAP	S
509	ATP5C1	54857	GDPD2	S
509	ATP5C1	56902	LOC56902	S
509	ATP5C1	64219	PJA1	S
509	ATP5C1	84337	ELOF1	S
518	ATP5G3	7920	BAT5	L
527	ATP6V0C	4140	MARK3	S
527	ATP6V0C	29956	LASS2	L
529	ATP6V1E1	534	ATP6V1G2	L
529	ATP6V1E1	2547	XRCC6	S
529	ATP6V1E1	6654	SOS1	L
529	ATP6V1E1	9368	SLC9A3R1	L
529	ATP6V1E1	9550	ATP6V1G1	S
529	ATP6V1E1	51606	ATP6V1H	L
537	ATP6AP1	3039	HBA1	S
538	ATP7A	1356	CP	L
545	ATR	672	BRCA1	L
545	ATR	1108	CHD4	L
545	ATR	4436	MSH2	L
545	ATR	5371	PML	L

545	ATR	11200	CHEK2	L
545	ATR	11277	TREX1	L
545	ATR	63967	CLSPN	L
546	ATRX	2146	EZH2	L
546	ATRX	5764	PTN	S
546	ATRX	5775	PTPN4	S
546	ATRX	51631	LUC7L2	S
546	ATRX	54462	KIAA1128	S
546	ATRX	57473	GM632	L
546	ATRX	57562	KIAA1377	S
547	KIF1A	28964	GIT1	L
550	AUP1	3672	ITGA1	L
550	AUP1	3673	ITGA2	L
550	AUP1	3674	ITGA2B	L
550	AUP1	3678	ITGA5	L
550	AUP1	3684	ITGAM	L
550	AUP1	3685	ITGAV	L
550	AUP1	26994	RNF11	L
551	AVP	552	AVPR1A	L
551	AVP	553	AVPR1B	L
551	AVP	554	AVPR2	L
551	AVP	5021	OXTR	L
552	AVPR1A	2869	GRK5	L
552	AVPR1A	5578	PRKCA	L
553	AVPR1B	2869	GRK5	L
554	AVPR2	2778	GNAS	L
554	AVPR2	2869	GRK5	L
558	AXL	2621	GAS6	L
558	AXL	2885	GRB2	L
558	AXL	3932	LCK	L
558	AXL	5296	PIK3R2	L
558	AXL	6464	SHC1	L
558	AXL	6714	SRC	L
563	AZGP1	3685	ITGAV	L
567	B2M	909	CD1A	L
567	B2M	910	CD1B	L
567	B2M	912	CD1D	L
567	B2M	913	CD1E	L
567	B2M	925	CD8A	L
567	B2M	2217	FCGRT	L
567	B2M	3077	HFE	L
567	B2M	3105	HLA-A	L
567	B2M	3106	HLA-B	L
567	B2M	3107	HLA-C	L
567	B2M	3133	HLA-E	L
567	B2M	3135	HLA-G	L
567	B2M	7414	VCL	L
567	B2M	7917	BAT3	S
567	B2M	10859	LILRB1	L
567	B2M	11098	PRSS23	S
570	BAAT	23657	SLC7A11	L
571	BACH1	672	BRCA1	L
571	BACH1	1386	ATF2	L
571	BACH1	1390	CREM	L
571	BACH1	4094	MAF	L
571	BACH1	4097	MAFG	L
571	BACH1	7975	MAFK	L
571	BACH1	9586	CREB5	L
571	BACH1	9935	MAFB	L
571	BACH1	11016	ATF7	L
572	BAD	596	BCL2	L
572	BAD	597	BCL2A1	L
572	BAD	598	BCL2L1	L
572	BAD	599	BCL2L2	L
572	BAD	2130	EWSR1	R
572	BAD	2810	SFN	R
572	BAD	4170	MCL1	L

572	BAD	6281	S100A10	L
572	BAD	6622	SNCA	L
572	BAD	7009	TEGT	L
572	BAD	7529	YWHAB	L
572	BAD	7531	YWHAE	L
572	BAD	7533	YWHAH	L
572	BAD	7534	YWHAZ	L
572	BAD	10017	BCL2L10	L
572	BAD	10971	YWHAQ	L
572	BAD	11040	PIM2	L
573	BAG1	596	BCL2	L
573	BAG1	598	BCL2L1	L
573	BAG1	1839	HBEGF	L
573	BAG1	2099	ESR1	L
573	BAG1	2908	NR3C1	L
573	BAG1	3312	HSPA8	L
573	BAG1	4233	MET	L
573	BAG1	5159	PDGFRB	L
573	BAG1	5894	RAF1	L
573	BAG1	5914	RARA	L
573	BAG1	5925	RB1	L
573	BAG1	6477	SIAH1	L
573	BAG1	6767	ST13	L
573	BAG1	7421	VDR	L
573	BAG1	10273	STUB1	L
573	BAG1	23645	PPP1R15A	L
575	BAI1	1742	DLG4	L
575	BAI1	8938	BAIAP3	L
575	BAI1	9223	MAGI1	L
575	BAI1	10458	BAIAP2	L
575	BAI1	260425	MAGI3	L
576	BAI2	7094	TLN1	L
576	BAI2	22941	SHANK2	L
576	BAI2	50944	SHANK1	L
576	BAI2	55805	LRP2BP	L
576	BAI2	90627	STARD13	L
576	BAI2	307255	(null)	S
578	BAK1	581	BAX	L
578	BAK1	596	BCL2	L
578	BAK1	597	BCL2A1	L
578	BAK1	598	BCL2L1	RL
578	BAK1	3329	HSPD1	L
578	BAK1	4170	MCL1	L
578	BAK1	7157	TP53	L
578	BAK1	7417	VDAC2	L
580	BARD1	602	BCL3	L
580	BARD1	672	BRCA1	L
580	BARD1	1477	CSTF1	L
580	BARD1	2130	EWSR1	L
580	BARD1	4436	MSH2	L
580	BARD1	5430	POLR2A	L
580	BARD1	5451	POU2F1	L
580	BARD1	5932	RBBP8	L
580	BARD1	7323	UBE2D3	L
580	BARD1	7332	UBE2L3	L
581	BAX	596	BCL2	L
581	BAX	597	BCL2A1	L
581	BAX	598	BCL2L1	L
581	BAX	4170	MCL1	L
581	BAX	7416	VDAC1	L
581	BAX	10017	BCL2L10	L
581	BAX	10971	YWHAQ	L
581	BAX	51100	SH3GLB1	L
581	BAX	64112	MOAP1	L
583	BBS2	10197	PSME3	R
585	BBS4	5108	PCM1	L
586	BCAT1	4090	SMAD5	L

590	BCHE	8292	COLQ	L
593	BCKDHA	594	BCKDHB	L
595	CCND1	672	BRCA1	L
595	CCND1	801	CALM1	L
595	CCND1	1019	CDK4	L
595	CCND1	1021	CDK6	L
595	CCND1	1026	CDKN1A	L
595	CCND1	1027	CDKN1B	L
595	CCND1	1032	CDKN2D	L
595	CCND1	1316	KLF6	L
595	CCND1	1499	CTNNB1	L
595	CCND1	2033	EP300	L
595	CCND1	2099	ESR1	L
595	CCND1	3429	IFI27	L
595	CCND1	4605	MYBL2	L
595	CCND1	5000	ORC4L	L
595	CCND1	5925	RB1	L
595	CCND1	5933	RBL1	L
595	CCND1	5981	RFC1	L
595	CCND1	6774	STAT3	L
595	CCND1	6872	TAF1	L
595	CCND1	7067	THRA	L
595	CCND1	8202	NCOA3	L
595	CCND1	8452	CUL3	L
595	CCND1	8648	NCOA1	L
595	CCND1	8850	PCAF	L
595	CCND1	9978	RBX1	L
595	CCND1	9988	DMTF1	L
595	CCND1	10270	AKAP8	L
595	CCND1	23582	CCNDBP1	L
595	CCND1	51191	HERC5	L
595	CCND1	55388	MCM10	L
596	BCL2	637	BID	L
596	BCL2	638	BIK	L
596	BCL2	640	BLK	L
596	BCL2	662	BNIP1	L
596	BCL2	663	BNIP2	L
596	BCL2	664	BNIP3	L
596	BCL2	665	BNIP3L	L
596	BCL2	836	CASP3	L
596	BCL2	841	CASP8	L
596	BCL2	1017	CDK2	L
596	BCL2	3164	NR4A1	L
596	BCL2	3265	HRAS	L
596	BCL2	3303	HSPA1A	L
596	BCL2	3708	ITPR1	L
596	BCL2	3845	KRAS	L
596	BCL2	4893	NRAS	L
596	BCL2	5300	PIN1	L
596	BCL2	5515	PPP2CA	L
596	BCL2	5525	PPP2R5A	L
596	BCL2	5530	PPP3CA	L
596	BCL2	5594	MAPK1	L
596	BCL2	5663	PSEN1	L
596	BCL2	5883	RAD9A	L
596	BCL2	5894	RAF1	L
596	BCL2	6009	RHEB	L
596	BCL2	6237	RRAS	L
596	BCL2	6606	SMN1	L
596	BCL2	6647	SOD1	L
596	BCL2	7009	TEGT	L
596	BCL2	7159	TP53BP2	L
596	BCL2	7536	SF1	L
596	BCL2	8678	BECN1	L
596	BCL2	8739	HRK	L
596	BCL2	9088	PKMYT1	L
596	BCL2	9445	ITM2B	L

596	BCL2	9530	BAG4	L
596	BCL2	9531	BAG3	L
596	BCL2	9774	BCLAF1	L
596	BCL2	9804	TOMM20	L
596	BCL2	10017	BCL2L10	L
596	BCL2	10018	BCL2L11	L
596	BCL2	10134	BCAP31	L
596	BCL2	23770	FKBP8	L
596	BCL2	54205	CYCS	L
596	BCL2	57142	RTN4	L
596	BCL2	63970	P53AIP1	L
596	BCL2	64112	MOAP1	L
596	BCL2	79370	BCL2L14	L
596	BCL2	83985	SPIN1	L
596	BCL2	90427	BMF	L
597	BCL2A1	637	BID	L
597	BCL2A1	638	BIK	L
597	BCL2A1	666	BOK	L
597	BCL2A1	2885	GRB2	L
598	BCL2L1	637	BID	L
598	BCL2L1	638	BIK	RL
598	BCL2L1	662	BNIP1	L
598	BCL2L1	664	BNIP3	L
598	BCL2L1	665	BNIP3L	L
598	BCL2L1	841	CASP8	L
598	BCL2L1	842	CASP9	L
598	BCL2L1	3667	IRS1	L
598	BCL2L1	5663	PSEN1	L
598	BCL2L1	5664	PSEN2	L
598	BCL2L1	5883	RAD9A	L
598	BCL2L1	6252	RTN1	L
598	BCL2L1	6622	SNCA	L
598	BCL2L1	7009	TEGT	L
598	BCL2L1	7157	TP53	L
598	BCL2L1	7416	VDAC1	L
598	BCL2L1	8660	IRS2	L
598	BCL2L1	8678	BECN1	L
598	BCL2L1	8739	HRK	L
598	BCL2L1	8837	CFLAR	L
598	BCL2L1	10018	BCL2L11	L
598	BCL2L1	10134	BCAP31	L
598	BCL2L1	22806	ZNFN1A3	L
598	BCL2L1	23770	FKBP8	L
598	BCL2L1	54205	CYCS	L
598	BCL2L1	57099	AVEN	L
598	BCL2L1	57142	RTN4	L
598	BCL2L1	64112	MOAP1	L
598	BCL2L1	79370	BCL2L14	L
598	BCL2L1	83596	BCL2L12	L
598	BCL2L1	83985	SPIN1	L
598	BCL2L1	84168	ANTXR1	L
599	BCL2L2	90427	BMF	L
602	BCL3	1387	CREBBP	L
602	BCL3	2353	FOS	L
602	BCL3	2534	FYN	L
602	BCL3	2957	GTF2A1	L
602	BCL3	2959	GTF2B	L
602	BCL3	3725	JUN	L
602	BCL3	4790	NFKB1	L
602	BCL3	4791	NFKB2	L
602	BCL3	6256	RXRA	L
602	BCL3	6464	SHC1	L
602	BCL3	6908	TBP	L
602	BCL3	8648	NCOA1	L
602	BCL3	9367	RAB9A	L
602	BCL3	10524	HTATIP	L
602	BCL3	10987	COPS5	L

602	BCL3	55728	N4BP2	L
604	BCL6	3662	IRF4	L
604	BCL6	3725	JUN	L
604	BCL6	3726	JUNB	L
604	BCL6	3727	JUND	L
604	BCL6	5467	PPARD	L
604	BCL6	6667	SP1	L
604	BCL6	7704	ZBTB16	L
604	BCL6	9611	NCOR1	L
604	BCL6	9612	NCOR2	L
604	BCL6	9734	HDAC9	L
604	BCL6	9759	HDAC4	L
604	BCL6	10014	HDAC5	L
604	BCL6	25942	SIN3A	L
604	BCL6	51341	ZBTB7A	L
604	BCL6	51564	HDAC7A	L
604	BCL6	54880	BCOR	L
607	BCL9	1499	CTNNB1	L
607	BCL9	26108	PYGO1	L
607	BCL9	90780	PYGO2	L
608	TNFRSF17	7185	TRAF1	L
608	TNFRSF17	7186	TRAF2	L
608	TNFRSF17	7187	TRAF3	L
608	TNFRSF17	10673	TNFSF13B	L
608	TNFRSF17	407977	TNFSF12-TNFSF13	L
610	HCN2	348980	HCN1	L
613	BCR	640	BLK	L
613	BCR	2071	ERCC3	L
613	BCR	2242	FES	L
613	BCR	2885	GRB2	L
613	BCR	2887	GRB10	L
613	BCR	3717	JAK2	L
613	BCR	4301	MLLT4	L
613	BCR	5335	PLCG1	L
613	BCR	5777	PTPN6	L
613	BCR	5781	PTPN11	L
613	BCR	5921	RASA1	L
613	BCR	6464	SHC1	L
613	BCR	6714	SRC	L
613	BCR	7157	TP53	S
613	BCR	7409	VAV1	L
613	BCR	7534	YWHAZ	L
613	BCR	8440	NCK2	L
613	BCR	9094	UNC119	S
613	BCR	11183	MAP4K5	L
613	BCR	84966	IGSF21	S
617	BCS1L	57062	DDX24	S
624	BDKRB2	4842	NOS1	L
624	BDKRB2	4846	NOS3	L
624	BDKRB2	5781	PTPN11	L
627	BDNF	4684	NCAM1	L
627	BDNF	4846	NOS3	L
627	BDNF	4908	NTF3	L
627	BDNF	4909	NTF5	L
627	BDNF	4915	NTRK2	L
629	BF	718	C3	L
629	BF	721	C4B	L
629	BF	5199	PFC	L
631	BFSP1	7431	VIM	L
631	BFSP1	8419	BFSP2	L
632	BGLAP	2677	GGCX	L
633	BGN	1277	COL1A1	L
633	BGN	1278	COL1A2	L
633	BGN	1284	COL4A2	L
633	BGN	2006	ELN	L
633	BGN	4237	MFAP2	L
633	BGN	6442	SGCA	L

633	BGN	7040	TGFB1	L
633	BGN	7124	TNF	L
634	CEACAM1	1088	CEACAM8	L
634	CEACAM1	4680	CEACAM6	L
634	CEACAM1	5777	PTPN6	L
634	CEACAM1	5781	PTPN11	L
634	CEACAM1	5829	PXN	L
634	CEACAM1	6464	SHC1	L
636	BICD1	5870	RAB6A	L
636	BICD1	10540	DCTN2	L
637	BID	823	CAPN1	L
637	BID	835	CASP2	L
639	PRDM1	3662	IRF4	L
639	PRDM1	7088	TLE1	L
639	PRDM1	7089	TLE2	L
640	BLK	867	CBL	L
640	BLK	2212	FCGR2A	L
640	BLK	5336	PLCG2	L
640	BLK	7337	UBE3A	L
640	BLK	9646	SH2BP1	L
640	BLK	10286	BCAS2	L
641	BLM	4292	MLH1	L
641	BLM	4599	MX1	L
641	BLM	5888	RAD51	L
641	BLM	5892	RAD51L3	L
641	BLM	6117	RPA1	L
641	BLM	7014	TERF2	L
641	BLM	7156	TOP3A	L
641	BLM	7157	TP53	L
641	BLM	7486	WRN	L
641	BLM	8243	SMC1L1	L
642	BLMH	6135	RPL11	L
642	BLMH	6159	RPL29	L
642	BLMH	7204	TRIO	S
642	BLMH	7329	UBE2I	L
642	BLMH	84078	KBTBD7	R
643	BLR1	10563	CXCL13	L
648	PCGF4	1876	E2F6	L
648	PCGF4	1912	PHC2	L
648	PCGF4	4297	MLL	L
648	PCGF4	5764	PTN	S
648	PCGF4	6015	RING1	L
648	PCGF4	7704	ZBTB16	L
648	PCGF4	10524	HTATIP	S
648	PCGF4	10989	IMMT	S
648	PCGF4	55791	C1orf103	S
648	PCGF4	57562	KIAA1377	S
649	BMP1	3909	LAMA3	L
649	BMP1	3914	LAMB3	L
649	BMP1	3918	LAMC2	L
649	BMP1	56252	YLPM1	S
649	BMP1	57045	TWSG1	L
650	BMP2	657	BMPR1A	L
650	BMP2	658	BMPR1B	L
650	BMP2	659	BMPR2	L
650	BMP2	1280	COL2A1	L
650	BMP2	2022	ENG	L
650	BMP2	4256	MGP	L
650	BMP2	7040	TGFB1	L
650	BMP2	7042	TGFB2	L
650	BMP2	9241	NOG	L
651	BMP3	7040	TGFB1	L
652	BMP4	656	BMP8B	L
652	BMP4	657	BMPR1A	L
652	BMP4	658	BMPR1B	L
652	BMP4	659	BMPR2	L
652	BMP4	9241	NOG	L

652	BMP4	9372	ZFYVE9	L
652	BMP4	55620	STAP2	L
653	BMP5	657	BMPR1A	L
653	BMP5	9241	NOG	L
653	BMP5	10468	FST	L
654	BMP6	657	BMPR1A	L
654	BMP6	658	BMPR1B	L
654	BMP6	659	BMPR2	L
654	BMP6	4090	SMAD5	L
654	BMP6	8202	NCOA3	L
655	BMP7	657	BMPR1A	L
655	BMP7	658	BMPR1B	L
655	BMP7	659	BMPR2	L
655	BMP7	2022	ENG	L
655	BMP7	8202	NCOA3	L
655	BMP7	9241	NOG	L
657	BMPR1A	658	BMPR1B	L
657	BMPR1A	659	BMPR2	L
657	BMPR1A	2661	GDF9	L
657	BMPR1A	3224	HOXC8	L
657	BMPR1A	4086	SMAD1	L
657	BMPR1A	8200	GDF5	L
657	BMPR1A	9392	TGFBRAP1	L
657	BMPR1A	10454	MAP3K7IP1	L
658	BMPR1B	659	BMPR2	L
658	BMPR1B	2661	GDF9	L
658	BMPR1B	8200	GDF5	L
659	BMPR2	2661	GDF9	L
659	BMPR2	3984	LIMK1	L
659	BMPR2	8200	GDF5	L
659	BMPR2	392255	GDF6	L
660	BMX	836	CASP3	L
660	BMX	857	CAV1	L
660	BMX	5058	PAK1	L
660	BMX	5747	PTK2	L
660	BMX	6714	SRC	L
660	BMX	6772	STAT1	L
660	BMX	6774	STAT3	L
660	BMX	6776	STAT5A	L
660	BMX	11099	PTPN21	L
660	BMX	80230	RUFY1	L
662	BNIP1	4686	NCBP1	L
663	BNIP2	998	CDC42	L
663	BNIP2	2260	FGFR1	L
663	BNIP2	10488	CREB3	R
664	BNIP3	665	BNIP3L	R
664	BNIP3	961	CD47	L
664	BNIP3	4686	NCBP1	L
664	BNIP3	8834	TMEM11	R
665	BNIP3L	2130	EWSR1	R
665	BNIP3L	8834	TMEM11	R
665	BNIP3L	55240	STEAP3	L
665	BNIP3L	55816	DOK5	R
665	BNIP3L	60561	RINT-1	S
666	BOK	4170	MCL1	L
667	DST	1308	COL17A1	L
667	DST	1639	DCTN1	L
667	DST	3691	ITGB4	L
667	DST	4093	SMAD9	L
667	DST	25865	PRKD2	L
667	DST	55914	ERBB2IP	L
669	BPGM	2597	GAPDH	L
672	BRCA1	675	BRCA2	L
672	BRCA1	890	CCNA2	L
672	BRCA1	891	CCNB1	L
672	BRCA1	983	CDC2	L
672	BRCA1	1017	CDK2	L

672	BRCA1	1019	CDK4	L
672	BRCA1	1040	CDS1	L
672	BRCA1	1387	CREBBP	L
672	BRCA1	1457	CSNK2A1	L
672	BRCA1	1460	CSNK2B	L
672	BRCA1	1487	CTBP1	L
672	BRCA1	1488	CTBP2	L
672	BRCA1	1660	DHX9	L
672	BRCA1	1869	E2F1	L
672	BRCA1	1874	E2F4	L
672	BRCA1	2002	ELK1	L
672	BRCA1	2033	EP300	L
672	BRCA1	2099	ESR1	L
672	BRCA1	2175	FANCA	L
672	BRCA1	2177	FANCD2	L
672	BRCA1	2316	FLNA	L
672	BRCA1	3065	HDAC1	L
672	BRCA1	3066	HDAC2	L
672	BRCA1	3716	JAK1	L
672	BRCA1	3717	JAK2	L
672	BRCA1	3725	JUN	L
672	BRCA1	3726	JUNB	L
672	BRCA1	3727	JUND	L
672	BRCA1	3836	KPNA1	L
672	BRCA1	4215	MAP3K3	L
672	BRCA1	4436	MSH2	L
672	BRCA1	4609	MYC	L
672	BRCA1	4790	NFKB1	L
672	BRCA1	4800	NFYA	L
672	BRCA1	5430	POLR2A	L
672	BRCA1	5440	POLR2K	L
672	BRCA1	5469	PPARBP	L
672	BRCA1	5888	RAD51	L
672	BRCA1	5925	RB1	L
672	BRCA1	5928	RBBP4	L
672	BRCA1	5931	RBBP7	L
672	BRCA1	5932	RBBP8	L
672	BRCA1	5970	RELA	L
672	BRCA1	5981	RFC1	L
672	BRCA1	6597	SMARCA4	L
672	BRCA1	6667	SP1	L
672	BRCA1	6772	STAT1	L
672	BRCA1	6774	STAT3	L
672	BRCA1	6776	STAT5A	L
672	BRCA1	7157	TP53	L
672	BRCA1	7283	TUBG1	L
672	BRCA1	7323	UBE2D3	L
672	BRCA1	7332	UBE2L3	L
672	BRCA1	7392	USF2	L
672	BRCA1	7415	VCP	L
672	BRCA1	7515	XRCC1	L
672	BRCA1	8243	SMC1L1	L
672	BRCA1	8314	BAP1	L
672	BRCA1	8315	BRAP	L
672	BRCA1	8543	LMO4	L
672	BRCA1	8900	CCNA1	L
672	BRCA1	9111	NMI	L
672	BRCA1	10111	RAD50	L
672	BRCA1	11200	CHEK2	L
672	BRCA1	25920	COBRA1	L
672	BRCA1	59348	ZNF350	L
672	BRCA1	63967	CLSPN	L
672	BRCA1	83990	BRIP1	L
672	BRCA1	84168	ANTXR1	L
673	BRAF	3265	HRAS	L
673	BRAF	5604	MAP2K1	L
673	BRAF	5605	MAP2K2	L

673	BRAF	5894	RAF1	L
673	BRAF	7529	YWHAB	L
673	BRAF	7533	YWHAH	L
673	BRAF	7534	YWHAZ	L
673	BRAF	10971	YWHAQ	L
673	BRAF	22808	MRAS	L
675	BRCA2	701	BUB1B	L
675	BRCA2	2177	FANCD2	L
675	BRCA2	2189	FANCG	L
675	BRCA2	2316	FLNA	L
675	BRCA2	4088	SMAD3	L
675	BRCA2	5888	RAD51	L
675	BRCA2	6776	STAT5A	L
675	BRCA2	7157	TP53	L
675	BRCA2	7979	SHFM1	L
675	BRCA2	8850	PCAF	L
675	BRCA2	10362	HMG20B	L
675	BRCA2	56946	C11orf30	L
677	ZFP36L1	1432	MAPK14	R
677	ZFP36L1	5049	PAFAH1B2	S
682	BSG	4312	MMP1	L
682	BSG	6566	SLC16A1	L
682	BSG	9123	SLC16A3	L
682	BSG	9260	PDLIM7	R
683	BST1	857	CAV1	L
685	BTC	1956	EGFR	L
685	BTC	2064	ERBB2	L
685	BTC	2066	ERBB4	L
685	BTC	4318	MMP9	L
687	KLF9	5241	PGR	L
688	KLF5	1387	CREBBP	L
688	KLF5	2961	GTF2E2	L
688	KLF5	2963	GTF2F2	L
688	KLF5	4790	NFKB1	L
689	BTF3	1460	CSNK2B	L
694	BTG1	9337	CNOT8	R
695	BTK	857	CAV1	L
695	BTK	867	CBL	L
695	BTK	1820	ARID3A	L
695	BTK	2130	EWSR1	L
695	BTK	2768	GNA12	L
695	BTK	2776	GNAQ	L
695	BTK	2969	GTF2I	L
695	BTK	3055	HCK	L
695	BTK	3716	JAK1	L
695	BTK	4067	LYN	L
695	BTK	5587	PRKD1	L
695	BTK	7409	VAV1	L
695	BTK	7454	WAS	L
695	BTK	10163	WASF2	L
695	BTK	10657	KHDRBS1	L
695	BTK	25998	IBTK	L
695	BTK	29760	BLNK	L
696	BTN1A1	7498	XDH	L
699	BUB1	1398	CRK	R
699	BUB1	8546	AP3B1	L
699	BUB1	9184	BUB3	L
699	BUB1	10425	ARIH2	R
699	BUB1	10717	AP4B1	L
701	BUB1B	996	CDC27	L
701	BUB1B	1062	CENPE	L
701	BUB1B	4216	MAP3K4	L
701	BUB1B	6623	SNCG	L
701	BUB1B	7094	TLN1	L
701	BUB1B	8546	AP3B1	L
701	BUB1B	8881	CDC16	L
701	BUB1B	9184	BUB3	L

701	BUB1B	10717	AP4B1	L
705	BYSL	3856	KRT8	L
705	BYSL	4591	TRIM37	R
705	BYSL	7216	TRO	L
705	BYSL	10024	TROAP	L
708	C1QBP	2549	GAB1	L
708	C1QBP	3184	HNRPD	L
708	C1QBP	4323	MMP14	L
708	C1QBP	5578	PRKCA	L
708	C1QBP	5580	PRKCD	L
708	C1QBP	5587	PRKD1	L
708	C1QBP	5590	PRKCZ	L
708	C1QBP	5594	MAPK1	L
708	C1QBP	5595	MAPK3	L
708	C1QBP	6426	SFRS1	L
708	C1QBP	7916	BAT2	L
708	C1QBP	8739	HRK	L
708	C1QBP	118460	EXOSC6	L
710	SERPING1	715	C1R	L
710	SERPING1	716	C1S	L
710	SERPING1	1991	ELA2	L
710	SERPING1	2147	F2	L
710	SERPING1	5327	PLAT	L
710	SERPING1	5340	PLG	L
710	SERPING1	5648	MASP1	L
710	SERPING1	6401	SELE	L
710	SERPING1	6403	SELP	L
710	SERPING1	10747	MASP2	L
712	C1QA	713	C1QB	L
712	C1QA	714	C1QG	L
712	C1QA	715	C1R	L
712	C1QA	716	C1S	L
712	C1QA	1280	COL2A1	L
712	C1QA	1378	CR1	L
712	C1QA	1634	DCN	L
712	C1QA	2335	FN1	L
712	C1QA	3273	HRG	L
712	C1QA	5806	PTX3	L
712	C1QA	10114	HIPK3	L
712	C1QA	22918	C1QR1	L
713	C1QB	714	C1QG	L
713	C1QB	715	C1R	L
713	C1QB	1667	DEFA1	L
713	C1QB	3273	HRG	L
713	C1QB	5806	PTX3	L
714	C1QG	5806	PTX3	L
715	C1R	716	C1S	L
717	C2	718	C3	L
717	C2	721	C4B	L
717	C2	727	C5	L
717	C2	5648	MASP1	L
717	C2	5685	PSMA4	L
718	C3	719	C3AR1	L
718	C3	727	C5	L
718	C3	1369	CPN1	L
718	C3	1378	CR1	L
718	C3	1380	CR2	L
718	C3	2638	GC	L
718	C3	3075	CFH	L
718	C3	3426	IF	L
718	C3	3684	ITGAM	L
718	C3	3687	ITGAX	L
718	C3	4035	LRP1	L
718	C3	4179	MCP	L
718	C3	5069	PAPPA	L
718	C3	5199	PFC	L
718	C3	5648	MASP1	L

718	C3	10562	OLFM4	L
718	C3	10877	CFHL4	L
718	C3	10878	CFHL3	L
718	C3	81494	CFHL5	L
719	C3AR1	720	C4A	L
720	C4A	1378	CR1	L
720	C4A	1471	CST3	L
721	C4B	722	C4BPA	L
721	C4B	1378	CR1	L
721	C4B	1915	EEF1A1	L
721	C4B	4179	MCP	L
722	C4BPA	4035	LRP1	L
722	C4BPA	5627	PROS1	L
727	C5	728	C5R1	L
727	C5	729	C6	L
727	C5	730	C7	L
727	C5	732	C8B	L
728	C5R1	2771	GNAI2	L
728	C5R1	6223	RPS19	L
729	C6	2147	F2	L
730	C7	1191	CLU	L
730	C7	5340	PLG	L
731	C8A	732	C8B	L
731	C8A	735	C9	L
731	C8A	966	CD59	L
732	C8B	1191	CLU	L
735	C9	966	CD59	L
735	C9	1191	CLU	L
752	FMNL1	2547	XRCC6	S
752	FMNL1	5216	PFN1	L
752	FMNL1	5879	RAC1	L
752	FMNL1	7094	TLN1	L
752	FMNL1	55660	FNBP3	L
754	PTTG1IP	9232	PTTG1	L
760	CA2	3329	HSPD1	L
760	CA2	6508	SLC4A3	L
760	CA2	6521	SLC4A1	L
760	CA2	6548	SLC9A1	L
760	CA2	8655	DNCL1	L
760	CA2	8671	SLC4A4	L
760	CA2	9498	SLC4A8	L
760	CA2	55139	FLJ10415	S
760	CA2	57540	PTCHD2	S
762	CA4	6508	SLC4A3	L
762	CA4	6521	SLC4A1	L
765	CA6	2217	FCGRT	L
767	CA8	3708	ITPR1	L
767	CA8	4034	LRCH4	S
768	CA9	999	CDH1	L
768	CA9	1499	CTNNB1	L
771	CA12	1523	CUTL1	S
771	CA12	3963	LGALS7	S
771	CA12	9905	RUTBC1	S
771	CA12	65005	MRPL9	S
771	CA12	79768	C15orf29	S
771	CA12	114034	TOE1	S
773	CACNA1A	785	CACNB4	L
773	CACNA1A	6857	SYT1	L
774	CACNA1B	8573	CASK	L
774	CACNA1B	10611	PDLIM5	L
775	CACNA1C	5092	PCBD1	L
775	CACNA1C	6262	RYR2	L
775	CACNA1C	6717	SRI	L
776	CACNA1D	2263	FGFR2	L
776	CACNA1D	6804	STX1A	L
777	CACNA1E	114327	EFHC1	L
779	CACNA1S	6261	RYR1	L

779	CACNA1S	6717	SRI	L
779	CACNA1S	9699	RIMS2	L
780	DDR1	1280	COL2A1	L
780	DDR1	1281	COL3A1	L
780	DDR1	1290	COL5A2	L
780	DDR1	1301	COL11A1	L
780	DDR1	4071	TM4SF1	S
780	DDR1	5335	PLCG1	L
780	DDR1	5997	RGS2	S
780	DDR1	6464	SHC1	L
780	DDR1	7276	TTR	S
780	DDR1	9410	WDR57	S
780	DDR1	10818	FRS2	L
780	DDR1	23557	SNAPAP	S
780	DDR1	67621	(null)	S
780	DDR1	150421	(null)	S
785	CACNB4	5764	PTN	S
785	CACNB4	10607	TBL3	S
785	CACNB4	51003	MED31	S
788	SLC25A20	90861	C16orf34	S
793	CALB1	3612	IMPA1	L
793	CALB1	10048	RANBP9	L
794	CALB2	3848	KRT1	L
794	CALB2	7277	TUBA1	L
796	CALCA	799	CALCR	L
796	CALCA	10267	RAMP1	L
799	CALCR	4153	MBL2	L
799	CALCR	10267	RAMP1	L
799	CALCR	10268	RAMP3	L
800	CALD1	801	CALM1	L
800	CALD1	805	CALM2	L
800	CALD1	808	CALM3	L
800	CALD1	2885	GRB2	L
800	CALD1	6464	SHC1	L
801	CALM1	818	CAMK2G	L
801	CALM1	1130	LYST	L
801	CALM1	1264	CNN1	L
801	CALM1	1956	EGFR	L
801	CALM1	2099	ESR1	L
801	CALM1	2100	ESR2	L
801	CALM1	2596	GAP43	L
801	CALM1	2868	GRK4	L
801	CALM1	2915	GRM5	L
801	CALM1	2917	GRM7	L
801	CALM1	3320	HSPCA	L
801	CALM1	3781	KCNN2	L
801	CALM1	3785	KCNQ2	L
801	CALM1	3786	KCNQ3	L
801	CALM1	4137	MAPT	L
801	CALM1	4617	MYF5	L
801	CALM1	4618	MYF6	L
801	CALM1	4638	MYLK	L
801	CALM1	4650	MYO9B	L
801	CALM1	4654	MYOD1	L
801	CALM1	4656	MYOG	L
801	CALM1	4760	NEUROD1	L
801	CALM1	4988	OPRM1	L
801	CALM1	5136	PDE1A	L
801	CALM1	5260	PHKG1	L
801	CALM1	5470	PPEF2	L
801	CALM1	5475	PPEF1	L
801	CALM1	5865	RAB3B	L
801	CALM1	5898	RALA	L
801	CALM1	5899	RALB	L
801	CALM1	6011	GRK1	L
801	CALM1	6261	RYR1	L
801	CALM1	6622	SNCA	L

801	CALM1	6640	SNTA1	L
801	CALM1	6925	TCF4	L
801	CALM1	6929	TCF3	L
801	CALM1	7273	TTN	L
801	CALM1	7442	TRPV1	L
801	CALM1	7531	YWHAE	L
801	CALM1	8721	EDF1	L
801	CALM1	10788	IQGAP2	L
805	CALM2	2099	ESR1	L
805	CALM2	2100	ESR2	L
805	CALM2	2596	GAP43	L
805	CALM2	2915	GRM5	L
805	CALM2	2917	GRM7	L
805	CALM2	3785	KCNQ2	L
805	CALM2	3786	KCNQ3	L
805	CALM2	4082	MARCKS	L
805	CALM2	4617	MYF5	L
805	CALM2	4618	MYF6	L
805	CALM2	4646	MYO6	S
805	CALM2	4654	MYOD1	L
805	CALM2	4656	MYOG	L
805	CALM2	4760	NEUROD1	L
805	CALM2	5116	PCNT2	L
805	CALM2	5470	PPEF2	L
805	CALM2	5475	PPEF1	L
805	CALM2	5865	RAB3B	L
805	CALM2	5898	RALA	L
805	CALM2	5899	RALB	L
805	CALM2	6925	TCF4	L
805	CALM2	8721	EDF1	L
805	CALM2	55052	MRPL20	S
805	CALM2	80726	KIAA1683	R
808	CALM3	2099	ESR1	L
808	CALM3	2100	ESR2	L
808	CALM3	2915	GRM5	L
808	CALM3	2917	GRM7	L
808	CALM3	3785	KCNQ2	L
808	CALM3	3786	KCNQ3	L
808	CALM3	4617	MYF5	L
808	CALM3	4618	MYF6	L
808	CALM3	4654	MYOD1	L
808	CALM3	4656	MYOG	L
808	CALM3	4760	NEUROD1	L
808	CALM3	5470	PPEF2	L
808	CALM3	5475	PPEF1	L
808	CALM3	5540	PPYR1	L
808	CALM3	5865	RAB3B	L
808	CALM3	5898	RALA	L
808	CALM3	5899	RALB	L
808	CALM3	6925	TCF4	L
808	CALM3	6929	TCF3	L
808	CALM3	8721	EDF1	L
810	CALML3	4651	MYO10	L
810	CALML3	80726	KIAA1683	R
811	CALR	912	CD1D	L
811	CALR	2153	F5	L
811	CALR	2157	F8	L
811	CALR	2200	FBN1	L
811	CALR	2244	FGB	L
811	CALR	2908	NR3C1	L
811	CALR	2923	PDIA3	L
811	CALR	3107	HLA-C	L
811	CALR	3674	ITGA2B	L
811	CALR	3675	ITGA3	L
811	CALR	4035	LRP1	L
811	CALR	4153	MBL2	L
811	CALR	5327	PLAT	L

811	CALR	5551	PRF1	L
811	CALR	6513	SLC2A1	L
811	CALR	6532	SLC6A4	L
811	CALR	7018	TF	L
811	CALR	7057	THBS1	L
811	CALR	7080	TITF1	L
811	CALR	7253	TSHR	L
811	CALR	7450	VWF	L
811	CALR	8578	SCARF1	L
811	CALR	64714	PDIA2	L
814	CAMK4	5970	RELA	L
814	CAMK4	10645	CAMKK2	L
815	CAMK2A	2904	GRIN2B	L
815	CAMK2A	3706	ITPKA	L
815	CAMK2A	8851	CDK5R1	L
815	CAMK2A	23604	DAPK2	L
815	CAMK2A	57554	LRRC7	L
817	CAMK2D	6222	RPS18	L
818	CAMK2G	4088	SMAD3	L
818	CAMK2G	4089	SMAD4	L
818	CAMK2G	6236	RRAD	L
818	CAMK2G	6772	STAT1	L
818	CAMK2G	7074	TIAM1	L
818	CAMK2G	51475	CABP2	L
819	CAMLG	1956	EGFR	L
819	CAMLG	5479	PPIB	L
819	CAMLG	23495	TNFRSF13B	L
820	CAMP	1511	CTSG	L
820	CAMP	2358	FPRL1	L
820	CAMP	3929	LBP	L
820	CAMP	5657	PRTN3	L
821	CANX	912	CD1D	L
821	CANX	915	CD3D	L
821	CANX	1080	CFTR	L
821	CANX	1244	ABCC2	L
821	CANX	2157	F8	L
821	CANX	2890	GRIA1	L
821	CANX	3359	HTR3A	L
821	CANX	3655	ITGA6	L
821	CANX	3688	ITGB1	L
821	CANX	3732	CD82	L
821	CANX	3938	LCT	L
821	CANX	4018	LPA	L
821	CANX	4035	LRP1	L
821	CANX	5376	PMP22	L
821	CANX	5589	PRKCSH	L
821	CANX	6513	SLC2A1	L
821	CANX	6521	SLC4A1	L
821	CANX	6955	TRA@	L
821	CANX	7018	TF	L
821	CANX	7038	TG	L
821	CANX	7253	TSHR	L
821	CANX	8720	MBTPS1	L
821	CANX	9695	EDEM1	L
821	CANX	10134	BCAP31	L
821	CANX	11170	TU3A	S
821	CANX	64750	SMURF2	L
822	CAPG	23397	BRRN1	L
823	CAPN1	826	CAPNS1	L
823	CAPN1	831	CAST	L
823	CAPN1	3631	INPP4A	L
823	CAPN1	3827	KNG1	L
823	CAPN1	4792	NFKBIA	L
823	CAPN1	5664	PSEN2	L
824	CAPN2	826	CAPNS1	L
824	CAPN2	2620	GAS2	L
824	CAPN2	3827	KNG1	L

824	CAPN2	7145	TNS1	L
825	CAPN3	2318	FLNC	L
825	CAPN3	6709	SPTAN1	L
825	CAPN3	7273	TTN	L
825	CAPN3	54550	EFCBP2	R
826	CAPNS1	831	CAST	L
826	CAPNS1	1019	CDK4	S
826	CAPNS1	2783	GNB2	S
826	CAPNS1	3561	IL2RG	L
826	CAPNS1	4733	DRG1	S
826	CAPNS1	5861	RAB1A	S
826	CAPNS1	7013	TERF1	S
826	CAPNS1	9551	ATP5J2	S
826	CAPNS1	51608	C7orf20	S
826	CAPNS1	85444	LRRCC1	S
829	CAPZA1	6271	S100A1	L
829	CAPZA1	6285	S100B	L
829	CAPZA1	23607	CD2AP	L
829	CAPZA1	30011	SH3KBP1	L
830	CAPZA2	5829	PXN	L
832	CAPZB	5764	PTN	S
832	CAPZB	55052	MRPL20	S
832	CAPZB	56647	BCCIP	S
833	CARS	1937	EEF1G	L
834	CASP1	1956	EGFR	L
834	CASP1	3064	HD	L
834	CASP1	4287	ATXN3	L
834	CASP1	4780	NFE2L2	L
834	CASP1	5663	PSEN1	L
834	CASP1	8767	RIPK2	L
834	CASP1	10134	BCAP31	L
834	CASP1	10392	CARD4	L
834	CASP1	23581	CASP14	L
834	CASP1	29108	PYCARD	L
834	CASP1	58484	CARD12	L
835	CASP2	840	CASP7	L
835	CASP2	843	CASP10	L
835	CASP2	896	CCND3	L
835	CASP2	1639	DCTN1	L
835	CASP2	2802	GOLGA3	L
835	CASP2	3064	HD	L
835	CASP2	8738	CRADD	L
835	CASP2	8996	NOL3	L
835	CASP2	10392	CARD4	L
835	CASP2	22861	NALP1	L
835	CASP2	23581	CASP14	L
835	CASP2	51237	PACAP	L
835	CASP2	55367	LRDD	L
836	CASP3	1499	CTNNB1	L
836	CASP3	1630	DCC	L
836	CASP3	1639	DCTN1	L
836	CASP3	1676	DFFA	L
836	CASP3	1975	EIF4B	L
836	CASP3	3059	HCLS1	L
836	CASP3	3064	HD	L
836	CASP3	3329	HSPD1	L
836	CASP3	3336	HSPE1	L
836	CASP3	3856	KRT8	L
836	CASP3	3875	KRT18	L
836	CASP3	4001	LMNB1	L
836	CASP3	4287	ATXN3	L
836	CASP3	4719	NDUFS1	L
836	CASP3	4756	NEO1	L
836	CASP3	4780	NFE2L2	L
836	CASP3	5530	PPP3CA	L
836	CASP3	5663	PSEN1	L
836	CASP3	6721	SREBF2	L

836	CASP3	6731	SRP72	L
836	CASP3	7052	TGM2	L
836	CASP3	7185	TRAF1	L
836	CASP3	7187	TRAF3	L
836	CASP3	7531	YWHAE	L
836	CASP3	8301	PICALM	L
836	CASP3	8505	PARG	L
836	CASP3	8615	VDP	L
836	CASP3	8837	CFLAR	L
836	CASP3	9191	DEDD	L
836	CASP3	9748	SLK	L
836	CASP3	30818	CSEN	L
836	CASP3	64689	GORASP1	L
836	CASP3	79444	BIRC7	L
837	CASP4	843	CASP10	L
837	CASP4	5272	SERPINB9	L
837	CASP4	5663	PSEN1	L
837	CASP4	10392	CARD4	L
837	CASP4	23581	CASP14	L
838	CASP5	51535	PPHLN1	L
839	CASP6	841	CASP8	L
839	CASP6	843	CASP10	L
839	CASP6	1107	CHD3	S
839	CASP6	3064	HD	L
839	CASP6	3329	HSPD1	L
839	CASP6	4001	LMNB1	L
840	CASP7	843	CASP10	L
840	CASP7	1639	DCTN1	L
840	CASP7	3064	HD	L
840	CASP7	3309	HSPA5	L
840	CASP7	5663	PSEN1	L
840	CASP7	7132	TNFRSF1A	L
840	CASP7	9616	RNF7	L
840	CASP7	64689	GORASP1	L
840	CASP7	79444	BIRC7	L
841	CASP8	843	CASP10	L
841	CASP8	999	CDH1	L
841	CASP8	1107	CHD3	S
841	CASP8	1147	CHUK	L
841	CASP8	1499	CTNNB1	L
841	CASP8	3064	HD	L
841	CASP8	3092	HIP1	L
841	CASP8	3551	IKBKB	L
841	CASP8	7024	TFCP2	S
841	CASP8	7431	VIM	S
841	CASP8	8301	PICALM	L
841	CASP8	8682	PEA15	L
841	CASP8	8717	TRADD	L
841	CASP8	8737	RIPK1	L
841	CASP8	8738	CRADD	L
841	CASP8	8767	RIPK2	L
841	CASP8	8772	FADD	L
841	CASP8	8795	TNFRSF10B	L
841	CASP8	8797	TNFRSF10A	L
841	CASP8	8837	CFLAR	L
841	CASP8	8996	NOL3	L
841	CASP8	9020	MAP3K14	L
841	CASP8	9191	DEDD	L
841	CASP8	9448	MAP4K4	L
841	CASP8	9971	NR1H4	L
841	CASP8	9994	CASP8AP2	L
841	CASP8	10134	BCAP31	L
841	CASP8	10392	CARD4	L
841	CASP8	23581	CASP14	L
841	CASP8	55081	ESRRBL1	L
841	CASP8	162989	DEDD2	L
842	CASP9	843	CASP10	L

842	CASP9	1630	DCC	L
842	CASP9	3002	GZMB	L
842	CASP9	4671	BIRC1	L
842	CASP9	5594	MAPK1	L
842	CASP9	5595	MAPK3	L
842	CASP9	10392	CARD4	L
842	CASP9	22861	NALP1	L
842	CASP9	54205	CYCS	L
842	CASP9	57448	BIRC6	L
842	CASP9	79444	BIRC7	L
843	CASP10	7132	TNFRSF1A	L
843	CASP10	8772	FADD	L
843	CASP10	8837	CFLAR	L
843	CASP10	9191	DEDD	L
843	CASP10	23429	RYBP	L
843	CASP10	23581	CASP14	L
843	CASP10	162989	DEDD2	L
845	CASQ2	10345	TRDN	L
846	CASR	2316	FLNA	L
857	CAV1	858	CAV2	L
857	CAV1	1445	CSK	L
857	CAV1	1901	EDG1	L
857	CAV1	1910	EDNRB	L
857	CAV1	1956	EGFR	L
857	CAV1	2064	ERBB2	L
857	CAV1	2099	ESR1	L
857	CAV1	2316	FLNA	L
857	CAV1	2319	FLOT2	L
857	CAV1	2697	GJA1	L
857	CAV1	2700	GJA3	L
857	CAV1	2706	GJB2	L
857	CAV1	2869	GRK5	L
857	CAV1	3643	INSR	L
857	CAV1	4804	NGFR	L
857	CAV1	4843	NOS2A	L
857	CAV1	4846	NOS3	L
857	CAV1	4914	NTRK1	L
857	CAV1	5156	PDGFRA	L
857	CAV1	5338	PLD2	L
857	CAV1	5499	PPP1CA	L
857	CAV1	5621	PRNP	L
857	CAV1	5728	PTEN	L
857	CAV1	5743	PTGS2	L
857	CAV1	5770	PTPN1	L
857	CAV1	5777	PTPN6	L
857	CAV1	5781	PTPN11	L
857	CAV1	5792	PTPRF	L
857	CAV1	5957	RCV1	L
857	CAV1	6011	GRK1	L
857	CAV1	6342	SCP2	L
857	CAV1	7046	TGFBR1	L
857	CAV1	7133	TNFRSF1B	L
857	CAV1	7186	TRAF2	L
857	CAV1	8165	AKAP1	L
857	CAV1	8717	TRADD	L
857	CAV1	10825	NEU3	L
858	CAV2	2319	FLOT2	L
858	CAV2	2804	GOLGB1	S
858	CAV2	4690	NCK1	L
859	CAV3	1605	DAG1	L
859	CAV3	1956	EGFR	L
859	CAV3	2778	GNAS	L
859	CAV3	4842	NOS1	L
859	CAV3	5213	PFKM	L
859	CAV3	6546	SLC8A1	L
859	CAV3	8291	DYSF	L
860	RUNX2	1051	CEBPB	L

860	RUNX2	2113	ETS1	L
860	RUNX2	2353	FOS	L
860	RUNX2	3725	JUN	L
860	RUNX2	4087	SMAD2	L
860	RUNX2	4088	SMAD3	L
860	RUNX2	4488	MSX2	L
860	RUNX2	8841	HDAC3	L
860	RUNX2	10013	HDAC6	L
860	RUNX2	10413	YAP1	L
860	RUNX2	23522	MYST4	L
861	RUNX1	863	CBFA2T3	L
861	RUNX1	865	CBFB	L
861	RUNX1	1051	CEBPB	L
861	RUNX1	2000	ELF4	L
861	RUNX1	2353	FOS	L
861	RUNX1	3725	JUN	L
861	RUNX1	5079	PAX5	L
861	RUNX1	6839	SUV39H1	L
861	RUNX1	7088	TLE1	L
861	RUNX1	7089	TLE2	L
861	RUNX1	9139	CBFA2T2	L
861	RUNX1	23522	MYST4	L
861	RUNX1	25937	WWTR1	L
862	RUNX1T1	863	CBFA2T3	L
862	RUNX1T1	2672	GFI1	L
862	RUNX1T1	3065	HDAC1	L
862	RUNX1T1	3320	HSPCA	L
862	RUNX1T1	3836	KPNA1	L
862	RUNX1T1	3837	KPNB1	L
862	RUNX1T1	6925	TCF4	L
862	RUNX1T1	6929	TCF3	L
862	RUNX1T1	6938	TCF12	L
862	RUNX1T1	7704	ZBTB16	L
862	RUNX1T1	8841	HDAC3	L
862	RUNX1T1	9139	CBFA2T2	L
862	RUNX1T1	9611	NCOR1	L
862	RUNX1T1	9612	NCOR2	L
862	RUNX1T1	25942	SIN3A	L
862	RUNX1T1	51225	ABI3	R
862	RUNX1T1	51616	TAF9L	R
862	RUNX1T1	51729	WBP11	R
862	RUNX1T1	54550	EFCBP2	R
862	RUNX1T1	55869	HDAC8	L
862	RUNX1T1	79173	MGC11271	R
862	RUNX1T1	220766	KIAA0470L	R
863	CBFA2T3	3065	HDAC1	L
863	CBFA2T3	5576	PRKAR2A	L
863	CBFA2T3	8841	HDAC3	L
863	CBFA2T3	9139	CBFA2T2	L
864	RUNX3	865	CBFB	L
864	RUNX3	7088	TLE1	L
865	CBFB	1114	CHGB	S
865	CBFB	9139	CBFA2T2	L
867	CBL	921	CD5	L
867	CBL	930	CD19	L
867	CBL	1399	ORKL	L
867	CBL	1436	CSF1R	L
867	CBL	1445	CSK	L
867	CBL	2051	EPHB6	L
867	CBL	2185	PTK2B	L
867	CBL	2268	FGR	L
867	CBL	2534	FYN	L
867	CBL	2885	GRB2	L
867	CBL	3055	HCK	L
867	CBL	3636	INPPL1	L
867	CBL	3702	ITK	L
867	CBL	3875	KRT18	L

867	CBL	3932	LCK	L
867	CBL	3937	LCP2	L
867	CBL	4058	LTK	L
867	CBL	4067	LYN	L
867	CBL	4233	MET	L
867	CBL	4641	MYO1C	L
867	CBL	4643	MYO1E	L
867	CBL	5296	PIK3R2	L
867	CBL	5777	PTPN6	L
867	CBL	6456	SH3GL2	L
867	CBL	6457	SH3GL3	L
867	CBL	6464	SHC1	L
867	CBL	6503	SLA	L
867	CBL	6714	SRC	L
867	CBL	6850	SYK	L
867	CBL	7297	TYK2	L
867	CBL	7322	UBE2D2	L
867	CBL	7326	UBE2G1	L
867	CBL	7327	UBE2G2	L
867	CBL	7332	UBE2L3	L
867	CBL	7409	VAV1	L
867	CBL	7410	VAV2	L
867	CBL	7535	ZAP70	L
867	CBL	10211	FLOT1	L
867	CBL	10253	SPRY2	L
867	CBL	10580	SORBS1	L
867	CBL	10818	FRS2	L
867	CBL	10971	YWHAQ	L
867	CBL	23607	CD2AP	L
867	CBL	26191	PTPN22	L
867	CBL	26578	OSTF1	L
867	CBL	30011	SH3KBP1	L
867	CBL	84174	SLA2	L
868	CBLB	1399	CRKL	L
868	CBLB	1407	CRY1	R
868	CBLB	1956	EGFR	L
868	CBLB	2322	FLT3	L
868	CBLB	2885	GRB2	L
868	CBLB	4690	NCK1	L
868	CBLB	4734	NEDD4	L
868	CBLB	5336	PLCG2	L
868	CBLB	6464	SHC1	L
868	CBLB	6850	SYK	L
868	CBLB	7409	VAV1	L
868	CBLB	7535	ZAP70	L
868	CBLB	8440	NCK2	R
868	CBLB	10174	SORBS3	R
868	CBLB	26003	GORASP2	R
868	CBLB	26994	RNF11	L
868	CBLB	29760	BLNK	L
868	CBLB	30011	SH3KBP1	L
871	SERPINH1	928	CD9	L
871	SERPINH1	5829	PXN	L
871	SERPINH1	7343	UBTF	L
871	SERPINH1	7414	VCL	L
871	SERPINH1	51621	KLF13	L
871	SERPINH1	54978	C2orf18	S
873	CBR1	1161	ERCC8	S
874	CBR3	10425	ARIH2	S
874	CBR3	11021	RAB35	S
875	CBS	3064	HD	L
875	CBS	9513	FXR2	R
875	CBS	51534	C6orf55	R
875	CBS	283987	C17orf28	R
885	CCK	886	CCKAR	L
889	KRIT1	5906	RAP1A	L
889	KRIT1	9270	ITGB1BP1	L

890	CCNA2	983	CDC2	L
890	CCNA2	990	CDC6	L
890	CCNA2	991	CDC20	L
890	CCNA2	995	CDC25C	L
890	CCNA2	1017	CDK2	L
890	CCNA2	1018	CDK3	L
890	CCNA2	1027	CDKN1B	L
890	CCNA2	1869	E2F1	L
890	CCNA2	4605	MYBL2	L
890	CCNA2	5757	PTMA	L
890	CCNA2	5933	RBL1	L
890	CCNA2	5934	RBL2	L
890	CCNA2	6500	SKP1A	L
890	CCNA2	6502	SKP2	L
890	CCNA2	6872	TAF1	L
890	CCNA2	7157	TP53	L
890	CCNA2	7290	HIRA	L
890	CCNA2	7343	UBTF	L
890	CCNA2	23421	ITGB3BP	L
890	CCNA2	51191	HERC5	L
891	CCNB1	899	CCNF	L
891	CCNB1	993	CDC25A	L
891	CCNB1	995	CDC25C	L
891	CCNB1	4134	MAP4	L
891	CCNB1	4616	GADD45B	L
891	CCNB1	5111	PCNA	L
891	CCNB1	5300	PIN1	L
891	CCNB1	5757	PTMA	L
891	CCNB1	5891	RAGE	L
891	CCNB1	7048	TGFBR2	L
891	CCNB1	7088	TLE1	L
891	CCNB1	7248	TSC1	L
891	CCNB1	10912	GADD45G	L
891	CCNB1	10928	RALBP1	L
891	CCNB1	51191	HERC5	L
891	CCNB1	51343	FZR1	L
892	CCNC	5430	POLR2A	L
894	CCND2	1019	CDK4	L
894	CCND2	1020	CDK5	L
894	CCND2	1021	CDK6	L
894	CCND2	1026	CDKN1A	R
894	CCND2	1027	CDKN1B	R
894	CCND2	9988	DMTF1	L
894	CCND2	10270	AKAP8	L
896	CCND3	984	CDC2L1	L
896	CCND3	1019	CDK4	RL
896	CCND3	1021	CDK6	L
896	CCND3	1026	CDKN1A	RL
896	CCND3	1027	CDKN1B	RL
896	CCND3	1382	CRABP2	L
896	CCND3	5111	PCNA	L
896	CCND3	5914	RARA	L
896	CCND3	9988	DMTF1	L
896	CCND3	10270	AKAP8	L
896	CCND3	27335	EIF3S12	L
896	CCND3	30008	EFEMP2	R
896	CCND3	55388	MCM10	L
896	CCND3	84062	DTNBP1	R
896	CCND3	84232	MAF1	R
898	CCNE1	983	CDC2	L
898	CCNE1	993	CDC25A	L
898	CCNE1	1018	CDK3	L
898	CCNE1	5934	RBL2	L
898	CCNE1	5966	REL	L
898	CCNE1	6502	SKP2	L
898	CCNE1	6597	SMARCA4	L
898	CCNE1	6599	SMARCC1	L

898	CCNE1	8161	COIL	L
898	CCNE1	8452	CUL3	L
898	CCNE1	10575	CCT4	L
898	CCNE1	51191	HERC5	L
898	CCNE1	55294	FBXW7	L
900	CCNG1	1020	CDK5	L
900	CCNG1	1029	CDKN2A	L
900	CCNG1	2580	GAK	L
900	CCNG1	4193	MDM2	L
900	CCNG1	5524	PPP2R4	L
900	CCNG1	7157	TP53	L
901	CCNG2	5515	PPP2CA	L
901	CCNG2	5524	PPP2R4	L
902	CCNH	2071	ERCC3	L
902	CCNH	2961	GTF2E2	L
902	CCNH	4176	MCM7	L
902	CCNH	5682	PSMA1	R
902	CCNH	8880	FUBP1	L
902	CCNH	9112	MTA1	L
902	CCNH	10534	SSSCA1	R
902	CCNH	404672	GTF2H5	L
904	CCNT1	2896	GRN	L
904	CCNT1	4609	MYC	L
904	CCNT1	5371	PML	L
904	CCNT1	5813	PURA	L
904	CCNT1	6502	SKP2	L
904	CCNT1	10614	HEXIM1	L
904	CCNT1	27125	AFF4	L
904	CCNT1	27336	HTATSF1	L
905	CCNT2	5925	RB1	L
905	CCNT2	10614	HEXIM1	L
912	CD1D	972	CD74	L
912	CD1D	5788	PTPRC	L
914	CD2	919	CD3Z	L
914	CD2	920	CD4	L
914	CD2	921	CD5	L
914	CD2	962	CD48	L
914	CD2	963	CD53	L
914	CD2	965	CD58	L
914	CD2	966	CD59	L
914	CD2	2534	FYN	L
914	CD2	3932	LCK	L
914	CD2	3956	LGALS1	L
914	CD2	4084	MXD1	L
914	CD2	5788	PTPRC	L
914	CD2	6667	SP1	L
914	CD2	9051	PSTPIP1	L
914	CD2	10421	CD2BP2	L
914	CD2	23607	CD2AP	L
914	CD2	30011	SH3KBP1	L
915	CD3D	919	CD3Z	L
915	CD3D	925	CD8A	L
915	CD3D	926	CD8B1	L
916	CD3E	919	CD3Z	L
916	CD3E	974	CD79B	L
916	CD3E	3932	LCK	L
916	CD3E	5295	PIK3R1	L
916	CD3E	6464	SHC1	L
916	CD3E	6850	SYK	L
916	CD3E	7155	TOP2B	L
916	CD3E	7535	ZAP70	L
916	CD3E	8440	NCK2	L
916	CD3E	10849	CD3EAP	L
917	CD3G	6955	TRA@	L
917	CD3G	6964	TRD@	L
919	CD3Z	921	CD5	L
919	CD3Z	940	CD28	L

919	CD3Z	1445	CSK	L
919	CD3Z	1794	DOCK2	L
919	CD3Z	2534	FYN	L
919	CD3Z	3718	JAK3	L
919	CD3Z	4061	LY6E	L
919	CD3Z	5788	PTPRC	L
919	CD3Z	6464	SHC1	L
919	CD3Z	6503	SLA	L
919	CD3Z	6776	STAT5A	L
919	CD3Z	6777	STAT5B	L
919	CD3Z	6955	TRA@	L
919	CD3Z	7037	TFRC	L
919	CD3Z	7535	ZAP70	L
919	CD3Z	9094	UNC119	L
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919	CD3Z	10019	LNK	L
919	CD3Z	50852	TRAT1	L
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919	CD3Z	114609	TIRAP	L
919	CD3Z	259197	NCR3	L
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920	CD4	1803	DPP4	L
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920	CD4	3113	HLA-DPA1	L
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920	CD4	3119	HLA-DQB1	L
920	CD4	3559	IL2RA	L
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920	CD4	3932	LCK	L
920	CD4	3956	LGALS1	L
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920	CD4	5297	PIK4CA	L
920	CD4	5304	PIP	L
920	CD4	5747	PTK2	L
920	CD4	5788	PTPRC	L
920	CD4	6387	CXCL12	L
920	CD4	6402	SELL	L
920	CD4	6520	SLC3A2	L
920	CD4	7037	TFRC	L
920	CD4	8797	TNFRSF10A	L
920	CD4	8945	BTRC	L
920	CD4	9094	UNC119	L
920	CD4	27040	LAT	L
920	CD4	51324	SPG21	L
921	CD5	923	CD6	L
921	CD5	971	CD72	L
921	CD5	3932	LCK	L
921	CD5	5295	PIK3R1	L
921	CD5	5777	PTPN6	L
921	CD5	5921	RASA1	L
921	CD5	6990	TCTE1L	L
921	CD5	7535	ZAP70	L
924	CD7	3956	LGALS1	L
924	CD7	5295	PIK3R1	L
924	CD7	5297	PIK4CA	L
924	CD7	6398	SECTM1	L
925	CD8A	926	CD8B1	L
925	CD8A	3105	HLA-A	L
925	CD8A	3106	HLA-B	L

925	CD8A	3107	HLA-C	L
925	CD8A	3133	HLA-E	L
925	CD8A	3135	HLA-G	L
925	CD8A	3956	LGALS1	L
925	CD8A	5788	PTPRC	L
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928	CD9	930	CD19	L
928	CD9	948	CD36	L
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928	CD9	1839	HBEGF	L
928	CD9	2515	ADAM2	L
928	CD9	3678	ITGA5	L
928	CD9	3815	KIT	L
928	CD9	5578	PRKCA	L
928	CD9	5738	PTGFRN	L
928	CD9	7106	TSPAN4	L
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929	CD14	1604	DAF	L
929	CD14	3684	ITGAM	L
929	CD14	3689	ITGB2	L
929	CD14	3929	LBP	L
929	CD14	3959	LGALS3BP	L
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929	CD14	7097	TLR2	L
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930	CD19	973	CD79A	L
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930	CD19	2534	FYN	L
930	CD19	3732	CD82	L
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930	CD19	6850	SYK	L
930	CD19	7409	VAV1	L
930	CD19	7410	VAV2	L
931	MS4A1	958	CD40	L
931	MS4A1	2534	FYN	L
932	MS4A3	1017	CDK2	L
932	MS4A3	1033	CDKN3	L
933	CD22	1173	AP2M1	L
933	CD22	2885	GRB2	L
933	CD22	3240	HP	L
933	CD22	4067	LYN	L
933	CD22	5295	PIK3R1	L
933	CD22	5335	PLCG1	L
933	CD22	5777	PTPN6	L
933	CD22	5788	PTPRC	L
933	CD22	6464	SHC1	L
933	CD22	6850	SYK	L
934	CD24	2268	FGR	L
934	CD24	4067	LYN	L
934	CD24	6403	SELP	L
939	TNFRSF7	7186	TRAF2	L
939	TNFRSF7	7187	TRAF3	L
939	TNFRSF7	7188	TRAF5	L
940	CD28	941	CD80	L
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940	CD28	2885	GRB2	L
940	CD28	3592	IL12A	L
940	CD28	3702	ITK	L
940	CD28	3932	LCK	L
940	CD28	4905	NSF	L

940	CD28	5295	PIK3R1	L
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940	CD28	5335	PLCG1	L
940	CD28	5788	PTPRC	L
940	CD28	9402	GRAP2	L
940	CD28	10233	B7	L
940	CD28	11072	DUSP14	L
941	CD80	1493	CTLA4	L
942	CD86	1493	CTLA4	L
943	TNFRSF8	944	TNFSF8	L
943	TNFRSF8	7185	TRAF1	L
943	TNFRSF8	7186	TRAF2	L
943	TNFRSF8	7187	TRAF3	L
943	TNFRSF8	7188	TRAF5	L
943	TNFRSF8	10293	TRIP	L
943	TNFRSF8	51567	TTRAP	L
945	CD33	5777	PTPN6	L
945	CD33	5781	PTPN11	L
947	CD34	1399	CRKL	L
948	CD36	1277	COL1A1	L
948	CD36	1278	COL1A2	L
948	CD36	2534	FYN	L
948	CD36	3655	ITGA6	L
948	CD36	3674	ITGA2B	L
948	CD36	3688	ITGB1	L
948	CD36	3690	ITGB3	L
948	CD36	4067	LYN	L
948	CD36	4145	MATK	L
948	CD36	6714	SRC	L
948	CD36	7057	THBS1	L
948	CD36	7525	YES1	L
949	SCARB1	5174	PDZK1	L
950	SCARB2	1176	AP3S1	L
950	SCARB2	7057	THBS1	L
952	CD38	2214	FCGR3A	L
952	CD38	3932	LCK	L
952	CD38	5175	PECAM1	L
958	CD40	959	CD40LG	L
958	CD40	2547	XRCC6	L
958	CD40	7185	TRAF1	L
958	CD40	7186	TRAF2	L
958	CD40	7187	TRAF3	L
958	CD40	7188	TRAF5	L
958	CD40	7189	TRAF6	L
958	CD40	7520	XRCC5	L
958	CD40	8439	NSMAF	L
958	CD40	8767	RIPK2	L
958	CD40	10758	TRAF3IP2	L
958	CD40	51567	TTRAP	L
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960	CD44	972	CD74	L
960	CD44	1277	COL1A1	L
960	CD44	1278	COL1A2	L
960	CD44	1445	CSK	L
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960	CD44	1758	DMP1	L
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960	CD44	2247	FGF2	L
960	CD44	2534	FYN	L
960	CD44	3486	IGFBP3	L
960	CD44	3932	LCK	L
960	CD44	4316	MMP7	L
960	CD44	4318	MMP9	L
960	CD44	4771	NF2	L
960	CD44	5552	PRG1	L

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960	CD44	6696	SPP1	L
960	CD44	7046	TGFBR1	L
960	CD44	7048	TGFBR2	L
960	CD44	7074	TIAM1	L
960	CD44	7373	COL14A1	L
960	CD44	7410	VAV2	L
960	CD44	7430	VIL2	L
960	CD44	8174	MADCAM1	L
960	CD44	9138	ARHGEF1	L
961	CD47	2038	EPB42	L
961	CD47	2770	GNAI1	L
961	CD47	5029	P2RY2	L
961	CD47	5747	PTK2	L
961	CD47	6005	RHAG	L
961	CD47	7057	THBS1	L
961	CD47	140885	PTPNS1	L
962	CD48	1936	EEF1D	S
962	CD48	2534	FYN	L
962	CD48	2773	GNAI3	L
962	CD48	3932	LCK	L
962	CD48	55299	BXDC2	S
963	CD53	2678	GGT1	L
963	CD53	3558	IL2	L
963	CD53	3565	IL4	L
965	CD58	3301	DNAJA1	S
965	CD58	9709	HERPUD1	S
966	CD59	2773	GNAI3	L
966	CD59	4089	SMAD4	L
966	CD59	6535	SLC6A8	L
966	CD59	6714	SRC	L
966	CD59	9437	NCR1	L
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967	CD63	3109	HLA-DMB	L
967	CD63	3122	HLA-DRA	L
967	CD63	3655	ITGA6	L
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967	CD63	9179	AP4M1	L
971	CD72	2885	GRB2	L
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971	CD72	10507	SEMA4D	L
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972	CD74	3108	HLA-DMA	L
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972	CD74	4282	MIF	L
973	CD79A	974	CD79B	L
973	CD79A	2204	FCAR	L
973	CD79A	3059	HCLS1	L
973	CD79A	3507	IGHM	L
973	CD79A	3512	IGJ	L
973	CD79A	5284	PIGR	L
973	CD79A	5788	PTPRC	L
973	CD79A	6850	SYK	L
973	CD79A	29760	BLNK	L
975	CD81	3676	ITGA4	L
975	CD81	3815	KIT	L
975	CD81	7704	ZBTB16	S
975	CD81	9231	DLG5	S
975	CD81	83444	ZNHIT4	S
975	CD81	93185	IGSF8	L
976	CD97	1604	DAF	L
977	CD151	5738	PTGFRN	L
983	CDC2	995	CDC25C	L
983	CDC2	1033	CDKN3	L
983	CDC2	1163	CKS1B	L

983	CDC2	1164	CKS2	L
983	CDC2	1601	DAB2	L
983	CDC2	1647	GADD45A	L
983	CDC2	1785	DNM2	L
983	CDC2	1936	EEF1D	L
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983	CDC2	2534	FYN	L
983	CDC2	2810	SFN	L
983	CDC2	4001	LMNB1	L
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983	CDC2	4616	GADD45B	L
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983	CDC2	5757	PTMA	L
983	CDC2	7088	TLE1	L
983	CDC2	7157	TP53	L
983	CDC2	7248	TSC1	L
983	CDC2	7704	ZBTB16	L
983	CDC2	8208	CHAF1B	L
983	CDC2	8900	CCNA1	L
983	CDC2	9088	PKMYT1	L
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983	CDC2	10600	USP16	L
983	CDC2	10615	SPAG5	L
983	CDC2	10912	GADD45G	L
983	CDC2	11178	LZTS1	L
983	CDC2	29883	CNOT7	L
983	CDC2	64689	GORASP1	L
984	CDC2L1	81605	C9orf74	S
984	CDC2L1	81669	CCNL2	L
985	CDC2L2	2683	B4GALT1	L
985	CDC2L2	5058	PAK1	L
985	CDC2L2	6432	SFRS7	L
985	CDC2L2	6499	SKIV2L	L
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988	CDC5L	1026	CDKN1A	L
988	CDC5L	1029	CDKN2A	L
988	CDC5L	4172	MCM3	L
988	CDC5L	4173	MCM4	L
988	CDC5L	4174	MCM5	L
988	CDC5L	4998	ORC1L	L
988	CDC5L	4999	ORC2L	L
988	CDC5L	5001	ORC5L	L
988	CDC5L	5356	PLRG1	L
988	CDC5L	5511	PPP1R8	L
988	CDC5L	8458	TTF2	L
988	CDC5L	55388	MCM10	L
988	CDC5L	81620	CDT1	L
989	SEPT7	10435	CDC42EP2	L
989	SEPT7	10801	SEPT9	L
989	SEPT7	54443	ANLN	L
990	CDC6	1026	CDKN1A	L
990	CDC6	1029	CDKN2A	L
990	CDC6	4171	MCM2	L
990	CDC6	4172	MCM3	L
990	CDC6	4176	MCM7	L
990	CDC6	4609	MYC	L
990	CDC6	4998	ORC1L	L
990	CDC6	4999	ORC2L	L
990	CDC6	5001	ORC5L	L
990	CDC6	5111	PCNA	L
990	CDC6	5523	PPP2R3A	L
990	CDC6	23594	ORC6L	L
990	CDC6	23595	ORC3L	L

990	CDC6	26993	AKAP8L	L
990	CDC6	28227	PPP2R3B	L
990	CDC6	55388	MCM10	L
990	CDC6	81620	CDT1	L
991	CDC20	996	CDC27	L
991	CDC20	4085	MAD2L1	L
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991	CDC20	8881	CDC16	L
991	CDC20	9232	PTTG1	L
991	CDC20	26271	FBXO5	L
993	CDC25A	1017	CDK2	L
993	CDC25A	1033	CDKN3	L
993	CDC25A	1111	CHEK1	L
993	CDC25A	1523	CUTL1	L
993	CDC25A	1956	EGFR	L
993	CDC25A	3265	HRAS	L
993	CDC25A	4217	MAP3K5	L
993	CDC25A	5292	PIM1	L
993	CDC25A	5894	RAF1	L
993	CDC25A	6093	ROCK1	L
993	CDC25A	7529	YWHAB	L
993	CDC25A	7531	YWHAE	L
993	CDC25A	7534	YWHAZ	L
993	CDC25A	8260	ARD1A	R
993	CDC25A	8900	CCNA1	L
994	CDC25B	1111	CHEK1	L
994	CDC25B	1387	CREBBP	L
994	CDC25B	1460	CSNK2B	L
994	CDC25B	2099	ESR1	L
994	CDC25B	7529	YWHAB	L
994	CDC25B	7531	YWHAE	L
994	CDC25B	7533	YWHAH	L
994	CDC25B	7534	YWHAZ	L
994	CDC25B	8850	PCAF	L
994	CDC25B	9833	MELK	L
994	CDC25B	10971	YWHAQ	L
995	CDC25C	1111	CHEK1	L
995	CDC25C	1263	PLK3	L
995	CDC25C	1432	MAPK14	L
995	CDC25C	3932	LCK	L
995	CDC25C	4734	NEDD4	L
995	CDC25C	5111	PCNA	L
995	CDC25C	5300	PIN1	L
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995	CDC25C	7157	TP53	L
995	CDC25C	7533	YWHAH	L
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996	CDC27	3226	HOXC10	L
996	CDC27	4085	MAD2L1	L
996	CDC27	4087	SMAD2	L
996	CDC27	4088	SMAD3	L
996	CDC27	5300	PIN1	L
996	CDC27	5536	PPP5C	L
996	CDC27	6498	SKIL	L
996	CDC27	8881	CDC16	L
996	CDC27	51433	ANAPC5	L
997	CDC34	1390	CREM	L
997	CDC34	1460	CSNK2B	L
997	CDC34	4605	MYBL2	L
997	CDC34	4654	MYOD1	L
997	CDC34	6502	SKP2	L
997	CDC34	22809	ATF5	L
998	CDC42	1464	CSPG4	L
998	CDC42	1937	EEF1G	S
998	CDC42	2245	FGD1	L
998	CDC42	2316	FLNA	L
998	CDC42	2664	GDI1	L

998	CDC42	3895	KTN1	L
998	CDC42	4216	MAP3K4	L
998	CDC42	4294	MAP3K10	L
998	CDC42	4296	MAP3K11	L
998	CDC42	4649	MYO9A	S
998	CDC42	4688	NCF2	L
998	CDC42	4983	OPHN1	L
998	CDC42	5058	PAK1	L
998	CDC42	5062	PAK2	L
998	CDC42	5147	PDE6D	S
998	CDC42	5295	PIK3R1	L
998	CDC42	5337	PLD1	L
998	CDC42	5578	PRKCA	L
998	CDC42	5880	RAC2	L
998	CDC42	6198	RPS6KB1	L
998	CDC42	6453	ITSN1	L
998	CDC42	7157	TP53	S
998	CDC42	7409	VAV1	L
998	CDC42	7454	WAS	L
998	CDC42	8826	IQGAP1	L
998	CDC42	8936	WASF1	L
998	CDC42	8976	WASL	L
998	CDC42	9094	UNC119	S
998	CDC42	9322	TRIP10	L
998	CDC42	10096	ACTR3	L
998	CDC42	10163	WASF2	L
998	CDC42	10188	TNK2	L
998	CDC42	10298	PAK4	L
998	CDC42	10435	CDC42EP2	L
998	CDC42	10458	BAIAP2	L
998	CDC42	10524	HTATIP	S
998	CDC42	10602	CDC42EP3	L
998	CDC42	10788	IQGAP2	L
998	CDC42	11135	CDC42EP1	R
998	CDC42	11161	C14orf1	S
998	CDC42	23263	MCF2L	L
998	CDC42	23348	DOCK9	L
998	CDC42	50619	DEF6	L
998	CDC42	50855	PARD6A	L
998	CDC42	54206	ERRF1	L
998	CDC42	55791	C1orf103	S
998	CDC42	56288	PARD3	L
998	CDC42	56924	PAK6	L
998	CDC42	57144	PAK7	L
998	CDC42	57381	RHOJ	L
998	CDC42	57522	SRGAP1	L
998	CDC42	81704	DOCK8	L
998	CDC42	84218	TBC1D3	L
998	CDC42	84552	PARD6G	L
998	CDC42	197131	UBR1	S
999	CDH1	1434	CSE1L	L
999	CDH1	1499	CTNNB1	L
999	CDH1	1500	CTNND1	L
999	CDH1	1739	DLG1	L
999	CDH1	1956	EGFR	L
999	CDH1	2768	GNA12	L
999	CDH1	3667	IRS1	L
999	CDH1	3728	JUP	L
999	CDH1	5310	PKD1	L
999	CDH1	5663	PSEN1	L
999	CDH1	5784	PTPN14	L
999	CDH1	5792	PTPRF	L
999	CDH1	7430	VIL2	L
999	CDH1	8826	IQGAP1	L
999	CDH1	10096	ACTR3	L
999	CDH1	10672	GNA13	L
999	CDH1	51762	RAB8B	L

999	CDH1	55591	VEZATIN	L
999	CDH1	55914	ERBB2IP	L
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1000	CDH2	1495	CTNNA1	L
1000	CDH2	2768	GNA12	L
1000	CDH2	2898	GRIK2	L
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1000	CDH2	5770	PTPN1	L
1000	CDH2	10672	GNA13	L
1000	CDH2	57554	LRRC7	L
1001	CDH3	1499	CTNNB1	L
1001	CDH3	1500	CTNND1	L
1003	CDH5	1495	CTNNA1	L
1003	CDH5	1499	CTNNB1	L
1003	CDH5	1500	CTNND1	L
1003	CDH5	1832	DSP	L
1003	CDH5	2243	FGA	L
1003	CDH5	3728	JUP	L
1003	CDH5	3791	KDR	L
1003	CDH5	5025	P2RX4	L
1003	CDH5	5781	PTPN11	L
1003	CDH5	5787	PTPRB	L
1003	CDH5	6464	SHC1	L
1003	CDH5	7431	VIM	L
1003	CDH5	8502	PKP4	L
1003	CDH5	9127	P2RXL1	L
1003	CDH5	23049	SMG1	L
1004	CDH6	1008	CDH10	L
1004	CDH6	1016	CDH18	L
1004	CDH6	28513	CDH19	L
1006	CDH8	1499	CTNNB1	L
1008	CDH10	5764	PTN	S
1008	CDH10	10980	COPS6	S
1009	CDH11	1499	CTNNB1	L
1009	CDH11	55729	ATF7IP	L
1010	CDH12	1016	CDH18	L
1013	CDH15	1499	CTNNB1	L
1013	CDH15	2768	GNA12	L
1013	CDH15	3728	JUP	L
1017	CDK2	1026	CDKN1A	L
1017	CDK2	1027	CDKN1B	L
1017	CDK2	1033	CDKN3	L
1017	CDK2	1050	CEBPA	L
1017	CDK2	1163	CKS1B	L
1017	CDK2	1869	E2F1	L
1017	CDK2	2237	FEN1	L
1017	CDK2	2946	GSTM2	L
1017	CDK2	4067	LYN	L
1017	CDK2	4087	SMAD2	L
1017	CDK2	4088	SMAD3	L
1017	CDK2	4172	MCM3	L
1017	CDK2	4999	ORC2L	L
1017	CDK2	5583	PRKCH	L
1017	CDK2	5757	PTMA	L
1017	CDK2	5925	RB1	L
1017	CDK2	5933	RBL1	L
1017	CDK2	5934	RBL2	L
1017	CDK2	6502	SKP2	L
1017	CDK2	7343	UBTF	L
1017	CDK2	8099	CDK2AP1	L
1017	CDK2	8208	CHAF1B	L
1017	CDK2	8900	CCNA1	L
1017	CDK2	9133	CCNB2	L
1017	CDK2	9134	CCNE2	L
1017	CDK2	29883	CNOT7	L

1017	CDK2	85417	CCNB3	L
1018	CDK3	1033	CDKN3	L
1018	CDK3	1163	CKS1B	L
1018	CDK3	1869	E2F1	L
1018	CDK3	1870	E2F2	L
1018	CDK3	1871	E2F3	L
1019	CDK4	1026	CDKN1A	L
1019	CDK4	1027	CDKN1B	L
1019	CDK4	1029	CDKN2A	L
1019	CDK4	1030	CDKN2B	RSL
1019	CDK4	1031	CDKN2C	L
1019	CDK4	1032	CDKN2D	R
1019	CDK4	1050	CEBPA	L
1019	CDK4	3429	IFI27	L
1019	CDK4	4087	SMAD2	L
1019	CDK4	4088	SMAD3	L
1019	CDK4	4171	MCM2	L
1019	CDK4	4654	MYOD1	L
1019	CDK4	5716	PSMD10	L
1019	CDK4	5757	PTMA	L
1019	CDK4	5925	RB1	L
1019	CDK4	5981	RFC1	L
1019	CDK4	5984	RFC4	L
1019	CDK4	7917	BAT3	S
1019	CDK4	8317	CDC7	L
1019	CDK4	9869	SETDB1	S
1019	CDK4	11140	CDC37	L
1019	CDK4	29883	CNOT7	L
1019	CDK4	51534	C6orf55	R
1019	CDK4	79159	MGC3731	S
1020	CDK5	1499	CTNNB1	L
1020	CDK5	2580	GAK	L
1020	CDK5	6418	SET	L
1020	CDK5	6804	STX1A	L
1020	CDK5	6812	STXBP1	L
1020	CDK5	8851	CDK5R1	L
1020	CDK5	8941	CDK5R2	L
1020	CDK5	10763	NES	L
1021	CDK6	1026	CDKN1A	L
1021	CDK6	1029	CDKN2A	L
1021	CDK6	1031	CDKN2C	L
1021	CDK6	1032	CDKN2D	L
1021	CDK6	4171	MCM2	L
1021	CDK6	5111	PCNA	L
1021	CDK6	5495	PPM1B	L
1021	CDK6	29883	CNOT7	L
1021	CDK6	55388	MCM10	L
1022	CDK7	5914	RARA	L
1022	CDK7	7067	THRA	L
1022	CDK7	7421	VDR	L
1024	CDK8	1030	CDKN2B	L
1026	CDKN1A	1027	CDKN1B	L
1026	CDKN1A	1387	CREBBP	L
1026	CDKN1A	1460	CSNK2B	L
1026	CDKN1A	1647	GADD45A	L
1026	CDKN1A	4616	GADD45B	L
1026	CDKN1A	5111	PCNA	RL
1026	CDKN1A	5292	PIM1	L
1026	CDKN1A	5425	POLD2	L
1026	CDKN1A	5684	PSMA3	L
1026	CDKN1A	5861	RAB1A	S
1026	CDKN1A	6418	SET	L
1026	CDKN1A	6774	STAT3	L
1026	CDKN1A	7083	TK1	L
1026	CDKN1A	7251	TSG101	L
1026	CDKN1A	8317	CDC7	L
1026	CDKN1A	8318	CDC45L	L

1026	CDKN1A	8402	SLC25A11	S
1026	CDKN1A	8900	CCNA1	L
1026	CDKN1A	9133	CCNB2	L
1026	CDKN1A	9134	CCNE2	L
1026	CDKN1A	10399	GNB2L1	S
1026	CDKN1A	10912	GADD45G	L
1026	CDKN1A	11007	DIPA	R
1026	CDKN1A	23093	TLL5	S
1026	CDKN1A	27231	ITGB1BP3	S
1026	CDKN1A	51053	GMNN	L
1026	CDKN1A	51608	C7orf20	S
1026	CDKN1A	54987	C1orf123	S
1026	CDKN1A	55388	MCM10	L
1026	CDKN1A	56159	TEX11	R
1026	CDKN1A	79885	HDAC11	S
1026	CDKN1A	115106	CCDC5	L
1027	CDKN1B	2885	GRB2	L
1027	CDKN1B	6502	SKP2	L
1027	CDKN1B	7186	TRAF2	R
1027	CDKN1B	7345	UCHL1	L
1027	CDKN1B	7514	XPO1	L
1027	CDKN1B	7531	YWHAE	L
1027	CDKN1B	7533	YWHAH	L
1027	CDKN1B	8900	CCNA1	L
1027	CDKN1B	9134	CCNE2	L
1027	CDKN1B	10762	NUP50	L
1027	CDKN1B	10971	YWHAQ	L
1028	CDKN1C	3984	LIMK1	L
1028	CDKN1C	4654	MYOD1	L
1028	CDKN1C	5111	PCNA	L
1028	CDKN1C	6502	SKP2	L
1029	CDKN2A	1031	CDKN2C	L
1029	CDKN2A	1877	E4F1	L
1029	CDKN2A	3091	HIF1A	L
1029	CDKN2A	4171	MCM2	L
1029	CDKN2A	4174	MCM5	L
1029	CDKN2A	4193	MDM2	L
1029	CDKN2A	5000	ORC4L	L
1029	CDKN2A	5702	PSMC3	L
1029	CDKN2A	7528	YY1	L
1029	CDKN2A	8317	CDC7	L
1029	CDKN2A	8318	CDC45L	L
1029	CDKN2A	51053	GMNN	L
1029	CDKN2A	55388	MCM10	L
1029	CDKN2A	55602	CARF	L
1029	CDKN2A	84687	PPP1R9B	L
1029	CDKN2A	115106	CCDC5	L
1030	CDKN2B	4110	MAGEA11	R
1030	CDKN2B	7709	ZBTB17	L
1030	CDKN2B	8099	CDK2AP1	L
1030	CDKN2B	8518	IKBKAP	S
1030	CDKN2B	10094	ARPC3	S
1030	CDKN2B	57562	KIAA1377	S
1030	CDKN2B	60492	MDS025	S
1031	CDKN2C	2661	GDF9	S
1031	CDKN2C	4809	NHP2L1	S
1031	CDKN2C	7088	TLE1	S
1031	CDKN2C	7157	TP53	S
1031	CDKN2C	9094	UNC119	S
1031	CDKN2C	10589	DRAP1	S
1031	CDKN2C	10980	COPS6	S
1031	CDKN2C	55791	C1orf103	S
1031	CDKN2C	60492	MDS025	S
1031	CDKN2C	84060	DKFZP564O0523	S
1032	CDKN2D	79735	TBC1D17	R
1033	CDKN3	1050	CEBPA	L
1039	CDR2	5585	PKN1	L

1045	CDX2	1387	CREBBP	L
1045	CDX2	2033	EP300	L
1045	CDX2	5080	PAX6	L
1045	CDX2	6927	TCF1	L
1047	CLGN	2515	ADAM2	L
1048	CEACAM5	2130	EWSR1	R
1048	CEACAM5	4670	HNRPM	L
1050	CEBPA	1051	CEBPB	L
1050	CEBPA	1052	CEBPD	L
1050	CEBPA	1053	CEBPE	L
1050	CEBPA	1054	CEBPG	L
1050	CEBPA	1386	ATF2	L
1050	CEBPA	1499	CTNNB1	L
1050	CEBPA	1649	DDIT3	L
1050	CEBPA	2908	NR3C1	L
1050	CEBPA	4488	MSX2	L
1050	CEBPA	4609	MYC	L
1050	CEBPA	5981	RFC1	L
1050	CEBPA	6688	SPI1	L
1050	CEBPA	6927	TCF1	L
1050	CEBPA	9586	CREB5	L
1050	CEBPA	10538	BATF	L
1050	CEBPA	11016	ATF7	L
1050	CEBPA	22809	ATF5	L
1050	CEBPA	23054	NCOA6	L
1050	CEBPA	55509	SNFT	L
1051	CEBPB	1052	CEBPD	L
1051	CEBPB	1053	CEBPE	L
1051	CEBPB	1054	CEBPG	L
1051	CEBPB	1385	CREB1	L
1051	CEBPB	1386	ATF2	L
1051	CEBPB	1628	DBP	L
1051	CEBPB	1649	DDIT3	L
1051	CEBPB	1956	EGFR	L
1051	CEBPB	1958	EGR1	L
1051	CEBPB	2002	ELK1	L
1051	CEBPB	2033	EP300	L
1051	CEBPB	2099	ESR1	L
1051	CEBPB	2308	FOXO1A	L
1051	CEBPB	2908	NR3C1	L
1051	CEBPB	3159	HMGA1	L
1051	CEBPB	3190	HNRPK	L
1051	CEBPB	3297	HSF1	L
1051	CEBPB	4088	SMAD3	L
1051	CEBPB	4089	SMAD4	L
1051	CEBPB	4602	MYB	L
1051	CEBPB	4609	MYC	L
1051	CEBPB	4790	NFKB1	L
1051	CEBPB	5925	RB1	L
1051	CEBPB	5970	RELA	L
1051	CEBPB	6348	CCL3	L
1051	CEBPB	6597	SMARCA4	L
1051	CEBPB	6598	SMARCB1	L
1051	CEBPB	6599	SMARCC1	L
1051	CEBPB	6667	SP1	L
1051	CEBPB	6688	SPI1	L
1051	CEBPB	6722	SRF	L
1051	CEBPB	6776	STAT5A	L
1051	CEBPB	6778	STAT6	L
1051	CEBPB	9221	NOLC1	L
1051	CEBPB	9439	CRSP3	L
1051	CEBPB	9586	CREB5	L
1051	CEBPB	10155	TRIM28	L
1051	CEBPB	10538	BATF	L
1051	CEBPB	11016	ATF7	L
1051	CEBPB	22809	ATF5	L
1051	CEBPB	55509	SNFT	L

1052	CEBPD	1053	CEBPE	L
1052	CEBPD	1054	CEBPG	L
1052	CEBPD	1649	DDIT3	L
1052	CEBPD	5970	RELA	L
1052	CEBPD	10538	BATF	L
1052	CEBPD	22809	ATF5	L
1052	CEBPD	55509	SNFT	L
1053	CEBPE	1054	CEBPG	L
1053	CEBPE	1649	DDIT3	L
1053	CEBPE	3725	JUN	L
1053	CEBPE	4602	MYB	L
1053	CEBPE	9586	CREB5	L
1053	CEBPE	10538	BATF	L
1053	CEBPE	55509	SNFT	L
1054	CEBPG	1386	ATF2	L
1054	CEBPG	1628	DBP	L
1054	CEBPG	1649	DDIT3	RL
1054	CEBPG	2353	FOS	L
1054	CEBPG	2355	FOSL2	L
1054	CEBPG	3131	HLF	L
1054	CEBPG	4302	MLLT6	R
1054	CEBPG	4783	NFIL3	L
1054	CEBPG	7008	TEF	L
1054	CEBPG	7975	MAFK	L
1054	CEBPG	8061	FOSL1	L
1054	CEBPG	9586	CREB5	L
1054	CEBPG	10488	CREB3	L
1054	CEBPG	10538	BATF	L
1054	CEBPG	11016	ATF7	L
1054	CEBPG	22809	ATF5	L
1054	CEBPG	55509	SNFT	L
1054	CEBPG	81488	GRINL1A	R
1054	CEBPG	84699	CREB3L3	L
1054	CEBPG	90993	CREB3L1	L
1054	CEBPG	148327	CREB3L4	L
1058	CENPA	1729	DIAPH1	L
1058	CENPA	1730	DIAPH2	L
1058	CENPA	10038	PARP2	L
1059	CENPB	9464	HAND2	L
1059	CENPB	10038	PARP2	L
1060	CENPC1	1616	DAXX	L
1060	CENPC1	7343	UBTF	L
1062	CENPE	1063	CENPF	L
1063	CENPF	8315	BRAP	L
1063	CENPF	8940	TOP3B	L
1066	CES1	2990	GUSB	L
1069	CETN2	5887	RAD23B	L
1069	CETN2	7508	XPC	L
1069	CETN2	9814	SFI1	L
1070	CETN3	9094	UNC119	S
1071	CETP	2130	EWSR1	R
1071	CETP	4023	LPL	L
1071	CETP	10094	ARPC3	S
1072	CFL1	3984	LIMK1	L
1072	CFL1	7167	TPI1	L
1072	CFL1	10487	CAP1	L
1072	CFL1	10808	HSPH1	L
1072	CFL1	26292	MYCBP	S
1072	CFL1	54434	SSH1	L
1072	CFL1	54961	SSH3	L
1072	CFL1	85464	SSH2	L
1080	CFTR	3301	DNAJA1	L
1080	CFTR	5174	PDZK1	L
1080	CFTR	5562	PRKAA1	L
1080	CFTR	5576	PRKAR2A	L
1080	CFTR	5581	PRKCE	L
1080	CFTR	6804	STX1A	L

1080	CFTR	7430	VIL2	L
1080	CFTR	8773	SNAP23	L
1080	CFTR	9351	SLC9A3R2	L
1080	CFTR	9368	SLC9A3R1	L
1080	CFTR	9497	SLC4A7	L
1080	CFTR	9498	SLC4A8	L
1080	CFTR	57120	GOPC	L
1080	CFTR	80331	DNAJC5	L
1081	CGA	1082	CGB	L
1081	CGA	2488	FSHB	L
1081	CGA	3972	LHB	L
1081	CGA	3973	LHCGR	L
1081	CGA	5764	PTN	S
1081	CGA	5782	PTPN12	L
1081	CGA	7252	TSHB	L
1081	CGA	93659	CGB5	L
1081	CGA	94027	CGB7	L
1082	CGB	2488	FSHB	L
1082	CGB	3973	LHCGR	L
1088	CEACAM8	4680	CEACAM6	L
1101	CHAD	1280	COL2A1	L
1102	RCBTB2	51138	COPS4	R
1104	RCC1	1119	CHKA	L
1104	RCC1	1452	CSNK1A1	L
1104	RCC1	3839	KPNA3	L
1104	RCC1	5757	PTMA	L
1104	RCC1	5901	RAN	L
1104	RCC1	5902	RANBP1	L
1104	RCC1	7514	XPO1	L
1104	RCC1	8337	HIST2H2AA	L
1104	RCC1	8349	HIST2H2BE	L
1104	RCC1	8498	RANBP3	L
1105	CHD1	3065	HDAC1	L
1105	CHD1	6294	SAFB	L
1105	CHD1	6428	SFRS3	L
1105	CHD1	6749	SSRP1	L
1105	CHD1	9611	NCOR1	L
1107	CHD3	1363	CPE	S
1107	CHD3	1385	CREB1	S
1107	CHD3	1478	CSTF2	S
1107	CHD3	2017	CTTN	S
1107	CHD3	2874	GPS2	S
1107	CHD3	3065	HDAC1	L
1107	CHD3	3066	HDAC2	L
1107	CHD3	3550	IK	S
1107	CHD3	4097	MAFG	S
1107	CHD3	4122	MAN2A2	S
1107	CHD3	5110	PCMT1	S
1107	CHD3	5553	PRG2	S
1107	CHD3	5720	PSME1	S
1107	CHD3	5764	PTN	S
1107	CHD3	5802	PTPRS	S
1107	CHD3	5888	RAD51	S
1107	CHD3	6159	RPL29	S
1107	CHD3	6294	SAFB	S
1107	CHD3	6303	SAT	S
1107	CHD3	6304	SATB1	L
1107	CHD3	6613	SUMO2	S
1107	CHD3	7105	TSPAN6	S
1107	CHD3	7157	TP53	L
1107	CHD3	7161	TP73	L
1107	CHD3	7276	TTR	S
1107	CHD3	7329	UBE2I	L
1107	CHD3	7341	SUMO1	L
1107	CHD3	7518	XRCC4	S
1107	CHD3	8553	BHLHB2	S
1107	CHD3	8764	TNFRSF14	S

1107	CHD3	8789	FBP2	S
1107	CHD3	8880	FUBP1	S
1107	CHD3	9039	UBE1C	S
1107	CHD3	9905	RUTBC1	S
1107	CHD3	10120	ACTR1B	S
1107	CHD3	10155	TRIM28	S
1107	CHD3	10169	SERF2	S
1107	CHD3	10190	TXNDC9	S
1107	CHD3	10320	ZNFN1A1	L
1107	CHD3	10606	PAICS	S
1107	CHD3	10625	IVNS1ABP	S
1107	CHD3	10807	SDCCAG3	S
1107	CHD3	10808	HSPH1	S
1107	CHD3	10989	IMMT	S
1107	CHD3	22827	SIAHBP1	S
1107	CHD3	22927	HABP4	S
1107	CHD3	26135	SERBP1	SL
1107	CHD3	28965	SLC27A6	S
1107	CHD3	51548	SIRT6	S
1107	CHD3	51593	ARS2	S
1107	CHD3	51631	LUC7L2	S
1107	CHD3	54544	C1orf42	S
1107	CHD3	56992	KIF15	S
1107	CHD3	57002	C7orf36	S
1107	CHD3	79137	C2orf17	S
1107	CHD3	80145	NIF3L1BP1	S
1107	CHD3	84103	C4orf17	S
1107	CHD3	84213	(null)	S
1107	CHD3	93974	ATPIF1	S
1108	CHD4	54464	XRN1	L
1108	CHD4	64375	ZNFN1A4	L
1111	CHEK1	2547	XRCC6	L
1111	CHEK1	7157	TP53	L
1111	CHEK1	63967	CLSPN	L
1112	CHES1	11340	EXOSC8	L
1113	CHGA	5340	PLG	L
1113	CHGA	29106	SCG3	L
1114	CHGB	2261	FGFR3	S
1114	CHGB	4140	MARK3	S
1114	CHGB	4968	OGG1	S
1114	CHGB	5424	POLD1	S
1114	CHGB	5434	POLR2E	S
1114	CHGB	5728	PTEN	S
1114	CHGB	6258	RXRG	S
1114	CHGB	6279	S100A8	S
1114	CHGB	6311	ATXN2	S
1114	CHGB	6901	TAZ	S
1114	CHGB	7280	TUBB2	S
1114	CHGB	7343	UBTF	S
1114	CHGB	7841	GCS1	S
1114	CHGB	9667	SAFB2	S
1114	CHGB	11343	MGLL	S
1114	CHGB	11344	PTK9L	S
1114	CHGB	56252	YLPM1	S
1114	CHGB	80126	FLJ23185	S
1114	CHGB	80212	FLJ22471	S
1114	CHGB	157285	DKFZp761P0423	S
1121	CHM	5864	RAB3A	L
1121	CHM	9545	RAB3D	L
1121	CHM	81876	RAB1B	L
1122	CHML	5861	RAB1A	L
1122	CHML	5864	RAB3A	L
1122	CHML	5868	RAB5A	L
1122	CHML	5870	RAB6A	L
1123	CHN1	2975	GTF3C1	S
1123	CHN1	6189	RPS3A	S
1124	CHN2	4690	NCK1	L

1124	CHN2	7917	BAT3	S
1124	CHN2	222019	(null)	S
1128	CHRM1	2771	GNAI2	L
1129	CHRM2	2767	GNA11	L
1129	CHRM2	2769	GNA15	L
1129	CHRM2	2869	GRK5	L
1129	CHRM2	6295	SAG	L
1129	CHRM2	9630	GNA14	L
1130	LYST	1460	CSNK2B	L
1130	LYST	1822	ATN1	L
1130	LYST	2101	ESRRA	L
1130	LYST	3837	KPNB1	L
1130	LYST	4670	HNRPM	L
1130	LYST	7529	YWHAB	L
1130	LYST	8220	DGCR14	L
1130	LYST	9146	HGS	L
1130	LYST	9968	MED12	L
1130	LYST	10971	YWHAQ	L
1130	LYST	23154	NCDN	L
1130	LYST	63875	MRPL17	L
1131	CHRM3	1452	CSNK1A1	L
1131	CHRM3	2776	GNAQ	L
1131	CHRM3	2870	GRK6	L
1131	CHRM3	3002	GZMB	L
1134	CHRNA1	1144	CHRND	L
1134	CHRNA1	1145	CHRNE	L
1134	CHRNA1	1146	CHRNA1	L
1134	CHRNA1	3679	ITGA7	L
1135	CHRNA2	1141	CHRNA2	L
1135	CHRNA2	1143	CHRNA2	L
1136	CHRNA3	1143	CHRNA3	L
1137	CHRNA4	1143	CHRNA4	L
1137	CHRNA4	7447	VSNL1	L
1137	CHRNA4	7533	YWHAH	L
1138	CHRNA5	1143	CHRNA5	L
1139	CHRNA7	5295	PIK3R1	L
1140	CHRNA1	10980	COPS6	S
1144	CHRND	2885	GRB2	L
1147	CHUK	1326	MAP3K8	L
1147	CHUK	1499	CTNNB1	L
1147	CHUK	2309	FOXO3A	L
1147	CHUK	3320	HSPCA	L
1147	CHUK	3667	IRS1	L
1147	CHUK	4296	MAP3K11	L
1147	CHUK	4790	NFKB1	L
1147	CHUK	4793	NFKBIB	L
1147	CHUK	5591	PRKDC	L
1147	CHUK	6885	MAP3K7	L
1147	CHUK	7128	TNFAIP3	L
1147	CHUK	7132	TNFRSF1A	L
1147	CHUK	7157	TP53	L
1147	CHUK	7186	TRAF2	L
1147	CHUK	8518	IKBKAP	L
1147	CHUK	8915	BCL10	L
1147	CHUK	9020	MAP3K14	L
1147	CHUK	10477	UBE2E3	L
1147	CHUK	10758	TRAF3IP2	L
1147	CHUK	11140	CDC37	L
1147	CHUK	26133	TRPC4AP	L
1147	CHUK	147945	NALP4	L
1149	CIDEA	7704	ZBTB16	S
1152	CKB	1158	CKM	L
1152	CKB	140462	ASB9	R
1152	CKB	387923	C13orf21	R
1153	CIRBP	3276	HRMT1L2	L
1153	CIRBP	7094	TLN1	L
1153	CIRBP	7414	VCL	L

1153	CIRBP	27316	RBMX	R
1154	CISH	2057	EPOR	L
1154	CISH	3560	IL2RB	L
1154	CISH	3563	IL3RA	L
1154	CISH	4087	SMAD2	L
1154	CISH	5618	PRLR	L
1154	CISH	8649	MAP2K1IP1	L
1155	CKAP1	7277	TUBA1	L
1159	CKMT1B	7416	VDAC1	L
1160	CKMT2	9094	UNC119	S
1160	CKMT2	55791	C1orf103	S
1160	CKMT2	56944	OLFML3	S
1161	ERCC8	27089	QP-C	S
1163	CKS1B	6502	SKP2	L
1164	CKS2	1915	EEF1A1	S
1164	CKS2	9094	UNC119	S
1164	CKS2	81628	TSC22D4	R
1173	AP2M1	1493	CTLA4	L
1173	AP2M1	1601	DAB2	L
1173	AP2M1	1856	DVL2	R
1173	AP2M1	2580	GAK	L
1173	AP2M1	3916	LAMP1	L
1173	AP2M1	4063	LY9	L
1173	AP2M1	5045	FURIN	L
1173	AP2M1	9513	FXR2	R
1173	AP2M1	9779	TBC1D5	R
1173	AP2M1	10320	ZNFN1A1	R
1173	AP2M1	10900	RPIP8	R
1173	AP2M1	10928	RALBP1	L
1173	AP2M1	27156	RTDR1	R
1173	AP2M1	29079	MED4	R
1173	AP2M1	30846	EHD2	L
1173	AP2M1	127557	ZBTB8	R
1173	AP2M1	151871	DPPA2	R
1174	AP1S1	8906	AP1G2	L
1174	AP1S1	10053	AP1M2	L
1174	AP1S1	23431	AP4E1	L
1176	AP3S1	3667	IRS1	L
1176	AP3S1	8120	AP3B2	L
1176	AP3S1	10239	AP3S2	L
1179	CLCA1	3779	KCNMB1	L
1182	CLCN3	5174	PDZK1	L
1182	CLCN3	9368	SLC9A3R1	L
1182	CLCN3	57120	GOPC	L
1191	CLU	2547	XRCC6	L
1191	CLU	3952	LEP	L
1191	CLU	3953	LEPR	L
1191	CLU	4036	LRP2	L
1191	CLU	5444	PON1	L
1191	CLU	7046	TGFBR1	L
1191	CLU	7048	TGFBR2	L
1191	CLU	7436	VLDLR	L
1191	CLU	7804	LRP8	L
1191	CLU	64386	MMP25	L
1192	CLIC1	6399	TRAPPC2	L
1192	CLIC1	10142	AKAP9	L
1192	CLIC1	27257	LSM1	L
1192	CLIC1	286262	C9orf75	L
1193	CLIC2	6399	TRAPPC2	L
1195	CLK1	4155	MBP	L
1195	CLK1	6426	SFRS1	L
1195	CLK1	6431	SFRS6	L
1195	CLK1	9128	PRPF4	L
1195	CLK1	9360	PPIG	L
1195	CLK1	51280	GOLPH2	S
1195	CLK1	59286	UBL5	L
1196	CLK2	1198	CLK3	R

1198	CLK3	57035	C1orf63	R
1207	CLNS1A	2035	EPB41	L
1207	CLNS1A	13682	(null)	S
1208	CLPS	5406	PNLIP	L
1208	CLPS	8513	LIPF	L
1211	CLTA	1213	CLTC	L
1211	CLTA	3092	HIP1	L
1211	CLTA	3312	HSPA8	L
1211	CLTA	9026	HIP1R	L
1212	CLTB	1213	CLTC	L
1212	CLTB	3092	HIP1	L
1212	CLTB	9026	HIP1R	L
1212	CLTB	10084	PQBP1	S
1213	CLTC	2580	GAK	L
1213	CLTC	3092	HIP1	L
1213	CLTC	3815	KIT	L
1213	CLTC	4294	MAP3K10	L
1213	CLTC	7414	VCL	L
1213	CLTC	8120	AP3B2	L
1213	CLTC	8546	AP3B1	L
1213	CLTC	9026	HIP1R	L
1213	CLTC	9146	HGS	L
1213	CLTC	9685	ENTH	L
1213	CLTC	10043	TOM1	L
1213	CLTC	26119	LDLRAP1	L
1213	CLTC	29924	EPN1	L
1213	CLTC	51566	ARMCX3	S
1213	CLTC	80007	C10orf88	S
1213	CLTC	83988	NCALD	L
1230	CCR1	6348	CCL3	L
1230	CCR1	6349	CCL3L1	L
1230	CCR1	6352	CCL5	L
1230	CCR1	6354	CCL7	L
1230	CCR1	6355	CCL8	L
1230	CCR1	6358	CCL14	L
1230	CCR1	6359	CCL15	L
1230	CCR1	6360	CCL16	L
1230	CCR1	6368	CCL23	L
1230	CCR1	9630	GNA14	L
1231	CCR2	1234	CCR5	L
1231	CCR2	3717	JAK2	L
1231	CCR2	6347	CCL2	L
1231	CCR2	6354	CCL7	L
1231	CCR2	6355	CCL8	L
1231	CCR2	6356	CCL11	L
1231	CCR2	6357	CCL13	L
1231	CCR2	6360	CCL16	L
1232	CCR3	2268	FGR	L
1232	CCR3	3055	HCK	L
1232	CCR3	6349	CCL3L1	L
1232	CCR3	6352	CCL5	L
1232	CCR3	6354	CCL7	L
1232	CCR3	6355	CCL8	L
1232	CCR3	6356	CCL11	L
1232	CCR3	6357	CCL13	L
1232	CCR3	6358	CCL14	L
1232	CCR3	6359	CCL15	L
1232	CCR3	6369	CCL24	L
1232	CCR3	10344	CCL26	L
1232	CCR3	56477	CCL28	L
1233	CCR4	6348	CCL3	L
1233	CCR4	6352	CCL5	L
1233	CCR4	6361	CCL17	L
1233	CCR4	6367	CCL22	L
1234	CCR5	2185	PTK2B	L
1234	CCR5	3717	JAK2	L
1234	CCR5	3932	LCK	L

1234	CCR5	5747	PTK2	L
1234	CCR5	6347	CCL2	L
1234	CCR5	6348	CCL3	L
1234	CCR5	6349	CCL3L1	L
1234	CCR5	6351	CCL4	L
1234	CCR5	6352	CCL5	L
1234	CCR5	6354	CCL7	L
1234	CCR5	6355	CCL8	L
1234	CCR5	6356	CCL11	L
1234	CCR5	6357	CCL13	L
1234	CCR5	6358	CCL14	L
1234	CCR5	6360	CCL16	L
1234	CCR5	7294	TXK	L
1234	CCR5	7852	CXCR4	L
1235	CCR6	1673	DEFB4	L
1235	CCR6	6364	CCL20	L
1235	CCR6	55894	DEFB103A	L
1236	CCR7	6363	CCL19	L
1236	CCR7	6366	CCL21	L
1237	CCR8	6346	CCL1	L
1237	CCR8	6351	CCL4	L
1237	CCR8	6360	CCL16	L
1237	CCR8	6361	CCL17	L
1238	CCBP2	6347	CCL2	L
1238	CCBP2	6348	CCL3	L
1238	CCBP2	6351	CCL4	L
1238	CCBP2	6352	CCL5	L
1238	CCBP2	6354	CCL7	L
1238	CCBP2	6355	CCL8	L
1238	CCBP2	6356	CCL11	L
1238	CCBP2	6357	CCL13	L
1238	CCBP2	6358	CCL14	L
1238	CCBP2	6363	CCL19	L
1238	CCBP2	6366	CCL21	L
1238	CCBP2	6370	CCL25	L
1238	CCBP2	10850	CCL27	L
1238	CCBP2	56477	CCL28	L
1241	LTB4R	2769	GNA15	L
1244	ABCC2	5174	PDZK1	L
1244	ABCC2	5962	RDX	L
1244	ABCC2	9368	SLC9A3R1	L
1258	CNGB1	5961	RDS	L
1259	CNGA1	9187	SLC24A1	L
1260	CNGA2	9368	SLC9A3R1	L
1263	PLK3	7157	TP53	L
1263	PLK3	9319	TRIP13	R
1263	PLK3	10519	CIB1	L
1263	PLK3	11200	CHEK2	L
1264	CNN1	5581	PRKCE	L
1264	CNN1	7170	TPM3	L
1267	CNP	7846	TUBA3	L
1268	CNR1	2769	GNA15	L
1268	CNR1	2770	GNAI1	L
1268	CNR1	2771	GNAI2	L
1268	CNR1	2773	GNAI3	L
1268	CNR1	3061	HCRTR1	L
1269	CNR2	2769	GNA15	L
1270	CNTF	1271	CNTFR	L
1270	CNTF	3570	IL6R	L
1270	CNTF	3572	IL6ST	L
1270	CNTF	3977	LIFR	L
1271	CNTFR	3572	IL6ST	L
1271	CNTFR	3977	LIFR	L
1271	CNTFR	5359	PLSCR1	R
1271	CNTFR	9244	CRLF1	L
1271	CNTFR	10513	APPBP2	R
1271	CNTFR	23529	CLCF1	L

1271	CNTFR	83755	KRTAP4-12	R
1272	CNTN1	2534	FYN	L
1272	CNTN1	3371	TNC	L
1272	CNTN1	3897	L1CAM	L
1272	CNTN1	4851	NOTCH1	L
1272	CNTN1	4853	NOTCH2	L
1272	CNTN1	5787	PTPRB	L
1272	CNTN1	6338	SCNN1B	L
1272	CNTN1	6900	CNTN2	L
1272	CNTN1	7143	TNR	L
1277	COL1A1	1294	COL7A1	L
1277	COL1A1	1634	DCN	L
1277	COL1A1	2252	FGF7	L
1277	COL1A1	2335	FN1	L
1277	COL1A1	3486	IGFBP3	L
1277	COL1A1	3673	ITGA2	L
1277	COL1A1	3678	ITGA5	L
1277	COL1A1	4147	MATN2	L
1277	COL1A1	4313	MMP2	L
1277	COL1A1	4318	MMP9	L
1277	COL1A1	4811	NID1	L
1277	COL1A1	4921	DDR2	L
1277	COL1A1	5034	P4HB	L
1277	COL1A1	5058	PAK1	L
1277	COL1A1	5155	PDGFB	L
1277	COL1A1	5549	PRELP	L
1277	COL1A1	5829	PXN	L
1277	COL1A1	6678	SPARC	L
1277	COL1A1	7045	TGFBI	L
1277	COL1A1	7057	THBS1	L
1277	COL1A1	7295	TXN	L
1277	COL1A1	7450	VWF	L
1277	COL1A1	22918	C1QR1	L
1277	COL1A1	164656	TMPRSS6	L
1278	COL1A2	1634	DCN	L
1278	COL1A2	2335	FN1	L
1278	COL1A2	3673	ITGA2	L
1278	COL1A2	3674	ITGA2B	L
1278	COL1A2	4060	LUM	L
1278	COL1A2	4318	MMP9	L
1278	COL1A2	5034	P4HB	L
1278	COL1A2	5829	PXN	L
1278	COL1A2	6678	SPARC	L
1278	COL1A2	7045	TGFBI	L
1278	COL1A2	7450	VWF	L
1278	COL1A2	22918	C1QR1	L
1278	COL1A2	50509	COL5A3	L
1280	COL2A1	1291	COL6A1	L
1280	COL2A1	1298	COL9A2	L
1280	COL2A1	1299	COL9A3	L
1280	COL2A1	1311	COMP	L
1280	COL2A1	1634	DCN	L
1280	COL2A1	2252	FGF7	L
1280	COL2A1	2335	FN1	L
1280	COL2A1	3674	ITGA2B	L
1280	COL2A1	4099	MAG	L
1280	COL2A1	4146	MATN1	L
1280	COL2A1	5310	PKD1	L
1280	COL2A1	5549	PRELP	L
1280	COL2A1	6678	SPARC	L
1280	COL2A1	7040	TGFB1	L
1280	COL2A1	7045	TGFBI	L
1280	COL2A1	7057	THBS1	L
1280	COL2A1	8797	TNFRSF10A	L
1280	COL2A1	84171	LOXL4	L
1281	COL3A1	2252	FGF7	L
1281	COL3A1	4099	MAG	L

1281	COL3A1	4921	DDR2	L
1281	COL3A1	6678	SPARC	L
1281	COL3A1	7057	THBS1	L
1282	COL4A1	1284	COL4A2	L
1282	COL4A1	1294	COL7A1	L
1282	COL4A1	1634	DCN	L
1282	COL4A1	2199	FBLN2	L
1282	COL4A1	3026	HABP2	L
1282	COL4A1	4147	MATN2	L
1282	COL4A1	4318	MMP9	L
1282	COL4A1	5008	OSM	L
1282	COL4A1	5270	SERPINE2	L
1282	COL4A1	5829	PXN	L
1282	COL4A1	6288	SAA1	L
1282	COL4A1	7045	TGFBI	L
1282	COL4A1	22918	C1QR1	L
1284	COL4A2	1634	DCN	L
1284	COL4A2	2199	FBLN2	L
1284	COL4A2	3026	HABP2	L
1284	COL4A2	4147	MATN2	L
1284	COL4A2	4318	MMP9	L
1284	COL4A2	5008	OSM	L
1284	COL4A2	5270	SERPINE2	L
1284	COL4A2	6288	SAA1	L
1284	COL4A2	6498	SKIL	L
1284	COL4A2	7045	TGFBI	L
1284	COL4A2	22918	C1QR1	L
1284	COL4A2	55603	FAM46A	L
1284	COL4A2	55729	ATF7IP	L
1284	COL4A2	118429	ANTXR2	L
1285	COL4A3	1634	DCN	L
1285	COL4A3	2199	FBLN2	L
1285	COL4A3	2335	FN1	L
1285	COL4A3	3026	HABP2	L
1285	COL4A3	4147	MATN2	L
1285	COL4A3	4237	MFAP2	L
1285	COL4A3	4318	MMP9	L
1285	COL4A3	5008	OSM	L
1285	COL4A3	5270	SERPINE2	L
1285	COL4A3	6288	SAA1	L
1285	COL4A3	7045	TGFBI	L
1285	COL4A3	7399	USH2A	L
1285	COL4A3	10087	COL4A3BP	L
1285	COL4A3	22918	C1QR1	L
1285	COL4A3	118429	ANTXR2	L
1286	COL4A4	1634	DCN	L
1286	COL4A4	2199	FBLN2	L
1286	COL4A4	2335	FN1	L
1286	COL4A4	3026	HABP2	L
1286	COL4A4	4147	MATN2	L
1286	COL4A4	4318	MMP9	L
1286	COL4A4	5008	OSM	L
1286	COL4A4	5270	SERPINE2	L
1286	COL4A4	6288	SAA1	L
1286	COL4A4	7045	TGFBI	L
1286	COL4A4	22918	C1QR1	L
1286	COL4A4	118429	ANTXR2	L
1287	COL4A5	1634	DCN	L
1287	COL4A5	2199	FBLN2	L
1287	COL4A5	2335	FN1	L
1287	COL4A5	3026	HABP2	L
1287	COL4A5	4147	MATN2	L
1287	COL4A5	4318	MMP9	L
1287	COL4A5	5008	OSM	L
1287	COL4A5	5270	SERPINE2	L
1287	COL4A5	9921	RNF10	S
1287	COL4A5	22918	C1QR1	L

1288	COL4A6	1634	DCN	L
1288	COL4A6	2199	FBLN2	L
1288	COL4A6	2335	FN1	L
1288	COL4A6	4147	MATN2	L
1288	COL4A6	4318	MMP9	L
1288	COL4A6	5008	OSM	L
1288	COL4A6	5270	SERPINE2	L
1288	COL4A6	22918	C1QR1	L
1289	COL5A1	3959	LGALS3BP	L
1289	COL5A1	5829	PXN	L
1289	COL5A1	7057	THBS1	L
1289	COL5A1	9672	SDC3	L
1289	COL5A1	50509	COL5A3	L
1290	COL5A2	5829	PXN	L
1290	COL5A2	7094	TLN1	L
1291	COL6A1	3912	LAMB1	L
1291	COL6A1	3959	LGALS3BP	L
1291	COL6A1	5829	PXN	L
1292	COL6A2	5825	ABCD3	L
1292	COL6A2	5829	PXN	L
1294	COL7A1	2335	FN1	L
1294	COL7A1	3312	HSPA8	S
1294	COL7A1	3911	LAMA5	L
1294	COL7A1	3914	LAMB3	L
1294	COL7A1	3918	LAMC2	L
1294	COL7A1	4313	MMP2	L
1294	COL7A1	7057	THBS1	L
1294	COL7A1	25827	FBXL2	S
1294	COL7A1	29066	ZC3H7A	S
1294	COL7A1	92799	SHKBP1	S
1295	COL8A1	1296	COL8A2	L
1295	COL8A1	3672	ITGA1	L
1295	COL8A1	3673	ITGA2	L
1295	COL8A1	5829	PXN	L
1295	COL8A1	7414	VCL	L
1295	COL8A1	30008	EFEMP2	R
1295	COL8A1	59349	KLHL12	R
1295	COL8A1	83755	KRTAP4-12	R
1297	COL9A1	4099	MAG	L
1298	COL9A2	4099	MAG	L
1298	COL9A2	9001	HAP1	S
1298	COL9A2	9638	FEZ1	S
1298	COL9A2	84273	C4orf14	S
1299	COL9A3	4099	MAG	L
1300	COL10A1	5034	P4HB	L
1303	COL12A1	5829	PXN	L
1303	COL12A1	7094	TLN1	L
1305	COL13A1	2335	FN1	L
1305	COL13A1	3339	HSPG2	L
1305	COL13A1	3672	ITGA1	L
1305	COL13A1	4811	NID1	L
1305	COL13A1	6678	SPARC	L
1305	COL13A1	22795	NID2	L
1308	COL17A1	1500	CTNND1	L
1308	COL17A1	3655	ITGA6	L
1308	COL17A1	3691	ITGB4	L
1308	COL17A1	3875	KRT18	L
1308	COL17A1	3898	LAD1	L
1308	COL17A1	5493	PPL	L
1312	COMT	1636	ACE	L
1312	COMT	9319	TRIP13	R
1312	COMT	9516	LITAF	S
1312	COMT	22803	XRN2	L
1314	COPA	5159	PDGFRB	L
1314	COPA	8402	SLC25A11	S
1314	COPA	9482	STX8	L
1314	COPA	11316	COPE	S

1314	COPA	55738	ARFGAP1	L
1315	COPB	3135	HLA-G	L
1315	COPB	3777	KCNK3	L
1315	COPB	4591	TRIM37	R
1315	COPB	5159	PDGFRB	L
1315	COPB	5581	PRKCE	L
1315	COPB	5997	RGS2	L
1315	COPB	5999	RGS4	L
1315	COPB	6892	TAPBP	L
1315	COPB	8615	VDP	L
1315	COPB	8728	ADAM19	L
1315	COPB	10945	KDELR1	L
1315	COPB	22820	COPG	L
1315	COPB	23433	RHOQ	L
1315	COPB	26958	COPG2	L
1316	KLF6	1952	CELSR2	S
1316	KLF6	2975	GTF3C1	S
1316	KLF6	6667	SP1	L
1316	KLF6	9314	KLF4	L
1316	KLF6	10919	EHMT2	R
1316	KLF6	23649	POLA2	S
1316	KLF6	55937	APOM	S
1316	KLF6	56902	LOC56902	S
1325	CORT	2693	GHSR	L
1325	CORT	6751	SSTR1	L
1325	CORT	6752	SSTR2	L
1325	CORT	6753	SSTR3	L
1325	CORT	6754	SSTR4	L
1325	CORT	6755	SSTR5	L
1325	CORT	117194	MRGPRX2	L
1326	MAP3K8	4790	NFKB1	L
1326	MAP3K8	6416	MAP2K4	L
1326	MAP3K8	7186	TRAF2	L
1326	MAP3K8	9020	MAP3K14	L
1345	COX6C	5764	PTN	S
1356	CP	2512	FTL	L
1356	CP	2520	GAST	L
1356	CP	4057	LTF	L
1356	CP	5624	PROC	L
1361	CPB2	5340	PLG	L
1361	CPB2	5858	PZP	L
1361	CPB2	7056	THBD	L
1363	CPE	2641	GCG	L
1363	CPE	2975	GTF3C1	S
1363	CPE	4922	NTS	L
1363	CPE	5367	PMCH	L
1363	CPE	6092	ROBO2	S
1363	CPE	6117	RPA1	S
1363	CPE	10813	UTP14A	S
1363	CPE	23649	POLA2	S
1363	CPE	26073	POLDIP2	S
1363	CPE	51003	MED31	S
1363	CPE	55791	C1orf103	S
1364	CLDN4	7082	TJP1	L
1365	CLDN3	7082	TJP1	L
1365	CLDN3	7122	CLDN5	L
1365	CLDN3	9076	CLDN1	L
1366	CLDN7	7082	TJP1	L
1366	CLDN7	84528	PEPP-2	R
1371	CPOX	6622	SNCA	L
1378	CR1	1380	CR2	L
1378	CR1	1604	DAF	L
1378	CR1	2526	FUT4	L
1380	CR2	2208	FCER2	L
1380	CR2	3192	HNRPU	L
1380	CR2	3439	IFNA1	L
1380	CR2	7157	TP53	L

1380	CR2	8519	IFITM1	L
1381	CRABP1	4356	MPP3	S
1385	CREB1	1387	CREBBP	L
1385	CREB1	1390	CREM	L
1385	CREB1	1432	MAPK14	L
1385	CREB1	2736	GLI2	L
1385	CREB1	2908	NR3C1	L
1385	CREB1	2963	GTF2F2	L
1385	CREB1	3651	IPF1	L
1385	CREB1	5861	RAB1A	S
1385	CREB1	7431	VIM	S
1385	CREB1	7528	YY1	L
1385	CREB1	8721	EDF1	L
1385	CREB1	8986	RPS6KA4	L
1385	CREB1	9400	RECQL5	S
1385	CREB1	9457	FHL5	L
1385	CREB1	10524	HTATIP	L
1385	CREB1	11161	C14orf1	S
1385	CREB1	30818	CSEN	L
1385	CREB1	79803	HPS6	S
1386	ATF2	1432	MAPK14	L
1386	ATF2	1457	CSNK2A1	L
1386	ATF2	1459	CSNK2A2	L
1386	ATF2	1649	DDIT3	L
1386	ATF2	2353	FOS	L
1386	ATF2	2354	FOSB	L
1386	ATF2	2355	FOSL2	L
1386	ATF2	2963	GTF2F2	L
1386	ATF2	3159	HMGA1	L
1386	ATF2	3725	JUN	L
1386	ATF2	3726	JUNB	L
1386	ATF2	3727	JUND	L
1386	ATF2	4088	SMAD3	L
1386	ATF2	4089	SMAD4	L
1386	ATF2	5599	MAPK8	L
1386	ATF2	5603	MAPK13	L
1386	ATF2	5925	RB1	L
1386	ATF2	7329	UBE2I	L
1386	ATF2	7528	YY1	L
1386	ATF2	8061	FOSL1	L
1386	ATF2	8550	MAPKAPK5	L
1386	ATF2	8721	EDF1	L
1386	ATF2	9586	CREB5	L
1386	ATF2	10538	BATF	L
1386	ATF2	11016	ATF7	L
1386	ATF2	55509	SNFT	L
1387	CREBBP	1445	CSK	L
1387	CREBBP	1457	CSNK2A1	L
1387	CREBBP	1459	CSNK2A2	L
1387	CREBBP	1523	CUTL1	L
1387	CREBBP	1655	DDX5	L
1387	CREBBP	1879	EBF	L
1387	CREBBP	1958	EGR1	L
1387	CREBBP	2122	EVI1	L
1387	CREBBP	2130	EWSR1	L
1387	CREBBP	2308	FOXO1A	L
1387	CREBBP	2908	NR3C1	L
1387	CREBBP	3064	HD	L
1387	CREBBP	3091	HIF1A	L
1387	CREBBP	3172	HNF4A	L
1387	CREBBP	3175	ONECUT1	L
1387	CREBBP	3217	HOXB7	L
1387	CREBBP	3297	HSF1	L
1387	CREBBP	3661	IRF3	L
1387	CREBBP	3725	JUN	L
1387	CREBBP	4087	SMAD2	L
1387	CREBBP	4094	MAF	L

1387	CREBBP	4097	MAFG	L
1387	CREBBP	4255	MGMT	L
1387	CREBBP	4297	MLL	L
1387	CREBBP	4303	MLLT7	L
1387	CREBBP	4435	CITED1	L
1387	CREBBP	4487	MSX1	L
1387	CREBBP	4602	MYB	L
1387	CREBBP	4605	MYBL2	L
1387	CREBBP	4654	MYOD1	L
1387	CREBBP	4762	NEUROG1	L
1387	CREBBP	4773	NFATC2	L
1387	CREBBP	4776	NFATC4	L
1387	CREBBP	4780	NFE2L2	L
1387	CREBBP	4928	NUP98	L
1387	CREBBP	5371	PML	L
1387	CREBBP	5430	POLR2A	L
1387	CREBBP	5629	PROX1	L
1387	CREBBP	5757	PTMA	L
1387	CREBBP	5928	RBBP4	L
1387	CREBBP	5970	RELA	L
1387	CREBBP	6195	RPS6KA1	L
1387	CREBBP	6197	RPS6KA3	L
1387	CREBBP	6721	SREBF2	L
1387	CREBBP	6772	STAT1	L
1387	CREBBP	6773	STAT2	L
1387	CREBBP	6778	STAT6	L
1387	CREBBP	6927	TCF1	L
1387	CREBBP	6929	TCF3	L
1387	CREBBP	6996	TDG	L
1387	CREBBP	7157	TP53	L
1387	CREBBP	7533	YWHAH	L
1387	CREBBP	8092	CART1	L
1387	CREBBP	8202	NCOA3	L
1387	CREBBP	8648	NCOA1	L
1387	CREBBP	8850	PCAF	L
1387	CREBBP	8932	MBD2	L
1387	CREBBP	9314	KLF4	L
1387	CREBBP	9325	TRIP4	L
1387	CREBBP	9794	MAML1	L
1387	CREBBP	10370	CITED2	L
1387	CREBBP	10657	KHDRBS1	L
1387	CREBBP	26039	SS18L1	L
1387	CREBBP	27043	PELP1	L
1387	CREBBP	28996	HIPK2	L
1387	CREBBP	55728	N4BP2	L
1387	CREBBP	55809	TRERF1	L
1387	CREBBP	79753	SNIP1	L
1388	CREBL1	4802	NFYC	L
1388	CREBL1	8720	MBTPS1	L
1388	CREBL1	51360	MBTPS2	L
1390	CREM	3725	JUN	L
1390	CREM	4783	NFIL3	L
1390	CREM	6688	SPI1	L
1390	CREM	6874	TAF4	L
1390	CREM	6908	TBP	L
1390	CREM	9457	FHL5	L
1390	CREM	30818	CSEN	L
1390	CREM	84699	CREB3L3	L
1390	CREM	90993	CREB3L1	L
1392	CRH	1394	CRHR1	L
1392	CRH	1395	CRHR2	L
1393	CRHBP	7349	UCN	L
1394	CRHR1	2770	GNAI1	L
1394	CRHR1	2775	GNAO1	L
1394	CRHR1	2776	GNAQ	L
1394	CRHR1	2778	GNAS	L
1395	CRHR2	7349	UCN	L

1396	CRIP1	6457	SH3GL3	S
1396	CRIP1	9001	HAP1	S
1396	CRIP1	9737	GPRASP1	S
1397	CRIP2	6722	SRF	L
1398	CRK	1399	CRKL	L
1398	CRK	1795	DOCK3	L
1398	CRK	2042	EPHA3	L
1398	CRK	2049	EPHB3	L
1398	CRK	2060	EPS15	L
1398	CRK	2185	PTK2B	L
1398	CRK	2549	GAB1	L
1398	CRK	5156	PDGFRA	L
1398	CRK	5159	PDGFRB	L
1398	CRK	5359	PLSCR1	R
1398	CRK	5599	MAPK8	L
1398	CRK	5706	PSMC6	R
1398	CRK	5829	PXN	L
1398	CRK	6461	SHB	L
1398	CRK	6853	SYN1	L
1398	CRK	7465	WEE1	L
1398	CRK	7514	XPO1	L
1398	CRK	7535	ZAP70	L
1398	CRK	8471	IRS4	L
1398	CRK	11183	MAP4K5	L
1398	CRK	11184	MAP4K1	L
1398	CRK	23616	SH3BP1	L
1398	CRK	23624	CBLC	L
1398	CRK	55211	DPPA4	R
1398	CRK	80725	SNIP	L
1399	CRKL	1794	DOCK2	L
1399	CRKL	1796	DOK1	L
1399	CRKL	2057	EPOR	L
1399	CRKL	2209	FCGR1A	L
1399	CRKL	2549	GAB1	L
1399	CRKL	2885	GRB2	L
1399	CRKL	3454	IFNAR1	L
1399	CRKL	3815	KIT	L
1399	CRKL	5156	PDGFRA	L
1399	CRKL	5295	PIK3R1	L
1399	CRKL	5296	PIK3R2	L
1399	CRKL	5829	PXN	L
1399	CRKL	6464	SHC1	L
1399	CRKL	6654	SOS1	L
1399	CRKL	6776	STAT5A	L
1399	CRKL	6850	SYK	L
1399	CRKL	7041	TGFB111	L
1399	CRKL	7297	TYK2	L
1399	CRKL	7454	WAS	L
1399	CRKL	8471	IRS4	L
1399	CRKL	9564	BCAR1	L
1399	CRKL	11183	MAP4K5	L
1399	CRKL	11184	MAP4K1	L
1399	CRKL	29760	BLNK	L
1399	CRKL	51466	EVL	L
1400	CRMP1	1808	DPYSL2	L
1400	CRMP1	1936	EEF1D	S
1400	CRMP1	2495	FTH1	S
1400	CRMP1	3146	HMGB1	S
1400	CRMP1	3187	HNRPH1	S
1400	CRMP1	3189	HNRPH3	S
1400	CRMP1	3336	HSPE1	S
1400	CRMP1	4729	NDUFV2	S
1400	CRMP1	4931	NVL	S
1400	CRMP1	5050	PAFAH1B3	S
1400	CRMP1	5216	PFN1	S
1400	CRMP1	5272	SERPINB9	S
1400	CRMP1	5320	PLA2G2A	S

1400	CRMP1	5511	PPP1R8	S
1400	CRMP1	5717	PSMD11	S
1400	CRMP1	5863	RGL2	S
1400	CRMP1	6093	ROCK1	L
1400	CRMP1	6118	RPA2	S
1400	CRMP1	6183	MRPS12	S
1400	CRMP1	6303	SAT	S
1400	CRMP1	6362	CCL18	S
1400	CRMP1	6637	SNRPG	S
1400	CRMP1	7083	TK1	S
1400	CRMP1	7320	UBE2B	S
1400	CRMP1	7572	ZNF24	S
1400	CRMP1	8087	FXR1	S
1400	CRMP1	8312	AXIN1	S
1400	CRMP1	8880	FUBP1	S
1400	CRMP1	8886	DDX18	S
1400	CRMP1	8888	MCM3AP	S
1400	CRMP1	8894	EIF2S2	S
1400	CRMP1	9319	TRIP13	S
1400	CRMP1	10342	TFG	S
1400	CRMP1	10551	AGR2	S
1400	CRMP1	10574	CCT7	S
1400	CRMP1	11100	HNRPUL1	S
1400	CRMP1	11243	PMF1	S
1400	CRMP1	22929	SEPHS1	S
1400	CRMP1	25843	PREI3	S
1400	CRMP1	26151	NAT9	S
1400	CRMP1	27252	KLHL20	S
1400	CRMP1	29903	HSU79303	S
1400	CRMP1	29924	EPN1	S
1400	CRMP1	54622	ARFRP2	S
1400	CRMP1	55227	LRRC1	S
1400	CRMP1	55643	BTBD2	S
1400	CRMP1	55755	CDK5RAP2	S
1400	CRMP1	57142	RTN4	S
1400	CRMP1	57819	LSM2	S
1400	CRMP1	79756	(null)	S
1400	CRMP1	80279	CDK5RAP3	S
1400	CRMP1	90865	C9orf26	S
1400	CRMP1	307255	(null)	S
1401	CRP	2209	FCGR1A	L
1401	CRP	2212	FCGR2A	L
1401	CRP	2213	FCGR2B	L
1401	CRP	2335	FN1	L
1401	CRP	3075	CFH	L
1401	CRP	6625	SNRP70	L
1404	HAPLN1	1462	CSPG2	L
1406	CRX	4188	MDFI	R
1406	CRX	4901	NRL	L
1406	CRX	6314	ATXN7	L
1406	CRX	130951	LOC130951	R
1407	CRY1	1454	CSNK1E	L
1407	CRY1	4188	MDFI	R
1407	CRY1	5187	PER1	L
1407	CRY1	5359	PLSCR1	R
1407	CRY1	7186	TRAF2	R
1407	CRY1	8863	PER3	L
1407	CRY1	8864	PER2	L
1407	CRY1	8914	TIMELESS	L
1407	CRY1	83755	KRTAP4-12	R
1408	CRY2	5187	PER1	L
1408	CRY2	5536	PPP5C	L
1408	CRY2	8864	PER2	L
1409	CRYAA	1410	CRYAB	L
1409	CRYAA	1415	CRYBB2	L
1409	CRYAA	1420	CRYGC	L
1409	CRYAA	1429	CRYZ	L

1409	CRYAA	1431	CS	L
1409	CRYAA	3315	HSPB1	L
1409	CRYAA	3906	LALBA	L
1409	CRYAA	4284	MIP	L
1410	CRYAB	1415	CRYBB2	L
1410	CRYAB	1420	CRYGC	L
1410	CRYAB	1431	CS	L
1410	CRYAB	3315	HSPB1	L
1410	CRYAB	5684	PSMA3	L
1412	CRYBA2	57658	CALCOCO1	R
1414	CRYBB1	6833	ABCC8	L
1415	CRYBB2	1420	CRYGC	L
1415	CRYBB2	3315	HSPB1	L
1420	CRYGC	3315	HSPB1	L
1431	CS	4191	MDH2	L
1431	CS	8655	DNCL1	L
1432	MAPK14	1459	CSNK2A2	L
1432	MAPK14	1649	DDIT3	L
1432	MAPK14	1843	DUSP1	L
1432	MAPK14	1844	DUSP2	L
1432	MAPK14	1846	DUSP4	L
1432	MAPK14	2002	ELK1	L
1432	MAPK14	2316	FLNA	L
1432	MAPK14	2764	GMFB	L
1432	MAPK14	2885	GRB2	L
1432	MAPK14	3875	KRT18	L
1432	MAPK14	4092	SMAD7	L
1432	MAPK14	4141	MARS	L
1432	MAPK14	4205	MEF2A	L
1432	MAPK14	4208	MEF2C	L
1432	MAPK14	5371	PML	L
1432	MAPK14	5594	MAPK1	L
1432	MAPK14	5595	MAPK3	L
1432	MAPK14	5604	MAP2K1	L
1432	MAPK14	5606	MAP2K3	L
1432	MAPK14	5608	MAP2K6	L
1432	MAPK14	5778	PTPN7	L
1432	MAPK14	6416	MAP2K4	L
1432	MAPK14	7867	MAPKAPK3	L
1432	MAPK14	8569	MKNK1	L
1432	MAPK14	8986	RPS6KA4	L
1432	MAPK14	9043	SPAG9	L
1432	MAPK14	9149	DYRK1B	L
1432	MAPK14	9255	SCYE1	L
1432	MAPK14	9261	MAPKAPK2	L
1432	MAPK14	10454	MAP3K7IP1	L
1432	MAPK14	23770	FKBP8	S
1432	MAPK14	27347	STK39	L
1432	MAPK14	27429	HTRA2	L
1432	MAPK14	80824	DUSP16	L
1434	CSE1L	3191	HNRPL	S
1434	CSE1L	5536	PPP5C	S
1434	CSE1L	5901	RAN	L
1434	CSE1L	6146	RPL22	S
1434	CSE1L	23633	KPNA6	L
1434	CSE1L	80021	TMEM62	S
1435	CSF1	1436	CSF1R	L
1435	CSF1	7124	TNF	L
1435	CSF1	8651	SOCS1	L
1435	CSF1	139716	GAB3	L
1436	CSF1R	2534	FYN	L
1436	CSF1R	2885	GRB2	L
1436	CSF1R	4067	LYN	L
1436	CSF1R	5295	PIK3R1	L
1436	CSF1R	5296	PIK3R2	L
1436	CSF1R	5921	RASA1	L
1436	CSF1R	7525	YES1	L

1436	CSF1R	8651	SOCS1	L
1436	CSF1R	9021	SOCS3	L
1436	CSF1R	9402	GRAP2	L
1437	CSF2	1438	CSF2RA	L
1437	CSF2	1439	CSF2RB	L
1437	CSF2	1441	CSF3R	L
1437	CSF2	4254	KITLG	L
1437	CSF2	5553	PRG2	L
1437	CSF2	6383	SDC2	L
1438	CSF2RA	1439	CSF2RB	L
1438	CSF2RA	5295	PIK3R1	L
1439	CSF2RB	2057	EPOR	L
1439	CSF2RB	3562	IL3	L
1439	CSF2RB	3568	IL5RA	L
1439	CSF2RB	4067	LYN	L
1439	CSF2RB	4085	MAD2L1	L
1439	CSF2RB	5777	PTPN6	L
1439	CSF2RB	5781	PTPN11	L
1439	CSF2RB	6464	SHC1	L
1439	CSF2RB	7534	YWHAZ	L
1439	CSF2RB	10399	GNB2L1	L
1440	CSF3	1441	CSF3R	L
1441	CSF3R	2885	GRB2	L
1441	CSF3R	3055	HCK	L
1441	CSF3R	3716	JAK1	L
1441	CSF3R	3717	JAK2	L
1441	CSF3R	4067	LYN	L
1441	CSF3R	5781	PTPN11	L
1441	CSF3R	6464	SHC1	L
1441	CSF3R	6850	SYK	L
1442	CSH1	4087	SMAD2	L
1442	CSH1	4089	SMAD4	L
1442	CSH1	4093	SMAD9	L
1442	CSH1	5782	PTPN12	L
1443	CSH2	4088	SMAD3	L
1443	CSH2	5430	POLR2A	L
1444	CSHL1	84441	MAML2	L
1445	CSK	1601	DAB2	L
1445	CSK	2534	FYN	L
1445	CSK	3190	HNRPK	L
1445	CSK	3480	IGF1R	L
1445	CSK	3643	INSR	L
1445	CSK	5175	PECAM1	L
1445	CSK	5338	PLD2	L
1445	CSK	5747	PTK2	L
1445	CSK	5782	PTPN12	L
1445	CSK	5829	PXN	L
1445	CSK	5921	RASA1	L
1445	CSK	6464	SHC1	L
1445	CSK	6714	SRC	L
1445	CSK	9672	SDC3	L
1445	CSK	26469	PTPN18	L
1445	CSK	27240	SIT1	L
1445	CSK	55824	PAG1	L
1446	CSN1S1	6789	STK4	L
1446	CSN1S1	84630	TTBK1	L
1447	CSN2	1448	CSN3	L
1447	CSN2	1990	ELA1	L
1447	CSN2	4750	NEK1	L
1448	CSN3	1459	CSNK2A2	L
1452	CSNK1A1	3146	HMGB1	L
1452	CSNK1A1	3148	HMGB2	L
1452	CSNK1A1	3838	KPNA2	L
1452	CSNK1A1	5525	PPP2R5A	L
1452	CSNK1A1	7133	TNFRSF1B	L
1452	CSNK1A1	8312	AXIN1	L
1452	CSNK1A1	8546	AP3B1	L

1452	CSNK1A1	11033	CENTA1	L
1453	CSNK1D	1855	DVL1	L
1453	CSNK1D	1857	DVL3	R
1453	CSNK1D	2697	GJA1	L
1453	CSNK1D	5187	PER1	L
1453	CSNK1D	7157	TP53	L
1453	CSNK1D	8863	PER3	L
1453	CSNK1D	10142	AKAP9	L
1453	CSNK1D	55738	ARFGAP1	L
1454	CSNK1E	1855	DVL1	L
1454	CSNK1E	1856	DVL2	R
1454	CSNK1E	5187	PER1	L
1454	CSNK1E	7157	TP53	L
1454	CSNK1E	8312	AXIN1	L
1454	CSNK1E	8863	PER3	L
1454	CSNK1E	10142	AKAP9	L
1454	CSNK1E	22881	ANKRD6	L
1454	CSNK1E	25788	RAD54B	R
1455	CSNK1G2	4690	NCK1	L
1455	CSNK1G2	10087	COL4A3BP	R
1457	CSNK2A1	1460	CSNK2B	L
1457	CSNK2A1	1649	DDIT3	L
1457	CSNK2A1	1855	DVL1	L
1457	CSNK2A1	1857	DVL3	L
1457	CSNK2A1	1936	EEF1D	L
1457	CSNK2A1	2246	FGF1	L
1457	CSNK2A1	2247	FGF2	L
1457	CSNK2A1	2353	FOS	L
1457	CSNK2A1	2668	GDNF	L
1457	CSNK2A1	2972	BRF1	L
1457	CSNK2A1	3066	HDAC2	L
1457	CSNK2A1	3181	HNRPA2B1	L
1457	CSNK2A1	3660	IRF2	L
1457	CSNK2A1	3725	JUN	L
1457	CSNK2A1	4255	MGMT	L
1457	CSNK2A1	4691	NCL	L
1457	CSNK2A1	5048	PAFAH1B1	L
1457	CSNK2A1	5058	PAK1	L
1457	CSNK2A1	5300	PIN1	L
1457	CSNK2A1	5685	PSMA4	L
1457	CSNK2A1	5970	RELA	L
1457	CSNK2A1	6125	RPL5	L
1457	CSNK2A1	6689	SPIB	L
1457	CSNK2A1	7150	TOP1	L
1457	CSNK2A1	7184	TRA1	L
1457	CSNK2A1	7343	UBTF	L
1457	CSNK2A1	8894	EIF2S2	L
1457	CSNK2A1	9158	FIBP	L
1457	CSNK2A1	10661	KLF1	L
1457	CSNK2A1	11244	ZHX1	S
1459	CSNK2A2	1460	CSNK2B	L
1459	CSNK2A2	2246	FGF1	L
1459	CSNK2A2	2247	FGF2	L
1459	CSNK2A2	2353	FOS	L
1459	CSNK2A2	2668	GDNF	L
1459	CSNK2A2	3320	HSPCA	L
1459	CSNK2A2	5058	PAK1	L
1459	CSNK2A2	5300	PIN1	L
1459	CSNK2A2	7184	TRA1	L
1459	CSNK2A2	10661	KLF1	L
1460	CSNK2B	2246	FGF1	L
1460	CSNK2B	4067	LYN	L
1460	CSNK2B	4528	MTIF2	L
1460	CSNK2B	4687	NCF1	L
1460	CSNK2B	5300	PIN1	L
1460	CSNK2B	5590	PRKCZ	L
1460	CSNK2B	6125	RPL5	L

1460	CSNK2B	6470	SHMT1	L
1460	CSNK2B	6472	SHMT2	L
1460	CSNK2B	7155	TOP2B	L
1460	CSNK2B	7157	TP53	L
1460	CSNK2B	8099	CDK2AP1	L
1460	CSNK2B	8894	EIF2S2	L
1460	CSNK2B	8930	MBD4	L
1460	CSNK2B	9158	FIBP	L
1460	CSNK2B	9221	NOLC1	L
1460	CSNK2B	9332	CD163	L
1460	CSNK2B	9616	RNF7	L
1460	CSNK2B	10467	ZNHIT1	L
1460	CSNK2B	11124	FAF1	L
1460	CSNK2B	90480	GADD45GIP1	L
1462	CSPG2	2192	FBLN1	L
1462	CSPG2	2199	FBLN2	L
1462	CSPG2	2200	FBN1	L
1462	CSPG2	3627	CXCL10	L
1462	CSPG2	3676	ITGA4	L
1462	CSPG2	3688	ITGB1	L
1462	CSPG2	5320	PLA2G2A	L
1462	CSPG2	6347	CCL2	L
1462	CSPG2	6352	CCL5	L
1462	CSPG2	6355	CCL8	L
1462	CSPG2	6364	CCL20	L
1462	CSPG2	6366	CCL21	L
1462	CSPG2	6375	XCL1	L
1462	CSPG2	6403	SELP	L
1462	CSPG2	7143	TNR	L
1463	CSPG3	3146	HMGB1	L
1463	CSPG3	3371	TNC	L
1463	CSPG3	3897	L1CAM	L
1463	CSPG3	4684	NCAM1	L
1463	CSPG3	5764	PTN	L
1463	CSPG3	6900	CNTN2	L
1464	CSPG4	5747	PTK2	L
1464	CSPG4	8777	MPDZ	L
1464	CSPG4	9564	BCAR1	L
1464	CSPG4	10188	TNK2	L
1464	CSPG4	55729	ATF7IP	L
1466	CSRP2	8554	PIAS1	L
1468	SLC25A10	6993	TCTEL1	L
1468	SLC25A10	8655	DNCL1	L
1468	SLC25A10	22924	MAPRE3	L
1468	SLC25A10	83755	KRTAP4-12	R
1471	CST3	1508	CTSB	L
1471	CST3	1520	CTSS	L
1471	CST3	23037	PDZK3	L
1473	CST5	1520	CTSS	L
1475	CSTA	1508	CTSB	L
1475	CSTA	1512	CTSH	L
1475	CSTA	1514	CTSL	L
1475	CSTA	5764	PTN	S
1476	CSTB	1508	CTSB	L
1476	CSTB	1509	CTSD	L
1476	CSTB	1512	CTSH	L
1476	CSTB	1514	CTSL	L
1477	CSTF1	1479	CSTF3	L
1478	CSTF2	1479	CSTF3	L
1478	CSTF2	1653	DDX1	L
1478	CSTF2	1891	ECH1	S
1478	CSTF2	1937	EEF1G	S
1478	CSTF2	7917	BAT3	S
1478	CSTF2	8189	SYMPK	L
1478	CSTF2	8518	IKBKAP	S
1478	CSTF2	9638	FEZ1	S
1478	CSTF2	10524	HTATIP	S

1478	CSTF2	10923	SUB1	L
1478	CSTF2	10989	IMMT	S
1478	CSTF2	11161	C14orf1	S
1478	CSTF2	29979	UBQLN1	R
1478	CSTF2	57562	KIAA1377	S
1482	NKX2-5	2626	GATA4	L
1482	NKX2-5	6722	SRF	L
1482	NKX2-5	6910	TBX5	L
1482	NKX2-5	28996	HIPK2	L
1482	NKX2-5	204851	HIPK1	L
1487	CTBP1	1488	CTBP2	L
1487	CTBP1	2004	ELK3	L
1487	CTBP1	2122	EVI1	L
1487	CTBP1	3064	HD	L
1487	CTBP1	3065	HDAC1	L
1487	CTBP1	3066	HDAC2	L
1487	CTBP1	5925	RB1	L
1487	CTBP1	5932	RBBP8	L
1487	CTBP1	7050	TGIF	L
1487	CTBP1	8204	NRIP1	L
1487	CTBP1	8543	LMO4	L
1487	CTBP1	9734	HDAC9	L
1487	CTBP1	10320	ZNFN1A1	L
1487	CTBP1	23414	ZFPM2	L
1487	CTBP1	64375	ZNFN1A4	L
1488	CTBP2	2275	FHL3	L
1488	CTBP2	6935	TCF8	L
1488	CTBP2	7005	TEAD3	R
1488	CTBP2	7050	TGIF	R
1488	CTBP2	8204	NRIP1	R
1488	CTBP2	8535	CBX4	L
1488	CTBP2	8715	NOL4	R
1488	CTBP2	9491	PSMF1	R
1488	CTBP2	10742	RAI2	R
1488	CTBP2	11279	KLF8	L
1488	CTBP2	23414	ZFPM2	L
1488	CTBP2	29994	BAZ2B	R
1488	CTBP2	55553	SOX6	L
1488	CTBP2	57473	GM632	L
1488	CTBP2	60528	ELAC2	L
1488	CTBP2	64400	FTS	R
1489	CTF1	3572	IL6ST	L
1489	CTF1	3977	LIFR	L
1490	CTGF	2066	ERBB4	L
1490	CTGF	4035	LRP1	L
1490	CTGF	7040	TGFB1	L
1490	CTGF	7042	TGFB2	L
1490	CTGF	7043	TGFB3	L
1490	CTGF	7422	VEGF	L
1493	CTLA4	2534	FYN	L
1493	CTLA4	3717	JAK2	L
1493	CTLA4	3932	LCK	L
1493	CTLA4	4067	LYN	L
1493	CTLA4	5295	PIK3R1	L
1493	CTLA4	5525	PPP2R5A	L
1493	CTLA4	5781	PTPN11	L
1493	CTLA4	8907	AP1M1	L
1495	CTNNA1	1499	CTNNB1	L
1495	CTNNA1	1739	DLG1	L
1495	CTNNA1	3728	JUP	L
1495	CTNNA1	4301	MLLT4	L
1495	CTNNA1	5663	PSEN1	L
1495	CTNNA1	6709	SPTAN1	L
1495	CTNNA1	7414	VCL	L
1495	CTNNA1	9414	TJP2	L
1495	CTNNA1	55591	VEZATIN	L
1495	CTNNA1	157638	FAM84B	L

1499	CTNNB1	1739	DLG1	L
1499	CTNNB1	1825	DSC3	L
1499	CTNNB1	1855	DVL1	L
1499	CTNNB1	1857	DVL3	L
1499	CTNNB1	1956	EGFR	L
1499	CTNNB1	2064	ERBB2	L
1499	CTNNB1	2274	FHL2	L
1499	CTNNB1	2494	NR5A2	L
1499	CTNNB1	2516	NR5A1	L
1499	CTNNB1	2898	GRIK2	L
1499	CTNNB1	3551	IKBKB	L
1499	CTNNB1	4087	SMAD2	L
1499	CTNNB1	4088	SMAD3	L
1499	CTNNB1	4089	SMAD4	L
1499	CTNNB1	4582	MUC1	L
1499	CTNNB1	5175	PECAM1	L
1499	CTNNB1	5295	PIK3R1	L
1499	CTNNB1	5300	PIN1	L
1499	CTNNB1	5310	PKD1	L
1499	CTNNB1	5318	PKP2	L
1499	CTNNB1	5663	PSEN1	L
1499	CTNNB1	5770	PTPN1	L
1499	CTNNB1	5784	PTPN14	L
1499	CTNNB1	5787	PTPRB	L
1499	CTNNB1	5792	PTPRF	L
1499	CTNNB1	5795	PTPRJ	L
1499	CTNNB1	5796	PTPRK	L
1499	CTNNB1	5803	PTPRZ1	L
1499	CTNNB1	6597	SMARCA4	L
1499	CTNNB1	6907	TBL1X	L
1499	CTNNB1	6925	TCF4	L
1499	CTNNB1	6927	TCF1	L
1499	CTNNB1	6929	TCF3	L
1499	CTNNB1	6934	TCF7L2	L
1499	CTNNB1	7046	TGFBR1	L
1499	CTNNB1	7430	VIL2	L
1499	CTNNB1	8239	USP9X	L
1499	CTNNB1	8312	AXIN1	L
1499	CTNNB1	8313	AXIN2	L
1499	CTNNB1	8607	RUVBL1	L
1499	CTNNB1	8826	IQGAP1	L
1499	CTNNB1	8851	CDK5R1	L
1499	CTNNB1	8945	BTRC	L
1499	CTNNB1	9223	MAG1	L
1499	CTNNB1	9231	DLG5	L
1499	CTNNB1	9368	SLC9A3R1	L
1499	CTNNB1	9372	ZFYVE9	L
1499	CTNNB1	10076	PTPRU	L
1499	CTNNB1	10297	APC2	L
1499	CTNNB1	10672	GNA13	L
1499	CTNNB1	25776	PGEA1	L
1499	CTNNB1	25794	FSCN2	L
1499	CTNNB1	26108	PYGO1	L
1499	CTNNB1	29119	CTNNA3	L
1499	CTNNB1	50649	ARHGEF4	L
1499	CTNNB1	51176	LEF1	L
1499	CTNNB1	55591	VEZATIN	L
1499	CTNNB1	56998	CTNNBIP1	L
1499	CTNNB1	83439	TCF7L1	L
1500	CTNND1	2017	CTTN	L
1500	CTNND1	2241	FER	L
1500	CTNND1	2898	GRIK2	L
1500	CTNND1	4582	MUC1	L
1500	CTNND1	5777	PTPN6	L
1500	CTNND1	5795	PTPRJ	L
1500	CTNND1	5797	PTPRM	L
1500	CTNND1	10009	ZBTB33	L

1500	CTNND1	55914	ERBB2IP	L
1501	CTNND2	2017	CTTN	L
1501	CTNND2	2534	FYN	L
1501	CTNND2	3932	LCK	L
1501	CTNND2	5663	PSEN1	L
1501	CTNND2	5664	PSEN2	L
1501	CTNND2	23037	PDZK3	L
1501	CTNND2	55914	ERBB2IP	L
1501	CTNND2	57554	LRRC7	L
1504	CTRB1	5265	SERPINA1	L
1504	CTRB1	5345	SERPINF2	L
1508	CTSB	4082	MARCKS	L
1508	CTSB	5275	SERPINB13	L
1508	CTSB	5997	RGS2	S
1508	CTSB	6281	S100A10	L
1508	CTSB	7917	BAT3	S
1508	CTSB	8530	CST7	L
1509	CTSD	2335	FN1	L
1509	CTSD	5660	PSAP	L
1510	CTSE	7917	BAT3	S
1510	CTSE	10436	C2F	S
1511	CTSG	2151	F2RL2	L
1511	CTSG	2153	F5	L
1511	CTSG	2811	GP1BA	L
1511	CTSG	3827	KNG1	L
1511	CTSG	4035	LRP1	L
1511	CTSG	5275	SERPINB13	L
1511	CTSG	5473	PPBP	L
1511	CTSG	6382	SDC1	L
1511	CTSG	7057	THBS1	L
1513	CTSK	2261	FGFR3	S
1513	CTSK	5275	SERPINB13	L
1513	CTSK	6317	SERPINB3	L
1514	CTSL	3827	KNG1	L
1514	CTSL	5275	SERPINB13	L
1514	CTSL	6256	RXRA	L
1514	CTSL	6317	SERPINB3	L
1514	CTSL	8530	CST7	L
1514	CTSL	80781	COL18A1	L
1520	CTSS	3827	KNG1	L
1520	CTSS	5335	PLCG1	L
1520	CTSS	6317	SERPINB3	L
1520	CTSS	6318	SERPINB4	L
1523	CUTL1	5925	RB1	L
1523	CUTL1	6304	SATB1	L
1523	CUTL1	8850	PCAF	L
1523	CUTL1	9400	RECQL5	S
1523	CUTL1	9672	SDC3	L
1523	CUTL1	60528	ELAC2	S
1524	CX3CR1	6376	CX3CL1	L
1525	CXADR	2130	EWSR1	R
1527	CXorf2	2059	EPS8	R
1528	CYB5	1543	CYP1A1	L
1528	CYB5	1727	CYB5R3	L
1528	CYB5	6319	SCD	L
1528	CYB5	54205	CYCS	L
1535	CYBA	1536	CYBB	L
1535	CYBA	4687	NCF1	L
1535	CYBA	4688	NCF2	L
1535	CYBA	5879	RAC1	L
1536	CYBB	4688	NCF2	L
1537	CYC1	7386	UQCRRS1	L
1537	CYC1	54205	CYCS	L
1544	CYP1A2	5447	POR	L
1557	CYP2C19	5447	POR	L
1559	CYP2C9	5447	POR	L
1583	CYP11A1	1585	CYP11B2	L

1583	CYP11A1	2230	FDX1	L
1583	CYP11A1	4087	SMAD2	L
1583	CYP11A1	4088	SMAD3	L
1583	CYP11A1	4093	SMAD9	L
1584	CYP11B1	1585	CYP11B2	L
1585	CYP11B2	2230	FDX1	L
1586	CYP17A1	5447	POR	L
1588	CYP19A1	2189	FANCG	L
1600	DAB1	3949	LDLR	L
1600	DAB1	4035	LRP1	L
1600	DAB1	4036	LRP2	L
1600	DAB1	5048	PAFAH1B1	L
1600	DAB1	6477	SIAH1	L
1600	DAB1	7436	VLDLR	L
1600	DAB1	7804	LRP8	L
1600	DAB1	153090	DAB2IP	L
1601	DAB2	1857	DVL3	L
1601	DAB2	2268	FGR	L
1601	DAB2	2885	GRB2	L
1601	DAB2	4036	LRP2	L
1601	DAB2	4087	SMAD2	L
1601	DAB2	4088	SMAD3	L
1601	DAB2	4646	MYO6	L
1601	DAB2	5300	PIN1	L
1601	DAB2	6714	SRC	L
1601	DAB2	7046	TGFBR1	L
1601	DAB2	7048	TGFBR2	L
1601	DAB2	23181	C21orf106	L
1601	DAB2	57534	MIB1	L
1601	DAB2	64750	SMURF2	L
1602	DACH1	7329	UBE2I	R
1602	DACH1	55577	NAGK	R
1604	DAF	2534	FYN	L
1604	DAF	2822	GPLD1	L
1604	DAF	3932	LCK	L
1605	DAG1	1756	DMD	L
1605	DAG1	2885	GRB2	L
1605	DAG1	3908	LAMA2	L
1605	DAG1	3911	LAMA5	L
1605	DAG1	5913	RAPSN	L
1605	DAG1	6464	SHC1	L
1605	DAG1	7402	UTRN	L
1605	DAG1	9215	LARGE	L
1606	DGKA	59067	IL21	L
1611	DAP	1742	DLG4	L
1611	DAP	7132	TNFRSF1A	L
1611	DAP	9869	SETDB1	S
1612	DAPK1	7132	TNFRSF1A	L
1612	DAPK1	7529	YWHAB	L
1612	DAPK1	8717	TRADD	L
1612	DAPK1	8772	FADD	L
1612	DAPK1	57534	MIB1	L
1613	DAPK3	1616	DAXX	L
1613	DAPK3	5590	PRKCZ	L
1613	DAPK3	9002	F2RL3	L
1615	DARS	1915	EEF1A1	L
1615	DARS	3320	HSPCA	L
1615	DARS	7965	JTV1	R
1616	DAXX	2113	ETS1	L
1616	DAXX	3065	HDAC1	L
1616	DAXX	3315	HSPB1	L
1616	DAXX	4217	MAP3K5	L
1616	DAXX	4599	MX1	L
1616	DAXX	5077	PAX3	L
1616	DAXX	5079	PAX5	L
1616	DAXX	5371	PML	L
1616	DAXX	6517	SLC2A4	L

1616	DAXX	7040	TGFB1	L
1616	DAXX	7048	TGFBR2	L
1616	DAXX	7157	TP53	L
1616	DAXX	7329	UBE2I	L
1616	DAXX	7341	SUMO1	L
1616	DAXX	8837	CFLAR	L
1616	DAXX	10445	MCRS1	L
1616	DAXX	28996	HIPK2	L
1616	DAXX	204851	HIPK1	L
1618	DAZL	9802	DAZAP2	L
1618	DAZL	23369	PUM2	L
1618	DAZL	26528	DAZAP1	L
1620	DBC1	10924	SMPDL3A	L
1622	DBI	60490	PPCDC	S
1627	DBN1	9455	HOMER2	L
1627	DBN1	20924	(null)	S
1627	DBN1	23268	DNMBP	L
1627	DBN1	25836	NIPBL	S
1628	DBP	1649	DDIT3	L
1628	DBP	3131	HLF	L
1628	DBP	3725	JUN	L
1628	DBP	7008	TEF	L
1628	DBP	10538	BATF	L
1628	DBP	55509	SNFT	L
1629	DBT	5829	PXN	L
1630	DCC	4150	MAZ	L
1630	DCC	4690	NCK1	L
1630	DCC	5595	MAPK3	L
1630	DCC	6477	SIAH1	L
1630	DCC	6478	SIAH2	L
1630	DCC	9423	NTN1	L
1630	DCC	26060	APPL	L
1633	DCK	11269	DDX19B	S
1633	DCK	51280	GOLPH2	S
1633	DCK	219541	MED19	S
1634	DCN	1956	EGFR	L
1634	DCN	2006	ELN	L
1634	DCN	2200	FBN1	L
1634	DCN	2316	FLNA	L
1634	DCN	2335	FN1	L
1634	DCN	5320	PLA2G2A	L
1634	DCN	6441	SFTPD	L
1634	DCN	7040	TGFB1	L
1634	DCN	7057	THBS1	L
1634	DCN	7124	TNF	L
1634	DCN	7373	COL14A1	L
1635	DCTD	60491	NIF3L1	R
1635	DCTD	79873	NUDT18	R
1635	DCTD	79959	C18orf9	R
1635	DCTD	84708	LNX	R
1638	DCT	7414	VCL	L
1639	DCTN1	1780	DNCI1	L
1639	DCTN1	1781	DNCI2	L
1639	DCTN1	2885	GRB2	L
1639	DCTN1	3064	HD	L
1639	DCTN1	3832	KIF11	L
1639	DCTN1	5048	PAFAH1B1	L
1639	DCTN1	5223	PGAM1	S
1639	DCTN1	6249	RSN	L
1639	DCTN1	7431	VIM	L
1639	DCTN1	23299	BICD2	L
1639	DCTN1	57473	GM632	L
1641	DCX	5048	PAFAH1B1	L
1642	DDB1	1643	DDB2	L
1642	DDB1	8543	LMO4	L
1642	DDB1	9341	VAMP3	S
1643	DDB2	3065	HDAC1	L

1647	GADD45A	2512	FTL	S
1647	GADD45A	4216	MAP3K4	L
1647	GADD45A	4616	GADD45B	L
1647	GADD45A	5111	PCNA	L
1647	GADD45A	5465	PPARA	L
1647	GADD45A	6256	RXRA	L
1647	GADD45A	10540	DCTN2	R
1647	GADD45A	10912	GADD45G	L
1647	GADD45A	90480	GADD45GIP1	L
1649	DDIT3	2353	FOS	L
1649	DDIT3	2354	FOSB	L
1649	DDIT3	2355	FOSL2	L
1649	DDIT3	3131	HLF	L
1649	DDIT3	3725	JUN	L
1649	DDIT3	3727	JUND	L
1649	DDIT3	4097	MAFG	L
1649	DDIT3	4783	NFIL3	L
1649	DDIT3	6189	RPS3A	L
1649	DDIT3	7008	TEF	L
1649	DDIT3	7975	MAFK	L
1649	DDIT3	8061	FOSL1	L
1649	DDIT3	8301	PICALM	L
1649	DDIT3	8405	SPOP	R
1649	DDIT3	9586	CREB5	L
1649	DDIT3	10488	CREB3	L
1649	DDIT3	10538	BATF	RL
1649	DDIT3	11016	ATF7	L
1649	DDIT3	51171	DHRS10	R
1649	DDIT3	55509	SNFT	L
1649	DDIT3	79892	C10orf119	R
1653	DDX1	3190	HNRPK	L
1653	DDX1	5829	PXN	L
1653	DDX1	7414	VCL	L
1654	DDX3X	7414	VCL	L
1654	DDX3X	57473	GM632	L
1655	DDX5	2091	FBL	L
1655	DDX5	10270	AKAP8	L
1655	DDX5	10521	DDX17	L
1656	DDX6	11338	U2AF2	L
1660	DHX9	3276	HRMT1L2	L
1660	DHX9	6606	SMN1	L
1660	DHX9	7153	TOP2A	L
1660	DHX9	10482	NXF1	L
1660	DHX9	10657	KHDRBS1	L
1660	DHX9	26993	AKAP8L	L
1663	DDX11	5217	PFN2	S
1663	DDX11	11143	MYST2	S
1667	DEFA1	5201	PFDN1	S
1667	DEFA1	5345	SERPINF2	L
1674	DES	1832	DSP	L
1674	DES	6271	S100A1	L
1674	DES	6285	S100B	L
1674	DES	6709	SPTAN1	L
1674	DES	23336	DMN	L
1675	DF	5345	SERPINF2	L
1675	DF	307255	(null)	S
1676	DFFA	1677	DFFB	L
1676	DFFA	2130	EWSR1	R
1676	DFFA	29888	STRN4	S
1676	DFFA	54550	EFCBP2	R
1677	DFFB	7153	TOP2A	L
1678	TIMM8A	8027	STAM	L
1687	DFNA5	5764	PTN	S
1719	DHFR	2280	FKBP1A	L
1719	DHFR	3329	HSPD1	L
1719	DHFR	7057	THBS1	L
1719	DHFR	9804	TOMM20	L

1725	DHPS	1984	EIF5A	L
1725	DHPS	6133	RPL9	R
1725	DHPS	56648	EIF5A2	R
1725	DHPS	60491	NIF3L1	R
1725	DHPS	79873	NUDT18	R
1727	CYB5R3	54205	CYCS	L
1728	NQO1	3303	HSPA1A	L
1729	DIAPH1	5311	PKD2	L
1729	DIAPH1	5879	RAC1	L
1729	DIAPH1	8317	CDC7	L
1729	DIAPH1	10458	BAIAP2	L
1729	DIAPH1	23214	XPO6	L
1729	DIAPH1	55660	FNBP3	L
1730	DIAPH2	29984	RHOD	L
1731	SEPT1	23157	SEPT6	R
1731	SEPT1	54472	TOLLIP	R
1734	DIO2	10868	USP20	L
1734	DIO2	23032	USP33	L
1736	DKC1	1937	EEF1G	S
1736	DKC1	6745	SSR1	S
1736	DKC1	8665	EIF3S5	S
1736	DKC1	11313	LYPLA2	S
1737	DLAT	1738	DLD	L
1737	DLAT	5160	PDHA1	L
1737	DLAT	5162	PDHB	L
1737	DLAT	5163	PDK1	L
1737	DLAT	5164	PDK2	L
1737	DLAT	5165	PDK3	L
1737	DLAT	5166	PDK4	L
1737	DLAT	8050	PDHX	L
1738	DLD	4967	OGDH	L
1739	DLG1	1740	DLG2	L
1739	DLG1	1741	DLG3	L
1739	DLG1	2035	EPB41	L
1739	DLG1	2066	ERBB4	L
1739	DLG1	2890	GRIA1	L
1739	DLG1	2898	GRIK2	L
1739	DLG1	2903	GRIN2A	L
1739	DLG1	2977	GUCY1A2	L
1739	DLG1	3739	KCNA4	L
1739	DLG1	3759	KCNJ2	L
1739	DLG1	3766	KCNJ10	L
1739	DLG1	3768	KCNJ12	L
1739	DLG1	3932	LCK	L
1739	DLG1	4036	LRP2	L
1739	DLG1	4130	MAP1A	L
1739	DLG1	4646	MYO6	L
1739	DLG1	5728	PTEN	L
1739	DLG1	6868	ADAM17	L
1739	DLG1	7430	VIL2	L
1739	DLG1	7881	KCNAB1	L
1739	DLG1	8573	CASK	L
1739	DLG1	9228	DLGAP2	L
1739	DLG1	9229	DLGAP1	L
1739	DLG1	9419	CRIP1	L
1739	DLG1	9495	AKAP5	L
1739	DLG1	9615	GDA	L
1739	DLG1	23095	KIF1B	L
1739	DLG1	23303	KIF13B	L
1739	DLG1	54910	SEMA4C	L
1739	DLG1	57596	KIAA1446	L
1739	DLG1	93643	TJAP1	L
1739	DLG1	166647	GPR125	L
1740	DLG2	1742	DLG4	L
1740	DLG2	2066	ERBB4	L
1740	DLG2	2903	GRIN2A	L
1740	DLG2	2904	GRIN2B	L

1740	DLG2	2977	GUCY1A2	L
1740	DLG2	3739	KCNA4	L
1740	DLG2	3761	KCNJ4	L
1740	DLG2	3768	KCNJ12	L
1740	DLG2	4036	LRP2	L
1740	DLG2	4130	MAP1A	L
1740	DLG2	4842	NOS1	L
1740	DLG2	8825	LIN7A	L
1740	DLG2	9419	CRIPT	L
1740	DLG2	54413	NLGN3	L
1741	DLG3	1742	DLG4	L
1741	DLG3	2066	ERBB4	L
1741	DLG3	2185	PTK2B	L
1741	DLG3	2898	GRIK2	L
1741	DLG3	2903	GRIN2A	L
1741	DLG3	2904	GRIN2B	L
1741	DLG3	2905	GRIN2C	L
1741	DLG3	2977	GUCY1A2	L
1741	DLG3	3768	KCNJ12	L
1741	DLG3	4036	LRP2	L
1741	DLG3	8825	LIN7A	L
1741	DLG3	9419	CRIPT	L
1741	DLG3	9615	GDA	L
1741	DLG3	54413	NLGN3	L
1741	DLG3	54910	SEMA4C	L
1742	DLG4	2064	ERBB2	L
1742	DLG4	2066	ERBB4	L
1742	DLG4	2185	PTK2B	L
1742	DLG4	2534	FYN	L
1742	DLG4	2897	GRIK1	L
1742	DLG4	2898	GRIK2	L
1742	DLG4	2901	GRIK5	L
1742	DLG4	2903	GRIN2A	L
1742	DLG4	2904	GRIN2B	L
1742	DLG4	2905	GRIN2C	L
1742	DLG4	2906	GRIN2D	L
1742	DLG4	2977	GUCY1A2	L
1742	DLG4	3064	HD	L
1742	DLG4	3356	HTR2A	L
1742	DLG4	3358	HTR2C	L
1742	DLG4	3737	KCNA2	L
1742	DLG4	3739	KCNA4	L
1742	DLG4	3759	KCNJ2	L
1742	DLG4	3766	KCNJ10	L
1742	DLG4	3768	KCNJ12	L
1742	DLG4	4035	LRP1	L
1742	DLG4	4036	LRP2	L
1742	DLG4	4067	LYN	L
1742	DLG4	4130	MAP1A	L
1742	DLG4	4179	MCP	L
1742	DLG4	4294	MAP3K10	L
1742	DLG4	4842	NOS1	L
1742	DLG4	5578	PRKCA	L
1742	DLG4	5793	PTPRG	L
1742	DLG4	7525	YES1	L
1742	DLG4	8321	FZD1	L
1742	DLG4	8322	FZD4	L
1742	DLG4	8573	CASK	L
1742	DLG4	8655	DNCL1	L
1742	DLG4	8825	LIN7A	L
1742	DLG4	9146	HGS	L
1742	DLG4	9228	DLGAP2	L
1742	DLG4	9229	DLGAP1	L
1742	DLG4	9311	ACCN3	L
1742	DLG4	9419	CRIPT	L
1742	DLG4	9495	AKAP5	L
1742	DLG4	9615	GDA	L

1742	DLG4	10369	CACNG2	L
1742	DLG4	10505	SEMA4F	L
1742	DLG4	22941	SHANK2	L
1742	DLG4	23095	KIF1B	L
1742	DLG4	23303	KIF13B	L
1742	DLG4	50944	SHANK1	L
1742	DLG4	54413	NLGN3	L
1742	DLG4	54910	SEMA4C	L
1742	DLG4	55227	LRRC1	L
1742	DLG4	55914	ERBB2IP	L
1742	DLG4	57502	NLGN4X	L
1742	DLG4	57596	KIAA1446	L
1742	DLG4	140735	Dic2	L
1743	DLST	2314	FLII	S
1743	DLST	4673	NAP1L1	S
1743	DLST	4967	OGDH	L
1743	DLST	5217	PFN2	S
1743	DLST	7372	UMPS	S
1743	DLST	7704	ZBTB16	S
1743	DLST	9231	DLG5	S
1743	DLST	9853	RUSC2	S
1743	DLST	10298	PAK4	S
1743	DLST	10383	TUBB2	S
1743	DLST	10425	ARIH2	S
1743	DLST	11244	ZHX1	S
1743	DLST	23256	SCFD1	S
1743	DLST	79080	MGC2574	S
1745	DLX1	4089	SMAD4	L
1746	DLX2	4488	MSX2	L
1748	DLX4	9500	MAGED1	L
1749	DLX5	4488	MSX2	L
1749	DLX5	9500	MAGED1	L
1749	DLX5	23013	SPEN	L
1755	DMBT1	6435	SFTPA1	L
1755	DMBT1	6441	SFTPD	L
1756	DMD	1837	DTNA	L
1756	DMD	3768	KCNJ12	L
1756	DMD	5239	PGM5	L
1756	DMD	6640	SNTA1	L
1756	DMD	6641	SNTB1	L
1756	DMD	8525	DGKZ	L
1759	DNM1	2017	CTTN	L
1759	DNM1	2060	EPS15	L
1759	DNM1	2885	GRB2	L
1759	DNM1	4690	NCK1	L
1759	DNM1	5217	PFN2	L
1759	DNM1	5303	PIN4	S
1759	DNM1	6453	ITSN1	L
1759	DNM1	6455	SH3GL1	L
1759	DNM1	6456	SH3GL2	L
1759	DNM1	9022	CLIC3	L
1759	DNM1	10399	GNB2L1	L
1759	DNM1	23048	FNBP1	L
1759	DNM1	23268	DNMBP	L
1759	DNM1	23523	CABIN1	L
1759	DNM1	29763	PACSIN3	L
1759	DNM1	29993	PACSIN1	L
1759	DNM1	51003	MED31	S
1759	DNM1	57562	KIAA1377	S
1759	DNM1	79754	ASB13	S
1759	DNM1	92609	TIMM50	S
1760	DMPK	3316	HSPB2	L
1760	DMPK	4659	PPP1R12A	L
1760	DMPK	5894	RAF1	L
1760	DMPK	11337	GABARAP	S
1762	DMWD	5473	PPBP	S
1778	DNCH1	4087	SMAD2	L

1778	DNCH1	8655	DNCL1	L
1778	DNCH1	55603	FAM46A	L
1780	DNCH1	83658	DNCL2A	R
1780	DNCH1	140735	Dic2	R
1781	DNCH2	6990	TCTE1L	R
1783	DNCL2	2039	EPB49	S
1785	DNM2	2017	CTTN	L
1785	DNM2	2060	EPS15	L
1785	DNM2	5216	PFN1	L
1785	DNM2	5479	PPIB	S
1785	DNM2	7919	BAT1	S
1785	DNM2	8655	DNCL1	L
1785	DNM2	10200	MPHOSPH6	L
1785	DNM2	22941	SHANK2	L
1785	DNM2	23578	(null)	S
1785	DNM2	50944	SHANK1	L
1785	DNM2	51386	EIF3S6IP	S
1785	DNM2	51678	MPP6	L
1785	DNM2	54469	ZA20D3	S
1785	DNM2	55729	ATF7IP	L
1786	DNMT1	1788	DNMT3A	L
1786	DNMT1	1789	DNMT3B	L
1786	DNMT1	3066	HDAC2	L
1786	DNMT1	5111	PCNA	L
1786	DNMT1	5925	RB1	L
1786	DNMT1	5987	RFP	S
1786	DNMT1	7251	TSG101	L
1786	DNMT1	8655	DNCL1	L
1786	DNMT1	8932	MBD2	L
1786	DNMT1	10951	CBX1	L
1786	DNMT1	53615	MBD3	L
1786	DNMT1	55929	DMAP1	L
1787	DNMT2	1915	EEF1A1	S
1787	DNMT2	6804	STX1A	S
1787	DNMT2	9094	UNC119	S
1787	DNMT2	9869	SETDB1	S
1787	DNMT2	10813	UTP14A	S
1787	DNMT2	10980	COPS6	S
1787	DNMT2	55791	C1orf103	S
1787	DNMT2	57062	DDX24	S
1787	DNMT2	84060	DKFZP564O0523	S
1788	DNMT3A	1789	DNMT3B	L
1788	DNMT3A	3065	HDAC1	L
1788	DNMT3A	4609	MYC	L
1788	DNMT3A	6839	SUV39H1	L
1788	DNMT3A	7329	UBE2I	L
1788	DNMT3A	10951	CBX1	L
1788	DNMT3A	29947	DNMT3L	L
1789	DNMT3B	3065	HDAC1	L
1789	DNMT3B	7329	UBE2I	L
1789	DNMT3B	7341	SUMO1	L
1789	DNMT3B	10951	CBX1	L
1789	DNMT3B	23468	CBX5	L
1789	DNMT3B	29947	DNMT3L	L
1791	DNTT	2547	XRCC6	L
1791	DNTT	30836	ERBP	L
1793	DOCK1	5879	RAC1	L
1793	DOCK1	8440	NCK2	L
1793	DOCK1	10163	WASF2	L
1793	DOCK1	23210	PTDSR	L
1794	DOCK2	5879	RAC1	L
1794	DOCK2	5880	RAC2	L
1794	DOCK2	7409	VAV1	L
1795	DOCK3	5663	PSEN1	L
1795	DOCK3	5664	PSEN2	L
1796	DOK1	3815	KIT	L
1796	DOK1	4068	SH2D1A	L

1796	DOK1	4690	NCK1	L
1796	DOK1	5777	PTPN6	L
1796	DOK1	5794	PTPRH	L
1796	DOK1	5921	RASA1	L
1796	DOK1	5979	RET	L
1796	DOK1	8440	NCK2	L
1796	DOK1	9448	MAP4K4	L
1797	DOM3Z	2319	FLOT2	L
1797	DOM3Z	5394	EXOSC10	L
1797	DOM3Z	5976	RENT1	L
1797	DOM3Z	22803	XRN2	L
1797	DOM3Z	23016	EXOSC7	L
1797	DOM3Z	54464	XRN1	L
1797	DOM3Z	54512	EXOSC4	L
1800	DPEP1	26128	KIAA1279	R
1801	DPH1	3309	HSPA5	L
1801	DPH1	9939	RBM8A	L
1803	DPP4	2922	GRP	L
1803	DPP4	27151	CPAMD8	L
1805	DPT	4015	LOX	L
1805	DPT	7917	BAT3	S
1807	DPYS	56896	DPYSL5	L
1808	DPYSL2	6093	ROCK1	L
1808	DPYSL2	8650	NUMB	L
1808	DPYSL2	56896	DPYSL5	L
1809	DPYSL3	56896	DPYSL5	L
1810	DR1	4783	NFIL3	L
1810	DR1	6908	TBP	L
1810	DR1	10589	DRAP1	L
1810	DR1	54107	POLE3	R
1811	SLC26A3	9368	SLC9A3R1	L
1812	DRD1	2037	EPB41L2	L
1812	DRD1	2316	FLNA	L
1812	DRD1	22820	COPG	L
1812	DRD1	26958	COPG2	L
1812	DRD1	50632	DRD1IP	L
1813	DRD2	2035	EPB41	L
1813	DRD2	2036	EPB41L1	L
1813	DRD2	2316	FLNA	L
1813	DRD2	2771	GNAI2	L
1813	DRD2	2773	GNAI3	L
1813	DRD2	2781	GNAZ	L
1813	DRD2	3763	KCNJ6	L
1813	DRD2	3765	KCNJ9	L
1813	DRD2	6755	SSTR5	L
1813	DRD2	23413	FREQ	L
1813	DRD2	54102	CLIC6	L
1813	DRD2	84687	PPP1R9B	L
1814	DRD3	2035	EPB41	L
1814	DRD3	2036	EPB41L1	L
1814	DRD3	2037	EPB41L2	L
1814	DRD3	2316	FLNA	L
1814	DRD3	2770	GNAI1	L
1814	DRD3	2885	GRB2	L
1814	DRD3	4690	NCK1	L
1814	DRD3	8777	MPDZ	L
1814	DRD3	23413	FREQ	L
1814	DRD3	54102	CLIC6	L
1815	DRD4	2554	GABRA1	L
1815	DRD4	2885	GRB2	L
1815	DRD4	3765	KCNJ9	L
1815	DRD4	4690	NCK1	L
1815	DRD4	6714	SRC	L
1815	DRD4	54102	CLIC6	L
1816	DRD5	2566	GABRG2	L
1816	DRD5	2768	GNA12	L
1816	DRD5	2781	GNAZ	L

1816	DRD5	10672	GNA13	L
1816	DRD5	23413	FREQ	L
1819	DRG2	51389	RWDD1	R
1820	ARID3A	1832	DSP	L
1820	ARID3A	1869	E2F1	L
1821	DRP2	1837	DTNA	L
1821	DRP2	57716	PRX	L
1822	ATN1	7088	TLE1	S
1822	ATN1	7431	VIM	S
1822	ATN1	9223	MAG1	L
1822	ATN1	10015	PDCD6IP	L
1822	ATN1	10458	BAIAP2	L
1822	ATN1	11059	WWP1	L
1822	ATN1	11060	WWP2	L
1822	ATN1	11143	MYST2	S
1822	ATN1	83737	ITCH	L
1822	ATN1	222019	(null)	S
1823	DSC1	1829	DSG2	L
1823	DSC1	1832	DSP	L
1823	DSC1	3728	JUP	L
1823	DSC1	5318	PKP2	L
1823	DSC1	11187	PKP3	L
1824	DSC2	1828	DSG1	L
1824	DSC2	1829	DSG2	L
1824	DSC2	3728	JUP	L
1824	DSC2	5318	PKP2	L
1824	DSC2	11187	PKP3	L
1825	DSC3	3728	JUP	L
1825	DSC3	8502	PKP4	L
1825	DSC3	11187	PKP3	L
1828	DSG1	3728	JUP	L
1828	DSG1	5317	PKP1	L
1828	DSG1	5318	PKP2	L
1828	DSG1	25818	KLK5	L
1829	DSG2	3728	JUP	L
1829	DSG2	5318	PKP2	L
1829	DSG2	11187	PKP3	L
1830	DSG3	3728	JUP	L
1831	TSC22D3	2353	FOS	L
1831	TSC22D3	3725	JUN	L
1831	TSC22D3	4790	NFKB1	L
1831	TSC22D3	4791	NFKB2	L
1831	TSC22D3	5894	RAF1	L
1831	TSC22D3	51440	HPCAL4	R
1831	TSC22D3	79666	PLEKHF2	R
1832	DSP	2125	EVPL	L
1832	DSP	3728	JUP	L
1832	DSP	3848	KRT1	L
1832	DSP	5175	PECAM1	L
1832	DSP	5317	PKP1	L
1832	DSP	5318	PKP2	L
1832	DSP	7431	VIM	L
1837	DTNA	3768	KCNJ12	L
1837	DTNA	6640	SNTA1	L
1837	DTNA	6641	SNTB1	L
1837	DTNA	6645	SNTB2	L
1837	DTNA	6714	SRC	L
1837	DTNA	7402	UTRN	L
1837	DTNA	23336	DMN	L
1837	DTNA	84062	DTNBP1	L
1838	DTNB	3798	KIF5A	L
1838	DTNB	7186	TRAF2	R
1838	DTNB	8495	PPFIBP2	R
1838	DTNB	10363	HMG20A	R
1838	DTNB	11007	DIPA	R
1838	DTNB	23636	NUP62	R
1838	DTNB	56952	PRTFDC1	R

1838	DTNB	57596	KIAA1446	R
1838	DTNB	128229	C1orf182	R
1839	HBEGF	1956	EGFR	L
1839	HBEGF	2066	ERBB4	L
1839	HBEGF	3732	CD82	L
1839	HBEGF	4316	MMP7	L
1839	HBEGF	4898	NRD1	L
1839	HBEGF	7704	ZBTB16	L
1840	DTX1	2033	EP300	L
1840	DTX1	2885	GRB2	L
1840	DTX1	4853	NOTCH2	L
1843	DUSP1	5594	MAPK1	L
1843	DUSP1	5595	MAPK3	L
1843	DUSP1	5599	MAPK8	L
1843	DUSP1	6300	MAPK12	L
1845	DUSP3	1950	EGF	L
1845	DUSP3	2252	FGF7	L
1845	DUSP3	5594	MAPK1	L
1845	DUSP3	5595	MAPK3	L
1846	DUSP4	5594	MAPK1	L
1846	DUSP4	5595	MAPK3	L
1847	DUSP5	5595	MAPK3	L
1848	DUSP6	4188	MDFI	R
1848	DUSP6	5594	MAPK1	L
1848	DUSP6	5595	MAPK3	L
1848	DUSP6	56159	TEX11	R
1854	DUT	5465	PPARA	L
1854	DUT	5467	PPARD	L
1854	DUT	5468	PPARG	L
1854	DUT	9825	SPATA2	R
1854	DUT	79873	NUDT18	R
1855	DVL1	1857	DVL3	L
1855	DVL1	2059	EPS8	L
1855	DVL1	2932	GSK3B	L
1855	DVL1	4087	SMAD2	L
1855	DVL1	5494	PPM1A	L
1855	DVL1	6993	TCTEL1	L
1855	DVL1	8312	AXIN1	L
1855	DVL1	8975	USP13	S
1855	DVL1	10023	FRAT1	L
1855	DVL1	23002	DAAM1	L
1855	DVL1	23072	HECW1	L
1855	DVL1	57216	VANGL2	L
1855	DVL1	307255	(null)	S
1856	DVL2	5092	PCBD1	R
1856	DVL2	5494	PPM1A	L
1856	DVL2	6993	TCTEL1	L
1856	DVL2	7157	TP53	R
1856	DVL2	7186	TRAF2	R
1856	DVL2	7718	ZNF165	R
1856	DVL2	8078	USP5	R
1856	DVL2	8312	AXIN1	L
1856	DVL2	8907	AP1M1	R
1856	DVL2	9129	PRPF3	R
1856	DVL2	9531	BAG3	R
1856	DVL2	10127	ZNF263	R
1856	DVL2	10174	SORBS3	R
1856	DVL2	10445	MCRS1	R
1856	DVL2	10921	RNPS1	R
1856	DVL2	11030	RBPMS	R
1856	DVL2	11201	POLI	R
1856	DVL2	11267	SNF8	R
1856	DVL2	11338	U2AF2	R
1856	DVL2	22893	BAHD1	R
1856	DVL2	51224	TCEB3B	R
1856	DVL2	55145	THAP1	R
1856	DVL2	58500	ZNF250	R

1856	DVL2	79753	SNIP1	R
1856	DVL2	79869	FLJ12529	R
1856	DVL2	80125	FLJ32855	R
1856	DVL2	84080	C16orf48	R
1856	DVL2	84528	PEPP-2	R
1856	DVL2	84904	C9orf100	R
1856	DVL2	90268	LOC90268	R
1856	DVL2	92610	TIFA	R
1856	DVL2	127557	ZBTB8	R
1856	DVL2	151871	DPPA2	R
1856	DVL2	414301	DDI1	R
1857	DVL3	3104	HKR3	R
1857	DVL3	4062	LY6H	S
1857	DVL3	5307	PITX1	R
1857	DVL3	8812	CCNK	R
1857	DVL3	9129	PRPF3	R
1857	DVL3	11143	MYST2	R
1857	DVL3	22893	BAHD1	R
1857	DVL3	57473	GM632	L
1857	DVL3	59349	KLHL12	R
1857	DVL3	79797	ZNF408	R
1857	DVL3	79856	SNX22	R
1857	DVL3	84708	LNX	R
1857	DVL3	85362	(null)	R
1857	DVL3	126282	TNFAIP8L1	R
1857	DVL3	151871	DPPA2	R
1859	DYRK1A	81669	CCNL2	L
1861	TOR1A	6622	SNCA	L
1869	E2F1	2965	GTF2H1	L
1869	E2F1	4194	MDM4	L
1869	E2F1	4331	MNAT1	L
1869	E2F1	4692	NDN	L
1869	E2F1	4790	NFKB1	L
1869	E2F1	5245	PHB	L
1869	E2F1	5813	PURA	L
1869	E2F1	5925	RB1	L
1869	E2F1	5926	ARID4A	L
1869	E2F1	5934	RBL2	L
1869	E2F1	6046	BRD2	L
1869	E2F1	6502	SKP2	L
1869	E2F1	6667	SP1	L
1869	E2F1	6668	SP2	L
1869	E2F1	6670	SP3	L
1869	E2F1	6671	SP4	L
1869	E2F1	7027	TFDP1	L
1869	E2F1	7029	TFDP2	L
1869	E2F1	8202	NCOA3	L
1869	E2F1	8295	TRRAP	L
1869	E2F1	8454	CUL1	L
1869	E2F1	8900	CCNA1	L
1869	E2F1	9150	CTDP1	L
1869	E2F1	11073	TOPBP1	L
1870	E2F2	5925	RB1	L
1870	E2F2	6046	BRD2	L
1870	E2F2	6667	SP1	L
1870	E2F2	7027	TFDP1	L
1870	E2F2	7029	TFDP2	L
1870	E2F2	7528	YY1	L
1870	E2F2	9564	BCAR1	S
1870	E2F2	23429	RYBP	L
1871	E2F3	6667	SP1	L
1871	E2F3	7027	TFDP1	L
1871	E2F3	7029	TFDP2	L
1871	E2F3	7030	TFE3	L
1871	E2F3	7528	YY1	L
1871	E2F3	23429	RYBP	L
1874	E2F4	3065	HDAC1	L

1874	E2F4	4087	SMAD2	L
1874	E2F4	4088	SMAD3	L
1874	E2F4	4692	NDN	L
1874	E2F4	5933	RBL1	L
1874	E2F4	5934	RBL2	L
1874	E2F4	7027	TFDP1	L
1874	E2F4	7029	TFDP2	L
1874	E2F4	23309	SIN3B	L
1875	E2F5	5934	RBL2	L
1875	E2F5	7027	TFDP1	L
1875	E2F5	7514	XPO1	L
1876	E2F6	7027	TFDP1	R
1876	E2F6	7029	TFDP2	RL
1876	E2F6	23429	RYBP	L
1876	E2F6	84108	PCGF6	L
1877	E4F1	4093	SMAD9	L
1877	E4F1	5925	RB1	L
1877	E4F1	7157	TP53	L
1877	E4F1	10919	EHMT2	R
1879	EBF	23090	ZNF423	L
1880	EBI2	9112	MTA1	S
1891	ECH1	1937	EEF1G	S
1891	ECH1	5050	PAFAH1B3	S
1891	ECH1	5272	SERPINB9	S
1891	ECH1	7076	TIMP1	S
1892	ECHS1	150472	CBWD2	S
1896	EDA	10913	EDAR	L
1896	EDA	60401	EDA2R	L
1901	EDG1	2770	GNAI1	L
1901	EDG1	2773	GNAI3	L
1901	EDG1	3350	HTR1A	L
1901	EDG1	3352	HTR1D	L
1901	EDG1	5159	PDGFRB	L
1902	EDG2	2773	GNAI3	L
1903	EDG3	2770	GNAI1	L
1903	EDG3	2776	GNAQ	L
1903	EDG3	3350	HTR1A	L
1903	EDG3	10672	GNA13	L
1906	EDN1	1909	EDNRA	L
1906	EDN1	1910	EDNRB	L
1906	EDN1	4880	NPPC	L
1906	EDN1	7917	BAT3	S
1906	EDN1	10980	COPS6	S
1908	EDN3	1909	EDNRA	L
1908	EDN3	1910	EDNRB	L
1909	EDNRA	2767	GNA11	L
1909	EDNRA	2771	GNAI2	L
1909	EDNRA	2870	GRK6	L
1910	EDNRB	2767	GNA11	L
1910	EDNRB	2870	GRK6	L
1910	EDNRB	10672	GNA13	L
1911	PHC1	1912	PHC2	R
1911	PHC1	3312	HSPA8	S
1911	PHC1	7329	UBE2I	R
1911	PHC1	51460	SFMBT1	R
1912	PHC2	2275	FHL3	R
1912	PHC2	4171	MCM2	S
1912	PHC2	6129	RPL7	S
1912	PHC2	10445	MCRS1	R
1912	PHC2	10939	AFG3L2	S
1912	PHC2	22955	SCMH1	S
1912	PHC2	51460	SFMBT1	R
1912	PHC2	54968	TMEM70	S
1912	PHC2	55108	BSDC1	S
1912	PHC2	55885	LMO3	R
1915	EEF1A1	3336	HSPE1	S
1915	EEF1A1	3910	LAMA4	S

1915	EEF1A1	4087	SMAD2	L
1915	EEF1A1	4089	SMAD4	L
1915	EEF1A1	4300	MLLT3	S
1915	EEF1A1	4331	MNAT1	S
1915	EEF1A1	4758	NEU1	S
1915	EEF1A1	5047	PAEP	S
1915	EEF1A1	5050	PAFAH1B3	S
1915	EEF1A1	5217	PFN2	S
1915	EEF1A1	5272	SERPINB9	S
1915	EEF1A1	5329	PLAUR	S
1915	EEF1A1	5335	PLCG1	L
1915	EEF1A1	5427	POLE2	S
1915	EEF1A1	5432	POLR2C	S
1915	EEF1A1	5678	PSG9	S
1915	EEF1A1	5717	PSMD11	S
1915	EEF1A1	5775	PTPN4	S
1915	EEF1A1	5790	PTPRCAP	S
1915	EEF1A1	5873	RAB27A	S
1915	EEF1A1	5985	RFC5	S
1915	EEF1A1	6118	RPA2	S
1915	EEF1A1	6176	RPLP1	S
1915	EEF1A1	6362	CCL18	S
1915	EEF1A1	6453	ITSN1	S
1915	EEF1A1	6745	SSR1	S
1915	EEF1A1	6783	SULT1E1	S
1915	EEF1A1	6880	TAF9	S
1915	EEF1A1	7050	TGIF	S
1915	EEF1A1	7159	TP53BP2	S
1915	EEF1A1	7276	TTR	S
1915	EEF1A1	7407	VARS	L
1915	EEF1A1	7414	VCL	L
1915	EEF1A1	7572	ZNF24	S
1915	EEF1A1	8312	AXIN1	S
1915	EEF1A1	8655	DNCL1	S
1915	EEF1A1	8665	EIF3S5	S
1915	EEF1A1	8738	CRADD	S
1915	EEF1A1	8882	ZNF259	L
1915	EEF1A1	9061	PAPSS1	S
1915	EEF1A1	9587	MAD2L1BP	S
1915	EEF1A1	9796	PHYHIP	S
1915	EEF1A1	9921	RNF10	S
1915	EEF1A1	10063	COX17	S
1915	EEF1A1	10084	PQBP1	S
1915	EEF1A1	10301	DLEU1	S
1915	EEF1A1	10425	ARIH2	S
1915	EEF1A1	10542	HBXIP	S
1915	EEF1A1	10571	SMA3	S
1915	EEF1A1	10916	MAGED2	S
1915	EEF1A1	11075	STMN2	S
1915	EEF1A1	19241	(null)	S
1915	EEF1A1	22803	XRN2	L
1915	EEF1A1	23095	KIF1B	S
1915	EEF1A1	25855	BRMS1	S
1915	EEF1A1	27258	LSM3	S
1915	EEF1A1	28977	MRPL42	S
1915	EEF1A1	51319	RSRC1	S
1915	EEF1A1	54512	EXOSC4	L
1915	EEF1A1	54544	C1orf42	S
1915	EEF1A1	54819	ZCCHC10	S
1915	EEF1A1	54949	FLJ20487	S
1915	EEF1A1	55004	FLJ20625	S
1915	EEF1A1	55643	BTBD2	S
1915	EEF1A1	56144	PCDHA4	S
1915	EEF1A1	56893	UBQLN4	S
1915	EEF1A1	57510	XPO5	L
1915	EEF1A1	64699	TMPRSS3	S
1915	EEF1A1	81576	MGC10471	S

1915	EEF1A1	94103	ORMDL3	S
1915	EEF1A1	170961	ANKRD24	S
1933	EEF1B2	1937	EEF1G	RS
1933	EEF1B2	3035	HARS	L
1933	EEF1B2	7076	TIMP1	S
1933	EEF1B2	9706	ULK2	S
1936	EEF1D	1937	EEF1G	RS
1936	EEF1D	2617	GARS	L
1936	EEF1D	3895	KTN1	L
1936	EEF1D	7407	VARS	L
1936	EEF1D	84164	ASCC2	S
1936	EEF1D	118924	C10orf4	S
1936	EEF1D	162952	(null)	S
1936	EEF1D	284004	FLJ23825	S
1937	EEF1G	1942	EFNA1	S
1937	EEF1G	2237	FEN1	S
1937	EEF1G	2290	FOXG1B	S
1937	EEF1G	3035	HARS	L
1937	EEF1G	3163	HMOX2	S
1937	EEF1G	3189	HNRPH3	S
1937	EEF1G	3608	ILF2	R
1937	EEF1G	3735	KARS	S
1937	EEF1G	4597	MVD	S
1937	EEF1G	5717	PSMD11	S
1937	EEF1G	5775	PTPN4	S
1937	EEF1G	5802	PTPRS	S
1937	EEF1G	5863	RGL2	S
1937	EEF1G	6234	RPS28	S
1937	EEF1G	6303	SAT	S
1937	EEF1G	6498	SKIL	L
1937	EEF1G	6633	SNRPD2	S
1937	EEF1G	7572	ZNF24	S
1937	EEF1G	8440	NCK2	S
1937	EEF1G	9141	PDCD5	S
1937	EEF1G	9400	RECQL5	S
1937	EEF1G	9446	GSTO1	S
1937	EEF1G	9540	TP53I3	S
1937	EEF1G	10014	HDAC5	S
1937	EEF1G	10060	ABCC9	R
1937	EEF1G	10301	DLEU1	S
1937	EEF1G	10381	TUBB3	S
1937	EEF1G	10425	ARIH2	S
1937	EEF1G	10563	CXCL13	S
1937	EEF1G	10574	CCT7	S
1937	EEF1G	23557	SNAPAP	S
1937	EEF1G	29903	HSU79303	S
1937	EEF1G	51003	MED31	S
1937	EEF1G	51520	LARS	L
1937	EEF1G	51608	C7orf20	S
1937	EEF1G	55068	FLJ10094	S
1937	EEF1G	55339	WDR33	S
1937	EEF1G	55743	CHFR	S
1937	EEF1G	55755	CDK5RAP2	S
1937	EEF1G	55803	CENTA2	S
1937	EEF1G	57332	CBX8	S
1937	EEF1G	57664	PLEKHA4	S
1937	EEF1G	57761	TRIB3	S
1937	EEF1G	65220	NADK	S
1937	EEF1G	78987	CRELD1	S
1937	EEF1G	79676	FLJ13491	S
1937	EEF1G	79902	PCNT1	S
1937	EEF1G	84331	MGC15416	S
1937	EEF1G	116154	PHACTR3	S
1937	EEF1G	126272	EID-3	S
1937	EEF1G	158345	LOC158345	S
1937	EEF1G	196549	LOC196549	R
1937	EEF1G	222019	(null)	S

1937	EEF1G	339448	LOC339448	S
1938	EEF2	7157	TP53	L
1938	EEF2	54822	TRPM7	L
1942	EFNA1	1969	EPHA2	L
1942	EFNA1	2041	EPHA1	L
1942	EFNA1	2043	EPHA4	L
1942	EFNA1	2044	EPHA5	L
1942	EFNA1	2045	EPHA7	L
1942	EFNA1	5473	PPBP	S
1942	EFNA1	10524	HTATIP	S
1942	EFNA1	222019	(null)	S
1943	EFNA2	1969	EPHA2	L
1943	EFNA2	2042	EPHA3	L
1944	EFNA3	1969	EPHA2	L
1944	EFNA3	2043	EPHA4	L
1944	EFNA3	2044	EPHA5	L
1944	EFNA3	2045	EPHA7	L
1944	EFNA3	11098	PRSS23	S
1945	EFNA4	1969	EPHA2	L
1945	EFNA4	2043	EPHA4	L
1945	EFNA4	2045	EPHA7	L
1946	EFNA5	1969	EPHA2	L
1946	EFNA5	2042	EPHA3	L
1946	EFNA5	2043	EPHA4	L
1946	EFNA5	2044	EPHA5	L
1946	EFNA5	2045	EPHA7	L
1946	EFNA5	2046	EPHA8	L
1946	EFNA5	2047	EPHB1	L
1947	EFNB1	2047	EPHB1	L
1947	EFNB1	2048	EPHB2	L
1947	EFNB1	5783	PTPN13	L
1947	EFNB1	5998	RGS3	L
1947	EFNB1	6386	SDCBP	L
1947	EFNB1	6714	SRC	L
1947	EFNB1	8440	NCK2	L
1947	EFNB1	10580	SORBS1	L
1948	EFNB2	2042	EPHA3	L
1948	EFNB2	2043	EPHA4	L
1948	EFNB2	2047	EPHB1	L
1948	EFNB2	2048	EPHB2	L
1948	EFNB2	2050	EPHB4	L
1948	EFNB2	2051	EPHB6	L
1948	EFNB2	6386	SDCBP	L
1948	EFNB2	8440	NCK2	L
1948	EFNB2	54933	RHBDL2	L
1949	EFNB3	2043	EPHA4	L
1949	EFNB3	2049	EPHB3	L
1949	EFNB3	54933	RHBDL2	L
1950	EGF	1956	EGFR	L
1950	EGF	2064	ERBB2	L
1950	EGF	2065	ERBB3	L
1950	EGF	2250	FGF5	L
1950	EGF	2885	GRB2	L
1950	EGF	3084	NRG1	L
1950	EGF	5296	PIK3R2	L
1950	EGF	7448	VTN	L
1951	CELSR3	9905	RUTBC1	S
1951	CELSR3	23075	SWAP70	L
1952	CELSR2	2617	GARS	S
1952	CELSR2	55274	PHF10	S
1956	EGFR	2059	EPS8	L
1956	EGFR	2060	EPS15	L
1956	EGFR	2064	ERBB2	L
1956	EGFR	2065	ERBB3	L
1956	EGFR	2069	EREG	L
1956	EGFR	2099	ESR1	L
1956	EGFR	2185	PTK2B	L

1956	EGFR	2241	FER	L
1956	EGFR	2547	XRCC6	L
1956	EGFR	2549	GAB1	L
1956	EGFR	2771	GNAI2	L
1956	EGFR	2885	GRB2	L
1956	EGFR	2886	GRB7	L
1956	EGFR	2887	GRB10	L
1956	EGFR	2888	GRB14	L
1956	EGFR	3064	HD	L
1956	EGFR	3084	NRG1	L
1956	EGFR	3320	HSPCA	L
1956	EGFR	3371	TNC	L
1956	EGFR	3636	INPPL1	L
1956	EGFR	3678	ITGA5	L
1956	EGFR	3732	CD82	L
1956	EGFR	3855	KRT7	L
1956	EGFR	3856	KRT8	L
1956	EGFR	3872	KRT17	L
1956	EGFR	3875	KRT18	L
1956	EGFR	4582	MUC1	L
1956	EGFR	4690	NCK1	L
1956	EGFR	5058	PAK1	L
1956	EGFR	5159	PDGFRB	L
1956	EGFR	5287	PIK3C2B	L
1956	EGFR	5295	PIK3R1	L
1956	EGFR	5296	PIK3R2	L
1956	EGFR	5306	PITPNA	L
1956	EGFR	5335	PLCG1	L
1956	EGFR	5338	PLD2	L
1956	EGFR	5339	PLEC1	L
1956	EGFR	5359	PLSCR1	L
1956	EGFR	5566	PRKACA	L
1956	EGFR	5573	PRKAR1A	L
1956	EGFR	5578	PRKCA	L
1956	EGFR	5747	PTK2	L
1956	EGFR	5753	PTK6	L
1956	EGFR	5770	PTPN1	L
1956	EGFR	5777	PTPN6	L
1956	EGFR	5781	PTPN11	L
1956	EGFR	5795	PTPRJ	L
1956	EGFR	5921	RASA1	L
1956	EGFR	6004	RGS16	L
1956	EGFR	6464	SHC1	L
1956	EGFR	6633	SNRPD2	L
1956	EGFR	6642	SNX1	L
1956	EGFR	6643	SNX2	L
1956	EGFR	6654	SOS1	L
1956	EGFR	6655	SOS2	L
1956	EGFR	6714	SRC	L
1956	EGFR	6772	STAT1	L
1956	EGFR	6774	STAT3	L
1956	EGFR	6776	STAT5A	L
1956	EGFR	6777	STAT5B	L
1956	EGFR	7039	TGFA	L
1956	EGFR	7082	TJP1	L
1956	EGFR	7409	VAV1	L
1956	EGFR	7410	VAV2	L
1956	EGFR	8440	NCK2	L
1956	EGFR	8651	SOCS1	L
1956	EGFR	8723	SNX4	L
1956	EGFR	8737	RIPK1	L
1956	EGFR	8882	ZNF259	L
1956	EGFR	9020	MAP3K14	L
1956	EGFR	9021	SOCS3	L
1956	EGFR	9046	DOK2	L
1956	EGFR	9905	RUTBC1	S
1956	EGFR	10045	SH2D3A	L

1956	EGFR	10188	TNK2	L
1956	EGFR	10451	VAV3	L
1956	EGFR	11184	MAP4K1	L
1956	EGFR	23624	CBLC	L
1956	EGFR	54206	ERRFI1	L
1956	EGFR	83481	EPPK1	L
1958	EGR1	2033	EP300	L
1958	EGR1	3725	JUN	L
1958	EGR1	4664	NAB1	L
1958	EGR1	4665	NAB2	L
1958	EGR1	4773	NFATC2	L
1958	EGR1	5307	PITX1	L
1958	EGR1	5684	PSMA3	L
1958	EGR1	5970	RELA	L
1958	EGR1	6667	SP1	L
1958	EGR1	7157	TP53	L
1959	EGR2	3054	HCFC1	L
1959	EGR2	51003	MED31	S
1961	EGR4	4773	NFATC2	L
1962	EHHADH	6342	SCP2	L
1964	EIF1AX	1983	EIF5	L
1964	EIF1AX	5901	RAN	L
1964	EIF1AX	8663	EIF3S8	L
1964	EIF1AX	9669	EIF5B	L
1965	EIF2S1	5610	EIF2AK2	L
1965	EIF2S1	8892	EIF2B2	L
1965	EIF2S1	23645	PPP1R15A	L
1967	EIF2B1	8892	EIF2B2	L
1967	EIF2B1	8894	EIF2S2	L
1967	EIF2B1	51073	MRPL4	S
1968	EIF2S3	10988	METAP2	L
1969	EPHA2	2885	GRB2	L
1969	EPHA2	5295	PIK3R1	L
1969	EPHA2	5747	PTK2	L
1969	EPHA2	5781	PTPN11	L
1969	EPHA2	6464	SHC1	L
1969	EPHA2	6503	SLA	L
1969	EPHA2	7126	TNFAIP1	L
1973	EIF4A1	9890	LPPR4	S
1973	EIF4A1	26019	UPF2	L
1975	EIF4B	1977	EIF4E	L
1975	EIF4B	8661	EIF3S10	L
1975	EIF4B	26986	PABPC1	L
1977	EIF4E	1978	EIF4EBP1	RL
1977	EIF4E	1979	EIF4EBP2	L
1977	EIF4E	1981	EIF4G1	L
1977	EIF4E	1982	EIF4G2	L
1977	EIF4E	5371	PML	L
1977	EIF4E	7414	VCL	L
1977	EIF4E	8550	MAPKAPK5	L
1977	EIF4E	8637	EIF4EBP3	L
1977	EIF4E	8672	EIF4G3	L
1977	EIF4E	56478	EIF4ENIF1	L
1978	EIF4EBP1	4597	MVD	S
1978	EIF4EBP1	8550	MAPKAPK5	L
1978	EIF4EBP1	54921	DERPC	R
1981	EIF4G1	1983	EIF5	L
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1981	EIF4G1	9372	ZFYVE9	L
1981	EIF4G1	27250	PDCD4	L
1982	EIF4G2	6498	SKIL	L
1982	EIF4G2	8569	MKNK1	L
1983	EIF5	8666	EIF3S4	L
1983	EIF5	8894	EIF2S2	L
1984	EIF5A	6125	RPL5	L
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1996	ELAVL4	2130	EWSR1	R
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2001	ELF5	51548	SIRT6	R
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2002	ELK1	2885	GRB2	L
2002	ELK1	2887	GRB10	L
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2002	ELK1	6622	SNCA	L
2002	ELK1	8576	STK16	L
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2005	ELK4	6722	SRF	L
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2006	ELN	2199	FBLN2	L
2006	ELN	2200	FBN1	L
2006	ELN	2201	FBN2	L
2006	ELN	2219	FCN1	L
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2006	ELN	4015	LOX	L
2006	ELN	4069	LYZ	L
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2006	ELN	60681	FKBP10	L
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2010	EMD	10488	CREB3	R
2010	EMD	10980	COPS6	S
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2010	EMD	26993	AKAP8L	L
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2010	EMD	89885	FATE1	R
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2010	EMD	222389	C10orf30	R
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2017	CTTN	2885	GRB2	L
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2023	ENO1	5829	PXN	L
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2026	ENO2	27190	IL17B	S
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2026	ENO2	59307	SIGIRR	S
2026	ENO2	89927	C16orf45	S
2026	ENO2	374291	NDUFS7	S
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2059	EPS8	55052	MRPL20	S
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2100	ESR2	5469	PPARBP	L
2100	ESR2	6605	SMARCE1	L
2100	ESR2	6776	STAT5A	L
2100	ESR2	7533	YWHAH	L
2100	ESR2	8202	NCOA3	L
2100	ESR2	8431	NR0B2	L
2100	ESR2	8648	NCOA1	L
2100	ESR2	8805	TRIM24	L
2100	ESR2	9584	RNPC2	L
2100	ESR2	23054	NCOA6	L
2100	ESR2	27043	PELP1	L
2100	ESR2	30836	ERBP	L
2100	ESR2	57109	REXO4	L
2101	ESRRA	8648	NCOA1	L
2101	ESRRA	55629	PNRC2	L
2101	ESRRA	118460	EXOSC6	L
2103	ESRRB	8202	NCOA3	L
2103	ESRRB	10499	NCOA2	L
2104	ESRRG	8648	NCOA1	L
2104	ESRRG	10891	PPARGC1A	L
2104	ESRRG	133522	PPARGC1B	L
2107	ETF1	2935	GSPT1	L
2107	ETF1	9817	KEAP1	R
2107	ETF1	23708	GSPT2	L
2108	ETFA	2109	ETFB	L
2113	ETS1	2114	ETS2	L
2113	ETS1	2353	FOS	L
2113	ETS1	2625	GATA3	L
2113	ETS1	2908	NR3C1	L
2113	ETS1	3725	JUN	L
2113	ETS1	4094	MAF	L
2113	ETS1	4790	NFKB1	L
2113	ETS1	5079	PAX5	L
2113	ETS1	6672	SP100	L
2113	ETS1	7329	UBE2I	L
2113	ETS1	51567	TTRAP	L
2114	ETS2	2625	GATA3	L
2114	ETS2	2908	NR3C1	L
2114	ETS2	3725	JUN	L
2114	ETS2	8558	CDK10	L
2114	ETS2	9372	ZFYVE9	L
2114	ETS2	10771	ZMYND11	L
2115	ETV1	6195	RPS6KA1	L
2115	ETV1	8202	NCOA3	L
2120	ETV6	7329	UBE2I	L
2120	ETV6	7341	SUMO1	L
2122	EVI1	3065	HDAC1	L
2122	EVI1	4088	SMAD3	L
2122	EVI1	8850	PCAF	L
2122	EVI1	9759	HDAC4	L
2125	EVPL	3713	IVL	L
2125	EVPL	3848	KRT1	L
2125	EVPL	3849	KRT2A	L
2125	EVPL	3852	KRT5	L
2125	EVPL	3858	KRT10	L
2125	EVPL	5493	PPL	L
2125	EVPL	6707	SPRR3	L
2130	EWSR1	2185	PTK2B	L
2130	EWSR1	2194	FASN	R
2130	EWSR1	3159	HMGA1	R
2130	EWSR1	3779	KCNMB1	R
2130	EWSR1	3792	KEL	R

2130	EWSR1	4086	SMAD1	L
2130	EWSR1	4089	SMAD4	R
2130	EWSR1	4110	MAGEA11	R
2130	EWSR1	4145	MATK	R
2130	EWSR1	4188	MDFI	R
2130	EWSR1	4515	MTCP1	R
2130	EWSR1	4542	MYO1F	R
2130	EWSR1	4591	TRIM37	R
2130	EWSR1	4598	MVK	R
2130	EWSR1	4637	MYL6	R
2130	EWSR1	4707	NDUFB1	R
2130	EWSR1	4723	NDUFV1	R
2130	EWSR1	4879	NPPB	R
2130	EWSR1	5359	PLSCR1	R
2130	EWSR1	5457	POU4F1	L
2130	EWSR1	5829	PXN	L
2130	EWSR1	5886	RAD23A	R
2130	EWSR1	6160	RPL31	R
2130	EWSR1	6210	RPS15A	R
2130	EWSR1	6297	SALL2	R
2130	EWSR1	6505	SLC1A1	R
2130	EWSR1	6631	SNRPC	L
2130	EWSR1	6872	TAF1	L
2130	EWSR1	6944	VPS72	R
2130	EWSR1	7094	TLN1	L
2130	EWSR1	7288	TULP2	R
2130	EWSR1	7536	SF1	L
2130	EWSR1	7718	ZNF165	R
2130	EWSR1	8050	PDHX	R
2130	EWSR1	9087	TMSB4Y	R
2130	EWSR1	9242	MSC	R
2130	EWSR1	9709	HERPUD1	R
2130	EWSR1	10007	GNPDA1	R
2130	EWSR1	10099	TSPAN3	R
2130	EWSR1	10428	CFDP1	R
2130	EWSR1	11026	LILRA3	R
2130	EWSR1	11030	RBPMS	R
2130	EWSR1	11052	CPSF6	R
2130	EWSR1	11059	WWP1	R
2130	EWSR1	11060	WWP2	R
2130	EWSR1	11103	HRB2	R
2130	EWSR1	22884	WDR37	R
2130	EWSR1	22981	KIAA0980	R
2130	EWSR1	23635	SSBP2	R
2130	EWSR1	25796	PGLS	R
2130	EWSR1	25941	C18orf10	R
2130	EWSR1	26148	C10orf12	R
2130	EWSR1	27104	(null)	R
2130	EWSR1	28973	MRPS18B	R
2130	EWSR1	51304	ZDHHC3	R
2130	EWSR1	51778	MYOZ2	R
2130	EWSR1	54475	NLE1	R
2130	EWSR1	55249	YY1AP1	R
2130	EWSR1	55297	FLJ11088	R
2130	EWSR1	55329	MNS1	R
2130	EWSR1	56302	TRPV5	R
2130	EWSR1	56673	C11orf16	R
2130	EWSR1	56952	PRTFDC1	R
2130	EWSR1	57126	CD177	R
2130	EWSR1	60313	GPBP1L1	R
2130	EWSR1	63948	DMRTB1	R
2130	EWSR1	64777	FLJ22318	R
2130	EWSR1	65997	RASL11B	R
2130	EWSR1	66036	MTMR9	R
2130	EWSR1	79004	CUEDC2	R
2130	EWSR1	79036	MGC2749	R
2130	EWSR1	79173	MGC11271	R

2130	EWSR1	79723	SUV39H2	R
2130	EWSR1	79869	FLJ12529	R
2130	EWSR1	84224	AE2	R
2130	EWSR1	84528	PEPP-2	R
2130	EWSR1	84628	NTNG2	R
2130	EWSR1	85465	SELI	R
2130	EWSR1	93487	C14orf32	R
2130	EWSR1	138046	LOC138046	R
2130	EWSR1	138065	RNF183	R
2130	EWSR1	140735	Dlc2	R
2130	EWSR1	158471	C9orf65	R
2130	EWSR1	163882	C1orf71	R
2130	EWSR1	202559	KHDRBS2	R
2130	EWSR1	221016	CCDC7	R
2130	EWSR1	283238	MGC34821	R
2130	EWSR1	326624	RAB37	R
2130	EWSR1	348487	C1orf117	R
2130	EWSR1	387338	NSUN4	R
2130	EWSR1	387923	C13orf21	R
2130	EWSR1	414061	HCG3	R
2131	EXT1	2132	EXT2	L
2131	EXT1	10131	TRAP1	L
2132	EXT2	10131	TRAP1	L
2132	EXT2	11227	GALNT5	L
2138	EYA1	6495	SIX1	L
2138	EYA1	6496	SIX3	L
2139	EYA2	2771	GNAI2	L
2139	EYA2	2781	GNAZ	L
2139	EYA2	6495	SIX1	L
2139	EYA2	11030	RBPMS	R
2139	EYA2	51804	SIX4	L
2139	EYA2	63948	DMRTB1	R
2140	EYA3	6495	SIX1	L
2140	EYA3	10736	SIX2	L
2140	EYA3	51804	SIX4	L
2140	EYA3	147912	SIX5	L
2145	EZH1	8726	EED	L
2146	EZH2	2975	GTF3C1	S
2146	EZH2	3065	HDAC1	L
2146	EZH2	5252	PHF1	L
2146	EZH2	5303	PIN4	S
2146	EZH2	5694	PSMB6	S
2146	EZH2	6185	RPN2	S
2146	EZH2	6611	SMS	S
2146	EZH2	7409	VAV1	L
2146	EZH2	8726	EED	L
2146	EZH2	11007	DIPA	R
2146	EZH2	22981	KIAA0980	S
2146	EZH2	23588	KLHDC2	S
2146	EZH2	23649	POLA2	S
2146	EZH2	55884	WSB2	S
2146	EZH2	80349	WDR61	S
2147	F2	2151	F2RL2	L
2147	F2	2153	F5	L
2147	F2	2158	F9	L
2147	F2	2160	F11	L
2147	F2	2243	FGA	L
2147	F2	2811	GP1BA	L
2147	F2	3053	SERPIND1	L
2147	F2	3674	ITGA2B	L
2147	F2	3678	ITGA5	L
2147	F2	3827	KNG1	L
2147	F2	5054	SERPINE1	L
2147	F2	5104	SERPINA5	L
2147	F2	5269	SERPINE6	L
2147	F2	5270	SERPINE2	L
2147	F2	5271	SERPINE8	L

2147	F2	5624	PROC	L
2147	F2	7056	THBD	L
2147	F2	7057	THBS1	L
2147	F2	9002	F2RL3	L
2149	F2R	2172	FABP6	L
2149	F2R	2768	GNA12	L
2149	F2R	2769	GNA15	L
2149	F2R	2771	GNAI2	L
2149	F2R	3685	ITGAV	L
2149	F2R	6642	SNX1	L
2149	F2R	10672	GNA13	L
2150	F2RL1	6768	ST14	L
2151	F2RL2	58494	JAM2	L
2151	F2RL2	83700	JAM3	L
2152	F3	2155	F7	L
2152	F3	2159	F10	L
2152	F3	2316	FLNA	L
2152	F3	5340	PLG	L
2153	F5	2159	F10	L
2153	F5	5624	PROC	L
2153	F5	5627	PROS1	L
2153	F5	8475	EPR1	L
2155	F7	2158	F9	L
2155	F7	2159	F10	L
2157	F8	2158	F9	L
2157	F8	2159	F10	L
2157	F8	3309	HSPA5	L
2157	F8	3998	LMAN1	L
2157	F8	4035	LRP1	L
2157	F8	5264	PHYH	L
2157	F8	5624	PROC	L
2157	F8	5627	PROS1	L
2157	F8	7450	VWF	L
2158	F9	4035	LRP1	L
2159	F10	3006	HIST1H1C	S
2159	F10	4259	MGST3	S
2159	F10	5104	SERPINA5	L
2159	F10	5269	SERPINB6	L
2159	F10	5271	SERPINB8	L
2159	F10	5327	PLAT	L
2159	F10	5340	PLG	L
2159	F10	5564	PRKAB1	S
2159	F10	5627	PROS1	L
2159	F10	7035	TFPI	L
2160	F11	2811	GP1BA	L
2160	F11	3827	KNG1	L
2160	F11	5104	SERPINA5	L
2160	F11	5345	SERPINF2	L
2160	F11	7980	TFPI2	L
2161	F12	2811	GP1BA	L
2161	F12	3848	KRT1	L
2161	F12	22918	C1QR1	L
2162	F13A1	2165	F13B	L
2162	F13A1	2243	FGA	L
2162	F13A1	2266	FGG	L
2162	F13A1	2335	FN1	L
2165	F13B	2266	FGG	L
2166	FAAH	5829	PXN	L
2167	FABP4	3991	LIPE	L
2167	FABP4	7431	VIM	S
2168	FABP1	5465	PPARA	L
2168	FABP1	5468	PPARG	L
2170	FABP3	51160	VPS28	S
2171	FABP5	6278	S100A7	L
2175	FANCA	2176	FANCC	L
2175	FANCA	2178	FANCE	L
2175	FANCA	2188	FANCF	L

2175	FANCA	2189	FANCG	RL
2175	FANCA	3551	IKBKB	L
2175	FANCA	6597	SMARCA4	L
2175	FANCA	6599	SMARCC1	L
2175	FANCA	6604	SMARCD3	L
2175	FANCA	27131	SNX5	L
2176	FANCC	2177	FANCD2	L
2176	FANCC	2178	FANCE	L
2176	FANCC	2188	FANCF	L
2176	FANCC	2189	FANCG	L
2176	FANCC	3303	HSPA1A	L
2176	FANCC	6708	SPTA1	L
2176	FANCC	7184	TRA1	L
2177	FANCD2	2178	FANCE	L
2177	FANCD2	5888	RAD51	L
2178	FANCE	2189	FANCG	L
2185	PTK2B	2885	GRB2	L
2185	PTK2B	2903	GRIN2A	L
2185	PTK2B	2934	GSN	L
2185	PTK2B	3689	ITGB2	L
2185	PTK2B	3690	ITGB3	L
2185	PTK2B	3716	JAK1	L
2185	PTK2B	3717	JAK2	L
2185	PTK2B	3718	JAK3	L
2185	PTK2B	3737	KCNA2	L
2185	PTK2B	3932	LCK	L
2185	PTK2B	4067	LYN	L
2185	PTK2B	4145	MATK	L
2185	PTK2B	4162	MCAM	L
2185	PTK2B	4867	NPHP1	L
2185	PTK2B	5295	PIK3R1	L
2185	PTK2B	5580	PRKCD	L
2185	PTK2B	5777	PTPN6	L
2185	PTK2B	5781	PTPN11	L
2185	PTK2B	5782	PTPN12	L
2185	PTK2B	5829	PXN	L
2185	PTK2B	5921	RASA1	L
2185	PTK2B	6464	SHC1	L
2185	PTK2B	6513	SLC2A1	L
2185	PTK2B	6714	SRC	L
2185	PTK2B	6850	SYK	L
2185	PTK2B	7041	TGFB111	L
2185	PTK2B	7094	TLN1	L
2185	PTK2B	7409	VAV1	L
2185	PTK2B	7535	ZAP70	L
2185	PTK2B	8853	DDEF2	L
2185	PTK2B	9404	LPXN	L
2185	PTK2B	9564	BCAR1	L
2185	PTK2B	9600	PITPNM1	L
2185	PTK2B	10278	EFS	L
2185	PTK2B	10672	GNA13	L
2185	PTK2B	57605	PITPNM2	L
2185	PTK2B	83394	PITPNM3	L
2186	FALZ	4150	MAZ	L
2188	FANCF	2189	FANCG	L
2188	FANCF	4140	MARK3	S
2188	FANCF	93145	OLFM2	S
2189	FANCG	2553	GABPB2	R
2189	FANCG	3880	KRT19	R
2189	FANCG	9189	ZBED1	R
2189	FANCG	83878	USHBP1	R
2189	FANCG	154075	SAMD3	R
2191	FAP	5329	PLAUR	L
2192	FBLN1	2244	FGB	L
2192	FBLN1	2335	FN1	L
2192	FBLN1	3339	HSPG2	L
2192	FBLN1	4089	SMAD4	L

2192	FBLN1	4856	NOV	L
2192	FBLN1	6498	SKIL	L
2192	FBLN1	8076	MFAP5	L
2193	FARSLA	10236	HNRPR	S
2197	FAU	5829	PXN	L
2197	FAU	10980	COPS6	S
2199	FBLN2	2200	FBN1	L
2199	FBLN2	2335	FN1	L
2199	FBLN2	3339	HSPG2	L
2199	FBLN2	3911	LAMA5	L
2199	FBLN2	4811	NID1	L
2199	FBLN2	5549	PRELP	L
2199	FBLN2	63827	BCAN	L
2199	FBLN2	80781	COL18A1	L
2199	FBLN2	284217	LAMA1	L
2200	FBN1	2201	FBN2	L
2200	FBN1	4237	MFAP2	L
2200	FBN1	4653	MYOC	L
2200	FBN1	8076	MFAP5	L
2201	FBN2	4087	SMAD2	L
2201	FBN2	4147	MATN2	L
2201	FBN2	8076	MFAP5	L
2202	EFEMP1	4089	SMAD4	L
2202	EFEMP1	6449	SGTA	R
2203	FBP1	3312	HSPA8	S
2203	FBP1	9513	FXR2	R
2203	FBP1	9551	ATP5J2	S
2203	FBP1	64430	C14orf135	R
2203	FBP1	84164	ASCC2	S
2203	FBP1	84708	LNX	R
2203	FBP1	138065	RNF183	R
2204	FCAR	2209	FCGR1A	L
2204	FCAR	4067	LYN	L
2205	FCER1A	2206	MS4A2	L
2205	FCER1A	2207	FCER1G	L
2205	FCER1A	3497	IGHE	L
2206	MS4A2	4067	LYN	L
2206	MS4A2	6850	SYK	L
2207	FCER1G	4067	LYN	L
2207	FCER1G	5336	PLCG2	L
2207	FCER1G	6850	SYK	L
2207	FCER1G	9437	NCR1	L
2207	FCER1G	51206	GP6	L
2208	FCER2	2534	FYN	L
2208	FCER2	3687	ITGAX	L
2209	FCGR1A	2214	FCGR3A	L
2209	FCGR1A	3055	HCK	L
2209	FCGR1A	3273	HRG	L
2209	FCGR1A	6850	SYK	L
2209	FCGR1A	27040	LAT	L
2212	FCGR2A	3055	HCK	L
2212	FCGR2A	3958	LGALS3	L
2212	FCGR2A	5295	PIK3R1	L
2212	FCGR2A	6464	SHC1	L
2212	FCGR2A	27040	LAT	L
2213	FCGR2B	3636	INPPL1	L
2213	FCGR2B	4061	LY6E	L
2213	FCGR2B	5777	PTPN6	L
2213	FCGR2B	11161	C14orf1	S
2214	FCGR3A	3932	LCK	L
2214	FCGR3A	5788	PTPRC	L
2214	FCGR3A	6464	SHC1	L
2214	FCGR3A	7535	ZAP70	L
2215	FCGR3B	3500	IGHG1	L
2219	FCN1	7040	TGFB1	L
2220	FCN2	5648	MASP1	L
2220	FCN2	10747	MASP2	L

2222	FDFT1	10856	RUVBL2	S
2222	FDFT1	23204	ARL6IP	S
2222	FDFT1	73121	(null)	S
2222	FDFT1	79188	TMEM43	S
2222	FDFT1	257218	SHPRH	S
2224	FDPS	2260	FGFR1	L
2230	FDX1	2232	FDXR	L
2230	FDX1	54205	CYCS	L
2237	FEN1	3178	HNRPA1	L
2237	FEN1	5111	PCNA	L
2237	FEN1	7414	VCL	L
2237	FEN1	7486	WRN	L
2239	GPC4	2247	FGF2	L
2239	GPC4	80781	COL18A1	L
2241	FER	6774	STAT3	L
2241	FER	7110	TMF1	L
2242	FES	3566	IL4R	L
2242	FES	5295	PIK3R1	L
2242	FES	5921	RASA1	L
2242	FES	6774	STAT3	L
2242	FES	9564	BCAR1	L
2242	FES	22821	RASA3	L
2242	FES	56896	DPYSL5	L
2243	FGA	2244	FGB	L
2243	FGA	2266	FGG	L
2243	FGA	3273	HRG	L
2243	FGA	3674	ITGA2B	L
2243	FGA	3690	ITGB3	L
2243	FGA	4811	NID1	L
2243	FGA	5104	SERPINA5	L
2243	FGA	5327	PLAT	L
2243	FGA	7057	THBS1	L
2243	FGA	7916	BAT2	L
2244	FGB	2266	FGG	L
2244	FGB	4018	LPA	L
2244	FGB	4811	NID1	L
2244	FGB	5104	SERPINA5	L
2246	FGF1	2260	FGFR1	L
2246	FGF1	2261	FGFR3	L
2246	FGF1	2263	FGFR2	L
2246	FGF1	2264	FGFR4	L
2246	FGF1	3313	HSPA9B	L
2246	FGF1	6284	S100A13	L
2246	FGF1	6857	SYT1	L
2246	FGF1	9158	FIBP	L
2246	FGF1	9982	FGFBP1	L
2247	FGF2	2260	FGFR1	L
2247	FGF2	2263	FGFR2	L
2247	FGF2	2264	FGFR4	L
2247	FGF2	2719	GPC3	L
2247	FGF2	3339	HSPG2	L
2247	FGF2	5196	PF4	L
2247	FGF2	6128	RPL6	L
2247	FGF2	6223	RPS19	L
2247	FGF2	7448	VTN	L
2247	FGF2	9672	SDC3	L
2247	FGF2	9982	FGFBP1	L
2247	FGF2	10563	CXCL13	L
2248	FGF3	2263	FGFR2	L
2250	FGF5	2260	FGFR1	L
2250	FGF5	2263	FGFR2	L
2250	FGF5	7039	TGFA	L
2250	FGF5	7422	VEGF	L
2251	FGF6	2264	FGFR4	L
2252	FGF7	2263	FGFR2	L
2252	FGF7	3339	HSPG2	L
2253	FGF8	2261	FGFR3	L

2253	FGF8	2264	FGFR4	L
2254	FGF9	2261	FGFR3	L
2254	FGF9	2263	FGFR2	L
2255	FGF10	2263	FGFR2	L
2257	FGF12	23542	MAPK8IP2	L
2258	FGF13	23542	MAPK8IP2	L
2260	FGFR1	2885	GRB2	L
2260	FGFR1	2888	GRB14	L
2260	FGFR1	3837	KPNB1	L
2260	FGFR1	4684	NCAM1	L
2260	FGFR1	6461	SHB	L
2260	FGFR1	6464	SHC1	L
2260	FGFR1	10817	FRS3	L
2260	FGFR1	10818	FRS2	L
2261	FGFR3	2885	GRB2	L
2261	FGFR3	2975	GTF3C1	S
2261	FGFR3	3050	HBZ	S
2261	FGFR3	3191	HNRPL	S
2261	FGFR3	3856	KRT8	S
2261	FGFR3	4726	NDUFS6	S
2261	FGFR3	5781	PTPN11	L
2261	FGFR3	6132	RPL8	S
2261	FGFR3	9887	C1orf16	S
2261	FGFR3	10571	SMA3	S
2261	FGFR3	23649	POLA2	S
2261	FGFR3	55698	FLJ10324	S
2261	FGFR3	55819	RNF130	S
2261	FGFR3	57562	KIAA1377	S
2261	FGFR3	63940	GPSM3	L
2261	FGFR3	79866	FLJ22624	S
2261	FGFR3	116985	CENTD2	S
2261	FGFR3	149483	CCDC17	S
2263	FGFR2	5335	PLCG1	L
2264	FGFR4	9965	FGF19	L
2266	FGG	3383	ICAM1	L
2266	FGG	3684	ITGAM	L
2266	FGG	5104	SERPINA5	L
2266	FGG	7448	VTN	L
2268	FGR	5747	PTK2	L
2268	FGR	6504	SLAMF1	L
2268	FGR	6850	SYK	L
2268	FGR	7454	WAS	L
2268	FGR	10971	YWHAQ	L
2271	FH	4191	MDH2	L
2272	FHIT	7329	UBE2I	L
2273	FHL1	2274	FHL2	L
2274	FHL2	2275	FHL3	L
2274	FHL2	3488	IGFBP5	L
2274	FHL2	3675	ITGA3	L
2274	FHL2	3679	ITGA7	L
2274	FHL2	3688	ITGB1	L
2274	FHL2	3689	ITGB2	L
2274	FHL2	3694	ITGB6	L
2274	FHL2	4176	MCM7	L
2274	FHL2	5664	PSEN2	L
2274	FHL2	6421	SFPQ	L
2274	FHL2	7273	TTN	L
2274	FHL2	7704	ZBTB16	L
2274	FHL2	9372	ZFYVE9	L
2274	FHL2	9457	FHL5	L
2274	FHL2	22900	CARD8	L
2274	FHL2	51455	REV1L	L
2275	FHL3	3927	LASP1	R
2275	FHL3	5594	MAPK1	L
2275	FHL3	7205	TRIP6	R
2275	FHL3	7965	JTV1	R
2275	FHL3	11135	CDC42EP1	R

2275	FHL3	11279	KLF8	L
2275	FHL3	51586	PCQAP	R
2275	FHL3	54507	TSRC1	R
2275	FHL3	57144	PAK7	R
2275	FHL3	79171	MGC10433	R
2275	FHL3	84708	LNX	R
2275	FHL3	222546	RFXDC1	R
2277	FIGF	2324	FLT4	L
2277	FIGF	3791	KDR	L
2280	FKBP1A	2288	FKBP4	L
2280	FKBP1A	2475	FRAP1	L
2280	FKBP1A	3708	ITPR1	L
2280	FKBP1A	5530	PPP3CA	L
2280	FKBP1A	5534	PPP3R1	L
2280	FKBP1A	6261	RYR1	L
2280	FKBP1A	6263	RYR3	L
2280	FKBP1A	7041	TGFB111	L
2280	FKBP1A	7046	TGFBR1	L
2280	FKBP1A	7528	YY1	L
2280	FKBP1A	11146	GLMN	L
2281	FKBP1B	6262	RYR2	L
2286	FKBP2	7917	BAT3	S
2286	FKBP2	10565	ARFGEF1	L
2287	FKBP3	3065	HDAC1	L
2287	FKBP3	3066	HDAC2	L
2287	FKBP3	7528	YY1	L
2288	FKBP4	2908	NR3C1	L
2288	FKBP4	3662	IRF4	L
2288	FKBP4	5264	PHYH	L
2288	FKBP4	11146	GLMN	L
2289	FKBP5	3320	HSPCA	L
2289	FKBP5	5241	PGR	L
2290	FOXG1B	2308	FOXO1A	L
2290	FOXG1B	2661	GDF9	S
2290	FOXG1B	3065	HDAC1	L
2290	FOXG1B	3280	HES1	L
2290	FOXG1B	4086	SMAD1	L
2290	FOXG1B	4303	MLLT7	L
2290	FOXG1B	7088	TLE1	L
2290	FOXG1B	7090	TLE3	L
2290	FOXG1B	10765	JARID1B	L
2295	FOXF2	2959	GTF2B	L
2295	FOXF2	6908	TBP	L
2304	FOXE1	5331	PLCB3	L
2307	FKHL18	11030	RBPMS	R
2308	FOXO1A	2538	G6PC	L
2308	FOXO1A	3172	HNF4A	L
2308	FOXO1A	3202	HOXA5	L
2308	FOXO1A	4088	SMAD3	L
2308	FOXO1A	4089	SMAD4	L
2308	FOXO1A	6714	SRC	L
2308	FOXO1A	7532	YWHAG	L
2308	FOXO1A	7534	YWHAZ	L
2309	FOXO3A	3551	IKBKB	L
2309	FOXO3A	4087	SMAD2	L
2309	FOXO3A	4088	SMAD3	L
2309	FOXO3A	4089	SMAD4	L
2309	FOXO3A	7534	YWHAZ	L
2313	FLI1	2623	GATA1	L
2313	FLI1	4093	SMAD9	L
2313	FLI1	6722	SRF	L
2314	FLII	9208	LRRFIP1	L
2314	FLII	9209	LRRFIP2	L
2314	FLII	10133	OPTN	L
2314	FLII	10293	TRIP	L
2316	FLNA	2317	FLNB	L
2316	FLNA	2811	GP1BA	L

2316	FLNA	2897	GRIK1	L
2316	FLNA	2899	GRIK3	L
2316	FLNA	2918	GRM8	L
2316	FLNA	3688	ITGB1	L
2316	FLNA	3695	ITGB7	L
2316	FLNA	4088	SMAD3	L
2316	FLNA	4090	SMAD5	L
2316	FLNA	4867	NPHP1	L
2316	FLNA	5045	FURIN	L
2316	FLNA	5663	PSEN1	L
2316	FLNA	5664	PSEN2	L
2316	FLNA	5829	PXN	L
2316	FLNA	5898	RALA	L
2316	FLNA	6401	SELE	L
2316	FLNA	6416	MAP2K4	L
2316	FLNA	7094	TLN1	L
2316	FLNA	7186	TRAF2	L
2316	FLNA	7204	TRIO	L
2316	FLNA	7428	VHL	L
2316	FLNA	9499	MYOT	L
2316	FLNA	10019	LNK	L
2316	FLNA	54751	FBLIM1	L
2316	FLNA	80790	CMIP	L
2316	FLNA	89790	SIGLEC10	L
2317	FLNB	2811	GP1BA	L
2317	FLNB	3688	ITGB1	L
2317	FLNB	4867	NPHP1	L
2317	FLNB	5663	PSEN1	L
2317	FLNB	5664	PSEN2	L
2317	FLNB	7253	TSHR	L
2317	FLNB	54751	FBLIM1	L
2317	FLNB	55729	ATF7IP	L
2317	FLNB	64750	SMURF2	L
2318	FLNC	3636	INPPL1	L
2318	FLNC	3751	KCND2	L
2318	FLNC	4867	NPHP1	L
2318	FLNC	5045	FURIN	L
2318	FLNC	6416	MAP2K4	L
2318	FLNC	6444	SGCD	L
2318	FLNC	6445	SGCG	L
2318	FLNC	9499	MYOT	L
2318	FLNC	10114	HIPK3	L
2318	FLNC	58529	MYOZ1	L
2318	FLNC	90102	PHLDB2	L
2321	FLT1	3791	KDR	L
2321	FLT1	5228	PGF	L
2321	FLT1	5336	PLCG2	L
2321	FLT1	6464	SHC1	L
2321	FLT1	7422	VEGF	L
2321	FLT1	7423	VEGFB	L
2321	FLT1	25759	SHC2	L
2322	FLT3	2323	FLT3LG	L
2322	FLT3	2885	GRB2	L
2322	FLT3	6464	SHC1	L
2322	FLT3	8651	SOCS1	L
2323	FLT3LG	4254	KITLG	L
2323	FLT3LG	5217	PFN2	S
2324	FLT4	2885	GRB2	L
2324	FLT4	3688	ITGB1	L
2324	FLT4	6464	SHC1	L
2324	FLT4	7424	VEGFC	L
2324	FLT4	55729	ATF7IP	L
2329	FMO4	7094	TLN1	L
2331	FMOD	7040	TGFB1	L
2331	FMOD	7042	TGFB2	L
2331	FMOD	7043	TGFB3	L
2332	FMR1	7329	UBE2I	L

2332	FMR1	8087	FXR1	L
2332	FMR1	9513	FXR2	L
2332	FMR1	23191	CYFIP1	L
2332	FMR1	26747	NUFIP1	L
2332	FMR1	26999	CYFIP2	L
2332	FMR1	57532	182-FIP	L
2335	FN1	2934	GSN	L
2335	FN1	3371	TNC	L
2335	FN1	3486	IGFBP3	L
2335	FN1	3675	ITGA3	L
2335	FN1	3676	ITGA4	L
2335	FN1	3694	ITGB6	L
2335	FN1	3695	ITGB7	L
2335	FN1	3959	LGALS3BP	L
2335	FN1	4018	LPA	L
2335	FN1	4052	LTBP1	L
2335	FN1	4089	SMAD4	L
2335	FN1	4093	SMAD9	L
2335	FN1	4147	MATN2	L
2335	FN1	4224	MEP1A	L
2335	FN1	4225	MEP1B	L
2335	FN1	4318	MMP9	L
2335	FN1	4653	MYOC	L
2335	FN1	4856	NOV	L
2335	FN1	5068	REG3A	L
2335	FN1	5310	PKD1	L
2335	FN1	5549	PRELP	L
2335	FN1	5829	PXN	L
2335	FN1	6383	SDC2	L
2335	FN1	6387	CXCL12	L
2335	FN1	6498	SKIL	L
2335	FN1	6863	TAC1	L
2335	FN1	7045	TGFBI	L
2335	FN1	7052	TGM2	L
2335	FN1	7057	THBS1	L
2335	FN1	7094	TLN1	L
2335	FN1	7253	TSHR	L
2335	FN1	7356	SCGB1A1	L
2335	FN1	7414	VCL	L
2335	FN1	7428	VHL	L
2335	FN1	8190	MIA	L
2335	FN1	8516	ITGA8	L
2335	FN1	55660	FNBP3	L
2335	FN1	90070	LACRT	L
2335	FN1	164656	TMPRSS6	L
2339	FNTA	2342	FNTB	L
2339	FNTA	7040	TGFB1	L
2339	FNTA	7046	TGFBR1	L
2348	FOLR1	4067	LYN	L
2353	FOS	2355	FOSL2	L
2353	FOS	2626	GATA4	L
2353	FOS	2963	GTF2F2	L
2353	FOS	3725	JUN	L
2353	FOS	3726	JUNB	L
2353	FOS	3727	JUND	L
2353	FOS	4094	MAF	L
2353	FOS	4286	MITF	L
2353	FOS	4773	NFATC2	L
2353	FOS	4790	NFKB1	L
2353	FOS	5371	PML	L
2353	FOS	5925	RB1	L
2353	FOS	5970	RELA	L
2353	FOS	6602	SMARCD1	L
2353	FOS	6872	TAF1	L
2353	FOS	6885	MAP3K7	L
2353	FOS	6908	TBP	L
2353	FOS	6927	TCF1	L

2353	FOS	7392	USF2	L
2353	FOS	7494	XBP1	L
2353	FOS	8648	NCOA1	L
2353	FOS	8986	RPS6KA4	L
2353	FOS	9586	CREB5	L
2353	FOS	9612	NCOR2	L
2353	FOS	9935	MAFB	L
2353	FOS	10538	BATF	L
2353	FOS	11016	ATF7	L
2353	FOS	25920	COBRA1	L
2354	FOSB	3725	JUN	L
2354	FOSB	3726	JUNB	L
2354	FOSB	3727	JUND	L
2354	FOSB	8061	FOSL1	L
2354	FOSB	9586	CREB5	L
2354	FOSB	9935	MAFB	L
2354	FOSB	11016	ATF7	L
2355	FOSL2	3725	JUN	L
2355	FOSL2	3726	JUNB	L
2355	FOSL2	3727	JUND	L
2355	FOSL2	7008	TEF	L
2355	FOSL2	9586	CREB5	L
2355	FOSL2	9935	MAFB	L
2355	FOSL2	11016	ATF7	L
2357	FPR1	2771	GNAI2	L
2395	FXN	9512	PMPCB	L
2444	FRK	5925	RB1	L
2475	FRAP1	5170	PDPK1	L
2475	FRAP1	10243	GPHN	L
2475	FRAP1	29979	UBQLN1	L
2475	FRAP1	57521	raptor	L
2475	FRAP1	253260	AVO3	L
2488	FSHB	2492	FSHR	L
2492	FSHR	2868	GRK4	L
2492	FSHR	2870	GRK6	L
2492	FSHR	6281	S100A10	L
2492	FSHR	7150	TOP1	L
2492	FSHR	7704	ZBTB16	L
2492	FSHR	10971	YWHAQ	L
2492	FSHR	23468	CBX5	L
2492	FSHR	26060	APPL	L
2494	NR5A2	8431	NR0B2	L
2494	NR5A2	8721	EDF1	L
2495	FTH1	2512	FTL	RS
2495	FTH1	9513	FXR2	R
2495	FTH1	29117	BRD7	S
2495	FTH1	51280	GOLPH2	S
2495	FTH1	80237	ELL3	S
2495	FTH1	197131	UBR1	S
2512	FTL	3827	KNG1	L
2512	FTL	4093	SMAD9	L
2512	FTL	5764	PTN	S
2512	FTL	6881	TAF10	S
2512	FTL	7786	MAP3K12	S
2512	FTL	10200	MPHOSPH6	L
2512	FTL	51678	MPP6	L
2516	NR5A1	2626	GATA4	L
2516	NR5A1	2959	GTF2B	L
2516	NR5A1	3725	JUN	L
2516	NR5A1	5307	PITX1	L
2516	NR5A1	6662	SOX9	L
2516	NR5A1	6667	SP1	L
2516	NR5A1	8204	NRIP1	L
2516	NR5A1	8648	NCOA1	L
2516	NR5A1	8721	EDF1	L
2516	NR5A1	55629	PNRC2	L
2516	NR5A1	55809	TRERF1	L

2517	FUCA1	7414	VCL	L
2521	FUS	3276	HRMT1L2	SL
2521	FUS	3609	ILF3	L
2521	FUS	4904	YBX1	L
2521	FUS	5725	PTBP1	L
2521	FUS	5970	RELA	L
2521	FUS	6256	RXRA	L
2521	FUS	6427	SFRS2	L
2521	FUS	6429	SFRS4	L
2521	FUS	6688	SPI1	L
2521	FUS	7067	THRA	L
2521	FUS	7094	TLN1	L
2521	FUS	7414	VCL	L
2521	FUS	7536	SF1	L
2521	FUS	10250	SRRM1	L
2521	FUS	10772	FUSIP1	L
2526	FUT4	3689	ITGB2	L
2526	FUT4	6403	SELP	L
2532	FY	2919	CXCL1	L
2532	FY	3576	IL8	L
2532	FY	6347	CCL2	L
2532	FY	6352	CCL5	L
2533	FYB	2534	FYN	L
2533	FYB	3937	LCP2	L
2533	FYB	4068	SH2D1A	L
2533	FYB	7408	VASP	L
2533	FYB	7454	WAS	L
2533	FYB	8631	SCAP1	L
2533	FYB	8935	SCAP2	L
2534	FYN	2887	GRB10	L
2534	FYN	2903	GRIN2A	L
2534	FYN	2904	GRIN2B	L
2534	FYN	3190	HNRPK	L
2534	FYN	3575	IL7R	L
2534	FYN	3702	ITK	L
2534	FYN	3717	JAK2	L
2534	FYN	4068	SH2D1A	L
2534	FYN	4099	MAG	L
2534	FYN	4162	MCAM	L
2534	FYN	4868	NPHS1	L
2534	FYN	4915	NTRK2	L
2534	FYN	5159	PDGFRB	L
2534	FYN	5175	PECAM1	L
2534	FYN	5295	PIK3R1	L
2534	FYN	5296	PIK3R2	L
2534	FYN	5329	PLAUR	L
2534	FYN	5335	PLCG1	L
2534	FYN	5336	PLCG2	L
2534	FYN	5338	PLD2	L
2534	FYN	5588	PRKCQ	L
2534	FYN	5781	PTPN11	L
2534	FYN	5786	PTPRA	L
2534	FYN	5788	PTPRC	L
2534	FYN	5829	PXN	L
2534	FYN	5894	RAF1	L
2534	FYN	6504	SLAMF1	L
2534	FYN	6622	SNCA	L
2534	FYN	6654	SOS1	L
2534	FYN	6693	SPN	L
2534	FYN	6850	SYK	L
2534	FYN	7070	THY1	L
2534	FYN	7225	TRPC6	L
2534	FYN	7277	TUBA1	L
2534	FYN	7278	TUBA2	L
2534	FYN	7297	TYK2	L
2534	FYN	7301	TYRO3	L
2534	FYN	7409	VAV1	L

2534	FYN	7454	WAS	L
2534	FYN	7535	ZAP70	L
2534	FYN	8631	SCAP1	L
2534	FYN	8651	SOCS1	L
2534	FYN	8751	ADAM15	L
2534	FYN	8935	SCAP2	L
2534	FYN	8936	WASF1	L
2534	FYN	9094	UNC119	L
2534	FYN	9564	BCAR1	L
2534	FYN	9672	SDC3	L
2534	FYN	10163	WASF2	L
2534	FYN	10188	TNK2	L
2534	FYN	10376	K-ALPHA-1	L
2534	FYN	10399	GNB2L1	L
2534	FYN	10657	KHDRBS1	L
2534	FYN	10666	CD226	L
2534	FYN	23360	FNBP4	L
2534	FYN	23607	CD2AP	L
2534	FYN	27240	SIT1	L
2534	FYN	51206	GP6	L
2534	FYN	51466	EVL	L
2534	FYN	55824	PAG1	L
2534	FYN	59341	TRPV4	L
2534	FYN	84867	PTPN5	L
2534	FYN	91746	YT521	L
2534	FYN	139716	GAB3	L
2547	XRCC6	2648	GCN5L2	L
2547	XRCC6	3221	HOXC4	L
2547	XRCC6	3297	HSF1	L
2547	XRCC6	4088	SMAD3	L
2547	XRCC6	4092	SMAD7	L
2547	XRCC6	4361	MRE11A	L
2547	XRCC6	4689	NCF4	L
2547	XRCC6	4809	NHP2L1	S
2547	XRCC6	4817	NIT1	S
2547	XRCC6	4851	NOTCH1	S
2547	XRCC6	5047	PAEP	S
2547	XRCC6	5050	PAFAH1B3	S
2547	XRCC6	5111	PCNA	L
2547	XRCC6	5175	PECAM1	S
2547	XRCC6	5223	PGAM1	S
2547	XRCC6	5272	SERPINB9	S
2547	XRCC6	5447	POR	S
2547	XRCC6	5451	POU2F1	L
2547	XRCC6	5452	POU2F2	L
2547	XRCC6	5599	MAPK8	L
2547	XRCC6	5826	ABCD4	S
2547	XRCC6	5829	PXN	L
2547	XRCC6	5928	RBBP4	S
2547	XRCC6	6176	RPLP1	S
2547	XRCC6	6498	SKIL	L
2547	XRCC6	6640	SNTA1	S
2547	XRCC6	6904	TBCD	S
2547	XRCC6	7014	TERF2	L
2547	XRCC6	7015	TERT	L
2547	XRCC6	7409	VAV1	L
2547	XRCC6	7486	WRN	L
2547	XRCC6	7520	XRCC5	L
2547	XRCC6	7534	YWHAZ	S
2547	XRCC6	8900	CCNA1	L
2547	XRCC6	9232	PTTG1	L
2547	XRCC6	10994	ILVBL	S
2547	XRCC6	22800	RRAS2	S
2547	XRCC6	23054	NCOA6	L
2547	XRCC6	23199	KIAA0182	S
2547	XRCC6	23411	SIRT1	L
2547	XRCC6	23468	CBX5	L

2547	XRCC6	55848	C9orf46	S
2547	XRCC6	57473	GM632	L
2547	XRCC6	65057	ACD	S
2547	XRCC6	79690	GAL3ST4	S
2547	XRCC6	79756	(null)	S
2547	XRCC6	90861	C16orf34	S
2547	XRCC6	113130	CDCA5	S
2547	XRCC6	116985	CENTD2	S
2547	XRCC6	380789	(null)	S
2549	GAB1	2885	GRB2	L
2549	GAB1	3643	INSR	L
2549	GAB1	4215	MAP3K3	L
2549	GAB1	4233	MET	L
2549	GAB1	5295	PIK3R1	L
2549	GAB1	5335	PLCG1	L
2549	GAB1	5336	PLCG2	L
2549	GAB1	5781	PTPN11	L
2549	GAB1	5979	RET	L
2549	GAB1	6654	SOS1	L
2549	GAB1	9402	GRAP2	L
2550	GABBR1	9568	GPR51	L
2550	GABBR1	22809	ATF5	L
2550	GABBR1	55743	CHFR	S
2550	GABBR1	152789	MARLIN1	L
2551	GABPA	6667	SP1	L
2551	GABPA	6670	SP3	L
2553	GABPB2	8615	VDP	R
2553	GABPB2	23424	TDRD7	R
2553	GABPB2	55885	LMO3	R
2553	GABPB2	286514	MAGEB18	R
2554	GABRA1	5580	PRKCD	L
2554	GABRA1	5582	PRKCG	L
2557	GABRA4	5582	PRKCG	L
2561	GABRB2	3350	HTR1A	L
2561	GABRB2	66008	ALS2CR3	L
2563	GABRD	29979	UBQLN1	R
2566	GABRG2	11337	GABARAP	L
2571	GAD1	23498	HAAO	R
2577	GAGE5	64396	GMCL1L	R
2580	GAK	3312	HSPA8	L
2580	GAK	8312	AXIN1	S
2580	GAK	8615	VDP	R
2580	GAK	8907	AP1M1	L
2580	GAK	10053	AP1M2	L
2587	GALR1	51083	GAL	L
2588	GALNS	4758	NEU1	L
2589	GALNT1	4582	MUC1	L
2590	GALNT2	4582	MUC1	L
2592	GALT	9319	TRIP13	R
2596	GAP43	5333	PLCD1	L
2596	GAP43	6709	SPTAN1	L
2596	GAP43	9135	RABEP1	L
2597	GAPDH	2911	GRM1	L
2597	GAPDH	3064	HD	L
2597	GAPDH	3910	LAMA4	S
2597	GAPDH	5050	PAFAH1B3	S
2597	GAPDH	5052	PRDX1	S
2597	GAPDH	5230	PGK1	L
2597	GAPDH	5272	SERPINB9	S
2597	GAPDH	5338	PLD2	L
2597	GAPDH	5584	PRKCI	L
2597	GAPDH	5717	PSMD11	S
2597	GAPDH	5829	PXN	L
2597	GAPDH	6118	RPA2	S
2597	GAPDH	6277	S100A6	L
2597	GAPDH	6310	ATXN1	L
2597	GAPDH	6513	SLC2A1	L

2597	GAPDH	7083	TK1	S
2597	GAPDH	7094	TLN1	L
2597	GAPDH	7414	VCL	L
2597	GAPDH	8655	DNCL1	L
2597	GAPDH	10542	HBXIP	S
2597	GAPDH	54622	ARFRP2	S
2597	GAPDH	55643	BTBD2	S
2597	GAPDH	56144	PCDHA4	S
2597	GAPDH	64714	PDIA2	L
2617	GARS	3376	IARS	L
2617	GARS	10243	GPHN	L
2619	GAS1	8788	DLK1	L
2621	GAS6	7301	TYRO3	L
2621	GAS6	10461	MERTK	L
2623	GATA1	4005	LMO2	L
2623	GATA1	6886	TAL1	L
2623	GATA1	7704	ZBTB16	L
2623	GATA1	10014	HDAC5	L
2623	GATA1	23414	ZFPM2	L
2624	GATA2	3725	JUN	L
2624	GATA2	5371	PML	L
2624	GATA2	5449	POU1F1	L
2624	GATA2	5914	RARA	L
2624	GATA2	6688	SPI1	L
2624	GATA2	7704	ZBTB16	L
2624	GATA2	8841	HDAC3	L
2624	GATA2	10014	HDAC5	L
2624	GATA2	161882	ZFPM1	L
2625	GATA3	4004	LMO1	L
2625	GATA3	4005	LMO2	L
2625	GATA3	6886	TAL1	L
2626	GATA4	4776	NFATC4	L
2626	GATA4	5595	MAPK3	L
2626	GATA4	6722	SRF	L
2626	GATA4	6910	TBX5	L
2626	GATA4	9464	HAND2	L
2626	GATA4	23414	ZFPM2	L
2629	GBA	5660	PSAP	L
2632	GBE1	5226	PGD	S
2634	GBP2	3336	HSPE1	S
2634	GBP2	5050	PAFAH1B3	S
2634	GBP2	5272	SERPINB9	S
2634	GBP2	5511	PPP1R8	S
2634	GBP2	6303	SAT	S
2634	GBP2	8087	FXR1	S
2634	GBP2	9223	MAGI1	S
2634	GBP2	10342	TFG	S
2634	GBP2	22929	SEPHS1	S
2634	GBP2	27252	KLHL20	S
2634	GBP2	55643	BTBD2	S
2634	GBP2	57819	LSM2	S
2635	GBP3	9448	MAP4K4	L
2638	GC	4036	LRP2	L
2638	GC	8029	CUBN	L
2638	GC	10169	SERF2	S
2638	GC	55791	C1orf103	S
2638	GC	79577	CDC73	S
2641	GCG	2642	GCGR	L
2641	GCG	2740	GLP1R	L
2641	GCG	9340	GLP2R	L
2642	GCGR	2778	GNAS	L
2643	GCH1	2644	GCHFR	L
2645	GCK	2646	GCKR	L
2647	BLOC1S1	4149	MAX	L
2647	BLOC1S1	5089	PBX2	L
2647	BLOC1S1	5764	PTN	S
2647	BLOC1S1	9112	MTA1	L

2648	GCN5L2	4609	MYC	L
2648	GCN5L2	6871	TADA2L	L
2649	NR6A1	9611	NCOR1	L
2649	NR6A1	10681	GNB5	S
2649	NR6A1	51720	RAP80	L
2650	GCNT1	5579	PRKCB1	L
2652	OPN1MW	5903	RANBP2	L
2653	GCSH	7704	ZBTB16	S
2653	GCSH	9111	NMI	R
2653	GCSH	84289	ING5	S
2660	GDF8	8557	TCAP	L
2660	GDF8	10272	FSTL3	L
2661	GDF9	3609	ILF3	S
2661	GDF9	3835	KIF22	S
2661	GDF9	4715	NDUFB9	S
2661	GDF9	5050	PAFAH1B3	S
2661	GDF9	5272	SERPINB9	S
2661	GDF9	5717	PSMD11	S
2661	GDF9	5873	RAB27A	S
2661	GDF9	6279	S100A8	S
2661	GDF9	6303	SAT	S
2661	GDF9	6606	SMN1	S
2661	GDF9	6637	SNRPG	S
2661	GDF9	6997	TDGF1	S
2661	GDF9	7083	TK1	S
2661	GDF9	8575	PRKRA	S
2661	GDF9	10200	MPHOSPH6	S
2661	GDF9	10301	DLEU1	S
2661	GDF9	11243	PMF1	S
2661	GDF9	23028	AOF2	S
2661	GDF9	25843	PREI3	S
2661	GDF9	26292	MYCBP	S
2661	GDF9	27258	LSM3	S
2661	GDF9	29888	STRN4	S
2661	GDF9	51019	CGI-116	S
2661	GDF9	51319	RSRC1	S
2661	GDF9	53826	FXVD6	S
2661	GDF9	55643	BTBD2	S
2661	GDF9	56144	PCDHA4	S
2661	GDF9	57761	TRIB3	S
2661	GDF9	78987	CRELD1	S
2661	GDF9	79756	(null)	S
2661	GDF9	80228	C7orf19	S
2661	GDF9	83440	ADPGK	S
2664	GDI1	5880	RAC2	L
2664	GDI1	10567	RABAC1	L
2664	GDI1	81876	RAB1B	L
2665	GDI2	4218	RAB8A	L
2665	GDI2	5862	RAB2	L
2665	GDI2	5867	RAB4A	L
2665	GDI2	5868	RAB5A	L
2665	GDI2	8766	RAB11A	L
2665	GDI2	9367	RAB9A	L
2668	GDNF	2674	GFRA1	L
2668	GDNF	2675	GFRA2	L
2668	GDNF	5979	RET	L
2669	GEM	9260	PDLIM7	R
2669	GEM	51291	GMIP	L
2670	GFAP	4221	MEN1	L
2670	GFAP	5174	PDZK1	R
2670	GFAP	5663	PSEN1	L
2670	GFAP	6271	S100A1	L
2670	GFAP	6285	S100B	L
2670	GFAP	6714	SRC	L
2670	GFAP	7431	VIM	R
2670	GFAP	9124	PDLIM1	R
2670	GFAP	9260	PDLIM7	R

2670	GFAP	9402	GRAP2	R
2670	GFAP	9729	KIAA0408	R
2670	GFAP	9883	POM121	R
2670	GFAP	26150	RIBC2	R
2670	GFAP	26751	SH3YL1	R
2670	GFAP	27229	76P	R
2670	GFAP	79959	C18orf9	R
2670	GFAP	80022	MYO15B	R
2671	GFER	10987	COPS5	L
2671	GFER	84164	ASCC2	S
2671	GFER	149428	BNIP1	L
2672	GFI1	10401	PIAS3	L
2674	GFRA1	4902	NRTN	L
2674	GFRA1	5979	RET	L
2676	GFRA3	9048	ARTN	L
2683	B4GALT1	3906	LALBA	L
2688	GH1	2690	GHR	L
2688	GH1	5618	PRLR	L
2689	GH2	2690	GHR	L
2690	GHR	2885	GRB2	L
2690	GHR	2887	GRB10	L
2690	GHR	3716	JAK1	L
2690	GHR	3717	JAK2	L
2690	GHR	5295	PIK3R1	L
2690	GHR	5777	PTPN6	L
2690	GHR	5781	PTPN11	L
2690	GHR	6449	SGTA	L
2690	GHR	6464	SHC1	L
2690	GHR	6774	STAT3	L
2690	GHR	6776	STAT5A	L
2690	GHR	6777	STAT5B	L
2690	GHR	7297	TYK2	L
2690	GHR	8651	SOCS1	L
2690	GHR	8835	SOCS2	L
2690	GHR	9021	SOCS3	L
2691	GHRH	2692	GHRHR	L
2692	GHRHR	51738	GHRL	L
2693	GHSR	51738	GHRL	L
2694	GIF	8029	CUBN	L
2697	GJA1	2700	GJA3	L
2697	GJA1	2702	GJA5	L
2697	GJA1	5578	PRKCA	L
2697	GJA1	5581	PRKCE	L
2697	GJA1	5598	MAPK7	L
2697	GJA1	6271	S100A1	L
2697	GJA1	6714	SRC	L
2697	GJA1	7082	TJP1	L
2700	GJA3	4284	MIP	L
2700	GJA3	7082	TJP1	L
2702	GJA5	25980	C20orf4	R
2703	GJA8	4284	MIP	L
2703	GJA8	7082	TJP1	L
2705	GJB1	2706	GJB2	L
2705	GJB1	4950	OCLN	L
2707	GJB3	7082	TJP1	L
2719	GPC3	3481	IGF2	L
2719	GPC3	10518	CIB2	L
2720	GLB1	4758	NEU1	L
2733	GLE1L	9631	NUP155	L
2734	GLG1	6401	SELE	L
2735	GLI1	7545	ZIC1	L
2735	GLI1	7546	ZIC2	L
2735	GLI1	27148	STK36	L
2735	GLI1	51684	SUFU	L
2736	GLI2	7545	ZIC1	L
2736	GLI2	7546	ZIC2	L
2736	GLI2	27148	STK36	L

2736	GLI2	51684	SUFU	L
2737	GLI3	4086	SMAD1	L
2737	GLI3	4087	SMAD2	L
2737	GLI3	4088	SMAD3	L
2737	GLI3	4089	SMAD4	L
2737	GLI3	7291	TWIST1	L
2737	GLI3	7545	ZIC1	L
2737	GLI3	7546	ZIC2	L
2737	GLI3	27148	STK36	L
2737	GLI3	51684	SUFU	L
2742	GLRA2	5662	PSD	S
2742	GLRA2	7917	BAT3	S
2742	GLRA2	56927	GPR108	S
2743	GLRB	10243	GPHN	L
2744	GLS	6640	SNTA1	L
2745	GLRX	4217	MAP3K5	L
2747	GLUD2	10040	TOM1L1	S
2752	GLUL	6498	SKIL	L
2752	GLUL	8655	DNCL1	L
2752	GLUL	79666	PLEKHF2	R
2752	GLUL	79873	NUDT18	R
2760	GM2A	2822	GPLD1	L
2760	GM2A	3073	HEXA	L
2760	GM2A	5338	PLD2	L
2764	GMFB	5594	MAPK1	L
2764	GMFB	5595	MAPK3	L
2767	GNA11	3356	HTR2A	L
2767	GNA11	4543	MTNR1A	L
2767	GNA11	5739	PTGIR	L
2767	GNA11	5998	RGS3	L
2767	GNA11	6915	TBXA2R	L
2768	GNA12	2782	GNB1	L
2768	GNA12	3320	HSPCA	L
2768	GNA12	5536	PPP5C	L
2768	GNA12	5578	PRKCA	L
2768	GNA12	5922	RASA2	L
2768	GNA12	6915	TBXA2R	L
2768	GNA12	7006	TEC	L
2768	GNA12	7253	TSHR	L
2768	GNA12	8698	EDG6	L
2768	GNA12	9826	ARHGEF11	L
2768	GNA12	23365	ARHGEF12	L
2769	GNA15	3577	IL8RA	L
2769	GNA15	3579	IL8RB	L
2769	GNA15	4985	OPRD1	L
2769	GNA15	4986	OPRK1	L
2769	GNA15	4988	OPRM1	L
2769	GNA15	5997	RGS2	L
2769	GNA15	7265	TTC1	L
2769	GNA15	59340	HRH4	L
2770	GNAI1	2825	GPR1	L
2770	GNAI1	2864	GPR40	L
2770	GNAI1	3356	HTR2A	L
2770	GNAI1	3480	IGF1R	L
2770	GNAI1	4935	GPR143	L
2770	GNAI1	4988	OPRM1	L
2770	GNAI1	5147	PDE6D	L
2770	GNAI1	5999	RGS4	L
2770	GNAI1	6000	RGS7	L
2770	GNAI1	6001	RGS10	L
2770	GNAI1	6002	RGS12	L
2770	GNAI1	6752	SSTR2	L
2770	GNAI1	6753	SSTR3	L
2770	GNAI1	9294	EDG5	L
2770	GNAI1	10287	RGS19	L
2770	GNAI1	10636	RGS14	L
2770	GNAI1	51655	RASD1	L

2770	GNAI1	53637	EDG8	L
2770	GNAI1	58157	NGB	L
2770	GNAI1	59340	HRH4	L
2770	GNAI1	64407	RGS18	L
2771	GNAI2	3480	IGF1R	L
2771	GNAI2	3576	IL8	L
2771	GNAI2	3577	IL8RA	L
2771	GNAI2	3973	LHCGR	L
2771	GNAI2	4188	MDFI	R
2771	GNAI2	4543	MTNR1A	L
2771	GNAI2	4924	NUCB1	L
2771	GNAI2	4985	OPRD1	L
2771	GNAI2	4988	OPRM1	L
2771	GNAI2	5359	PLSCR1	R
2771	GNAI2	5999	RGS4	L
2771	GNAI2	6002	RGS12	L
2771	GNAI2	8490	RGS5	L
2771	GNAI2	10287	RGS19	L
2771	GNAI2	10636	RGS14	L
2771	GNAI2	22142	(null)	S
2771	GNAI2	23566	EDG7	L
2771	GNAI2	29899	GPSM2	L
2771	GNAI2	51655	RASD1	L
2771	GNAI2	58157	NGB	L
2771	GNAI2	64407	RGS18	L
2771	GNAI2	64805	P2RY12	L
2773	GNAI3	4543	MTNR1A	L
2773	GNAI3	5998	RGS3	L
2773	GNAI3	6000	RGS7	L
2773	GNAI3	6001	RGS10	L
2773	GNAI3	6002	RGS12	L
2773	GNAI3	6004	RGS16	L
2773	GNAI3	8490	RGS5	L
2773	GNAI3	10287	RGS19	L
2773	GNAI3	10636	RGS14	L
2773	GNAI3	29899	GPSM2	L
2773	GNAI3	58157	NGB	L
2773	GNAI3	64407	RGS18	L
2775	GNAO1	2867	GPR43	L
2775	GNAO1	3355	HTR1F	L
2775	GNAO1	4985	OPRD1	L
2775	GNAO1	4988	OPRM1	L
2775	GNAO1	5999	RGS4	L
2775	GNAO1	6000	RGS7	L
2775	GNAO1	6334	SCN8A	L
2775	GNAO1	8490	RGS5	L
2775	GNAO1	10287	RGS19	L
2775	GNAO1	10540	DCTN2	S
2775	GNAO1	10636	RGS14	L
2775	GNAO1	29899	GPSM2	L
2775	GNAO1	53637	EDG8	L
2775	GNAO1	58157	NGB	L
2775	GNAO1	59340	HRH4	L
2776	GNAQ	2864	GPR40	L
2776	GNAQ	2867	GPR43	L
2776	GNAQ	2912	GRM2	L
2776	GNAQ	2914	GRM4	L
2776	GNAQ	2917	GRM7	L
2776	GNAQ	3356	HTR2A	L
2776	GNAQ	3357	HTR2B	L
2776	GNAQ	3362	HTR6	L
2776	GNAQ	5290	PIK3CA	L
2776	GNAQ	5330	PLCB2	L
2776	GNAQ	5739	PTGIR	L
2776	GNAQ	5997	RGS2	L
2776	GNAQ	5999	RGS4	L
2776	GNAQ	6000	RGS7	L

2776	GNAQ	6915	TBXA2R	L
2776	GNAQ	7265	TTC1	L
2776	GNAQ	7433	VIPR1	L
2776	GNAQ	8490	RGS5	L
2776	GNAQ	8811	GALR2	L
2776	GNAQ	9294	EDG5	L
2776	GNAQ	9368	SLC9A3R1	L
2776	GNAQ	11214	AKAP13	L
2776	GNAQ	23236	PLCB1	L
2776	GNAQ	64407	RGS18	L
2778	GNAS	2782	GNB1	L
2778	GNAS	3362	HTR6	L
2778	GNAS	3973	LHCGR	L
2778	GNAS	5729	PTGDR	L
2778	GNAS	5739	PTGIR	L
2778	GNAS	5997	RGS2	L
2778	GNAS	7265	TTC1	L
2778	GNAS	7433	VIPR1	L
2778	GNAS	23161	SNX13	L
2778	GNAS	55188	RIC8B	L
2778	GNAS	58473	PLEKHB1	L
2781	GNAZ	4985	OPRD1	L
2781	GNAZ	5909	RAP1GA1	L
2781	GNAZ	6000	RGS7	L
2781	GNAZ	6001	RGS10	L
2781	GNAZ	8601	RGS20	L
2781	GNAZ	10287	RGS19	L
2782	GNB1	2788	GNG7	L
2782	GNB1	2790	GNG10	L
2782	GNB1	2792	GNGT1	L
2782	GNB1	10399	GNB2L1	L
2783	GNB2	2792	GNGT1	L
2784	GNB3	2792	GNGT1	L
2788	GNG7	4356	MPP3	S
2788	GNG7	10681	GNB5	L
2788	GNG7	51205	ACP6	S
2790	GNG10	8844	KSR	L
2791	GNG11	11244	ZHX1	S
2791	GNG11	51421	AMOTL2	R
2792	GNGT1	6010	RHO	L
2792	GNGT1	58473	PLEKHB1	L
2793	GNGT2	3761	KCNJ4	L
2796	GNRH1	2798	GNRHR	L
2798	GNRHR	6001	RGS10	L
2800	GOLGA1	5870	RAB6A	L
2801	GOLGA2	2874	GPS2	S
2801	GOLGA2	3983	ABLIM1	R
2801	GOLGA2	5861	RAB1A	L
2801	GOLGA2	5862	RAB2	RL
2801	GOLGA2	9883	POM121	R
2801	GOLGA2	23650	TRIM29	R
2801	GOLGA2	26003	GORASP2	L
2801	GOLGA2	27229	76P	R
2801	GOLGA2	58500	ZNF250	R
2801	GOLGA2	64689	GORASP1	L
2801	GOLGA2	81876	RAB1B	L
2801	GOLGA2	83452	RAB33B	L
2801	GOLGA2	84622	ZNF594	S
2803	GOLGA4	23499	MACF1	L
2804	GOLGB1	4694	NDUFA1	S
2804	GOLGB1	5217	PFN2	S
2804	GOLGB1	6498	SKIL	L
2804	GOLGB1	6515	SLC2A3	S
2804	GOLGB1	8615	VDP	L
2804	GOLGB1	10490	VT11B	S
2804	GOLGB1	25855	BRMS1	S
2804	GOLGB1	57562	KIAA1377	S

2804	GOLGB1	64746	ACBD3	L
2804	GOLGB1	362598	(null)	S
2805	GOT1	83862	TMPIT	S
2806	GOT2	3312	HSPA8	L
2806	GOT2	4191	MDH2	L
2806	GOT2	64429	ZDHHC6	S
2806	GOT2	80145	NIF3L1BP1	S
2810	SFN	2908	NR3C1	L
2810	SFN	3875	KRT18	L
2810	SFN	4140	MARK3	R
2810	SFN	7538	ZFP36	L
2810	SFN	7706	TRIM25	L
2810	SFN	8534	CHST1	R
2810	SFN	9413	C9orf61	R
2810	SFN	9721	KIAA0514	R
2810	SFN	9729	KIAA0408	R
2810	SFN	10014	HDAC5	L
2810	SFN	10607	TBL3	R
2810	SFN	10733	PLK4	R
2810	SFN	55093	C8orf32	R
2810	SFN	55749	CCAR1	L
2810	SFN	79666	PLEKHF2	R
2811	GP1BA	2814	GP5	L
2811	GP1BA	3684	ITGAM	L
2811	GP1BA	3827	KNG1	L
2811	GP1BA	6403	SELP	L
2811	GP1BA	7450	VWF	L
2811	GP1BA	7534	YWHAZ	L
2811	GP1BA	55644	OSGEP	L
2812	GP1BB	7534	YWHAZ	L
2817	GPC1	6585	SLIT1	L
2817	GPC1	7422	VEGF	L
2817	GPC1	9353	SLIT2	L
2817	GPC1	80781	COL18A1	L
2819	GPD1	4190	MDH1	L
2819	GPD1	5764	PTN	S
2826	CCR10	6347	CCL2	L
2826	CCR10	6354	CCL7	L
2826	CCR10	7916	BAT2	L
2826	CCR10	10850	CCL27	L
2826	CCR10	56477	CCL28	L
2829	XCR1	6375	XCL1	L
2829	XCR1	6846	XCL2	L
2831	GPR7	6129	RPL7	L
2833	CXCR3	3627	CXCL10	L
2833	CXCR3	4283	CXCL9	L
2833	CXCR3	5196	PF4	L
2833	CXCR3	6373	CXCL11	L
2833	CXCR3	10563	CXCL13	L
2834	GPR10	51052	PRLH	L
2837	UTS2R	10911	UTS2	L
2840	GPR17	10672	GNA13	L
2849	GPR26	3350	HTR1A	L
2861	GPR37	5071	PARK2	L
2861	GPR37	10273	STUB1	L
2862	MLNR	51738	GHRL	L
2869	GRK5	5957	RCV1	L
2869	GRK5	6010	RHO	L
2869	GRK5	6623	SNCG	L
2869	GRK5	6869	TACR1	L
2869	GRK5	6915	TBXA2R	L
2869	GRK5	28964	GIT1	L
2870	GRK6	5957	RCV1	L
2870	GRK6	6010	RHO	L
2870	GRK6	6915	TBXA2R	L
2870	GRK6	9368	SLC9A3R1	L
2870	GRK6	11098	PRSS23	S

2870	GRK6	28964	GIT1	L
2872	MKNK2	5594	MAPK1	L
2873	GPS1	79735	TBC1D17	S
2874	GPS2	7157	TP53	L
2874	GPS2	8900	CCNA1	L
2874	GPS2	9869	SETDB1	S
2874	GPS2	54908	FLJ20364	S
2874	GPS2	55872	PBK	S
2874	GPS2	56911	C21orf7	R
2874	GPS2	79173	MGC11271	R
2882	GPX7	6449	SGTA	R
2885	GRB2	2886	GRB7	L
2885	GRB2	2889	RAPGEF1	L
2885	GRB2	3064	HD	L
2885	GRB2	3183	HNRPC	L
2885	GRB2	3265	HRAS	L
2885	GRB2	3560	IL2RB	L
2885	GRB2	3635	INPP5D	L
2885	GRB2	3655	ITGA6	L
2885	GRB2	3667	IRS1	L
2885	GRB2	3674	ITGA2B	L
2885	GRB2	3691	ITGB4	L
2885	GRB2	3702	ITK	L
2885	GRB2	3716	JAK1	L
2885	GRB2	3717	JAK2	L
2885	GRB2	3791	KDR	L
2885	GRB2	3815	KIT	L
2885	GRB2	4133	MAP2	L
2885	GRB2	4233	MET	L
2885	GRB2	4486	MST1R	L
2885	GRB2	4582	MUC1	L
2885	GRB2	4914	NTRK1	L
2885	GRB2	4952	OCRL	L
2885	GRB2	5058	PAK1	L
2885	GRB2	5148	PDE6G	L
2885	GRB2	5159	PDGFRB	L
2885	GRB2	5287	PIK3C2B	L
2885	GRB2	5295	PIK3R1	L
2885	GRB2	5296	PIK3R2	L
2885	GRB2	5335	PLCG1	L
2885	GRB2	5573	PRKAR1A	L
2885	GRB2	5621	PRNP	L
2885	GRB2	5716	PSMD10	L
2885	GRB2	5747	PTK2	L
2885	GRB2	5770	PTPN1	L
2885	GRB2	5777	PTPN6	L
2885	GRB2	5781	PTPN11	L
2885	GRB2	5782	PTPN12	L
2885	GRB2	5786	PTPRA	L
2885	GRB2	5788	PTPRC	L
2885	GRB2	5791	PTPRE	L
2885	GRB2	5913	RAPSN	L
2885	GRB2	5921	RASA1	L
2885	GRB2	5979	RET	L
2885	GRB2	6300	MAPK12	L
2885	GRB2	6352	CCL5	L
2885	GRB2	6402	SELL	L
2885	GRB2	6442	SGCA	L
2885	GRB2	6452	SH3BP2	L
2885	GRB2	6461	SHB	L
2885	GRB2	6640	SNTA1	L
2885	GRB2	6654	SOS1	L
2885	GRB2	6655	SOS2	L
2885	GRB2	6714	SRC	L
2885	GRB2	6850	SYK	L
2885	GRB2	6853	SYN1	L
2885	GRB2	7010	TEK	L

2885	GRB2	7132	TNFRSF1A	L
2885	GRB2	7275	TUB	L
2885	GRB2	7409	VAV1	L
2885	GRB2	7410	VAV2	L
2885	GRB2	7454	WAS	L
2885	GRB2	7462	LAT2	L
2885	GRB2	7916	BAT2	L
2885	GRB2	8038	ADAM12	L
2885	GRB2	8471	IRS4	L
2885	GRB2	8626	TP73L	L
2885	GRB2	8631	SCAP1	L
2885	GRB2	8651	SOCS1	L
2885	GRB2	8660	IRS2	L
2885	GRB2	8751	ADAM15	L
2885	GRB2	8867	SYNJ1	L
2885	GRB2	8871	SYNJ2	L
2885	GRB2	8936	WASF1	L
2885	GRB2	8976	WASL	L
2885	GRB2	9101	USP8	L
2885	GRB2	9112	MTA1	L
2885	GRB2	9185	REPS2	L
2885	GRB2	9564	BCAR1	L
2885	GRB2	9649	RALGPS1	L
2885	GRB2	9712	USP6NL	L
2885	GRB2	9846	GAB2	L
2885	GRB2	10019	LNK	L
2885	GRB2	10040	TOM1L1	L
2885	GRB2	10163	WASF2	L
2885	GRB2	10188	TNK2	L
2885	GRB2	10252	SPRY1	L
2885	GRB2	10253	SPRY2	L
2885	GRB2	10451	VAV3	L
2885	GRB2	10461	MERTK	L
2885	GRB2	10657	KHDRBS1	L
2885	GRB2	10817	FRS3	L
2885	GRB2	10818	FRS2	L
2885	GRB2	10825	NEU3	L
2885	GRB2	11184	MAP4K1	L
2885	GRB2	23607	CD2AP	L
2885	GRB2	23624	CBLC	L
2885	GRB2	26191	PTPN22	L
2885	GRB2	27036	SIGLEC7	L
2885	GRB2	27040	LAT	L
2885	GRB2	27240	SIT1	L
2885	GRB2	29760	BLNK	L
2885	GRB2	30011	SH3KBP1	L
2885	GRB2	51517	NCKIPSD	L
2885	GRB2	54900	LAX1	L
2885	GRB2	55824	PAG1	L
2885	GRB2	85021	REPS1	L
2885	GRB2	139716	GAB3	L
2886	GRB7	3643	INSR	L
2886	GRB7	3815	KIT	L
2886	GRB7	5747	PTK2	L
2886	GRB7	5979	RET	L
2886	GRB7	7010	TEK	L
2887	GRB10	3480	IGF1R	L
2887	GRB10	3643	INSR	L
2887	GRB10	3717	JAK2	L
2887	GRB10	3791	KDR	L
2887	GRB10	3815	KIT	L
2887	GRB10	4734	NEDD4	L
2887	GRB10	5159	PDGFRB	L
2887	GRB10	5604	MAP2K1	L
2887	GRB10	5894	RAF1	L
2887	GRB10	5979	RET	L
2887	GRB10	26058	TNRC15	L

2887	GRB10	64599	PERQ1	L
2888	GRB14	3643	INSR	L
2888	GRB14	5156	PDGFRA	L
2888	GRB14	5159	PDGFRB	L
2888	GRB14	5590	PRKCZ	L
2888	GRB14	7010	TEK	L
2888	GRB14	80351	TNKS2	L
2889	RAPGEF1	3055	HCK	L
2889	RAPGEF1	5156	PDGFRA	L
2889	RAPGEF1	6464	SHC1	L
2889	RAPGEF1	9564	BCAR1	L
2889	RAPGEF1	22800	RRAS2	L
2890	GRIA1	2893	GRIA4	L
2890	GRIA1	2895	GRID2	L
2890	GRIA1	2898	GRIK2	L
2890	GRIA1	3309	HSPA5	L
2890	GRIA1	6386	SDCBP	L
2890	GRIA1	9456	HOMER1	L
2890	GRIA1	10369	CACNG2	L
2891	GRIA2	6386	SDCBP	L
2891	GRIA2	6709	SPTAN1	L
2892	GRIA3	4067	LYN	L
2892	GRIA3	5496	PPM1G	L
2892	GRIA3	6386	SDCBP	L
2893	GRIA4	5582	PRKCG	L
2893	GRIA4	6386	SDCBP	L
2895	GRID2	2898	GRIK2	L
2895	GRID2	2901	GRIK5	L
2895	GRID2	5775	PTPN4	L
2895	GRID2	57120	GOPC	L
2896	GRN	3101	HK3	L
2896	GRN	3198	HOXA1	R
2896	GRN	3339	HSPG2	L
2896	GRN	4093	SMAD9	L
2896	GRN	6590	SLPI	L
2896	GRN	8788	DLK1	L
2896	GRN	8940	TOP3B	L
2896	GRN	348487	C1orf117	R
2897	GRIK1	6386	SDCBP	L
2897	GRIK1	9456	HOMER1	L
2898	GRIK2	2900	GRIK4	L
2898	GRIK2	2901	GRIK5	L
2898	GRIK2	6386	SDCBP	L
2898	GRIK2	8573	CASK	L
2899	GRIK3	2901	GRIK5	L
2901	GRIK5	4291	MLF1	S
2901	GRIK5	8733	GPAA1	S
2901	GRIK5	51280	GOLPH2	S
2901	GRIK5	90678	LRSAM1	S
2902	GRIN1	2903	GRIN2A	L
2903	GRIN2A	3603	IL16	L
2903	GRIN2A	5775	PTPN4	L
2903	GRIN2A	6714	SRC	L
2903	GRIN2A	9229	DLGAP1	L
2903	GRIN2A	10207	INADL	L
2904	GRIN2B	3603	IL16	L
2904	GRIN2B	5071	PARK2	L
2904	GRIN2B	6714	SRC	L
2904	GRIN2B	8825	LIN7A	L
2904	GRIN2B	10207	INADL	L
2904	GRIN2B	10399	GNB2L1	L
2904	GRIN2B	260425	MAGI3	L
2905	GRIN2C	3603	IL16	L
2905	GRIN2C	10207	INADL	L
2906	GRIN2D	3603	IL16	L
2906	GRIN2D	10207	INADL	L
2908	NR3C1	3175	ONECUT1	L

2908	NR3C1	3192	HNRPU	L
2908	NR3C1	3211	HOXB1	L
2908	NR3C1	3320	HSPCA	L
2908	NR3C1	3416	IDE	L
2908	NR3C1	3557	IL1RN	L
2908	NR3C1	4088	SMAD3	L
2908	NR3C1	4306	NR3C2	L
2908	NR3C1	4691	NCL	L
2908	NR3C1	4790	NFKB1	L
2908	NR3C1	4791	NFKB2	L
2908	NR3C1	5087	PBX1	L
2908	NR3C1	5449	POU1F1	L
2908	NR3C1	5452	POU2F2	L
2908	NR3C1	5763	PTMS	L
2908	NR3C1	5894	RAF1	L
2908	NR3C1	5927	JARID1A	L
2908	NR3C1	5970	RELA	L
2908	NR3C1	6595	SMARCA2	L
2908	NR3C1	6598	SMARCB1	L
2908	NR3C1	6602	SMARCD1	L
2908	NR3C1	6605	SMARCE1	L
2908	NR3C1	6774	STAT3	L
2908	NR3C1	6776	STAT5A	L
2908	NR3C1	6777	STAT5B	L
2908	NR3C1	6908	TBP	L
2908	NR3C1	7041	TGFB111	L
2908	NR3C1	7157	TP53	L
2908	NR3C1	7251	TSG101	L
2908	NR3C1	7295	TXN	L
2908	NR3C1	7329	UBE2I	L
2908	NR3C1	7341	SUMO1	L
2908	NR3C1	7533	YWHAH	L
2908	NR3C1	7704	ZBTB16	L
2908	NR3C1	7818	DAP3	L
2908	NR3C1	8204	NRIP1	L
2908	NR3C1	8648	NCOA1	L
2908	NR3C1	8805	TRIM24	L
2908	NR3C1	8991	SELENBP1	L
2908	NR3C1	9282	CRSP2	L
2908	NR3C1	9604	RNF14	L
2908	NR3C1	9611	NCOR1	L
2908	NR3C1	9612	NCOR2	L
2908	NR3C1	10155	TRIM28	L
2908	NR3C1	10499	NCOA2	L
2908	NR3C1	10891	PPARGC1A	L
2908	NR3C1	11319	HSGT1	L
2908	NR3C1	23054	NCOA6	L
2908	NR3C1	24148	C20orf14	L
2908	NR3C1	27043	PELP1	L
2911	GRM1	3708	ITPR1	L
2911	GRM1	7280	TUBB2	L
2911	GRM1	9456	HOMER1	L
2912	GRM2	6002	RGS12	L
2913	GRM3	6386	SDCBP	L
2915	GRM5	6002	RGS12	L
2917	GRM7	7277	TUBA1	L
2917	GRM7	7278	TUBA2	L
2917	GRM7	7846	TUBA3	L
2917	GRM7	10376	K-ALPHA-1	L
2917	GRM7	51807	TUBA8	L
2919	CXCL1	3577	IL8RA	L
2919	CXCL1	3579	IL8RB	L
2920	CXCL2	3577	IL8RA	L
2920	CXCL2	3579	IL8RB	L
2920	CXCL2	5340	PLG	L
2921	CXCL3	3577	IL8RA	L
2921	CXCL3	3579	IL8RB	L

2922	GRP	2925	GRPR	L
2923	PDIA3	2995	GYPC	L
2923	PDIA3	3105	HLA-A	L
2923	PDIA3	3458	IFNG	L
2923	PDIA3	5829	PXN	L
2923	PDIA3	6513	SLC2A1	L
2923	PDIA3	6559	SLC12A3	L
2923	PDIA3	6774	STAT3	L
2923	PDIA3	6890	TAP1	L
2923	PDIA3	7094	TLN1	L
2923	PDIA3	7414	VCL	L
2928	GSCL	6047	RNF4	L
2932	GSK3B	3611	ILK	L
2932	GSK3B	4137	MAPT	L
2932	GSK3B	4582	MUC1	L
2932	GSK3B	4790	NFKB1	L
2932	GSK3B	4851	NOTCH1	L
2932	GSK3B	4853	NOTCH2	L
2932	GSK3B	5540	PPYR1	L
2932	GSK3B	5579	PRKCB1	L
2932	GSK3B	5747	PTK2	L
2932	GSK3B	5770	PTPN1	L
2932	GSK3B	6615	SNAI1	L
2932	GSK3B	7157	TP53	L
2932	GSK3B	8312	AXIN1	L
2932	GSK3B	8313	AXIN2	L
2932	GSK3B	10023	FRAT1	L
2932	GSK3B	10059	DNM1L	L
2932	GSK3B	11215	AKAP11	L
2932	GSK3B	23401	FRAT2	L
2932	GSK3B	23678	SGK3	L
2932	GSK3B	51199	NIN	L
2932	GSK3B	65110	UPF3A	L
2934	GSN	3985	LIMK2	L
2934	GSN	5829	PXN	L
2934	GSN	7408	VASP	L
2934	GSN	7414	VCL	L
2934	GSN	7416	VDAC1	L
2934	GSN	9564	BCAR1	L
2934	GSN	10040	TOM1L1	S
2934	GSN	53405	CLIC5	L
2935	GSPT1	26986	PABPC1	L
2936	GSR	64219	PJA1	S
2944	GSTM1	2946	GSTM2	L
2944	GSTM1	4217	MAP3K5	L
2946	GSTM2	2947	GSTM3	L
2948	GSTM4	7088	TLE1	S
2948	GSTM4	7704	ZBTB16	S
2948	GSTM4	51003	MED31	S
2948	GSTM4	51497	TH1L	S
2948	GSTM4	55791	C1orf103	S
2948	GSTM4	84966	IGSF21	S
2950	GSTP1	5599	MAPK8	L
2950	GSTP1	5764	PTN	S
2950	GSTP1	56902	LOC56902	S
2956	MSH6	5111	PCNA	L
2957	GTF2A1	2958	GTF2A2	L
2957	GTF2A1	2959	GTF2B	L
2957	GTF2A1	2960	GTF2E1	L
2957	GTF2A1	2961	GTF2E2	L
2957	GTF2A1	2962	GTF2F1	L
2957	GTF2A1	6908	TBP	L
2957	GTF2A1	9325	TRIP4	L
2957	GTF2A1	9519	TBPL1	L
2958	GTF2A2	2960	GTF2E1	L
2958	GTF2A2	3297	HSF1	L
2958	GTF2A2	6908	TBP	L

2958	GTF2A2	9519	TBPL1	L
2958	GTF2A2	11036	ALF	L
2959	GTF2B	2960	GTF2E1	L
2959	GTF2B	2961	GTF2E2	L
2959	GTF2B	2962	GTF2F1	L
2959	GTF2B	2963	GTF2F2	L
2959	GTF2B	3297	HSF1	L
2959	GTF2B	4171	MCM2	L
2959	GTF2B	6908	TBP	L
2959	GTF2B	7025	NR2F1	L
2959	GTF2B	7421	VDR	L
2959	GTF2B	8031	NCOA4	L
2959	GTF2B	8202	NCOA3	L
2959	GTF2B	8648	NCOA1	L
2959	GTF2B	9221	NOLC1	L
2959	GTF2B	9519	TBPL1	L
2959	GTF2B	10320	ZNFN1A1	L
2960	GTF2E1	2961	GTF2E2	L
2960	GTF2E1	2963	GTF2F2	L
2960	GTF2E1	2965	GTF2H1	L
2960	GTF2E1	2968	GTF2H4	L
2960	GTF2E1	6878	TAF6	L
2960	GTF2E1	6908	TBP	L
2960	GTF2E1	6917	TCEA1	L
2960	GTF2E1	8805	TRIM24	L
2960	GTF2E1	27044	SND1	L
2961	GTF2E2	2962	GTF2F1	L
2961	GTF2E2	2963	GTF2F2	L
2961	GTF2E2	2965	GTF2H1	L
2961	GTF2E2	4193	MDM2	L
2961	GTF2E2	4331	MNAT1	L
2961	GTF2E2	6908	TBP	L
2961	GTF2E2	7507	XPA	L
2961	GTF2E2	23636	NUP62	L
2961	GTF2E2	27044	SND1	L
2961	GTF2E2	55729	ATF7IP	L
2962	GTF2F1	2963	GTF2F2	L
2962	GTF2F1	4488	MSX2	L
2962	GTF2F1	4609	MYC	L
2962	GTF2F1	5701	PSMC2	L
2962	GTF2F1	5764	PTN	S
2962	GTF2F1	6722	SRF	L
2962	GTF2F1	9150	CTDP1	L
2962	GTF2F1	9638	FEZ1	S
2962	GTF2F1	55729	ATF7IP	L
2962	GTF2F1	58190	CTDSP1	L
2963	GTF2F2	3725	JUN	L
2963	GTF2F2	4488	MSX2	L
2963	GTF2F2	5430	POLR2A	L
2963	GTF2F2	6908	TBP	L
2963	GTF2F2	27336	HTATSF1	L
2965	GTF2H1	3192	HNRPU	L
2965	GTF2H1	4171	MCM2	L
2965	GTF2H1	5430	POLR2A	L
2965	GTF2H1	5701	PSMC2	L
2965	GTF2H1	7157	TP53	L
2965	GTF2H1	8880	FUBP1	L
2965	GTF2H1	54462	KIAA1128	S
2965	GTF2H1	55729	ATF7IP	L
2965	GTF2H1	63971	KIF13A	L
2965	GTF2H1	404672	GTF2H5	L
2966	GTF2H2	404672	GTF2H5	L
2967	GTF2H3	404672	GTF2H5	L
2968	GTF2H4	404672	GTF2H5	L
2969	GTF2I	4609	MYC	L
2969	GTF2I	5396	PRRX1	L
2969	GTF2I	5592	PRKG1	L

2969	GTF2I	5595	MAPK3	L
2969	GTF2I	6722	SRF	L
2969	GTF2I	6772	STAT1	L
2969	GTF2I	6774	STAT3	L
2969	GTF2I	7391	USF1	L
2969	GTF2I	7528	YY1	L
2969	GTF2I	7709	ZBTB17	L
2969	GTF2I	8841	HDAC3	L
2969	GTF2I	9063	PIAS2	L
2969	GTF2I	51691	LSM8	L
2971	GTF3A	2976	GTF3C2	L
2971	GTF3A	10133	OPTN	L
2972	BRF1	5933	RBL1	L
2972	BRF1	6908	TBP	L
2972	BRF1	7157	TP53	L
2975	GTF3C1	3486	IGFBP3	S
2975	GTF3C1	4809	NHP2L1	S
2975	GTF3C1	5602	MAPK10	S
2975	GTF3C1	9191	DEDD	L
2975	GTF3C1	20924	(null)	S
2975	GTF3C1	51236	C8orf30A	S
2975	GTF3C1	55147	RBM23	S
2975	GTF3C1	64400	FTS	S
2975	GTF3C1	79735	TBC1D17	S
2975	GTF3C1	84164	ASCC2	S
2975	GTF3C1	84950	PRPF38A	S
2976	GTF3C2	5925	RB1	L
2977	GUCY1A2	2983	GUCY1B3	L
2979	GUCA1B	2986	GUCY2F	L
2979	GUCA1B	3000	GUCY2D	L
2980	GUCA2A	2984	GUCY2C	L
2981	GUCA2B	3000	GUCY2D	L
2983	GUCY1B3	3320	HSPCA	L
2984	GUCY2C	79849	PDZK2	L
2992	GYG	2997	GYS1	R
2992	GYG	8908	GYG2	L
2992	GYG	9883	POM121	R
2992	GYG	81786	TRIM7	L
2994	GYPB	6005	RHAG	L
2995	GYPE	4354	MPP1	L
2997	GYS1	8550	MAPKAPK5	L
2997	GYS1	8908	GYG2	RL
3000	GUCY2D	8787	RGS9	L
3001	GZMA	3148	HMGB2	L
3001	GZMA	4691	NCL	L
3001	GZMA	6418	SET	L
3002	GZMB	3482	IGF2R	L
3002	GZMB	5272	SERPINB9	L
3002	GZMB	5551	PRF1	L
3002	GZMB	5552	PRG1	L
3002	GZMB	5873	RAB27A	L
3005	H1F0	3837	KPNB1	L
3005	H1F0	3838	KPNA2	L
3005	H1F0	3843	RANBP5	L
3005	H1F0	5890	RAD51L1	L
3005	H1F0	10527	IPO7	L
3005	H1F0	84273	C4orf14	S
3014	H2AFX	4683	NBN	L
3014	H2AFX	7158	TP53BP1	L
3014	H2AFX	20924	(null)	S
3014	H2AFX	79796	ALG9	L
3015	H2AFZ	3017	HIST1H2BD	L
3015	H2AFZ	3619	INCENP	L
3015	H2AFZ	6261	RYR1	L
3015	H2AFZ	8350	HIST1H3A	L
3015	H2AFZ	8359	HIST1H4A	L
3020	H3F3A	7089	TLE2	L

3021	H3F3B	7290	HIRA	L
3021	H3F3B	10919	EHMT2	R
3024	HIST1H1A	4678	NASP	L
3032	HADHB	7414	VCL	L
3035	HARS	6125	RPL5	L
3035	HARS	6897	TARS	L
3039	HBA1	3043	HBB	S
3039	HBA1	4673	NAP1L1	S
3039	HBA1	5728	PTEN	S
3040	HBA2	3043	HBB	L
3040	HBA2	3048	HBG2	L
3043	HBB	3050	HBZ	L
3043	HBB	3240	HP	L
3043	HBB	51714	SELT	S
3048	HBG2	4090	SMAD5	L
3054	HCFC1	5134	PDCD2	L
3054	HCFC1	5451	POU2F1	L
3054	HCFC1	6667	SP1	L
3054	HCFC1	7709	ZBTB17	L
3054	HCFC1	10488	CREB3	L
3054	HCFC1	10891	PPARGC1A	L
3054	HCFC1	11168	PSIP1	L
3054	HCFC1	58487	ZF	L
3055	HCK	3572	IL6ST	L
3055	HCK	5175	PECAM1	L
3055	HCK	5329	PLAUR	L
3055	HCK	5335	PLCG1	L
3055	HCK	5921	RASA1	L
3055	HCK	7456	WASPIP	L
3055	HCK	8751	ADAM15	L
3055	HCK	8935	SCAP2	L
3055	HCK	9094	UNC119	L
3055	HCK	9564	BCAR1	L
3055	HCK	10657	KHDRBS1	L
3055	HCK	22821	RASA3	L
3055	HCK	55750	MULK	S
3055	HCK	59341	TRPV4	L
3059	HCLS1	4067	LYN	L
3059	HCLS1	10097	ACTR2	L
3059	HCLS1	11184	MAP4K1	L
3059	HCLS1	63898	SH2D4A	R
3060	HCRT	3061	HCRTR1	L
3060	HCRT	3062	HCRTR2	L
3062	HCRTR2	4345	CD200	L
3064	HD	3092	HIP1	L
3064	HD	3093	HIP2	L
3064	HD	4102	MAGEA3	L
3064	HD	4294	MAP3K10	L
3064	HD	5164	PDK2	S
3064	HD	5921	RASA1	L
3064	HD	6457	SH3GL3	L
3064	HD	6667	SP1	L
3064	HD	6874	TAF4	L
3064	HD	6908	TBP	L
3064	HD	7052	TGM2	L
3064	HD	7157	TP53	L
3064	HD	7166	TPH1	L
3064	HD	7341	SUMO1	L
3064	HD	8189	SYMPK	L
3064	HD	8263	F8A1	L
3064	HD	8819	SAP30	L
3064	HD	9001	HAP1	L
3064	HD	9026	HIP1R	L
3064	HD	9322	TRIP10	L
3064	HD	9611	NCOR1	L
3064	HD	10133	OPTN	L
3064	HD	10915	TCERG1	L

3064	HD	11153	HYPE	L
3064	HD	23390	ZDHC17	L
3064	HD	25763	CXorf27	L
3064	HD	25764	HYPK	L
3064	HD	25766	HYPK	L
3064	HD	25942	SIN3A	L
3064	HD	29072	HYPB	L
3064	HD	29993	PACSIN1	L
3064	HD	55081	ESRRBL1	L
3064	HD	55660	FBNBP3	L
3065	HDAC1	3364	HUS1	L
3065	HDAC1	4084	MXD1	L
3065	HDAC1	4087	SMAD2	L
3065	HDAC1	4193	MDM2	L
3065	HDAC1	4197	MDS1	L
3065	HDAC1	4654	MYOD1	L
3065	HDAC1	4763	NF1	L
3065	HDAC1	4790	NFKB1	L
3065	HDAC1	5111	PCNA	L
3065	HDAC1	5195	PEX14	L
3065	HDAC1	5245	PHB	L
3065	HDAC1	5371	PML	L
3065	HDAC1	5467	PPARD	L
3065	HDAC1	5757	PTMA	L
3065	HDAC1	5883	RAD9A	L
3065	HDAC1	5925	RB1	L
3065	HDAC1	5926	ARID4A	L
3065	HDAC1	5928	RBBP4	L
3065	HDAC1	5933	RBL1	L
3065	HDAC1	5970	RELA	L
3065	HDAC1	5981	RFC1	L
3065	HDAC1	5984	RFC4	L
3065	HDAC1	6299	SALL1	L
3065	HDAC1	6304	SATB1	L
3065	HDAC1	6667	SP1	L
3065	HDAC1	6670	SP3	L
3065	HDAC1	6886	TAL1	L
3065	HDAC1	7026	NR2F2	L
3065	HDAC1	7153	TOP2A	L
3065	HDAC1	7155	TOP2B	L
3065	HDAC1	7164	TPD52L1	S
3065	HDAC1	7704	ZBTB16	L
3065	HDAC1	8204	NRIP1	L
3065	HDAC1	8462	KLF11	L
3065	HDAC1	8726	EED	L
3065	HDAC1	8841	HDAC3	L
3065	HDAC1	9112	MTA1	L
3065	HDAC1	9425	CDYL	L
3065	HDAC1	9643	MORF4L2	L
3065	HDAC1	9734	HDAC9	L
3065	HDAC1	9869	SETDB1	L
3065	HDAC1	10284	SAP18	L
3065	HDAC1	10320	ZNFN1A1	L
3065	HDAC1	10401	PIAS3	L
3065	HDAC1	10521	DDX17	L
3065	HDAC1	10524	HTATIP	L
3065	HDAC1	10628	TXNIP	L
3065	HDAC1	11176	BAZ2A	L
3065	HDAC1	23013	SPEN	L
3065	HDAC1	23028	AOF2	L
3065	HDAC1	23493	HEY2	L
3065	HDAC1	23523	CABIN1	L
3065	HDAC1	25942	SIN3A	L
3065	HDAC1	29947	DNMT3L	L
3065	HDAC1	51317	PHF21A	L
3065	HDAC1	54880	BCOR	L
3065	HDAC1	55662	HIF1AN	L

3065	HDAC1	55806	HR	L
3065	HDAC1	57708	MIER1	L
3065	HDAC1	60436	TGIF2	L
3066	HDAC2	3475	IFRD1	L
3066	HDAC2	4084	MXD1	L
3066	HDAC2	5036	PA2G4	L
3066	HDAC2	5371	PML	L
3066	HDAC2	5467	PPARD	L
3066	HDAC2	5511	PPP1R8	L
3066	HDAC2	5757	PTMA	L
3066	HDAC2	5926	ARID4A	L
3066	HDAC2	5970	RELA	L
3066	HDAC2	6299	SALL1	L
3066	HDAC2	6667	SP1	L
3066	HDAC2	6670	SP3	L
3066	HDAC2	6839	SUV39H1	L
3066	HDAC2	7067	THRA	L
3066	HDAC2	7068	THRB	L
3066	HDAC2	7153	TOP2A	L
3066	HDAC2	7528	YY1	L
3066	HDAC2	8726	EED	L
3066	HDAC2	9112	MTA1	L
3066	HDAC2	9425	CDYL	L
3066	HDAC2	9541	CIR	L
3066	HDAC2	9869	SETDB1	L
3066	HDAC2	10320	ZNFN1A1	L
3066	HDAC2	22938	SNW1	L
3066	HDAC2	23013	SPEN	L
3066	HDAC2	23523	CABIN1	L
3066	HDAC2	25942	SIN3A	L
3066	HDAC2	55662	HIF1AN	L
3066	HDAC2	55929	DMAP1	L
3066	HDAC2	64375	ZNFN1A4	L
3066	HDAC2	83933	HDAC10	L
3066	HDAC2	84168	ANTXR1	L
3066	HDAC2	84525	HOP	L
3069	HDLBP	4089	SMAD4	L
3069	HDLBP	11260	XPOT	L
3069	HDLBP	55603	FAM46A	L
3073	HEXA	23326	USP22	S
3075	CFH	3078	CFHL1	L
3075	CFH	3426	IF	L
3075	CFH	3684	ITGAM	L
3075	CFH	6402	SELL	L
3077	HFE	7036	TFR2	L
3077	HFE	7037	TFRC	L
3078	CFHL1	3929	LBP	L
3082	HGF	3083	HGFAC	L
3082	HGF	4233	MET	L
3082	HGF	6382	SDC1	L
3082	HGF	6383	SDC2	L
3082	HGF	7123	CLEC3B	L
3083	HGFAC	6692	SPINT1	L
3083	HGFAC	10653	SPINT2	L
3084	NRG1	3984	LIMK1	L
3087	HHEX	5371	PML	L
3087	HHEX	30008	EFEMP2	R
3087	HHEX	83755	KRTAP4-12	R
3091	HIF1A	3320	HSPCA	L
3091	HIF1A	3725	JUN	L
3091	HIF1A	4193	MDM2	L
3091	HIF1A	5187	PER1	L
3091	HIF1A	5230	PGK1	L
3091	HIF1A	5595	MAPK3	L
3091	HIF1A	5688	PSMA7	L
3091	HIF1A	5702	PSMC3	L
3091	HIF1A	6759	SSX4	R

3091	HIF1A	7157	TP53	L
3091	HIF1A	7428	VHL	L
3091	HIF1A	7818	DAP3	L
3091	HIF1A	8533	COPS3	L
3091	HIF1A	8648	NCOA1	L
3091	HIF1A	55662	HIF1AN	L
3092	HIP1	3692	ITGB4BP	S
3092	HIP1	5201	PFDN1	S
3092	HIP1	6204	RPS10	S
3092	HIP1	9026	HIP1R	L
3092	HIP1	55081	ESRRBL1	L
3093	HIP2	4738	NEDD8	L
3093	HIP2	4790	NFKB1	L
3093	HIP2	7157	TP53	L
3093	HIP2	10612	TRIM3	L
3096	HIVEP1	4088	SMAD3	L
3096	HIVEP1	5861	RAB1A	S
3096	HIVEP1	7414	VCL	L
3096	HIVEP1	10436	C2F	S
3098	HK1	7416	VDAC1	L
3098	HK1	22955	SCMH1	S
3099	HK2	29979	UBQLN1	R
3101	HK3	3487	IGFBP4	L
3101	HK3	3952	LEP	L
3101	HK3	7709	ZBTB17	L
3101	HK3	27306	PGDS	L
3104	HKR3	127557	ZBTB8	R
3104	HKR3	135927	C7orf34	R
3105	HLA-A	3812	KIR3DL2	L
3105	HLA-A	4103	MAGEA4	L
3105	HLA-A	6955	TRA@	L
3105	HLA-A	10859	LILRB1	L
3106	HLA-B	3811	KIR3DL1	L
3106	HLA-B	3824	KLRD1	L
3106	HLA-B	4100	MAGEA1	L
3106	HLA-B	6955	TRA@	L
3106	HLA-B	10859	LILRB1	L
3107	HLA-C	3309	HSPA5	L
3107	HLA-C	3803	KIR2DL2	L
3107	HLA-C	3804	KIR2DL3	L
3107	HLA-C	3806	KIR2DS1	L
3107	HLA-C	6891	TAP2	L
3107	HLA-C	6892	TAPBP	L
3107	HLA-C	10859	LILRB1	L
3108	HLA-DMA	3109	HLA-DMB	L
3108	HLA-DMA	3111	HLA-DOA	L
3108	HLA-DMA	3122	HLA-DRA	L
3108	HLA-DMA	3123	HLA-DRB1	L
3108	HLA-DMA	3732	CD82	L
3109	HLA-DMB	3112	HLA-DOB	L
3109	HLA-DMB	3122	HLA-DRA	L
3109	HLA-DMB	3732	CD82	L
3113	HLA-DPA1	3115	HLA-DPB1	L
3117	HLA-DQA1	6456	SH3GL2	S
3117	HLA-DQA1	7088	TLE1	S
3117	HLA-DQA1	9094	UNC119	S
3117	HLA-DQA1	55791	C1orf103	S
3118	HLA-DQA2	3119	HLA-DQB1	L
3118	HLA-DQA2	3630	INS	L
3119	HLA-DQB1	3630	INS	L
3122	HLA-DRA	3123	HLA-DRB1	L
3122	HLA-DRA	3125	HLA-DRB3	L
3122	HLA-DRA	3127	HLA-DRB5	L
3122	HLA-DRA	3732	CD82	L
3122	HLA-DRA	4155	MBP	L
3122	HLA-DRA	25766	HYPIC	L
3123	HLA-DRB1	6955	TRA@	L

3125	HLA-DRB3	5443	POMC	L
3125	HLA-DRB3	375078	(null)	S
3131	HLF	3725	JUN	L
3131	HLF	3727	JUND	L
3131	HLF	7008	TEF	L
3131	HLF	10538	BATF	L
3131	HLF	55509	SNFT	L
3133	HLA-E	3821	KLRC1	L
3133	HLA-E	3822	KLRC2	L
3133	HLA-E	3824	KLRD1	L
3134	HLA-F	6890	TAP1	L
3134	HLA-F	10859	LILRB1	L
3135	HLA-G	3824	KLRD1	L
3135	HLA-G	6890	TAP1	L
3135	HLA-G	6891	TAP2	L
3135	HLA-G	10859	LILRB1	L
3146	HMGB1	3190	HNRPK	L
3146	HMGB1	3235	HOXD9	L
3146	HMGB1	4790	NFKB1	L
3146	HMGB1	5327	PLAT	L
3146	HMGB1	5340	PLG	L
3146	HMGB1	5460	POU5F1	L
3146	HMGB1	5591	PRKDC	L
3146	HMGB1	5896	RAG1	L
3146	HMGB1	5925	RB1	L
3146	HMGB1	5970	RELA	L
3146	HMGB1	6872	TAF1	L
3146	HMGB1	6908	TBP	L
3146	HMGB1	7088	TLE1	L
3146	HMGB1	7157	TP53	L
3146	HMGB1	7161	TP73	L
3146	HMGB1	9094	UNC119	S
3146	HMGB1	11161	C14orf1	S
3146	HMGB1	55791	C1orf103	S
3148	HMGB2	5241	PGR	L
3148	HMGB2	5451	POU2F1	L
3148	HMGB2	5452	POU2F2	L
3148	HMGB2	5453	POU3F1	L
3148	HMGB2	5460	POU5F1	L
3148	HMGB2	5591	PRKDC	L
3148	HMGB2	5896	RAG1	L
3148	HMGB2	6418	SET	L
3148	HMGB2	7157	TP53	L
3150	HMG1	3151	HMG2	L
3150	HMG1	7534	YWHAZ	L
3155	HMGCL	58475	MS4A7	S
3156	HMGCR	3638	INSIG1	L
3156	HMGCR	90627	STARD13	L
3159	HMGA1	3659	IRF1	L
3159	HMGA1	3725	JUN	L
3159	HMGA1	4800	NFYA	L
3159	HMGA1	5453	POU3F1	L
3159	HMGA1	6047	RNF4	L
3159	HMGA1	6667	SP1	L
3159	HMGA1	28996	HIPK2	L
3159	HMGA1	51684	SUFU	L
3162	HMOX1	4842	NOS1	L
3163	HMOX2	9001	HAP1	S
3163	HMOX2	9737	GPRASP1	S
3163	HMOX2	9869	SETDB1	S
3163	HMOX2	10980	COPS6	S
3163	HMOX2	28964	GIT1	S
3163	HMOX2	55791	C1orf103	S
3163	HMOX2	57562	KIAA1377	S
3164	NR4A1	5349	FXYD3	S
3164	NR4A1	5371	PML	L
3164	NR4A1	5469	PPARBP	L

3164	NR4A1	6258	RXRG	L
3164	NR4A1	8202	NCOA3	L
3164	NR4A1	8648	NCOA1	L
3164	NR4A1	8850	PCAF	L
3164	NR4A1	9612	NCOR2	L
3164	NR4A1	27330	RPS6KA6	S
3164	NR4A1	55160	ARHGEF10L	S
3169	FOXA1	8290	HIST3H3	L
3170	FOXA2	3175	ONECUT1	L
3170	FOXA2	3202	HOXA5	L
3170	FOXA2	4284	MIP	L
3170	FOXA2	5015	OTX2	L
3170	FOXA2	7088	TLE1	L
3170	FOXA2	8648	NCOA1	L
3172	HNF4A	4087	SMAD2	L
3172	HNF4A	5469	PPARBP	L
3172	HNF4A	6927	TCF1	L
3172	HNF4A	7025	NR2F1	L
3172	HNF4A	7157	TP53	L
3172	HNF4A	7182	NR2C2	L
3172	HNF4A	8648	NCOA1	L
3172	HNF4A	8805	TRIM24	L
3172	HNF4A	9282	CRSP2	L
3172	HNF4A	9326	ZNHIT3	L
3172	HNF4A	10499	NCOA2	L
3172	HNF4A	10923	SUB1	L
3172	HNF4A	29982	NRBF2	L
3172	HNF4A	133522	PPARGC1B	L
3175	ONECUT1	8850	PCAF	L
3178	HNRPA1	6144	RPL21	S
3178	HNRPA1	7916	BAT2	L
3178	HNRPA1	7920	BAT5	L
3178	HNRPA1	8458	TTF2	L
3178	HNRPA1	9796	PHYHIP	S
3178	HNRPA1	54464	XRN1	L
3178	HNRPA1	65110	UPF3A	L
3181	HNRPA2B1	3191	HNRPL	L
3181	HNRPA2B1	6625	SNRP70	L
3181	HNRPA2B1	7428	VHL	L
3181	HNRPA2B1	8458	TTF2	L
3182	HNRPA1	4792	NFKBIA	L
3182	HNRPA1	8626	TP73L	L
3183	HNRPC	3839	KPNA3	R
3183	HNRPC	3845	KRAS	R
3183	HNRPC	5155	PDGFB	L
3183	HNRPC	5257	PHKB	R
3183	HNRPC	5300	PIN1	R
3183	HNRPC	7329	UBE2I	R
3183	HNRPC	8907	AP1M1	R
3183	HNRPC	9513	FXR2	R
3183	HNRPC	11007	DIPA	R
3183	HNRPC	51545	ZNF581	R
3183	HNRPC	55285	FLJ11016	R
3183	HNRPC	55885	LMO3	R
3183	HNRPC	138046	LOC138046	R
3184	HNRPD	3939	LDHA	L
3184	HNRPD	6294	SAFB	L
3184	HNRPD	23658	LSM5	L
3184	HNRPD	54512	EXOSC4	L
3185	HNRPF	4686	NCBP1	L
3185	HNRPF	5430	POLR2A	L
3185	HNRPF	8570	KHSRP	L
3185	HNRPF	22916	NCBP2	L
3187	HNRPH1	4686	NCBP1	L
3187	HNRPH1	7094	TLN1	L
3187	HNRPH1	7414	VCL	L
3187	HNRPH1	8570	KHSRP	L

3187	HNRPH1	10040	TOM1L1	S
3187	HNRPH1	10915	TCERG1	L
3187	HNRPH1	22916	NCBP2	L
3189	HNRPH3	6191	RPS4X	S
3189	HNRPH3	6357	CCL13	S
3189	HNRPH3	7094	TLN1	L
3189	HNRPH3	7276	TTR	S
3189	HNRPH3	7414	VCL	L
3189	HNRPH3	10524	HTATIP	S
3189	HNRPH3	10813	UTP14A	S
3189	HNRPH3	11040	PIM2	S
3189	HNRPH3	11161	C14orf1	S
3190	HNRPK	3191	HNRPL	L
3190	HNRPK	3276	HRMT1L2	L
3190	HNRPK	3702	ITK	L
3190	HNRPK	4904	YBX1	L
3190	HNRPK	5094	PCBP2	L
3190	HNRPK	5295	PIK3R1	L
3190	HNRPK	6294	SAFB	L
3190	HNRPK	6428	SFRS3	L
3190	HNRPK	6714	SRC	L
3190	HNRPK	7094	TLN1	L
3190	HNRPK	7329	UBE2I	R
3190	HNRPK	7409	VAV1	L
3190	HNRPK	7414	VCL	L
3190	HNRPK	8440	NCK2	RL
3190	HNRPK	9402	GRAP2	R
3190	HNRPK	9444	QKI	R
3190	HNRPK	9782	MATR3	R
3190	HNRPK	10174	SORBS3	R
3190	HNRPK	10179	RBM7	R
3190	HNRPK	10656	KHDRBS3	R
3190	HNRPK	10657	KHDRBS1	L
3190	HNRPK	26505	CNNM3	R
3190	HNRPK	27316	RBMX	R
3190	HNRPK	55285	FLJ11016	R
3190	HNRPK	56654	NPDC1	R
3190	HNRPK	79171	MGC10433	R
3190	HNRPK	85362	(null)	R
3190	HNRPK	202559	KHDRBS2	R
3191	HNRPL	5094	PCBP2	L
3191	HNRPL	5725	PTBP1	L
3191	HNRPL	10362	HMG20B	S
3191	HNRPL	64219	PJA1	S
3192	HNRPU	3276	HRMT1L2	L
3192	HNRPU	4692	NDN	L
3192	HNRPU	5456	POU3F4	L
3192	HNRPU	6606	SMN1	L
3192	HNRPU	6850	SYK	L
3192	HNRPU	8178	ELL	L
3195	TLX1	5540	PPYR1	L
3196	TLX2	7533	YWHAH	L
3198	HOXA1	4188	MDFI	R
3198	HOXA1	5316	PKNOX1	L
3198	HOXA1	5359	PLSCR1	R
3198	HOXA1	7205	TRIP6	R
3198	HOXA1	9404	LPXN	R
3198	HOXA1	26511	CHIC2	R
3198	HOXA1	30008	EFEMP2	R
3198	HOXA1	79090	TRAPPC6A	R
3198	HOXA1	83755	KRTAP4-12	R
3202	HOXA5	5087	PBX1	L
3204	HOXA7	4211	MEIS1	L
3205	HOXA9	4087	SMAD2	L
3205	HOXA9	4089	SMAD4	L
3205	HOXA9	5089	PBX2	L
3205	HOXA9	5359	PLSCR1	R

3205	HOXA9	7205	TRIP6	R
3205	HOXA9	11030	RBPMS	R
3206	HOXA10	4211	MEIS1	L
3206	HOXA10	5087	PBX1	L
3206	HOXA10	5777	PTPN6	L
3208	HPCA	4671	BIRC1	L
3211	HOXB1	4211	MEIS1	L
3211	HOXB1	5080	PAX6	L
3211	HOXB1	5087	PBX1	L
3211	HOXB1	5316	PKNOX1	L
3216	HOXB6	3217	HOXB7	L
3216	HOXB6	3866	KRT15	R
3216	HOXB6	5316	PKNOX1	L
3216	HOXB6	5359	PLSCR1	R
3216	HOXB6	6303	SAT	R
3217	HOXB7	4792	NFKBIA	L
3217	HOXB7	5316	PKNOX1	L
3218	HOXB8	4212	MEIS2	L
3218	HOXB8	5087	PBX1	L
3218	HOXB8	5089	PBX2	L
3219	HOXB9	4188	MDFI	R
3219	HOXB9	6303	SAT	R
3219	HOXB9	7832	BTG2	L
3219	HOXB9	11030	RBPMS	R
3219	HOXB9	83755	KRTAP4-12	R
3221	HOXC4	5451	POU2F1	L
3221	HOXC4	5591	PRKDC	L
3224	HOXC8	4086	SMAD1	L
3224	HOXC8	4089	SMAD4	L
3224	HOXC8	4091	SMAD6	L
3224	HOXC8	7832	BTG2	L
3233	HOXD4	4211	MEIS1	L
3233	HOXD4	5087	PBX1	L
3233	HOXD4	204851	HIPK1	L
3235	HOXD9	5316	PKNOX1	L
3236	HOXD10	5087	PBX1	L
3237	HOXD11	4211	MEIS1	L
3238	HOXD12	4097	MAFG	L
3238	HOXD12	4211	MEIS1	L
3238	HOXD12	23764	MAFF	L
3240	HP	3684	ITGAM	L
3240	HP	3689	ITGB2	L
3240	HP	9332	CD163	L
3241	HPCAL1	10363	HMG20A	R
3241	HPCAL1	113878	DTX2	R
3251	HPRT1	55093	C8orf32	R
3251	HPRT1	56952	PRTFDC1	R
3265	HRAS	3643	INSR	L
3265	HRAS	3654	IRAK1	L
3265	HRAS	3656	IRAK2	L
3265	HRAS	3956	LGALS1	L
3265	HRAS	4301	MLLT4	L
3265	HRAS	4763	NF1	L
3265	HRAS	5147	PDE6D	L
3265	HRAS	5155	PDGFB	L
3265	HRAS	5290	PIK3CA	L
3265	HRAS	5294	PIK3CG	L
3265	HRAS	5295	PIK3R1	L
3265	HRAS	5599	MAPK8	L
3265	HRAS	5604	MAP2K1	L
3265	HRAS	5894	RAF1	L
3265	HRAS	5900	RALGDS	L
3265	HRAS	5910	RAP1GDS1	L
3265	HRAS	5921	RASA1	L
3265	HRAS	6654	SOS1	L
3265	HRAS	6655	SOS2	L
3265	HRAS	7074	TIAM1	L

3265	HRAS	7409	VAV1	L
3265	HRAS	8036	SHOC2	L
3265	HRAS	8315	BRAP	L
3265	HRAS	8525	DGKZ	L
3265	HRAS	9610	RIN1	L
3265	HRAS	10567	RABAC1	L
3265	HRAS	11186	RASSF1	L
3265	HRAS	22806	ZNFN1A3	L
3265	HRAS	29899	GPSP2	L
3265	HRAS	55914	ERBB2IP	L
3265	HRAS	115727	RASGRP4	L
3265	HRAS	266747	Rgr	L
3266	ERAS	5293	PIK3CD	L
3266	ERAS	5295	PIK3R1	L
3267	HRB	7514	XPO1	L
3267	HRB	58513	EPS15L1	L
3269	HRH1	3569	IL6	L
3270	HRC	10345	TRDN	L
3273	HRG	5340	PLG	L
3273	HRG	7057	THBS1	L
3275	HRMT1L1	7916	BAT2	L
3275	HRMT1L1	11100	HNRPUL1	L
3275	HRMT1L1	63948	DMRTB1	R
3275	HRMT1L1	79869	FLJ12529	R
3276	HRMT1L2	3420	IDH3B	S
3276	HRMT1L2	3454	IFNAR1	L
3276	HRMT1L2	3609	ILF3	L
3276	HRMT1L2	6279	S100A8	S
3276	HRMT1L2	6829	SUPT5H	L
3276	HRMT1L2	7157	TP53	L
3276	HRMT1L2	7832	BTG2	L
3276	HRMT1L2	8202	NCOA3	L
3276	HRMT1L2	8648	NCOA1	L
3276	HRMT1L2	8715	NOL4	S
3276	HRMT1L2	9444	QKI	L
3276	HRMT1L2	10094	ARPC3	S
3276	HRMT1L2	10236	HNRPR	SL
3276	HRMT1L2	10499	NCOA2	L
3276	HRMT1L2	10656	KHDRBS3	L
3276	HRMT1L2	10657	KHDRBS1	L
3276	HRMT1L2	22927	HABP4	S
3276	HRMT1L2	51003	MED31	S
3276	HRMT1L2	55339	WDR33	S
3276	HRMT1L2	55791	C1orf103	S
3276	HRMT1L2	56252	YLPM1	S
3276	HRMT1L2	84966	IGSF21	S
3280	HES1	7088	TLE1	L
3280	HES1	23411	SIRT1	L
3280	HES1	23493	HEY2	L
3280	HES1	55502	HES6	L
3281	HSBP1	3297	HSF1	L
3281	HSBP1	51019	CGI-116	R
3297	HSF1	3298	HSF2	L
3297	HSF1	3303	HSPA1A	L
3297	HSF1	3312	HSPA8	L
3297	HSF1	3337	DNAJB1	L
3297	HSF1	5591	PRKDC	L
3297	HSF1	5601	MAPK9	L
3297	HSF1	6597	SMARCA4	L
3297	HSF1	6772	STAT1	L
3297	HSF1	6872	TAF1	L
3297	HSF1	6879	TAF7	L
3297	HSF1	6908	TBP	L
3297	HSF1	7520	XRCC5	L
3297	HSF1	8189	SYMPK	L
3297	HSF1	10923	SUB1	L
3297	HSF1	23054	NCOA6	L

3297	HSF1	85021	REPS1	L
3298	HSF2	7329	UBE2I	L
3298	HSF2	11077	HSF2BP	L
3298	HSF2	23636	NUP62	L
3300	DNAJB2	4089	SMAD4	L
3301	DNAJA1	3312	HSPA8	L
3301	DNAJA1	4071	TM4SF1	S
3301	DNAJA1	9232	PTTG1	L
3301	DNAJA1	51343	FZR1	S
3301	DNAJA1	51497	TH1L	S
3301	DNAJA1	57819	LSM2	L
3303	HSPA1A	3337	DNAJB1	L
3303	HSPA1A	3855	KRT7	L
3303	HSPA1A	4217	MAP3K5	L
3303	HSPA1A	4481	MSR1	L
3303	HSPA1A	5610	EIF2AK2	L
3303	HSPA1A	5757	PTMA	L
3303	HSPA1A	5830	PEX5	L
3303	HSPA1A	6523	SLC5A1	L
3303	HSPA1A	6662	SOX9	L
3303	HSPA1A	6767	ST13	L
3303	HSPA1A	7157	TP53	L
3303	HSPA1A	7917	BAT3	L
3303	HSPA1A	8517	IKBKG	L
3303	HSPA1A	8805	TRIM24	L
3303	HSPA1A	9093	DNAJA3	L
3303	HSPA1A	9131	PDCD8	L
3303	HSPA1A	9530	BAG4	L
3303	HSPA1A	9531	BAG3	L
3303	HSPA1A	9532	BAG2	L
3303	HSPA1A	10273	STUB1	L
3303	HSPA1A	10915	TCERG1	L
3303	HSPA1A	23640	HSPBP1	L
3303	HSPA1A	23645	PPP1R15A	L
3303	HSPA1A	51726	DNAJB11	L
3304	HSPA1B	5611	DNAJC3	L
3304	HSPA1B	192111	MGC5352	S
3306	HSPA2	23640	HSPBP1	R
3308	HSPA4	4306	NR3C2	L
3308	HSPA4	8841	HDAC3	L
3308	HSPA4	11098	PRSS23	S
3308	HSPA4	79577	CDC73	S
3309	HSPA5	3359	HTR3A	L
3309	HSPA5	3507	IGHM	L
3309	HSPA5	3856	KRT8	L
3309	HSPA5	3875	KRT18	L
3309	HSPA5	3925	STMN1	L
3309	HSPA5	3938	LCT	L
3309	HSPA5	3949	LDLR	L
3309	HSPA5	5829	PXN	L
3309	HSPA5	6955	TRA@	L
3309	HSPA5	7253	TSHR	L
3309	HSPA5	7450	VWF	L
3309	HSPA5	9159	PCSK7	L
3309	HSPA5	9451	EIF2AK3	L
3309	HSPA5	9564	BCAR1	S
3309	HSPA5	10197	PSME3	S
3309	HSPA5	10915	TCERG1	L
3309	HSPA5	10961	ERP29	L
3309	HSPA5	54431	DNAJC10	L
3309	HSPA5	54972	HSPA5BP1	L
3309	HSPA5	56896	DPYSL5	S
3309	HSPA5	57062	DDX24	S
3309	HSPA5	64215	DNAJC1	L
3309	HSPA5	80021	TMEM62	S
3312	HSPA8	3320	HSPCA	L
3312	HSPA8	3337	DNAJB1	L

3312	HSPA8	3717	JAK2	L
3312	HSPA8	3925	STMN1	L
3312	HSPA8	4071	TM4SF1	S
3312	HSPA8	4435	CITED1	L
3312	HSPA8	5829	PXN	L
3312	HSPA8	5966	REL	L
3312	HSPA8	5997	RGS2	S
3312	HSPA8	6667	SP1	L
3312	HSPA8	7132	TNFRSF1A	L
3312	HSPA8	7203	CCT3	L
3312	HSPA8	7316	UBC	S
3312	HSPA8	7414	VCL	L
3312	HSPA8	8841	HDAC3	L
3312	HSPA8	9093	DNAJA3	L
3312	HSPA8	9531	BAG3	L
3312	HSPA8	9532	BAG2	L
3312	HSPA8	10072	DPP3	S
3312	HSPA8	10273	STUB1	L
3312	HSPA8	10474	TADA3L	S
3312	HSPA8	10808	HSPH1	L
3312	HSPA8	10915	TCERG1	L
3312	HSPA8	23640	HSPBP1	RSL
3312	HSPA8	54205	CYCS	L
3312	HSPA8	84273	C4orf14	S
3312	HSPA8	286397	(null)	S
3313	HSPA9B	4597	MVD	L
3313	HSPA9B	7157	TP53	L
3313	HSPA9B	7184	TRA1	L
3313	HSPA9B	7416	VDAC1	L
3315	HSPB1	5464	PPA1	S
3315	HSPB1	7041	TGFB11	L
3315	HSPB1	7157	TP53	S
3315	HSPB1	8550	MAPKAPK5	L
3315	HSPB1	10248	POP7	L
3315	HSPB1	26353	HSPB8	L
3315	HSPB1	51003	MED31	S
3315	HSPB1	55791	C1orf103	S
3315	HSPB1	84060	DKFZP564O0523	S
3315	HSPB1	84966	IGSF21	S
3316	HSPB2	8988	HSPB3	L
3320	HSPCA	3551	IKBKB	L
3320	HSPCA	4141	MARS	L
3320	HSPCA	4306	NR3C2	L
3320	HSPCA	4609	MYC	L
3320	HSPCA	4654	MYOD1	L
3320	HSPCA	4846	NOS3	L
3320	HSPCA	4862	NPAS2	L
3320	HSPCA	5170	PDPK1	L
3320	HSPCA	5292	PIM1	L
3320	HSPCA	5465	PPARA	L
3320	HSPCA	5594	MAPK1	L
3320	HSPCA	5610	EIF2AK2	L
3320	HSPCA	5859	QARS	L
3320	HSPCA	5894	RAF1	L
3320	HSPCA	6189	RPS3A	S
3320	HSPCA	6449	SGTA	L
3320	HSPCA	6714	SRC	L
3320	HSPCA	6767	ST13	L
3320	HSPCA	6774	STAT3	L
3320	HSPCA	7132	TNFRSF1A	L
3320	HSPCA	7157	TP53	L
3320	HSPCA	7818	DAP3	L
3320	HSPCA	8517	IKBKG	L
3320	HSPCA	8737	RIPK1	L
3320	HSPCA	9049	AIP	L
3320	HSPCA	9451	EIF2AK3	L
3320	HSPCA	10273	STUB1	L

3320	HSPCA	10598	AHSA1	L
3320	HSPCA	10953	TOMM34	L
3320	HSPCA	27257	LSM1	L
3320	HSPCA	64754	SMYD3	L
3326	HSPCB	4846	NOS3	L
3326	HSPCB	57062	DDX24	S
3326	HSPCB	90627	STARD13	L
3329	HSPD1	3336	HSPE1	L
3329	HSPD1	3845	KRAS	L
3329	HSPD1	5621	PRNP	L
3329	HSPD1	8349	HIST2H2BE	L
3336	HSPE1	6303	SAT	S
3336	HSPE1	7088	TLE1	S
3336	HSPE1	7414	VCL	L
3336	HSPE1	9094	UNC119	S
3336	HSPE1	11161	C14orf1	S
3336	HSPE1	11244	ZHX1	S
3336	HSPE1	55791	C1orf103	S
3337	DNAJB1	5611	DNAJC3	L
3337	DNAJB1	10273	STUB1	L
3337	DNAJB1	10728	PTGES3	L
3339	HSPG2	3688	ITGB1	L
3339	HSPG2	5155	PDGFB	L
3339	HSPG2	5549	PRELP	L
3339	HSPG2	6678	SPARC	L
3339	HSPG2	7276	TTR	L
3339	HSPG2	9982	FGFBP1	L
3339	HSPG2	22795	NID2	L
3339	HSPG2	55660	FNBP3	L
3339	HSPG2	55729	ATF7IP	L
3339	HSPG2	284217	LAMA1	L
3350	HTR1A	3351	HTR1B	L
3350	HTR1A	3352	HTR1D	L
3351	HTR1B	3352	HTR1D	L
3356	HTR2A	3717	JAK2	L
3358	HTR2C	8777	MPDZ	L
3364	HUS1	5111	PCNA	L
3364	HUS1	5883	RAD9A	L
3364	HUS1	5884	RAD17	L
3364	HUS1	7266	DNAJC7	L
3371	TNC	3678	ITGA5	L
3371	TNC	3688	ITGB1	L
3371	TNC	3694	ITGB6	L
3371	TNC	5787	PTPRB	L
3371	TNC	5829	PXN	L
3371	TNC	8516	ITGA8	L
3375	IAPP	3651	IPF1	L
3375	IAPP	10267	RAMP1	L
3383	ICAM1	3559	IL2RA	L
3383	ICAM1	3561	IL2RG	L
3383	ICAM1	3683	ITGAL	L
3383	ICAM1	3684	ITGAM	L
3383	ICAM1	3689	ITGB2	L
3383	ICAM1	4478	MSN	L
3383	ICAM1	7430	VIL2	L
3384	ICAM2	3684	ITGAM	L
3384	ICAM2	3689	ITGB2	L
3384	ICAM2	4478	MSN	L
3384	ICAM2	30835	CD209	L
3385	ICAM3	3681	ITGAD	L
3385	ICAM3	3683	ITGAL	L
3385	ICAM3	3689	ITGB2	L
3385	ICAM3	4478	MSN	L
3385	ICAM3	7430	VIL2	L
3385	ICAM3	7704	ZBTB16	S
3385	ICAM3	30835	CD209	L
3386	ICAM4	3676	ITGA4	L

3386	ICAM4	3684	ITGAM	L
3386	ICAM4	3685	ITGAV	L
3386	ICAM4	3688	ITGB1	L
3386	ICAM4	3689	ITGB2	L
3386	ICAM4	6005	RHAG	L
3394	IRF8	3659	IRF1	L
3394	IRF8	3660	IRF2	L
3394	IRF8	6688	SPI1	L
3394	IRF8	9318	COPS2	L
3397	ID1	4617	MYF5	L
3397	ID1	4654	MYOD1	L
3397	ID1	8573	CASK	L
3398	ID2	4617	MYF5	L
3398	ID2	4654	MYOD1	L
3398	ID2	6925	TCF4	L
3398	ID2	6929	TCF3	L
3398	ID2	6938	TCF12	L
3398	ID2	9094	UNC119	S
3398	ID2	9242	MSC	L
3398	ID2	55791	C1orf103	S
3398	ID2	84060	DKFZP564O0523	S
3399	ID3	4617	MYF5	L
3399	ID3	4654	MYOD1	L
3399	ID3	5079	PAX5	L
3399	ID3	6720	SREBF1	L
3399	ID3	6925	TCF4	L
3399	ID3	6929	TCF3	L
3399	ID3	11036	ALF	L
3416	IDE	3479	IGF1	L
3416	IDE	3481	IGF2	L
3417	IDH1	11244	ZHX1	S
3419	IDH3A	3420	IDH3B	L
3419	IDH3A	3421	IDH3G	L
3420	IDH3B	3421	IDH3G	L
3420	IDH3B	11021	RAB35	S
3425	IDUA	4356	MPP3	S
3428	IFI16	7157	TP53	L
3430	IFI35	9111	NMI	L
3430	IFI35	10538	BATF	L
3431	SP110	4729	NDUFV2	S
3433	IFIT2	3437	IFIT3	R
3434	IFIT1	3437	IFIT3	R
3434	IFIT1	3646	EIF3S6	L
3437	IFIT3	159989	FLJ25393	R
3439	IFNA1	3558	IL2	L
3439	IFNA1	10379	ISGF3G	L
3440	IFNA2	3454	IFNAR1	L
3440	IFNA2	3455	IFNAR2	L
3454	IFNAR1	3456	IFNB1	L
3454	IFNAR1	3467	IFNW1	L
3454	IFNAR1	5295	PIK3R1	L
3454	IFNAR1	5566	PRKACA	L
3454	IFNAR1	5594	MAPK1	L
3454	IFNAR1	5777	PTPN6	L
3454	IFNAR1	5781	PTPN11	L
3454	IFNAR1	6773	STAT2	L
3454	IFNAR1	6774	STAT3	L
3454	IFNAR1	7297	TYK2	L
3454	IFNAR1	10399	GNB2L1	L
3455	IFNAR2	6773	STAT2	L
3455	IFNAR2	10399	GNB2L1	L
3458	IFNG	3459	IFNGR1	L
3458	IFNG	3460	IFNGR2	L
3459	IFNGR1	3460	IFNGR2	L
3459	IFNGR1	3716	JAK1	L
3460	IFNGR2	3717	JAK2	L
3460	IFNGR2	9093	DNAJA3	L

3475	IFRD1	6016	RIT1	S
3476	IGBP1	4281	MID1	L
3476	IGBP1	5515	PPP2CA	L
3476	IGBP1	5531	PPP4C	L
3476	IGBP1	5537	PPP6C	L
3476	IGBP1	11043	MID2	L
3479	IGF1	3480	IGF1R	L
3479	IGF1	3483	IGFALS	L
3479	IGF1	3484	IGFBP1	L
3479	IGF1	3485	IGFBP2	L
3479	IGF1	3486	IGFBP3	L
3479	IGF1	3487	IGFBP4	L
3479	IGF1	3488	IGFBP5	L
3479	IGF1	3489	IGFBP6	L
3479	IGF1	3490	IGFBP7	L
3479	IGF1	3547	IGSF1	L
3479	IGF1	4856	NOV	L
3480	IGF1R	3481	IGF2	L
3480	IGF1R	3486	IGFBP3	L
3480	IGF1R	3630	INS	L
3480	IGF1R	3667	IRS1	L
3480	IGF1R	3716	JAK1	L
3480	IGF1R	4734	NEDD4	L
3480	IGF1R	5295	PIK3R1	L
3480	IGF1R	5296	PIK3R2	L
3480	IGF1R	5770	PTPN1	L
3480	IGF1R	5781	PTPN11	L
3480	IGF1R	5921	RASA1	L
3480	IGF1R	6464	SHC1	L
3480	IGF1R	7529	YWHAB	L
3480	IGF1R	7531	YWHAE	L
3480	IGF1R	7534	YWHAZ	L
3480	IGF1R	8503	PIK3R3	L
3480	IGF1R	8651	SOCS1	L
3480	IGF1R	8660	IRS2	L
3480	IGF1R	8835	SOCS2	L
3480	IGF1R	9021	SOCS3	L
3480	IGF1R	10399	GNB2L1	L
3480	IGF1R	10451	VAV3	L
3480	IGF1R	10938	EHD1	L
3480	IGF1R	23365	ARHGEF12	L
3480	IGF1R	64599	PERQ1	L
3481	IGF2	3482	IGF2R	L
3481	IGF2	3484	IGFBP1	L
3481	IGF2	3485	IGFBP2	L
3481	IGF2	3486	IGFBP3	L
3481	IGF2	3487	IGFBP4	L
3481	IGF2	3488	IGFBP5	L
3481	IGF2	3489	IGFBP6	L
3481	IGF2	3490	IGFBP7	L
3481	IGF2	3643	INSR	L
3481	IGF2	4856	NOV	L
3481	IGF2	7448	VTN	L
3482	IGF2R	5328	PLAU	L
3482	IGF2R	8804	CREG1	L
3482	IGF2R	10226	M6PRBP1	L
3482	IGF2R	23062	GGA2	L
3482	IGF2R	23163	GGA3	L
3482	IGF2R	26088	GGA1	L
3482	IGF2R	55690	PACS1	L
3483	IGFALS	3486	IGFBP3	L
3483	IGFALS	3488	IGFBP5	L
3484	IGFBP1	7018	TF	L
3485	IGFBP2	7018	TF	L
3486	IGFBP3	3818	KLKB1	L
3486	IGFBP3	3837	KPNB1	L
3486	IGFBP3	4052	LTBP1	L

3486	IGFBP3	5340	PLG	L
3486	IGFBP3	6256	RXRA	L
3486	IGFBP3	7018	TF	L
3486	IGFBP3	8038	ADAM12	L
3486	IGFBP3	23649	POLA2	S
3486	IGFBP3	60676	PAPPA2	L
3487	IGFBP4	7018	TF	L
3488	IGFBP5	3837	KPNB1	L
3488	IGFBP5	5054	SERPINE1	L
3488	IGFBP5	6696	SPP1	L
3488	IGFBP5	7018	TF	L
3488	IGFBP5	7057	THBS1	L
3488	IGFBP5	7917	BAT3	S
3488	IGFBP5	8038	ADAM12	L
3488	IGFBP5	56902	LOC56902	S
3489	IGFBP6	7018	TF	L
3490	IGFBP7	3624	INHBA	L
3490	IGFBP7	3627	CXCL10	L
3490	IGFBP7	3630	INS	L
3490	IGFBP7	6352	CCL5	L
3490	IGFBP7	6366	CCL21	L
3490	IGFBP7	6382	SDC1	L
3490	IGFBP7	7422	VEGF	L
3491	CYR61	3685	ITGAV	L
3491	CYR61	3693	ITGB5	L
3500	IGHG1	3514	IGKC	L
3500	IGHG1	3538	IGLC2	L
3500	IGHG1	3586	IL10	L
3500	IGHG1	23075	SWAP70	L
3503	IGHG4	3514	IGKC	L
3507	IGHM	3512	IGJ	L
3507	IGHM	7441	VPREB1	L
3507	IGHM	29802	VPREB3	L
3507	IGHM	55722	Cep72	R
3508	IGHMBP2	51691	LSM8	L
3514	IGKC	7450	VWF	L
3516	RBPSUH	4851	NOTCH1	L
3516	RBPSUH	4853	NOTCH2	L
3516	RBPSUH	4854	NOTCH3	L
3516	RBPSUH	8850	PCAF	L
3516	RBPSUH	9541	CIR	L
3516	RBPSUH	9612	NCOR2	L
3516	RBPSUH	22938	SNW1	L
3516	RBPSUH	23013	SPEN	L
3516	RBPSUH	27044	SND1	L
3516	RBPSUH	51684	SUFU	L
3537	IGLC1	6449	SGTA	R
3537	IGLC1	29979	UBQLN1	R
3547	IGSF1	3625	INHBB	L
3549	IHH	5727	PTCH	L
3549	IHH	8643	PTCH2	L
3550	IK	5217	PFN2	S
3550	IK	10524	HTATIP	S
3550	IK	20924	(null)	S
3550	IK	23636	NUP62	S
3551	IKBKB	4296	MAP3K11	L
3551	IKBKB	4790	NFKB1	L
3551	IKBKB	4792	NFKBIA	L
3551	IKBKB	5588	PRKCQ	L
3551	IKBKB	5610	EIF2AK2	L
3551	IKBKB	7128	TNFAIP3	L
3551	IKBKB	7132	TNFRSF1A	L
3551	IKBKB	7186	TRAF2	L
3551	IKBKB	8202	NCOA3	L
3551	IKBKB	8518	IKBKAP	L
3551	IKBKB	8837	CFLAR	L
3551	IKBKB	9020	MAP3K14	L

3551	IKBKB	9175	MAP3K13	L
3551	IKBKB	10010	TANK	L
3551	IKBKB	10758	TRAF3IP2	L
3551	IKBKB	26133	TRPC4AP	L
3552	IL1A	3556	IL1RAP	L
3552	IL1A	4692	NDN	L
3552	IL1A	4794	NFKBIE	L
3552	IL1A	6284	S100A13	L
3552	IL1A	7850	IL1R2	L
3552	IL1A	10456	HAX1	L
3553	IL1B	3554	IL1R1	L
3553	IL1B	3556	IL1RAP	L
3553	IL1B	5657	PRTN3	L
3553	IL1B	7850	IL1R2	L
3554	IL1R1	3556	IL1RAP	L
3554	IL1R1	3557	IL1RN	L
3554	IL1R1	3656	IRAK2	L
3554	IL1R1	5295	PIK3R1	L
3556	IL1RAP	3654	IRAK1	L
3556	IL1RAP	4615	MYD88	L
3556	IL1RAP	5295	PIK3R1	L
3556	IL1RAP	5879	RAC1	L
3556	IL1RAP	6774	STAT3	L
3556	IL1RAP	7850	IL1R2	L
3556	IL1RAP	8809	IL18R1	L
3556	IL1RAP	54472	TOLLIP	L
3556	IL1RAP	55660	FBNP3	L
3557	IL1RN	7850	IL1R2	L
3557	IL1RN	8658	TNKS	L
3558	IL2	3559	IL2RA	L
3558	IL2	3560	IL2RB	L
3558	IL2	3561	IL2RG	L
3558	IL2	4804	NGFR	L
3558	IL2	6464	SHC1	L
3559	IL2RA	3560	IL2RB	L
3559	IL2RA	4790	NFKB1	L
3559	IL2RA	6774	STAT3	L
3559	IL2RA	6777	STAT5B	L
3560	IL2RB	3561	IL2RG	L
3560	IL2RB	3600	IL15	L
3560	IL2RB	3601	IL15RA	L
3560	IL2RB	3716	JAK1	L
3560	IL2RB	3718	JAK3	L
3560	IL2RB	3932	LCK	L
3560	IL2RB	5295	PIK3R1	L
3560	IL2RB	6461	SHB	L
3560	IL2RB	6464	SHC1	L
3560	IL2RB	6772	STAT1	L
3560	IL2RB	6774	STAT3	L
3560	IL2RB	6776	STAT5A	L
3560	IL2RB	6777	STAT5B	L
3560	IL2RB	8651	SOCS1	L
3560	IL2RB	8662	EIF3S9	L
3560	IL2RB	10399	GNB2L1	L
3561	IL2RG	3565	IL4	L
3561	IL2RG	3566	IL4R	L
3561	IL2RG	3574	IL7	L
3561	IL2RG	3575	IL7R	L
3561	IL2RG	3581	IL9R	L
3561	IL2RG	3600	IL15	L
3561	IL2RG	3601	IL15RA	L
3561	IL2RG	3718	JAK3	L
3561	IL2RG	5795	PTPRJ	L
3561	IL2RG	6461	SHB	L
3561	IL2RG	6464	SHC1	L
3561	IL2RG	6772	STAT1	L
3561	IL2RG	6776	STAT5A	L

3562	IL3	3563	IL3RA	L
3562	IL3	5293	PIK3CD	L
3565	IL4	3566	IL4R	L
3565	IL4	3598	IL13RA2	L
3565	IL4	5293	PIK3CD	L
3566	IL4R	3596	IL13	L
3566	IL4R	3597	IL13RA1	L
3566	IL4R	3635	INPP5D	L
3566	IL4R	3667	IRS1	L
3566	IL4R	3716	JAK1	L
3566	IL4R	4687	NCF1	L
3566	IL4R	5777	PTPN6	L
3566	IL4R	5781	PTPN11	L
3566	IL4R	6464	SHC1	L
3566	IL4R	6778	STAT6	L
3566	IL4R	8660	IRS2	L
3566	IL4R	10399	GNB2L1	L
3566	IL4R	10425	ARIH2	S
3567	IL5	3568	IL5RA	L
3568	IL5RA	3716	JAK1	L
3568	IL5RA	3717	JAK2	L
3568	IL5RA	6386	SDCBP	L
3568	IL5RA	9094	UNC119	L
3569	IL6	3570	IL6R	L
3569	IL6	3572	IL6ST	L
3569	IL6	5744	PTHLH	L
3569	IL6	6456	SH3GL2	S
3569	IL6	7704	ZBTB16	S
3570	IL6R	3572	IL6ST	L
3570	IL6R	6714	SRC	L
3570	IL6R	6774	STAT3	L
3572	IL6ST	3716	JAK1	L
3572	IL6ST	3976	LIF	L
3572	IL6ST	3977	LIFR	L
3572	IL6ST	5008	OSM	L
3572	IL6ST	5294	PIK3CG	L
3572	IL6ST	5580	PRKCD	L
3572	IL6ST	5777	PTPN6	L
3572	IL6ST	5781	PTPN11	L
3572	IL6ST	6774	STAT3	L
3572	IL6ST	7088	TLE1	L
3572	IL6ST	7297	TYK2	L
3572	IL6ST	7409	VAV1	L
3572	IL6ST	9021	SOCS3	L
3572	IL6ST	9180	OSMR	L
3574	IL7	3575	IL7R	L
3575	IL7R	4067	LYN	L
3575	IL7R	64109	CRLF2	L
3575	IL7R	85480	TSLP	L
3576	IL8	3577	IL8RA	L
3576	IL8	3579	IL8RB	L
3576	IL8	6351	CCL4	L
3576	IL8	6382	SDC1	L
3577	IL8RA	5473	PPBP	L
3577	IL8RA	6372	CXCL6	L
3577	IL8RA	6374	CXCL5	L
3578	IL9	3581	IL9R	L
3579	IL8RB	5473	PPBP	L
3579	IL8RB	6002	RGS12	L
3579	IL8RB	6372	CXCL6	L
3579	IL8RB	6374	CXCL5	L
3579	IL8RB	22841	RAB11FIP2	L
3581	IL9R	3716	JAK1	L
3581	IL9R	7534	YWHAZ	L
3581	IL9R	10524	HTATIP	L
3586	IL10	3587	IL10RA	L
3586	IL10	3588	IL10RB	L

3587	IL10RA	3588	IL10RB	L
3587	IL10RA	3716	JAK1	L
3588	IL10RB	50616	IL22	L
3588	IL10RB	282616	IL28A	L
3588	IL10RB	282617	IL28B	L
3588	IL10RB	282618	IL29	L
3589	IL11	3590	IL11RA	L
3589	IL11	4110	MAGEA11	R
3592	IL12A	3593	IL12B	L
3593	IL12B	3594	IL12RB1	L
3593	IL12B	3595	IL12RB2	L
3594	IL12RB1	3595	IL12RB2	L
3594	IL12RB1	6775	STAT4	L
3595	IL12RB2	3717	JAK2	L
3595	IL12RB2	6775	STAT4	L
3596	IL13	3597	IL13RA1	L
3596	IL13	3598	IL13RA2	L
3596	IL13	5295	PIK3R1	L
3596	IL13	7412	VCAM1	L
3597	IL13RA1	7297	TYK2	L
3600	IL15	3601	IL15RA	L
3601	IL15RA	7186	TRAF2	L
3603	IL16	3750	KCND1	L
3603	IL16	3751	KCND2	L
3603	IL16	3759	KCNJ2	L
3603	IL16	3761	KCNJ4	L
3603	IL16	3766	KCNJ10	L
3603	IL16	3772	KCNJ15	L
3603	IL16	4659	PPP1R12A	L
3603	IL16	4660	PPP1R12B	L
3603	IL16	10534	SSSCA1	R
3603	IL16	30008	EFEMP2	R
3603	IL16	54776	PPP1R12C	L
3603	IL16	63948	DMRTB1	R
3603	IL16	83878	USHBP1	R
3604	TNFRSF9	7185	TRAF1	L
3604	TNFRSF9	7186	TRAF2	L
3604	TNFRSF9	7187	TRAF3	L
3604	TNFRSF9	8744	TNFSF9	L
3605	IL17	23765	IL17R	L
3606	IL18	8807	IL18RAP	L
3606	IL18	8808	IL1RL2	L
3606	IL18	8809	IL18R1	L
3606	IL18	10068	IL18BP	L
3608	ILF2	3609	ILF3	L
3608	ILF2	5610	EIF2AK2	L
3609	ILF3	4110	MAGEA11	R
3609	ILF3	4188	MDFI	R
3609	ILF3	5359	PLSCR1	R
3609	ILF3	5591	PRKDC	L
3609	ILF3	5610	EIF2AK2	L
3609	ILF3	7205	TRIP6	R
3609	ILF3	57510	XPO5	L
3609	ILF3	83755	KRTAP4-12	R
3611	ILK	3688	ITGB1	L
3611	ILK	3689	ITGB2	L
3611	ILK	3690	ITGB3	L
3611	ILK	3987	LIMS1	L
3611	ILK	5163	PDK1	L
3611	ILK	5829	PXN	L
3611	ILK	8440	NCK2	L
3611	ILK	55679	LIMS2	L
3611	ILK	55742	PARVA	R
3613	IMPA2	9709	HERPUD1	S
3619	INCENP	23468	CBX5	L
3620	INDO	57062	DDX24	S
3620	INDO	84988	PPP1R16A	S

3621	ING1	5111	PCNA	L
3621	ING1	7157	TP53	L
3621	ING1	8850	PCAF	L
3623	INHA	3624	INHBA	L
3623	INHA	3625	INHBB	L
3623	INHA	7049	TGFBR3	L
3624	INHBA	3625	INHBB	L
3624	INHBA	3626	INHBC	L
3624	INHBA	7049	TGFBR3	L
3624	INHBA	10272	FSTL3	L
3624	INHBA	25884	CHRD2	L
3625	INHBB	3626	INHBC	L
3625	INHBB	130399	ACVR1C	L
3628	INPP1	3978	LIG1	S
3630	INS	3643	INSR	L
3630	INS	4036	LRP2	L
3630	INS	4856	NOV	L
3630	INS	84817	TXNL5	L
3630	INS	94121	SYTL4	L
3631	INPP4A	4086	SMAD1	L
3631	INPP4A	5295	PIK3R1	L
3632	INPP5A	7534	YWHAZ	L
3635	INPP5D	4067	LYN	L
3635	INPP5D	5781	PTPN11	L
3635	INPP5D	6464	SHC1	L
3636	INPPL1	6464	SHC1	L
3636	INPPL1	9564	BCAR1	L
3636	INPPL1	10580	SORBS1	L
3638	INSIG1	22937	SCAP	L
3640	INSL3	122042	LGR8	L
3642	INSM1	4356	MPP3	S
3642	INSM1	10381	TUBB3	S
3642	INSM1	10580	SORBS1	L
3643	INSR	3645	INSRR	L
3643	INSR	3667	IRS1	L
3643	INSR	3716	JAK1	L
3643	INSR	4085	MAD2L1	L
3643	INSR	4087	SMAD2	L
3643	INSR	5167	ENPP1	L
3643	INSR	5295	PIK3R1	L
3643	INSR	5580	PRKCD	L
3643	INSR	5595	MAPK3	L
3643	INSR	5770	PTPN1	L
3643	INSR	5777	PTPN6	L
3643	INSR	5781	PTPN11	L
3643	INSR	5782	PTPN12	L
3643	INSR	5792	PTPRF	L
3643	INSR	5894	RAF1	L
3643	INSR	5921	RASA1	L
3643	INSR	6464	SHC1	L
3643	INSR	6642	SNX1	L
3643	INSR	6643	SNX2	L
3643	INSR	7409	VAV1	L
3643	INSR	8503	PIK3R3	L
3643	INSR	8651	SOCS1	L
3643	INSR	8660	IRS2	L
3643	INSR	8723	SNX4	L
3643	INSR	9021	SOCS3	L
3643	INSR	9306	SOCS6	L
3643	INSR	10451	VAV3	L
3643	INSR	10492	SYNCRIP	L
3643	INSR	10580	SORBS1	L
3643	INSR	10818	FRS2	L
3646	EIF3S6	4093	SMAD9	L
3646	EIF3S6	4905	NSF	S
3646	EIF3S6	7916	BAT2	L
3646	EIF3S6	8733	GPAA1	S

3646	EIF3S6	9001	HAP1	S
3646	EIF3S6	10900	RPIP8	R
3646	EIF3S6	51386	EIF3S6IP	L
3646	EIF3S6	57062	DDX24	S
3646	EIF3S6	60313	GPBP1L1	R
3646	EIF3S6	64708	COPS7B	L
3651	IPF1	4760	NEUROD1	L
3651	IPF1	6514	SLC2A2	L
3651	IPF1	6929	TCF3	L
3654	IRAK1	3684	ITGAM	L
3654	IRAK1	4615	MYD88	L
3654	IRAK1	4916	NTRK3	L
3654	IRAK1	5590	PRKCZ	L
3654	IRAK1	7097	TLR2	L
3654	IRAK1	7189	TRAF6	L
3654	IRAK1	8772	FADD	L
3654	IRAK1	8878	SQSTM1	L
3654	IRAK1	23118	MAP3K7IP2	L
3654	IRAK1	51135	IRAK4	L
3654	IRAK1	54472	TOLLIP	L
3654	IRAK1	92610	TIFA	L
3655	ITGA6	3732	CD82	L
3655	ITGA6	3921	RPSA	L
3655	ITGA6	5829	PXN	L
3655	ITGA6	7106	TSPAN4	L
3655	ITGA6	10755	GIPC1	L
3656	IRAK2	4615	MYD88	L
3656	IRAK2	7189	TRAF6	L
3656	IRAK2	114609	TIRAP	L
3658	IREB2	4904	YBX1	L
3659	IRF1	4790	NFKB1	L
3659	IRF1	6772	STAT1	L
3659	IRF1	8850	PCAF	L
3660	IRF2	4790	NFKB1	L
3660	IRF2	5970	RELA	L
3660	IRF2	8850	PCAF	L
3661	IRF3	3663	IRF5	L
3661	IRF3	3665	IRF7	L
3661	IRF3	5052	PRDX1	R
3661	IRF3	5055	SERPINB2	L
3662	IRF4	4773	NFATC2	L
3662	IRF4	6688	SPI1	L
3662	IRF4	6689	SPIB	L
3662	IRF4	6778	STAT6	L
3662	IRF4	7186	TRAF2	R
3667	IRS1	3718	JAK3	L
3667	IRS1	5295	PIK3R1	L
3667	IRS1	5296	PIK3R2	L
3667	IRS1	5580	PRKCD	L
3667	IRS1	5599	MAPK8	L
3667	IRS1	5601	MAPK9	L
3667	IRS1	5747	PTK2	L
3667	IRS1	5770	PTPN1	L
3667	IRS1	5781	PTPN11	L
3667	IRS1	5788	PTPRC	L
3667	IRS1	5792	PTPRF	L
3667	IRS1	6464	SHC1	L
3667	IRS1	7275	TUB	L
3667	IRS1	7297	TYK2	L
3667	IRS1	7343	UBTF	L
3667	IRS1	7529	YWHAB	L
3667	IRS1	7531	YWHAE	L
3667	IRS1	7534	YWHAZ	L
3667	IRS1	8503	PIK3R3	L
3667	IRS1	8517	IKBKG	L
3667	IRS1	8651	SOCS1	L
3667	IRS1	9021	SOCS3	L

3667	IRS1	55023	PHIP	L
3670	ISL1	4005	LMO2	L
3670	ISL1	4009	LMX1A	L
3670	ISL1	7025	NR2F1	L
3670	ISL1	8022	LHX3	L
3670	ISL1	64843	ISL2	L
3672	ITGA1	3688	ITGB1	L
3672	ITGA1	4146	MATN1	L
3672	ITGA1	7094	TLN1	L
3672	ITGA1	284217	LAMA1	L
3673	ITGA2	4312	MMP1	L
3673	ITGA2	284217	LAMA1	L
3674	ITGA2B	7450	VWF	L
3674	ITGA2B	10519	CIB1	L
3675	ITGA3	3732	CD82	L
3675	ITGA3	3909	LAMA3	L
3675	ITGA3	5877	RABIF	L
3675	ITGA3	7106	TSPAN4	L
3676	ITGA4	3695	ITGB7	L
3676	ITGA4	3732	CD82	L
3676	ITGA4	8726	EED	L
3676	ITGA4	9404	LPXN	L
3678	ITGA5	3693	ITGB5	L
3678	ITGA5	3897	L1CAM	L
3678	ITGA5	6696	SPP1	L
3678	ITGA5	10755	GIPC1	L
3678	ITGA5	11188	NISCH	L
3678	ITGA5	27329	ANGPTL3	L
3678	ITGA5	80781	COL18A1	L
3680	ITGA9	5829	PXN	L
3681	ITGAD	3689	ITGB2	L
3681	ITGAD	7412	VCAM1	L
3682	ITGAE	8726	EED	L
3682	ITGAE	55743	CHFR	S
3683	ITGAL	7087	ICAM5	L
3684	ITGAM	3689	ITGB2	L
3684	ITGAM	5329	PLAUR	L
3684	ITGAM	83700	JAM3	L
3685	ITGAV	3690	ITGB3	L
3685	ITGAV	3693	ITGB5	L
3685	ITGAV	3694	ITGB6	L
3685	ITGAV	3696	ITGB8	L
3685	ITGAV	3897	L1CAM	L
3685	ITGAV	4313	MMP2	L
3685	ITGAV	5029	P2RY2	L
3685	ITGAV	5156	PDGFRA	L
3685	ITGAV	5747	PTK2	L
3685	ITGAV	6696	SPP1	L
3685	ITGAV	7040	TGFB1	L
3685	ITGAV	10298	PAK4	L
3687	ITGAX	83700	JAM3	L
3688	ITGB1	3732	CD82	L
3688	ITGB1	3959	LGALS3BP	L
3688	ITGB1	3964	LGALS8	L
3688	ITGB1	4179	MCP	L
3688	ITGB1	4651	MYO10	L
3688	ITGB1	4830	NME1	L
3688	ITGB1	5578	PRKCA	L
3688	ITGB1	5747	PTK2	L
3688	ITGB1	5829	PXN	L
3688	ITGB1	6520	SLC3A2	L
3688	ITGB1	7057	THBS1	L
3688	ITGB1	7094	TLN1	L
3688	ITGB1	7106	TSPAN4	L
3688	ITGB1	7529	YWHAB	L
3688	ITGB1	8515	ITGA10	L
3688	ITGB1	8516	ITGA8	L

3688	ITGB1	9270	ITGB1BP1	L
3688	ITGB1	9448	MAP4K4	L
3688	ITGB1	10399	GNB2L1	L
3688	ITGB1	10618	TGOLN2	L
3688	ITGB1	22801	ITGA11	L
3688	ITGB1	26232	FBXO2	L
3688	ITGB1	26548	ITGB1BP2	L
3688	ITGB1	284217	LAMA1	L
3689	ITGB2	3732	CD82	L
3689	ITGB2	3827	KNG1	L
3689	ITGB2	5657	PRTN3	L
3689	ITGB2	5747	PTK2	L
3689	ITGB2	7087	ICAM5	L
3689	ITGB2	7094	TLN1	L
3689	ITGB2	8533	COPS3	L
3689	ITGB2	8875	VNN2	L
3689	ITGB2	9267	PSCD1	L
3689	ITGB2	10048	RANBP9	L
3689	ITGB2	10399	GNB2L1	L
3689	ITGB2	10666	CD226	L
3689	ITGB2	11082	ESM1	L
3690	ITGB3	4651	MYO10	L
3690	ITGB3	4811	NID1	L
3690	ITGB3	5029	P2RY2	L
3690	ITGB3	5156	PDGFRA	L
3690	ITGB3	5159	PDGFRB	L
3690	ITGB3	5175	PECAM1	L
3690	ITGB3	5747	PTK2	L
3690	ITGB3	7057	THBS1	L
3690	ITGB3	7094	TLN1	L
3690	ITGB3	10519	CIB1	L
3690	ITGB3	23421	ITGB3BP	L
3690	ITGB3	27329	ANGPTL3	L
3691	ITGB4	3692	ITGB4BP	L
3691	ITGB4	5339	PLEC1	L
3691	ITGB4	55914	ERBB2IP	L
3692	ITGB4BP	5160	PDHA1	S
3692	ITGB4BP	5579	PRKCB1	L
3692	ITGB4BP	5720	PSME1	S
3692	ITGB4BP	6128	RPL6	S
3692	ITGB4BP	7466	WFS1	S
3692	ITGB4BP	8481	OFD1	S
3692	ITGB4BP	10240	MRPS31	S
3692	ITGB4BP	10399	GNB2L1	L
3692	ITGB4BP	10956	OS9	S
3692	ITGB4BP	22803	XRN2	L
3692	ITGB4BP	23032	USP33	S
3692	ITGB4BP	23649	POLA2	S
3692	ITGB4BP	28964	GIT1	S
3692	ITGB4BP	54969	FLJ20534	S
3692	ITGB4BP	55068	FLJ10094	S
3692	ITGB4BP	55791	C1orf103	S
3692	ITGB4BP	55964	SEPT3	S
3692	ITGB4BP	57562	KIAA1377	S
3692	ITGB4BP	65109	UPF3B	S
3692	ITGB4BP	65991	FUNDC2	S
3692	ITGB4BP	78987	CRELD1	S
3692	ITGB4BP	84335	AKT1S1	S
3692	ITGB4BP	116983	CENTB5	S
3693	ITGB5	4052	LTBP1	L
3693	ITGB5	4054	LTBP3	L
3693	ITGB5	4651	MYO10	L
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3693	ITGB5	7709	ZBTB17	L
3693	ITGB5	10298	PAK4	L
3693	ITGB5	10399	GNB2L1	L
3693	ITGB5	23421	ITGB3BP	L

3694	ITGB6	7040	TGFB1	L
3695	ITGB7	7412	VCAM1	L
3695	ITGB7	8174	MADCAM1	L
3695	ITGB7	8726	EED	L
3695	ITGB7	10399	GNB2L1	L
3696	ITGB8	4323	MMP14	L
3696	ITGB8	7040	TGFB1	L
3698	ITIH2	10653	SPINT2	L
3699	ITIH3	10653	SPINT2	L
3702	ITK	3836	KPNA1	L
3702	ITK	3838	KPNA2	L
3702	ITK	3937	LCP2	L
3702	ITK	5335	PLCG1	L
3702	ITK	5478	PPIA	L
3702	ITK	7454	WAS	L
3702	ITK	8651	SOCS1	L
3702	ITK	10657	KHDRBS1	L
3702	ITK	27040	LAT	L
3703	ITM1	7812	CSDE1	S
3703	ITM1	55355	DKFZp762E1312	S
3703	ITM1	81618	ITM2C	S
3705	ITPK1	7186	TRAF2	R
3707	ITPKB	5566	PRKACA	L
3707	ITPKB	5578	PRKCA	L
3707	ITPKB	10197	PSME3	R
3708	ITPR1	3710	ITPR3	L
3708	ITPR1	6262	RYR2	L
3708	ITPR1	7223	TRPC4	L
3708	ITPR1	9454	HOMER3	L
3708	ITPR1	9455	HOMER2	L
3708	ITPR1	9456	HOMER1	L
3708	ITPR1	10768	AHCYL1	L
3708	ITPR1	55024	BANK1	L
3708	ITPR1	90627	STARD13	L
3709	ITPR2	7223	TRPC4	L
3710	ITPR3	7224	TRPC5	L
3710	ITPR3	7225	TRPC6	L
3710	ITPR3	7226	TRPM2	L
3710	ITPR3	10280	OPRS1	L
3713	IVL	6707	SPRR3	L
3714	JAG2	4851	NOTCH1	L
3714	JAG2	4853	NOTCH2	L
3714	JAG2	4854	NOTCH3	L
3716	JAK1	4192	MDK	L
3716	JAK1	5295	PIK3R1	L
3716	JAK1	5329	PLAUR	L
3716	JAK1	5781	PTPN11	L
3716	JAK1	5894	RAF1	L
3716	JAK1	6461	SHB	L
3716	JAK1	6772	STAT1	L
3716	JAK1	6774	STAT3	L
3716	JAK1	6776	STAT5A	L
3716	JAK1	6850	SYK	L
3716	JAK1	7006	TEC	L
3716	JAK1	7132	TNFRSF1A	L
3716	JAK1	7253	TSHR	L
3716	JAK1	7297	TYK2	L
3716	JAK1	8651	SOCS1	L
3716	JAK1	8660	IRS2	L
3716	JAK1	9180	OSMR	L
3716	JAK1	10254	STAM2	L
3716	JAK1	10399	GNB2L1	L
3716	JAK1	10419	SKB1	L
3716	JAK1	50615	IL21R	L
3717	JAK2	3815	KIT	L
3717	JAK2	3953	LEPR	L
3717	JAK2	4067	LYN	L

3717	JAK2	4192	MDK	L
3717	JAK2	5295	PIK3R1	L
3717	JAK2	5478	PPIA	L
3717	JAK2	5519	PPP2R1B	L
3717	JAK2	5525	PPP2R5A	L
3717	JAK2	5618	PRLR	L
3717	JAK2	5747	PTK2	L
3717	JAK2	5770	PTPN1	L
3717	JAK2	5777	PTPN6	L
3717	JAK2	5781	PTPN11	L
3717	JAK2	5782	PTPN12	L
3717	JAK2	5894	RAF1	L
3717	JAK2	6464	SHC1	L
3717	JAK2	6774	STAT3	L
3717	JAK2	6776	STAT5A	L
3717	JAK2	7006	TEC	L
3717	JAK2	7132	TNFRSF1A	L
3717	JAK2	7253	TSHR	L
3717	JAK2	7275	TUB	L
3717	JAK2	7409	VAV1	L
3717	JAK2	7415	VCP	L
3717	JAK2	7525	YES1	L
3717	JAK2	7852	CXCR4	L
3717	JAK2	8027	STAM	L
3717	JAK2	8651	SOCS1	L
3717	JAK2	9021	SOCS3	L
3717	JAK2	9093	DNAJA3	L
3717	JAK2	9180	OSMR	L
3717	JAK2	10254	STAM2	L
3717	JAK2	10419	SKB1	L
3717	JAK2	140885	PTPNS1	L
3718	JAK3	3932	LCK	L
3718	JAK3	5788	PTPRC	L
3718	JAK3	6461	SHB	L
3718	JAK3	6774	STAT3	L
3718	JAK3	6776	STAT5A	L
3718	JAK3	7852	CXCR4	L
3718	JAK3	8027	STAM	L
3718	JAK3	8651	SOCS1	L
3718	JAK3	8660	IRS2	L
3718	JAK3	9220	TIAF1	L
3718	JAK3	10254	STAM2	L
3718	JAK3	10419	SKB1	L
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3725	JUN	4089	SMAD4	L
3725	JUN	4094	MAF	L
3725	JUN	4097	MAFG	L
3725	JUN	4654	MYOD1	L
3725	JUN	4666	NACA	L
3725	JUN	4670	HNRPM	L
3725	JUN	4779	NFE2L1	L
3725	JUN	4780	NFE2L2	L
3725	JUN	5300	PIN1	L
3725	JUN	5371	PML	L
3725	JUN	5449	POU1F1	L
3725	JUN	5587	PRKD1	L
3725	JUN	5595	MAPK3	L
3725	JUN	5599	MAPK8	L
3725	JUN	5601	MAPK9	L
3725	JUN	5602	MAPK10	L
3725	JUN	5891	RAGE	L
3725	JUN	5925	RB1	L
3725	JUN	5970	RELA	L
3725	JUN	6497	SKI	L
3725	JUN	6602	SMARCD1	L

3725	JUN	6667	SP1	L
3725	JUN	6688	SPI1	L
3725	JUN	6689	SPIB	L
3725	JUN	6772	STAT1	L
3725	JUN	6774	STAT3	L
3725	JUN	6775	STAT4	L
3725	JUN	6872	TAF1	L
3725	JUN	6908	TBP	L
3725	JUN	6942	TCF20	L
3725	JUN	7050	TGIF	L
3725	JUN	7153	TOP2A	L
3725	JUN	7329	UBE2I	L
3725	JUN	7421	VDR	L
3725	JUN	7975	MAFK	L
3725	JUN	8061	FOSL1	L
3725	JUN	8204	NRIP1	L
3725	JUN	8550	MAPKAPK5	L
3725	JUN	8648	NCOA1	L
3725	JUN	8841	HDAC3	L
3725	JUN	9188	DDX21	L
3725	JUN	9325	TRIP4	L
3725	JUN	9584	RNPC2	L
3725	JUN	9586	CREB5	L
3725	JUN	9612	NCOR2	L
3725	JUN	10514	MYBBP1A	L
3725	JUN	10538	BATF	L
3725	JUN	10987	COPS5	L
3725	JUN	11016	ATF7	L
3725	JUN	25920	COBRA1	L
3725	JUN	55509	SNFT	L
3725	JUN	55690	PACS1	L
3725	JUN	58487	ZF	L
3725	JUN	60468	BACH2	L
3725	JUN	64326	RFWD2	L
3726	JUNB	4088	SMAD3	L
3726	JUNB	4089	SMAD4	L
3726	JUNB	4097	MAFG	L
3726	JUNB	4779	NFE2L1	L
3726	JUNB	5599	MAPK8	L
3726	JUNB	7975	MAFK	L
3726	JUNB	8061	FOSL1	RL
3726	JUNB	9586	CREB5	L
3726	JUNB	10538	BATF	L
3726	JUNB	11016	ATF7	L
3726	JUNB	22981	KIAA0980	R
3726	JUNB	55509	SNFT	L
3727	JUND	4089	SMAD4	L
3727	JUND	4221	MEN1	L
3727	JUND	4779	NFE2L1	L
3727	JUND	4780	NFE2L2	L
3727	JUND	5599	MAPK8	L
3727	JUND	5601	MAPK9	L
3727	JUND	6908	TBP	L
3727	JUND	7975	MAFK	L
3727	JUND	8061	FOSL1	L
3727	JUND	9586	CREB5	L
3727	JUND	10538	BATF	L
3727	JUND	10987	COPS5	L
3727	JUND	11016	ATF7	L
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3727	JUND	64326	RFWD2	L
3728	JUP	4582	MUC1	L
3728	JUP	4794	NFKBIE	R
3728	JUP	5175	PECAM1	L
3728	JUP	5310	PKD1	L
3728	JUP	5318	PKP2	L
3728	JUP	5784	PTPN14	L

3728	JUP	5792	PTPRF	L
3728	JUP	5795	PTPRJ	L
3728	JUP	5796	PTPRK	L
3728	JUP	6934	TCF7L2	L
3728	JUP	8945	BTRC	L
3728	JUP	9372	ZFYVE9	L
3728	JUP	26150	RIBC2	R
3728	JUP	55093	C8orf32	R
3728	JUP	56998	CTNNBIP1	RL
3730	KAL1	6383	SDC2	L
3732	CD82	4035	LRP1	L
3732	CD82	4927	NUP88	S
3732	CD82	93185	IGSF8	L
3735	KARS	5048	PAFAH1B1	S
3735	KARS	7965	JTV1	R
3735	KARS	10817	FRS3	S
3736	KCNA1	23704	KCNE4	L
3737	KCNA2	3739	KCNA4	L
3737	KCNA2	5786	PTPRA	L
3737	KCNA2	7881	KCNAB1	L
3739	KCNA4	6303	SAT	S
3739	KCNA4	9229	DLGAP1	L
3739	KCNA4	56901	LOC56901	S
3745	KCNB1	3755	KCNG1	L
3745	KCNB1	3790	KCNS3	L
3745	KCNB1	5791	PTPRE	L
3745	KCNB1	6616	SNAP25	L
3745	KCNB1	6804	STX1A	L
3750	KCND1	30820	KCNIP1	L
3751	KCND2	23413	FREQ	L
3753	KCNE1	3757	KCNH2	L
3753	KCNE1	3784	KCNQ1	L
3754	KCNF1	3756	KCNH1	L
3756	KCNH1	27133	KCNH5	L
3756	KCNH1	84920	ALG10	L
3757	KCNH2	4726	NDUFS6	S
3757	KCNH2	7531	YWHAE	L
3757	KCNH2	7533	YWHAH	L
3757	KCNH2	9992	KCNE2	L
3757	KCNH2	79577	CDC73	S
3757	KCNH2	84920	ALG10	L
3758	KCNJ1	9351	SLC9A3R2	L
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3759	KCNJ2	3764	KCNJ8	L
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3759	KCNJ2	8573	CASK	L
3759	KCNJ2	9495	AKAP5	L
3760	KCNJ3	3765	KCNJ9	L
3761	KCNJ4	8573	CASK	L
3761	KCNJ4	64130	LIN7B	L
3763	KCNJ6	3765	KCNJ9	L
3764	KCNJ8	6833	ABCC8	L
3764	KCNJ8	10060	ABCC9	L
3766	KCNJ10	10207	INADL	L
3767	KCNJ11	3939	LDHA	L
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3768	KCNJ12	8573	CASK	L
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3772	KCNJ15	10207	INADL	L
3777	KCNK3	6281	S100A10	L
3784	KCNQ1	9992	KCNE2	L
3784	KCNQ1	10142	AKAP9	L

3784	KCNQ1	23704	KCNE4	L
3785	KCNQ2	3786	KCNQ3	L
3785	KCNQ2	10425	ARIH2	S
3786	KCNQ3	9132	KCNQ4	L
3791	KDR	5335	PLCG1	L
3791	KDR	5336	PLCG2	L
3791	KDR	6461	SHB	L
3791	KDR	6464	SHC1	L
3791	KDR	7422	VEGF	L
3791	KDR	7424	VEGFC	L
3791	KDR	25759	SHC2	L
3791	KDR	80781	COL18A1	L
3792	KEL	7504	XK	L
3797	KIF3C	5683	PSMA2	L
3797	KIF3C	11127	KIF3A	L
3798	KIF5A	3831	KNS2	L
3798	KIF5A	6453	ITSN1	S
3798	KIF5A	7159	TP53BP2	S
3800	KIF5C	23557	SNAPAP	S
3807	KIR2DS2	7305	TYROBP	L
3814	KISS1	84634	GPR54	L
3815	KIT	3932	LCK	L
3815	KIT	4067	LYN	L
3815	KIT	4145	MATK	L
3815	KIT	4254	KITLG	L
3815	KIT	5295	PIK3R1	L
3815	KIT	5296	PIK3R2	L
3815	KIT	5335	PLCG1	L
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3815	KIT	5800	PTPRO	L
3815	KIT	6772	STAT1	L
3815	KIT	7006	TEC	L
3815	KIT	8651	SOCS1	L
3815	KIT	8777	MPDZ	L
3815	KIT	9402	GRAP2	L
3815	KIT	10750	GRAP	L
3816	KLK1	5104	SERPINA5	L
3816	KLK1	5267	SERPINA4	L
3817	KLK2	5104	SERPINA5	L
3817	KLK2	5267	SERPINA4	L
3817	KLK2	5269	SERPINB6	L
3817	KLK2	5345	SERPINF2	L
3818	KLKB1	3827	KNG1	L
3818	KLKB1	5104	SERPINA5	L
3818	KLKB1	7980	TFPI2	L
3821	KLRC1	3824	KLRD1	L
3821	KLRC1	5777	PTPN6	L
3821	KLRC1	5781	PTPN11	L
3823	KLRC3	3824	KLRD1	L
3823	KLRC3	7305	TYROBP	L
3827	KNG1	3848	KRT1	L
3827	KNG1	5329	PLAUR	L
3827	KNG1	5340	PLG	L
3827	KNG1	7057	THBS1	L
3827	KNG1	7448	VTN	L
3827	KNG1	22918	C1QR1	L
3831	KNS2	90678	LRSAM1	S
3835	KIF22	6477	SIAH1	L
3835	KIF22	10989	IMMT	S
3835	KIF22	64219	PJA1	S
3836	KPNA1	5079	PAX5	L
3836	KPNA1	5896	RAG1	L
3836	KPNA1	6728	SRP19	L
3836	KPNA1	6772	STAT1	L
3836	KPNA1	8290	HIST3H3	L
3836	KPNA1	8349	HIST2H2BE	L

3836	KPNA1	8543	LMO4	L
3836	KPNA1	51176	LEF1	L
3836	KPNA1	51366	EDD1	L
3837	KPNB1	3838	KPNA2	L
3837	KPNB1	3839	KPNA3	L
3837	KPNB1	4087	SMAD2	L
3837	KPNB1	4088	SMAD3	L
3837	KPNB1	4928	NUP98	L
3837	KPNB1	5744	PTHLH	L
3837	KPNB1	5757	PTMA	L
3837	KPNB1	5901	RAN	L
3837	KPNB1	5903	RANBP2	L
3837	KPNB1	6606	SMN1	L
3837	KPNB1	6662	SOX9	L
3837	KPNB1	7157	TP53	L
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3837	KPNB1	10526	IPO8	L
3837	KPNB1	10527	IPO7	L
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3837	KPNB1	23633	KPNA6	L
3837	KPNB1	23636	NUP62	L
3837	KPNB1	51366	EDD1	L
3838	KPNA2	5079	PAX5	L
3838	KPNA2	5324	PLAG1	L
3838	KPNA2	5757	PTMA	L
3838	KPNA2	5896	RAG1	L
3838	KPNA2	5965	RECQL	L
3838	KPNA2	5970	RELA	L
3838	KPNA2	6446	SGK	L
3838	KPNA2	6514	SLC2A2	L
3838	KPNA2	7157	TP53	L
3838	KPNA2	10762	NUP50	L
3838	KPNA2	51176	LEF1	L
3838	KPNA2	51366	EDD1	L
3839	KPNA3	7052	TGM2	L
3839	KPNA3	26240	FAM50B	R
3840	KPNA4	5965	RECQL	L
3840	KPNA4	7052	TGM2	L
3842	TNPO1	4928	NUP98	L
3842	TNPO1	5901	RAN	L
3842	TNPO1	5903	RANBP2	L
3842	TNPO1	6125	RPL5	L
3842	TNPO1	6201	RPS7	L
3842	TNPO1	6728	SRP19	L
3842	TNPO1	8021	NUP214	L
3842	TNPO1	8106	PABPN1	L
3842	TNPO1	8290	HIST3H3	L
3842	TNPO1	8349	HIST2H2BE	L
3842	TNPO1	9972	NUP153	L
3842	TNPO1	10482	NXF1	L
3842	TNPO1	84220	RANBP2L1	L
3843	RANBP5	4928	NUP98	L
3843	RANBP5	5897	RAG2	L
3843	RANBP5	5901	RAN	L
3843	RANBP5	5903	RANBP2	L
3843	RANBP5	6125	RPL5	L
3843	RANBP5	6201	RPS7	L
3843	RANBP5	8021	NUP214	L
3843	RANBP5	9972	NUP153	L
3843	RANBP5	23636	NUP62	L
3845	KRAS	5294	PIK3CG	L
3845	KRAS	5910	RAP1GDS1	L
3845	KRAS	8036	SHOC2	L
3845	KRAS	10235	RASGRP2	L
3845	KRAS	83593	RASSF5	L
3848	KRT1	4153	MBL2	L

3848	KRT1	5581	PRKCE	L
3852	KRT5	3861	KRT14	L
3852	KRT5	3875	KRT18	L
3852	KRT5	5318	PKP2	L
3853	KRT6A	3866	KRT15	R
3853	KRT6A	3872	KRT17	R
3853	KRT6A	11007	DIPA	R
3853	KRT6A	51019	CGI-116	R
3854	KRT6B	3866	KRT15	R
3854	KRT6B	3880	KRT19	R
3855	KRT7	7805	LAPTM5	L
3855	KRT7	8661	EIF3S10	L
3855	KRT7	55729	ATF7IP	L
3856	KRT8	5317	PKP1	L
3856	KRT8	5327	PLAT	L
3856	KRT8	5411	PNN	L
3858	KRT10	5590	PRKCZ	L
3861	KRT14	5317	PKP1	L
3861	KRT14	8717	TRADD	L
3866	KRT15	3875	KRT18	R
3866	KRT15	3880	KRT19	R
3866	KRT15	3887	KRTHB1	R
3866	KRT15	3983	ABLIM1	R
3866	KRT15	5108	PCM1	R
3866	KRT15	5630	PRPH	R
3866	KRT15	5682	PSMA1	R
3866	KRT15	5705	PSMC5	R
3866	KRT15	6602	SMARCD1	R
3866	KRT15	7251	TSG101	R
3866	KRT15	9099	USP2	R
3866	KRT15	9587	MAD2L1BP	R
3866	KRT15	9729	KIAA0408	R
3866	KRT15	10152	ABI2	R
3866	KRT15	11067	C10orf10	R
3866	KRT15	11170	TU3A	R
3866	KRT15	23237	ARC	R
3866	KRT15	23641	LDOC1	R
3866	KRT15	26150	RIBC2	R
3866	KRT15	27229	76P	R
3866	KRT15	27332	ZNF638	R
3866	KRT15	51061	TXNDC11	R
3866	KRT15	51225	ABI3	R
3866	KRT15	51322	WAC	R
3866	KRT15	51421	AMOTL2	R
3866	KRT15	54474	KRT20	R
3866	KRT15	55388	MCM10	R
3866	KRT15	55758	RCOR3	R
3866	KRT15	56243	KIAA1217	R
3866	KRT15	57658	CALCOCO1	R
3866	KRT15	60491	NIF3L1	R
3866	KRT15	79050	NOC4L	R
3866	KRT15	79696	C14orf140	R
3866	KRT15	79873	NUDT18	R
3866	KRT15	83878	USHBP1	R
3866	KRT15	84260	MGC10854	R
3866	KRT15	84708	LNX	R
3866	KRT15	84832	MGC12538	R
3866	KRT15	85359	DGCR6L	R
3866	KRT15	90060	JM11	R
3866	KRT15	112869	LOC112869	R
3866	KRT15	114822	RHPN1	R
3866	KRT15	127703	FLJ38984	R
3866	KRT15	149371	EXOC8	R
3866	KRT15	150483	MGC27019	R
3866	KRT15	164127	C1orf65	R
3866	KRT15	284058	LOC284058	R
3872	KRT17	11007	DIPA	R

3875	KRT18	5310	PKD1	L
3875	KRT18	5318	PKP2	L
3875	KRT18	5411	PNN	L
3875	KRT18	5581	PRKCE	L
3875	KRT18	7133	TNFRSF1B	L
3875	KRT18	7399	USH2A	L
3875	KRT18	7529	YWHAB	L
3875	KRT18	7531	YWHAE	L
3875	KRT18	7532	YWHAG	L
3875	KRT18	7533	YWHAH	L
3875	KRT18	7534	YWHAZ	L
3875	KRT18	8717	TRADD	L
3875	KRT18	9146	HGS	R
3875	KRT18	9191	DEDD	L
3875	KRT18	10049	DNAJB6	L
3875	KRT18	11007	DIPA	R
3875	KRT18	23641	LDOC1	R
3875	KRT18	27229	76P	R
3875	KRT18	29922	NME7	R
3875	KRT18	85415	RHPN2	L
3875	KRT18	149371	EXOC8	R
3880	KRT19	5108	PCM1	R
3880	KRT19	5411	PNN	L
3880	KRT19	9146	HGS	R
3880	KRT19	9814	SFI1	R
3880	KRT19	10152	ABI2	R
3880	KRT19	11067	C10orf10	R
3880	KRT19	11170	TU3A	R
3880	KRT19	27332	ZNF638	R
3880	KRT19	83878	USHBP1	R
3880	KRT19	85359	DGCR6L	R
3880	KRT19	149371	EXOC8	R
3887	KRTHB1	6498	SKIL	L
3887	KRTHB1	79036	MGC2749	R
3895	KTN1	5879	RAC1	L
3897	L1CAM	4478	MSN	L
3897	L1CAM	4684	NCAM1	L
3897	L1CAM	5962	RDX	L
3897	L1CAM	6900	CNTN2	L
3897	L1CAM	7430	VIL2	L
3897	L1CAM	8650	NUMB	L
3897	L1CAM	8682	PEA15	S
3902	LAG3	10153	CEBPZ	L
3902	LAG3	55835	CENPJ	L
3903	LAIR1	4072	TACSTD1	L
3903	LAIR1	5777	PTPN6	L
3903	LAIR1	5781	PTPN11	L
3906	LALBA	8349	HIST2H2BE	L
3908	LAMA2	3921	RPSA	L
3909	LAMA3	3914	LAMB3	L
3909	LAMA3	5327	PLAT	L
3909	LAMA3	5340	PLG	L
3909	LAMA3	6383	SDC2	L
3909	LAMA3	79939	SLC35E1	S
3910	LAMA4	5764	PTN	S
3910	LAMA4	7157	TP53	S
3910	LAMA4	7280	TUBB2	S
3910	LAMA4	9094	UNC119	S
3910	LAMA4	10980	COPS6	S
3910	LAMA4	11244	ZHX1	S
3910	LAMA4	29117	BRD7	S
3910	LAMA4	51003	MED31	S
3910	LAMA4	55729	ATF7IP	L
3910	LAMA4	55791	C1orf103	S
3910	LAMA4	197131	UBR1	S
3910	LAMA4	222019	(null)	S
3911	LAMA5	3915	LAMC1	L

3911	LAMA5	4059	LU	L
3911	LAMA5	4087	SMAD2	L
3911	LAMA5	4224	MEP1A	L
3911	LAMA5	9900	SV2A	L
3911	LAMA5	55729	ATF7IP	L
3911	LAMA5	84280	BTBD10	S
3913	LAMB2	57473	GM632	L
3914	LAMB3	3918	LAMC2	L
3914	LAMB3	7057	THBS1	L
3915	LAMC1	4811	NID1	L
3915	LAMC1	22795	NID2	L
3915	LAMC1	23557	SNAPAP	S
3915	LAMC1	51019	CGI-116	S
3915	LAMC1	55729	ATF7IP	L
3916	LAMP1	8907	AP1M1	L
3920	LAMP2	6622	SNCA	L
3921	RPSA	5829	PXN	L
3921	RPSA	6227	RPS21	S
3921	RPSA	7414	VCL	L
3921	RPSA	23468	CBX5	L
3927	LASP1	4188	MDFI	R
3927	LASP1	5359	PLSCR1	R
3927	LASP1	9319	TRIP13	R
3929	LBP	6227	RPS21	L
3930	LBR	4001	LMNB1	L
3930	LBR	11335	CBX3	L
3930	LBR	23360	FNBP4	L
3930	LBR	23468	CBX5	L
3930	LBR	26993	AKAP8L	L
3932	LCK	4851	NOTCH1	L
3932	LCK	5175	PECAM1	L
3932	LCK	5290	PIK3CA	L
3932	LCK	5295	PIK3R1	L
3932	LCK	5335	PLCG1	L
3932	LCK	5338	PLD2	L
3932	LCK	5777	PTPN6	L
3932	LCK	5781	PTPN11	L
3932	LCK	5788	PTPRC	L
3932	LCK	5829	PXN	L
3932	LCK	5894	RAF1	L
3932	LCK	6774	STAT3	L
3932	LCK	6850	SYK	L
3932	LCK	7010	TEK	L
3932	LCK	7070	THY1	L
3932	LCK	7275	TUB	L
3932	LCK	7535	ZAP70	L
3932	LCK	8631	SCAP1	L
3932	LCK	8751	ADAM15	L
3932	LCK	8878	SQSTM1	L
3932	LCK	9046	DOK2	L
3932	LCK	9094	UNC119	L
3932	LCK	9564	BCAR1	L
3932	LCK	10019	LNK	L
3932	LCK	10657	KHDRBS1	L
3932	LCK	27240	SIT1	L
3932	LCK	55824	PAG1	L
3932	LCK	59341	TRPV4	L
3933	LCN1	4057	LTF	L
3933	LCN1	4069	LYZ	L
3934	LCN2	4313	MMP2	L
3934	LCN2	4318	MMP9	L
3936	LCP1	25801	GCA	L
3937	LCP2	4067	LYN	L
3937	LCP2	4690	NCK1	L
3937	LCP2	5335	PLCG1	L
3937	LCP2	5336	PLCG2	L
3937	LCP2	5777	PTPN6	L

3937	LCP2	5788	PTPRC	L
3937	LCP2	6461	SHB	L
3937	LCP2	6464	SHC1	L
3937	LCP2	6850	SYK	L
3937	LCP2	7409	VAV1	L
3937	LCP2	7454	WAS	L
3937	LCP2	9402	GRAP2	RL
3937	LCP2	11184	MAP4K1	L
3937	LCP2	27040	LAT	L
3937	LCP2	55824	PAG1	L
3937	LCP2	84106	PRAM1	L
3939	LDHA	7414	VCL	L
3939	LDHA	8655	DNCL1	L
3939	LDHA	10060	ABCC9	L
3939	LDHA	54464	XRN1	L
3949	LDLR	4043	LRPAP1	L
3949	LDLR	5196	PF4	L
3949	LDLR	9784	SNX17	L
3949	LDLR	10053	AP1M2	L
3949	LDLR	26119	LDLRAP1	L
3952	LEP	3953	LEPR	L
3952	LEP	5563	PRKAA2	L
3952	LEP	51738	GHRL	L
3953	LEPR	5300	PIN1	S
3953	LEPR	5781	PTPN11	L
3953	LEPR	6642	SNX1	L
3953	LEPR	6643	SNX2	L
3953	LEPR	6774	STAT3	L
3953	LEPR	8525	DGKZ	L
3953	LEPR	8723	SNX4	L
3953	LEPR	9021	SOCS3	L
3955	LFNG	4851	NOTCH1	L
3955	LFNG	4853	NOTCH2	L
3956	LGALS1	3959	LGALS3BP	L
3956	LGALS1	5788	PTPRC	L
3956	LGALS1	5829	PXN	L
3956	LGALS1	6693	SPN	L
3956	LGALS1	7414	VCL	L
3956	LGALS1	50628	GEMIN4	L
3956	LGALS1	94025	MUC16	L
3957	LGALS2	4049	LTA	L
3958	LGALS3	3959	LGALS3BP	L
3958	LGALS3	3982	LIM2	L
3958	LGALS3	8029	CUBN	L
3958	LGALS3	50628	GEMIN4	L
3958	LGALS3	51684	SUFU	L
3959	LGALS3BP	4811	NID1	L
3959	LGALS3BP	7414	VCL	L
3960	LGALS4	10094	ARPC3	S
3960	LGALS4	22800	RRAS2	S
3960	LGALS4	57670	KIAA1549	S
3964	LGALS8	10241	NDP52	R
3972	LHB	3973	LHCGR	L
3973	LHCGR	7253	TSHR	L
3976	LIF	3977	LIFR	L
3977	LIFR	5008	OSM	L
3977	LIFR	5335	PLCG1	L
3977	LIFR	5451	POU2F1	L
3977	LIFR	5777	PTPN6	L
3977	LIFR	5781	PTPN11	L
3978	LIG1	4361	MRE11A	L
3978	LIG1	5111	PCNA	L
3978	LIG1	10381	TUBB3	S
3980	LIG3	7515	XRCC1	L
3980	LIG3	79661	NEIL1	L
3983	ABLIM1	7186	TRAF2	R
3983	ABLIM1	7431	VIM	R

3983	ABLIM1	10241	NDP52	R
3983	ABLIM1	23641	LDOC1	R
3983	ABLIM1	29911	HOOK2	R
3983	ABLIM1	57596	KIAA1446	R
3983	ABLIM1	81628	TSC22D4	R
3983	ABLIM1	83878	USHBP1	R
3984	LIMK1	3985	LIMK2	L
3984	LIMK1	5058	PAK1	L
3984	LIMK1	6093	ROCK1	L
3984	LIMK1	7534	YWHAZ	L
3984	LIMK1	9113	LATS1	L
3984	LIMK1	10298	PAK4	L
3984	LIMK1	51132	RNF12	L
3985	LIMK2	10114	HIPK3	L
3987	LIMS1	5932	RBBP8	R
3987	LIMS1	8440	NCK2	L
3987	LIMS1	9404	LPXN	R
3987	LIMS1	10919	EHMT2	R
3990	LIPC	4035	LRP1	L
3991	LIPE	6770	STAR	L
3991	LIPE	55968	NSFL1C	S
3996	LLGL1	4179	MCP	L
3996	LLGL1	65057	ACD	S
3998	LMAN1	90411	MCFD2	L
4000	LMNA	4001	LMNB1	L
4000	LMNA	5578	PRKCA	L
4000	LMNA	5829	PXN	L
4000	LMNA	5925	RB1	L
4000	LMNA	6720	SREBF1	L
4000	LMNA	7112	TMPO	L
4000	LMNA	8187	ZNF239	L
4000	LMNA	9816	KIAA0133	L
4000	LMNA	10524	HTATIP	S
4000	LMNA	23345	SYNE1	L
4000	LMNA	26502	NARF	L
4001	LMNB1	5578	PRKCA	L
4001	LMNB1	5579	PRKCB1	L
4001	LMNB1	5580	PRKCD	L
4001	LMNB1	5630	PRPH	L
4001	LMNB1	7112	TMPO	L
4001	LMNB1	9816	KIAA0133	L
4004	LMO1	4066	LYL1	L
4004	LMO1	4807	NHLH1	L
4004	LMO1	6886	TAL1	L
4004	LMO1	6887	TAL2	L
4005	LMO2	4066	LYL1	L
4005	LMO2	4301	MLLT4	L
4005	LMO2	4807	NHLH1	L
4005	LMO2	5927	JARID1A	L
4005	LMO2	5932	RBBP8	L
4005	LMO2	6772	STAT1	R
4005	LMO2	6886	TAL1	L
4005	LMO2	6887	TAL2	L
4005	LMO2	9802	DAZAP2	R
4005	LMO2	10919	EHMT2	R
4005	LMO2	10982	MAPRE2	R
4005	LMO2	22924	MAPRE3	R
4005	LMO2	51132	RNF12	L
4008	LMO7	337867	PHGDHL1	S
4012	LNPEP	4093	SMAD9	L
4012	LNPEP	8658	TNKS	L
4012	LNPEP	25865	PRKD2	L
4012	LNPEP	29109	FHOD1	L
4014	LOR	7431	VIM	S
4016	LOXL1	10516	FBLN5	L
4018	LPA	4036	LRP2	L
4018	LPA	10516	FBLN5	L

4023	LPL	4035	LRP1	L
4023	LPL	4036	LRP2	L
4023	LPL	5775	PTPN4	S
4023	LPL	6142	RPL18A	S
4023	LPL	7436	VLDLR	L
4023	LPL	10980	COPS6	S
4023	LPL	51631	LUC7L2	S
4023	LPL	57562	KIAA1377	S
4023	LPL	65264	FLJ13855	S
4023	LPL	84164	ASCC2	S
4023	LPL	374923	(null)	S
4026	LPP	7408	VASP	L
4026	LPP	9551	ATP5J2	S
4026	LPP	51374	C2orf28	S
4026	LPP	257218	SHPRH	S
4034	LRCH4	4188	MDFI	R
4034	LRCH4	57142	RTN4	R
4035	LRP1	4043	LRPAP1	L
4035	LRP1	4057	LTF	L
4035	LRP1	4192	MDK	L
4035	LRP1	4322	MMP13	L
4035	LRP1	4323	MMP14	L
4035	LRP1	4324	MMP15	L
4035	LRP1	4325	MMP16	L
4035	LRP1	4326	MMP17	L
4035	LRP1	5045	FURIN	L
4035	LRP1	5054	SERPINE1	L
4035	LRP1	5155	PDGFB	L
4035	LRP1	5265	SERPINA1	L
4035	LRP1	5327	PLAT	L
4035	LRP1	5329	PLAUR	L
4035	LRP1	5829	PXN	L
4035	LRP1	6328	SCN3A	L
4035	LRP1	6464	SHC1	L
4035	LRP1	6498	SKIL	L
4035	LRP1	7057	THBS1	L
4035	LRP1	7094	TLN1	L
4035	LRP1	7184	TRA1	L
4035	LRP1	7414	VCL	L
4035	LRP1	9270	ITGB1BP1	L
4035	LRP1	9479	MAPK8IP1	L
4035	LRP1	9567	GTPBP1	L
4035	LRP1	9784	SNX17	L
4035	LRP1	10524	HTATIP	L
4035	LRP1	10755	GIPC1	L
4035	LRP1	23542	MAPK8IP2	L
4036	LRP2	4043	LRPAP1	L
4036	LRP2	4192	MDK	L
4036	LRP2	5054	SERPINE1	L
4036	LRP2	5328	PLAU	L
4036	LRP2	5947	RBP1	L
4036	LRP2	6550	SLC9A3	L
4036	LRP2	7038	TG	L
4036	LRP2	7094	TLN1	L
4036	LRP2	7276	TTR	L
4036	LRP2	7356	SCGB1A1	L
4036	LRP2	8029	CUBN	L
4036	LRP2	9223	MAGI1	L
4036	LRP2	9270	ITGB1BP1	L
4036	LRP2	9479	MAPK8IP1	L
4036	LRP2	9737	GPRASP1	L
4036	LRP2	10755	GIPC1	L
4036	LRP2	23396	PIP5K1C	L
4036	LRP2	23542	MAPK8IP2	L
4036	LRP2	26119	LDLRAP1	L
4036	LRP2	55805	LRP2BP	L
4036	LRP2	56899	EB-1	L

4037	LRP3	23062	GGA2	L
4037	LRP3	26088	GGA1	L
4038	LRP4	25861	DFNB31	L
4040	LRP6	22943	DKK1	L
4040	LRP6	27123	DKK2	L
4041	LRP5	4093	SMAD9	L
4041	LRP5	7057	THBS1	L
4041	LRP5	8312	AXIN1	L
4041	LRP5	22943	DKK1	L
4043	LRPAP1	5496	PPM1G	S
4043	LRPAP1	5829	PXN	L
4043	LRPAP1	6272	SORT1	L
4043	LRPAP1	6653	SORL1	L
4043	LRPAP1	7094	TLN1	L
4043	LRPAP1	7414	VCL	L
4043	LRPAP1	7436	VLDLR	L
4043	LRPAP1	7804	LRP8	L
4043	LRPAP1	23649	POLA2	S
4043	LRPAP1	57142	RTN4	S
4048	LTA4H	10094	ARPC3	S
4048	LTA4H	80021	TMEM62	S
4049	LTA	4050	LTB	L
4049	LTA	4055	LTBR	L
4049	LTA	7132	TNFRSF1A	L
4049	LTA	7133	TNFRSF1B	L
4049	LTA	8764	TNFRSF14	L
4050	LTB	4055	LTBR	L
4050	LTB	7132	TNFRSF1A	L
4054	LTBP3	7040	TGFB1	L
4054	LTBP3	7042	TGFB2	L
4054	LTBP3	7043	TGFB3	L
4054	LTBP3	55660	FNBP3	L
4055	LTBR	7186	TRAF2	L
4055	LTBR	7187	TRAF3	L
4055	LTBR	7188	TRAF5	L
4055	LTBR	8740	TNFSF14	L
4055	LTBR	9618	TRAF4	L
4055	LTBR	56616	DIABLO	L
4057	LTF	4069	LYZ	L
4057	LTF	4589	MUC7	L
4058	LTK	5287	PIK3C2B	L
4058	LTK	5770	PTPN1	L
4058	LTK	6464	SHC1	L
4060	LUM	4323	MMP14	L
4060	LUM	6434	SFRS10	S
4061	LY6E	56005	C19orf10	L
4062	LY6H	84988	PPP1R16A	S
4063	LY9	4068	SH2D1A	L
4064	CD180	9450	LY86	L
4066	LYL1	4790	NFKB1	L
4066	LYL1	6929	TCF3	L
4067	LYN	4311	MME	L
4067	LYN	4836	NMT1	L
4067	LYN	4868	NPHS1	L
4067	LYN	5141	PDE4A	L
4067	LYN	5175	PECAM1	L
4067	LYN	5294	PIK3CG	L
4067	LYN	5335	PLCG1	L
4067	LYN	5511	PPP1R8	L
4067	LYN	5588	PRKCQ	L
4067	LYN	5591	PRKDC	L
4067	LYN	5595	MAPK3	L
4067	LYN	5777	PTPN6	L
4067	LYN	6464	SHC1	L
4067	LYN	6850	SYK	L
4067	LYN	7297	TYK2	L
4067	LYN	7314	UBB	L

4067	LYN	8631	SCAP1	L
4067	LYN	8935	SCAP2	L
4067	LYN	9094	UNC119	L
4067	LYN	9322	TRIP10	L
4067	LYN	9564	BCAR1	L
4067	LYN	9846	GAB2	L
4067	LYN	23624	CBLC	L
4067	LYN	23645	PPP1R15A	L
4067	LYN	51206	GP6	L
4067	LYN	51466	EVL	L
4067	LYN	55024	BANK1	L
4067	LYN	55824	PAG1	L
4067	LYN	59341	TRPV4	L
4067	LYN	84106	PRAM1	L
4067	LYN	139716	GAB3	L
4068	SH2D1A	6504	SLAMF1	L
4068	SH2D1A	8832	CD84	L
4068	SH2D1A	51744	CD244	L
4068	SH2D1A	57823	SLAMF7	L
4068	SH2D1A	114836	SLAMF6	L
4071	TM4SF1	22142	(null)	S
4074	M6PR	5972	REN	L
4074	M6PR	23163	GGA3	L
4074	M6PR	26088	GGA1	L
4074	M6PR	63971	KIF13A	L
4076	M11S1	5829	PXN	L
4077	NBR1	9638	FEZ1	L
4077	NBR1	10519	CIB1	L
4077	NBR1	51534	C6orf55	R
4082	MARCKS	10140	TOB1	L
4084	MXD1	4149	MAX	L
4084	MXD1	4609	MYC	L
4084	MXD1	4610	MYCL1	L
4084	MXD1	4613	MYCN	L
4084	MXD1	5371	PML	L
4084	MXD1	8819	SAP30	L
4084	MXD1	9126	CSPG6	L
4084	MXD1	23309	SIN3B	L
4084	MXD1	84106	PRAM1	L
4085	MAD2L1	4153	MBL2	L
4085	MAD2L1	5980	REV3L	L
4085	MAD2L1	6868	ADAM17	L
4085	MAD2L1	8379	MAD1L1	RL
4085	MAD2L1	8881	CDC16	L
4085	MAD2L1	9587	MAD2L1BP	L
4085	MAD2L1	10403	KNTC2	L
4085	MAD2L1	10537	UBD	L
4085	MAD2L1	81628	TSC22D4	R
4086	SMAD1	4089	SMAD4	L
4086	SMAD1	4090	SMAD5	L
4086	SMAD1	4091	SMAD6	L
4086	SMAD1	4152	MBD1	L
4086	SMAD1	4734	NEDD4	L
4086	SMAD1	4739	NEDD9	L
4086	SMAD1	4762	NEUROG1	L
4086	SMAD1	4853	NOTCH2	L
4086	SMAD1	5692	PSMB4	L
4086	SMAD1	5707	PSMD1	L
4086	SMAD1	5717	PSMD11	L
4086	SMAD1	6498	SKIL	L
4086	SMAD1	6605	SMARCE1	L
4086	SMAD1	6625	SNRP70	L
4086	SMAD1	6660	SOX5	L
4086	SMAD1	6942	TCF20	L
4086	SMAD1	7508	XPC	L
4086	SMAD1	7514	XPO1	L
4086	SMAD1	7554	ZNF8	L

4086	SMAD1	7629	ZNF76	L
4086	SMAD1	8085	MLL2	L
4086	SMAD1	8458	TTF2	L
4086	SMAD1	8554	PIAS1	L
4086	SMAD1	9091	PIGQ	L
4086	SMAD1	9698	PUM1	L
4086	SMAD1	9839	ZFH1B	L
4086	SMAD1	10140	TOB1	L
4086	SMAD1	10691	GMEB1	L
4086	SMAD1	22858	ICK	L
4086	SMAD1	22869	ZNF510	L
4086	SMAD1	23090	ZNF423	L
4086	SMAD1	23269	MGA	L
4086	SMAD1	23592	LEMD3	L
4086	SMAD1	26959	HBP1	L
4086	SMAD1	28996	HIPK2	L
4086	SMAD1	29068	BTBD15	L
4086	SMAD1	51176	LEF1	L
4086	SMAD1	51304	ZDHC3	L
4086	SMAD1	51588	PIAS4	L
4086	SMAD1	51652	VPS24	L
4086	SMAD1	55914	ERBB2IP	L
4086	SMAD1	57154	SMURF1	L
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4086	SMAD1	57496	MKL2	L
4086	SMAD1	64750	SMURF2	L
4086	SMAD1	79753	SNIP1	L
4086	SMAD1	84079	ANKRD27	L
4086	SMAD1	90627	STARD13	L
4086	SMAD1	90987	ZNF251	L
4086	SMAD1	157922	CAMSAP1	L
4086	SMAD1	201516	ZSCAN4	L
4086	SMAD1	392255	GDF6	L
4087	SMAD2	4088	SMAD3	L
4087	SMAD2	4089	SMAD4	L
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4087	SMAD2	4205	MEF2A	L
4087	SMAD2	4208	MEF2C	L
4087	SMAD2	4301	MLLT4	L
4087	SMAD2	4609	MYC	L
4087	SMAD2	4802	NFYC	L
4087	SMAD2	5069	PAPPA	L
4087	SMAD2	5371	PML	L
4087	SMAD2	5518	PPP2R1A	L
4087	SMAD2	5573	PRKAR1A	L
4087	SMAD2	5660	PSAP	L
4087	SMAD2	5678	PSG9	L
4087	SMAD2	5714	PSMD8	L
4087	SMAD2	5717	PSMD11	L
4087	SMAD2	5824	PEX19	L
4087	SMAD2	5915	RARB	L
4087	SMAD2	5933	RBL1	L
4087	SMAD2	6093	ROCK1	L
4087	SMAD2	6208	RPS14	L
4087	SMAD2	6233	RPS27A	L
4087	SMAD2	6256	RXRA	L
4087	SMAD2	6497	SKI	L
4087	SMAD2	6498	SKIL	L
4087	SMAD2	6625	SNRP70	L
4087	SMAD2	6667	SP1	L
4087	SMAD2	6717	SRI	L
4087	SMAD2	6764	ST5	L
4087	SMAD2	6767	ST13	L
4087	SMAD2	6935	TCF8	L
4087	SMAD2	7046	TGFBR1	L
4087	SMAD2	7050	TGIF	L
4087	SMAD2	7052	TGM2	L

4087	SMAD2	7266	DNAJC7	L
4087	SMAD2	7311	UBA52	L
4087	SMAD2	7554	ZNF8	L
4087	SMAD2	7592	ZNF41	L
4087	SMAD2	8021	NUP214	L
4087	SMAD2	8065	CUL5	L
4087	SMAD2	8312	AXIN1	L
4087	SMAD2	8881	CDC16	L
4087	SMAD2	8928	FOXH1	L
4087	SMAD2	9372	ZFYVE9	L
4087	SMAD2	9392	TGFBRAP1	L
4087	SMAD2	9516	LITAF	L
4087	SMAD2	9839	ZFHX1B	L
4087	SMAD2	9972	NUP153	L
4087	SMAD2	10048	RANBP9	L
4087	SMAD2	10140	TOB1	L
4087	SMAD2	10226	M6PRBP1	L
4087	SMAD2	10274	STAG1	L
4087	SMAD2	10393	ANAPC10	L
4087	SMAD2	10401	PIAS3	L
4087	SMAD2	10657	KHDRBS1	L
4087	SMAD2	10771	ZMYND11	L
4087	SMAD2	10914	PAPOLA	L
4087	SMAD2	10956	OS9	L
4087	SMAD2	10987	COPS5	L
4087	SMAD2	11171	STRAP	L
4087	SMAD2	11177	BAZ1A	L
4087	SMAD2	22938	SNW1	L
4087	SMAD2	22976	PAXIP1	L
4087	SMAD2	23054	NCOA6	L
4087	SMAD2	23325	KIAA1033	L
4087	SMAD2	23557	SNAPAP	L
4087	SMAD2	26953	RANBP6	L
4087	SMAD2	28996	HIPK2	L
4087	SMAD2	29882	ANAPC2	L
4087	SMAD2	51176	LEF1	L
4087	SMAD2	51366	EDD1	L
4087	SMAD2	51386	EIF3S6IP	L
4087	SMAD2	54165	DCUN1D1	L
4087	SMAD2	54680	C1orf181	L
4087	SMAD2	55223	TRIM62	L
4087	SMAD2	55577	NAGK	L
4087	SMAD2	55599	RNPC3	L
4087	SMAD2	55643	BTBD2	L
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4087	SMAD2	56288	PARD3	L
4087	SMAD2	57154	SMURF1	L
4087	SMAD2	57459	GATAD2B	L
4087	SMAD2	63891	RNF123	L
4087	SMAD2	64750	SMURF2	L
4087	SMAD2	79640	FLJ23584	L
4087	SMAD2	79753	SNIP1	L
4087	SMAD2	80325	ABTB1	L
4087	SMAD2	81704	DOCK8	L
4087	SMAD2	118429	ANTXR2	L
4087	SMAD2	145483	C14orf44	L
4088	SMAD3	4089	SMAD4	L
4088	SMAD3	4149	MAX	L
4088	SMAD3	4152	MBD1	L
4088	SMAD3	4194	MDM4	L
4088	SMAD3	4221	MEN1	L
4088	SMAD3	4303	MLLT7	L
4088	SMAD3	4609	MYC	L
4088	SMAD3	4739	NEDD9	L
4088	SMAD3	4802	NFYC	L
4088	SMAD3	4851	NOTCH1	L
4088	SMAD3	5069	PAPPA	L

4088	SMAD3	5097	PCDH1	L
4088	SMAD3	5190	PEX6	L
4088	SMAD3	5324	PLAG1	L
4088	SMAD3	5325	PLAGL1	L
4088	SMAD3	5371	PML	L
4088	SMAD3	5518	PPP2R1A	L
4088	SMAD3	5599	MAPK8	L
4088	SMAD3	5717	PSMD11	L
4088	SMAD3	5933	RBL1	L
4088	SMAD3	6175	RPLP0	L
4088	SMAD3	6497	SKI	L
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4088	SMAD3	7030	TFE3	L
4088	SMAD3	7052	TGM2	L
4088	SMAD3	7421	VDR	L
4088	SMAD3	7554	ZNF8	L
4088	SMAD3	7704	ZBTB16	L
4088	SMAD3	7750	ZNF198	L
4088	SMAD3	8021	NUP214	L
4088	SMAD3	8312	AXIN1	L
4088	SMAD3	8881	CDC16	L
4088	SMAD3	8888	MCM3AP	L
4088	SMAD3	8928	FOXH1	L
4088	SMAD3	9372	ZFYVE9	L
4088	SMAD3	9728	KIAA0256	L
4088	SMAD3	9757	MLL4	L
4088	SMAD3	9839	ZFHX1B	L
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4088	SMAD3	10428	CFDP1	L
4088	SMAD3	10610	ST6GALNAC2	L
4088	SMAD3	10691	GMEB1	L
4088	SMAD3	11018	TMED1	L
4088	SMAD3	11108	PRDM4	L
4088	SMAD3	11171	STRAP	L
4088	SMAD3	22823	MTF2	L
4088	SMAD3	22938	SNW1	L
4088	SMAD3	22992	FBXL11	L
4088	SMAD3	23054	NCOA6	L
4088	SMAD3	23462	HEY1	L
4088	SMAD3	26088	GGA1	L
4088	SMAD3	26508	HEYL	L
4088	SMAD3	51176	LEF1	L
4088	SMAD3	51523	CXXC5	L
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4088	SMAD3	55769	ZNF83	L
4088	SMAD3	55914	ERBB2IP	L
4088	SMAD3	56478	EIF4ENIF1	L
4088	SMAD3	57154	SMURF1	L
4088	SMAD3	57648	KIAA1522	L
4088	SMAD3	60436	TGIF2	L
4088	SMAD3	64115	C10orf54	L
4088	SMAD3	64750	SMURF2	L
4088	SMAD3	79595	SAP130	L
4088	SMAD3	79673	ZNF329	L
4088	SMAD3	79987	SVEP1	L
4088	SMAD3	284058	LOC284058	L
4089	SMAD4	4090	SMAD5	L
4089	SMAD4	4093	SMAD9	R
4089	SMAD4	4149	MAX	L
4089	SMAD4	4205	MEF2A	L
4089	SMAD4	4303	MLLT7	L

4089	SMAD4	4435	CITED1	L
4089	SMAD4	4654	MYOD1	L
4089	SMAD4	5603	MAPK13	L
4089	SMAD4	5670	PSG2	L
4089	SMAD4	5678	PSG9	L
4089	SMAD4	5717	PSMD11	L
4089	SMAD4	5898	RALA	L
4089	SMAD4	5933	RBL1	L
4089	SMAD4	6158	RPL28	L
4089	SMAD4	6497	SKI	L
4089	SMAD4	6498	SKIL	L
4089	SMAD4	6625	SNRP70	L
4089	SMAD4	6667	SP1	L
4089	SMAD4	6988	TCTA	L
4089	SMAD4	7030	TFE3	L
4089	SMAD4	7329	UBE2I	RL
4089	SMAD4	7332	UBE2L3	L
4089	SMAD4	7554	ZNF8	L
4089	SMAD4	7750	ZNF198	L
4089	SMAD4	8554	PIAS1	L
4089	SMAD4	8945	BTRC	L
4089	SMAD4	9375	TM9SF2	L
4089	SMAD4	9392	TGFBRAP1	L
4089	SMAD4	10140	TOB1	L
4089	SMAD4	10256	CNKSRI	L
4089	SMAD4	10272	FSTL3	L
4089	SMAD4	10363	HMG20A	L
4089	SMAD4	10401	PIAS3	L
4089	SMAD4	10457	GPNMB	L
4089	SMAD4	10987	COPS5	L
4089	SMAD4	23090	ZNF423	L
4089	SMAD4	51176	LEF1	L
4089	SMAD4	51497	TH1L	L
4089	SMAD4	55660	FNBP3	L
4089	SMAD4	55714	ODZ3	L
4089	SMAD4	55802	DCP1A	L
4089	SMAD4	55914	ERBB2IP	L
4089	SMAD4	57510	XPO5	L
4089	SMAD4	58486	LOC58486	L
4089	SMAD4	60676	PAPPA2	L
4089	SMAD4	64777	FLJ22318	L
4089	SMAD4	79650	FLJ13154	L
4089	SMAD4	79753	SNIP1	L
4089	SMAD4	114790	STK11IP	L
4089	SMAD4	115426	UHRF2	L
4089	SMAD4	196513	DCP1B	L
4090	SMAD5	4152	MBD1	L
4090	SMAD5	4734	NEDD4	L
4090	SMAD5	5717	PSMD11	L
4090	SMAD5	5782	PTPN12	L
4090	SMAD5	5936	RBM4	L
4090	SMAD5	6262	RYR2	L
4090	SMAD5	6421	SFPQ	L
4090	SMAD5	6625	SNRP70	L
4090	SMAD5	6626	SNRPA	L
4090	SMAD5	6660	SOX5	L
4090	SMAD5	7554	ZNF8	L
4090	SMAD5	9839	ZFHX1B	L
4090	SMAD5	10140	TOB1	L
4090	SMAD5	11059	WWP1	L
4090	SMAD5	11284	PNKP	L
4090	SMAD5	11338	U2AF2	L
4090	SMAD5	51523	CXXC5	L
4090	SMAD5	51652	VPS24	L
4090	SMAD5	54893	MTMR10	L
4090	SMAD5	57154	SMURF1	L
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4090	SMAD5	83595	SOX7	L
4090	SMAD5	85313	PPIL4	L
4090	SMAD5	392255	GDF6	L
4091	SMAD6	4092	SMAD7	L
4091	SMAD6	6885	MAP3K7	L
4091	SMAD6	10454	MAP3K7IP1	L
4091	SMAD6	10617	STAMPB	L
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4091	SMAD6	54778	RNF111	L
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4092	SMAD7	4152	MBD1	L
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4092	SMAD7	5606	MAP2K3	L
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4092	SMAD7	6660	SOX5	L
4092	SMAD7	6885	MAP3K7	L
4092	SMAD7	7046	TGFBR1	L
4092	SMAD7	7048	TGFBR2	L
4092	SMAD7	8458	TTF2	L
4092	SMAD7	8554	PIAS1	L
4092	SMAD7	9580	SOX13	L
4092	SMAD7	10413	YAP1	L
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4092	SMAD7	10617	STAMPB	L
4092	SMAD7	11171	STRAP	L
4092	SMAD7	22992	FBXL11	L
4092	SMAD7	26508	HEYL	L
4092	SMAD7	27107	ZBTB11	L
4092	SMAD7	29068	BTBD15	L
4092	SMAD7	51427	ZNF588	L
4092	SMAD7	51523	CXXC5	L
4092	SMAD7	51588	PIAS4	L
4092	SMAD7	54778	RNF111	L
4092	SMAD7	55870	ASH1L	L
4092	SMAD7	55914	ERBB2IP	L
4092	SMAD7	56288	PARD3	L
4092	SMAD7	57154	SMURF1	L
4092	SMAD7	57496	MKL2	L
4092	SMAD7	64750	SMURF2	L
4092	SMAD7	83595	SOX7	L
4093	SMAD9	4125	MAN2B1	L
4093	SMAD9	4152	MBD1	L
4093	SMAD9	4245	MGAT1	L
4093	SMAD9	4299	AFF1	L
4093	SMAD9	5069	PAPPA	L
4093	SMAD9	5256	PHKA2	L
4093	SMAD9	5318	PKP2	L
4093	SMAD9	5339	PLEC1	L
4093	SMAD9	5467	PPARD	L
4093	SMAD9	5529	PPP2R5E	L
4093	SMAD9	5660	PSAP	L
4093	SMAD9	5714	PSMD8	L
4093	SMAD9	5859	QARS	L
4093	SMAD9	6238	RRBP1	L
4093	SMAD9	6625	SNRP70	L
4093	SMAD9	6711	SPTBN1	L
4093	SMAD9	6904	TBCD	L
4093	SMAD9	7013	TERF1	L
4093	SMAD9	7266	DNAJC7	L
4093	SMAD9	7337	UBE3A	L
4093	SMAD9	7403	UTX	L
4093	SMAD9	8085	MLL2	L
4093	SMAD9	8543	LMO4	L
4093	SMAD9	8544	PIR	L
4093	SMAD9	8663	EIF3S8	L
4093	SMAD9	8665	EIF3S5	L

4093	SMAD9	8761	PABPC4	L
4093	SMAD9	8888	MCM3AP	L
4093	SMAD9	9070	ASH2L	L
4093	SMAD9	9093	DNAJA3	L
4093	SMAD9	9320	TRIP12	L
4093	SMAD9	9640	ZNF592	L
4093	SMAD9	9646	SH2BP1	L
4093	SMAD9	9652	KIAA0372	L
4093	SMAD9	9662	CEP4	L
4093	SMAD9	9839	ZFHX1B	L
4093	SMAD9	10048	RANBP9	L
4093	SMAD9	10274	STAG1	L
4093	SMAD9	10903	MTMR11	L
4093	SMAD9	10905	MAN1A2	L
4093	SMAD9	10971	YWHAQ	L
4093	SMAD9	11034	DSTN	L
4093	SMAD9	11177	BAZ1A	L
4093	SMAD9	22943	DKK1	L
4093	SMAD9	23049	SMG1	L
4093	SMAD9	23086	EXPH5	L
4093	SMAD9	23173	METAP1	L
4093	SMAD9	23355	KIAA0804	L
4093	SMAD9	23462	HEY1	L
4093	SMAD9	23592	LEMD3	L
4093	SMAD9	23650	TRIM29	L
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4093	SMAD9	29979	UBQLN1	L
4093	SMAD9	51523	CXXC5	L
4093	SMAD9	51676	ASB2	L
4093	SMAD9	54893	MTMR10	L
4093	SMAD9	55219	TMEM57	L
4093	SMAD9	55236	FLJ10808	L
4093	SMAD9	55577	NAGK	L
4093	SMAD9	55611	OTUB1	L
4093	SMAD9	55769	ZNF83	L
4093	SMAD9	55898	SMAP-1	L
4093	SMAD9	56652	PEO1	L
4093	SMAD9	56893	UBQLN4	L
4093	SMAD9	57104	PNPLA2	L
4093	SMAD9	57134	MAN1C1	L
4093	SMAD9	57492	ARID1B	L
4093	SMAD9	63891	RNF123	L
4093	SMAD9	64129	TINAGL1	L
4093	SMAD9	64333	ARHGAP9	L
4093	SMAD9	64374	SIL1	L
4093	SMAD9	64795	FLJ13910	L
4093	SMAD9	79048	SECISBP2	L
4093	SMAD9	79230	ZNF557	L
4093	SMAD9	79586	CHPF	L
4093	SMAD9	79987	SVEP1	L
4093	SMAD9	80124	VCPIP1	L
4093	SMAD9	80325	ABTB1	L
4093	SMAD9	81570	CLPB	L
4093	SMAD9	81624	DIAPH3	L
4093	SMAD9	84914	ZNF587	L
4093	SMAD9	132884	EVC2	L
4093	SMAD9	147664	FLJ32214	L
4093	SMAD9	157922	CAMSAP1	L
4093	SMAD9	201516	ZSCAN4	L
4094	MAF	4097	MAFG	L
4094	MAF	4602	MYB	L
4094	MAF	6662	SOX9	L
4094	MAF	7392	USF2	L
4094	MAF	9935	MAFB	L
4097	MAFG	4778	NFE2	L
4097	MAFG	4779	NFE2L1	L

4097	MAFG	4780	NFE2L2	L
4097	MAFG	5080	PAX6	L
4097	MAFG	5396	PRRX1	L
4097	MAFG	7431	VIM	S
4097	MAFG	7975	MAFK	L
4097	MAFG	9586	CREB5	L
4097	MAFG	9603	NFE2L3	L
4097	MAFG	11016	ATF7	L
4097	MAFG	51003	MED31	S
4097	MAFG	55509	SNFT	L
4097	MAFG	60468	BACH2	L
4097	MAFG	84060	DKFZP564O0523	S
4099	MAG	4131	MAP1B	L
4099	MAG	4155	MBP	L
4099	MAG	5354	PLP1	L
4100	MAGEA1	7381	UQCRB	R
4100	MAGEA1	11074	TRIM31	R
4100	MAGEA1	54471	FLJ20232	R
4100	MAGEA1	56904	SH3GLB2	R
4103	MAGEA4	5716	PSMD10	L
4103	MAGEA4	7381	UQCRB	R
4103	MAGEA4	140691	RNF36	R
4103	MAGEA4	150483	MGC27019	R
4110	MAGEA11	4291	MLF1	R
4110	MAGEA11	4715	NDUFB9	R
4110	MAGEA11	5264	PHYH	R
4110	MAGEA11	5987	RFP	R
4110	MAGEA11	6919	TCEA2	R
4110	MAGEA11	7704	ZBTB16	R
4110	MAGEA11	8644	AKR1C3	R
4110	MAGEA11	8715	NOL4	R
4110	MAGEA11	9167	COX7A2L	R
4110	MAGEA11	9411	ARHGAP29	R
4110	MAGEA11	9491	PSMF1	R
4110	MAGEA11	9589	WTAP	R
4110	MAGEA11	9729	KIAA0408	R
4110	MAGEA11	10445	MCRS1	R
4110	MAGEA11	10495	COVA1	R
4110	MAGEA11	10935	PRDX3	R
4110	MAGEA11	11284	PNKP	R
4110	MAGEA11	22980	KIAA1049	R
4110	MAGEA11	23059	CLUAP1	R
4110	MAGEA11	25953	MR-1	R
4110	MAGEA11	27042	C1orf107	R
4110	MAGEA11	29057	TMEM29	R
4110	MAGEA11	51082	POLR1D	R
4110	MAGEA11	51103	NDUFAF1	R
4110	MAGEA11	51375	SNX7	R
4110	MAGEA11	51534	C6orf55	R
4110	MAGEA11	51619	UBE2D4	R
4110	MAGEA11	54431	DNAJC10	R
4110	MAGEA11	55621	TRMT1	R
4110	MAGEA11	55698	FLJ10324	R
4110	MAGEA11	58529	MYOZ1	R
4110	MAGEA11	60491	NIF3L1	R
4110	MAGEA11	63898	SH2D4A	R
4110	MAGEA11	64770	CCDC14	R
4110	MAGEA11	78990	OTUB2	R
4110	MAGEA11	79027	ZNF655	R
4110	MAGEA11	79706	PRKRIP1	R
4110	MAGEA11	79959	C18orf9	R
4110	MAGEA11	80306	MED28	R
4110	MAGEA11	81565	NDEL1	R
4110	MAGEA11	83463	MXD3	R
4110	MAGEA11	84707	BEX2	R
4110	MAGEA11	84708	LNX	R
4110	MAGEA11	84767	TRIM51	R

4110	MAGEA11	92667	C20orf72	R
4110	MAGEA11	114908	PORIMIN	R
4110	MAGEA11	124460	SLIC1	R
4110	MAGEA11	130013	ACMSD	R
4110	MAGEA11	151112	ZSWIM2	R
4110	MAGEA11	162681	C18orf54	R
4110	MAGEA11	164127	C1orf65	R
4110	MAGEA11	170082	MGC17403	R
4110	MAGEA11	200523	FLJ25369	R
4110	MAGEA11	387338	NSUN4	R
4111	MAGEA12	6776	STAT5A	R
4115	MAGEB4	117246	FSTSJ3	R
4116	MAGOH	9939	RBM8A	L
4116	MAGOH	10482	NXF1	L
4122	MAN2A2	7431	VIM	S
4122	MAN2A2	8518	IKBKAP	S
4122	MAN2A2	28964	GIT1	S
4122	MAN2A2	51631	LUC7L2	S
4123	MAN2C1	7916	BAT2	L
4130	MAP1A	4131	MAP1B	L
4130	MAP1A	7280	TUBB2	L
4130	MAP1A	27185	DISC1	L
4130	MAP1A	84557	MAP1LC3A	L
4131	MAP1B	5599	MAPK8	L
4131	MAP1B	6622	SNCA	L
4131	MAP1B	8125	ANP32A	L
4131	MAP1B	8139	GAN	L
4131	MAP1B	8655	DNCL1	L
4133	MAP2	4647	MYO7A	L
4133	MAP2	5339	PLEC1	L
4133	MAP2	57787	MARK4	L
4133	MAP2	84630	TTBK1	L
4134	MAP4	5829	PXN	L
4134	MAP4	7094	TLN1	L
4134	MAP4	7280	TUBB2	L
4134	MAP4	57787	MARK4	L
4137	MAPT	5300	PIN1	L
4137	MAPT	5663	PSEN1	L
4137	MAPT	6285	S100B	L
4137	MAPT	6622	SNCA	L
4137	MAPT	6710	SPTB	L
4137	MAPT	6812	STXBP1	L
4137	MAPT	7280	TUBB2	L
4137	MAPT	7529	YWHAB	L
4137	MAPT	7534	YWHAZ	L
4137	MAPT	8287	USP9Y	L
4137	MAPT	8473	OGT	L
4137	MAPT	57787	MARK4	L
4140	MARK3	5588	PRKCQ	L
4140	MARK3	6919	TCEA2	S
4140	MARK3	7276	TTR	S
4140	MARK3	8655	DNCL1	L
4140	MARK3	9512	PMPCB	S
4140	MARK3	10898	CPSF4	S
4140	MARK3	25926	NOL11	S
4140	MARK3	55823	VPS11	S
4140	MARK3	56311	ANKRD7	S
4140	MARK3	57104	PNPLA2	S
4140	MARK3	79754	ASB13	S
4140	MARK3	113174	LOC113174	S
4141	MARS	5917	RARS	L
4141	MARS	7975	MAFK	L
4141	MARS	9647	PPM1F	S
4141	MARS	11100	HNRPUL1	S
4144	MAT2A	27430	MAT2B	L
4145	MATK	4914	NTRK1	L
4145	MATK	5829	PXN	L

4145	MATK	6714	SRC	L
4146	MATN1	4147	MATN2	L
4146	MATN1	4148	MATN3	L
4146	MATN1	8785	MATN4	L
4147	MATN2	8785	MATN4	L
4148	MATN3	8785	MATN4	L
4149	MAX	4335	MNT	L
4149	MAX	4436	MSH2	L
4149	MAX	4601	MXI1	RL
4149	MAX	4609	MYC	L
4149	MAX	4610	MYCL1	L
4149	MAX	4613	MYCN	L
4149	MAX	7003	TEAD1	L
4149	MAX	8295	TRRAP	L
4149	MAX	9043	SPAG9	L
4149	MAX	10608	MXD4	L
4149	MAX	79666	PLEKHF2	R
4152	MBD1	6839	SUV39H1	L
4152	MBD1	10036	CHAF1A	L
4152	MBD1	10114	HIPK3	L
4152	MBD1	23468	CBX5	L
4152	MBD1	55729	ATF7IP	L
4152	MBD1	57473	GM632	L
4153	MBL2	5648	MASP1	L
4153	MBL2	5788	PTPRC	L
4153	MBL2	6399	TRAPPC2	L
4153	MBL2	10747	MASP2	L
4153	MBL2	22918	C1QR1	L
4155	MBP	4316	MMP7	L
4155	MBP	5354	PLP1	L
4155	MBP	5603	MAPK13	L
4155	MBP	5901	RAN	L
4155	MBP	6789	STK4	L
4155	MBP	8550	MAPKAPK5	L
4155	MBP	8569	MKNK1	L
4155	MBP	8576	STK16	L
4155	MBP	9149	DYRK1B	L
4155	MBP	10419	SKB1	L
4155	MBP	11011	TLK2	L
4155	MBP	27347	STK39	L
4155	MBP	51755	CRK7	L
4155	MBP	51765	MASK	L
4155	MBP	54822	TRPM7	L
4155	MBP	55589	BMP2K	L
4155	MBP	58190	CTDSP1	L
4155	MBP	91754	NEK9	L
4157	MC1R	4160	MC4R	L
4157	MC1R	5443	POMC	L
4158	MC2R	5443	POMC	L
4160	MC4R	4852	NPY	L
4160	MC4R	5443	POMC	L
4161	MC5R	5443	POMC	L
4162	MCAM	55729	ATF7IP	L
4168	MCF2	10188	TNK2	L
4170	MCL1	8658	TNKS	L
4170	MCL1	10018	BCL2L11	L
4171	MCM2	4172	MCM3	L
4171	MCM2	4174	MCM5	L
4171	MCM2	4175	MCM6	RL
4171	MCM2	4176	MCM7	L
4171	MCM2	4356	MPP3	S
4171	MCM2	4998	ORC1L	L
4171	MCM2	4999	ORC2L	L
4171	MCM2	5000	ORC4L	L
4171	MCM2	5001	ORC5L	L
4171	MCM2	6117	RPA1	L
4171	MCM2	6118	RPA2	L

4171	MCM2	6119	RPA3	L
4171	MCM2	6191	RPS4X	S
4171	MCM2	6908	TBP	L
4171	MCM2	8290	HIST3H3	L
4171	MCM2	8317	CDC7	L
4171	MCM2	9133	CCNB2	L
4171	MCM2	10270	AKAP8	L
4171	MCM2	10681	GNB5	S
4171	MCM2	10926	ASK	L
4171	MCM2	11143	MYST2	L
4171	MCM2	23594	ORC6L	L
4171	MCM2	25843	PREI3	S
4171	MCM2	29894	CPSF1	L
4171	MCM2	55388	MCM10	L
4172	MCM3	4174	MCM5	L
4172	MCM3	4175	MCM6	L
4172	MCM3	4176	MCM7	L
4172	MCM3	5000	ORC4L	L
4172	MCM3	5001	ORC5L	L
4172	MCM3	6772	STAT1	L
4172	MCM3	8317	CDC7	L
4172	MCM3	8318	CDC45L	L
4172	MCM3	8888	MCM3AP	L
4172	MCM3	10926	ASK	L
4172	MCM3	55388	MCM10	L
4172	MCM3	115106	CCDC5	L
4173	MCM4	4175	MCM6	L
4173	MCM4	4176	MCM7	L
4173	MCM4	8317	CDC7	L
4173	MCM4	8900	CCNA1	L
4173	MCM4	23594	ORC6L	L
4173	MCM4	55388	MCM10	L
4173	MCM4	115106	CCDC5	L
4174	MCM5	4176	MCM7	L
4174	MCM5	4188	MDFI	R
4174	MCM5	4998	ORC1L	L
4174	MCM5	5001	ORC5L	L
4174	MCM5	6772	STAT1	L
4174	MCM5	8317	CDC7	L
4174	MCM5	23595	ORC3L	L
4175	MCM6	4300	MLLT3	R
4175	MCM6	5682	PSMA1	R
4175	MCM6	8900	CCNA1	L
4175	MCM6	23594	ORC6L	L
4175	MCM6	26525	IL1F5	R
4175	MCM6	51053	GMNN	L
4175	MCM6	55388	MCM10	RL
4175	MCM6	79005	SCNM1	R
4175	MCM6	81620	CDT1	L
4175	MCM6	84289	ING5	R
4175	MCM6	151254	ALS2CR11	R
4176	MCM7	4331	MNAT1	L
4176	MCM7	4998	ORC1L	L
4176	MCM7	4999	ORC2L	L
4176	MCM7	5000	ORC4L	L
4176	MCM7	5001	ORC5L	L
4176	MCM7	5925	RB1	L
4176	MCM7	5933	RBL1	L
4176	MCM7	5934	RBL2	L
4176	MCM7	6117	RPA1	L
4176	MCM7	7337	UBE3A	L
4176	MCM7	8290	HIST3H3	L
4176	MCM7	8317	CDC7	L
4176	MCM7	8318	CDC45L	L
4176	MCM7	9939	RBM8A	R
4176	MCM7	10926	ASK	L
4176	MCM7	11277	TREX1	L

4176	MCM7	23594	ORC6L	L
4176	MCM7	23595	ORC3L	L
4176	MCM7	51562	MBIP	R
4176	MCM7	55388	MCM10	L
4179	MCP	4478	MSN	L
4179	MCP	6714	SRC	L
4179	MCP	7106	TSPAN4	L
4179	MCP	7525	YES1	L
4184	SMCP	5359	PLSCR1	R
4184	SMCP	83755	KRTAP4-12	R
4185	ADAM11	8614	STC2	S
4188	MDFI	4656	MYOG	L
4188	MDFI	5013	OTX1	R
4188	MDFI	5300	PIN1	R
4188	MDFI	5819	PVRL2	R
4188	MDFI	5990	RFX2	R
4188	MDFI	6495	SIX1	R
4188	MDFI	6548	SLC9A1	R
4188	MDFI	6687	SPG7	R
4188	MDFI	6890	TAP1	R
4188	MDFI	6944	VPS72	R
4188	MDFI	7355	SLC35A2	R
4188	MDFI	7376	NR1H2	R
4188	MDFI	7597	ZBTB25	R
4188	MDFI	7695	ZNF136	R
4188	MDFI	7755	ZNF205	R
4188	MDFI	8227	DXYS155E	R
4188	MDFI	8326	FZD9	R
4188	MDFI	9139	CBFA2T2	R
4188	MDFI	9140	ATG12	R
4188	MDFI	9721	KIAA0514	R
4188	MDFI	9726	ZNF646	R
4188	MDFI	9729	KIAA0408	R
4188	MDFI	9814	SFI1	R
4188	MDFI	9841	ZBTB24	R
4188	MDFI	9907	KIAA0415	R
4188	MDFI	10148	EBI3	R
4188	MDFI	10169	SERF2	R
4188	MDFI	10758	TRAF3IP2	R
4188	MDFI	10922	FASTK	R
4188	MDFI	22822	PHLDA1	R
4188	MDFI	22893	BAHD1	R
4188	MDFI	22943	DKK1	R
4188	MDFI	23549	DNPEP	R
4188	MDFI	25796	PGLS	R
4188	MDFI	26505	CNNM3	R
4188	MDFI	26511	CHIC2	R
4188	MDFI	50717	WDR42A	R
4188	MDFI	51298	THEG	R
4188	MDFI	51545	ZNF581	R
4188	MDFI	54461	FBXW5	R
4188	MDFI	54973	CPSF3L	R
4188	MDFI	55049	FLJ20850	R
4188	MDFI	55093	C8orf32	R
4188	MDFI	55308	DDX19A	R
4188	MDFI	55367	LRDD	R
4188	MDFI	55503	TRPV6	R
4188	MDFI	55684	C9orf86	R
4188	MDFI	55885	LMO3	R
4188	MDFI	56654	NPDC1	R
4188	MDFI	60496	AASDHPPT	R
4188	MDFI	64129	TINAGL1	R
4188	MDFI	64745	FLJ20859	R
4188	MDFI	79088	ZNF426	R
4188	MDFI	79797	ZNF408	R
4188	MDFI	79843	FLJ22746	R
4188	MDFI	79870	BAALC	R

4188	MDFI	80764	THAP7	R
4188	MDFI	84080	C16orf48	R
4188	MDFI	84527	ZNF559	R
4188	MDFI	84733	CBX2	R
4188	MDFI	84775	ZNF607	R
4188	MDFI	85019	C18orf45	R
4188	MDFI	90060	JM11	R
4188	MDFI	90594	ZNF439	R
4188	MDFI	92595	MGC13138	R
4188	MDFI	94039	ZNF101	R
4188	MDFI	113655	MFSD3	R
4188	MDFI	115817	DHRS1	R
4188	MDFI	117144	CATSPER1	R
4188	MDFI	126070	ZNF440	R
4188	MDFI	147687	ZNF417	R
4188	MDFI	154313	C6orf165	R
4188	MDFI	154865	FLJ35834	R
4188	MDFI	157773	C8orf48	R
4188	MDFI	164127	C1orf65	R
4188	MDFI	164312	C20orf75	R
4188	MDFI	164592	FLJ36046	R
4188	MDFI	168417	ZNF679	R
4188	MDFI	196477	C12orf12	R
4188	MDFI	286075	ZNF707	R
4188	MDFI	286301	MGC42630	R
4188	MDFI	389741	MGC21881	R
4188	MDFI	414157	C10orf62	R
4188	MDFI	494514	C18orf56	R
4189	DNAJB9	4637	MYL6	S
4189	DNAJB9	5347	PLK1	S
4189	DNAJB9	6624	FSCN1	S
4189	DNAJB9	6919	TCEA2	S
4189	DNAJB9	8655	DNCL1	S
4189	DNAJB9	10915	TCERG1	L
4189	DNAJB9	23539	SLC16A8	S
4189	DNAJB9	55312	RFK	S
4190	MDH1	4356	MPP3	S
4191	MDH2	4719	NDUFS1	L
4191	MDH2	5091	PC	L
4191	MDH2	7453	WARS	S
4192	MDK	4691	NCL	L
4192	MDK	5787	PTPRB	L
4192	MDK	5803	PTPRZ1	L
4192	MDK	6142	RPL18A	S
4192	MDK	6382	SDC1	L
4192	MDK	6385	SDC4	L
4192	MDK	6772	STAT1	L
4192	MDK	7051	TGM1	L
4192	MDK	9672	SDC3	L
4193	MDM2	4194	MDM4	L
4193	MDM2	5371	PML	L
4193	MDM2	5426	POLE	L
4193	MDM2	5925	RB1	L
4193	MDM2	6135	RPL11	L
4193	MDM2	6872	TAF1	L
4193	MDM2	7157	TP53	L
4193	MDM2	7161	TP73	L
4193	MDM2	7251	TSG101	L
4193	MDM2	7341	SUMO1	L
4193	MDM2	8650	NUMB	L
4193	MDM2	8850	PCAF	L
4193	MDM2	10524	HTATIP	L
4193	MDM2	23741	CRI1	L
4193	MDM2	64219	PJA1	L
4194	MDM4	5925	RB1	L
4194	MDM4	7157	TP53	L
4194	MDM4	7321	UBE2D1	L

4200	ME2	8655	DNCL1	L
4204	MECP2	6497	SKI	L
4204	MECP2	9611	NCOR1	L
4204	MECP2	55660	FNBP3	L
4205	MEF2A	4209	MEF2D	L
4205	MEF2A	4654	MYOD1	L
4205	MEF2A	4656	MYOG	L
4205	MEF2A	5598	MAPK7	L
4205	MEF2A	7003	TEAD1	L
4205	MEF2A	7067	THRA	L
4205	MEF2A	9734	HDAC9	L
4205	MEF2A	9759	HDAC4	L
4205	MEF2A	10014	HDAC5	L
4207	MEF2B	23523	CABIN1	L
4207	MEF2B	56159	TEX11	R
4208	MEF2C	4209	MEF2D	L
4208	MEF2C	5598	MAPK7	L
4208	MEF2C	6667	SP1	L
4208	MEF2C	9686	VGLL4	L
4208	MEF2C	9759	HDAC4	L
4208	MEF2C	54345	SOX18	L
4208	MEF2C	117581	TWIST2	L
4209	MEF2D	4773	NFATC2	L
4209	MEF2D	5598	MAPK7	L
4209	MEF2D	6667	SP1	L
4209	MEF2D	9759	HDAC4	L
4210	MEFV	29108	PYCARD	L
4211	MEIS1	5089	PBX2	L
4211	MEIS1	10481	HOXB13	L
4215	MAP3K3	5607	MAP2K5	L
4215	MAP3K3	7531	YWHAE	L
4215	MAP3K3	7534	YWHAZ	L
4215	MAP3K3	7704	ZBTB16	S
4215	MAP3K3	8737	RIPK1	L
4215	MAP3K3	9043	SPAG9	L
4216	MAP3K4	4616	GADD45B	L
4216	MAP3K4	5603	MAPK13	L
4216	MAP3K4	5604	MAP2K1	L
4216	MAP3K4	5606	MAP2K3	L
4216	MAP3K4	5608	MAP2K6	L
4216	MAP3K4	6416	MAP2K4	L
4216	MAP3K4	10912	GADD45G	L
4216	MAP3K4	29127	RACGAP1	L
4217	MAP3K5	5536	PPP5C	L
4217	MAP3K5	5610	EIF2AK2	L
4217	MAP3K5	5859	QARS	L
4217	MAP3K5	5894	RAF1	L
4217	MAP3K5	6885	MAP3K7	L
4217	MAP3K5	7186	TRAF2	L
4217	MAP3K5	7188	TRAF5	L
4217	MAP3K5	7189	TRAF6	L
4217	MAP3K5	7295	TXN	L
4217	MAP3K5	7534	YWHAZ	L
4217	MAP3K5	9064	MAP3K6	L
4217	MAP3K5	10016	PDCD6	L
4217	MAP3K5	153090	DAB2IP	L
4218	RAB8A	5871	MAP4K2	L
4218	RAB8A	7917	BAT3	S
4218	RAB8A	9501	RPH3AL	L
4218	RAB8A	9699	RIMS2	L
4218	RAB8A	10084	PQBP1	S
4218	RAB8A	10133	OPTN	L
4218	RAB8A	94121	SYTL4	L
4218	RAB8A	117177	RAB3IP	L
4221	MEN1	4790	NFKB1	L
4221	MEN1	4791	NFKB2	L
4221	MEN1	5970	RELA	L

4221	MEN1	6118	RPA2	L
4221	MEN1	7431	VIM	L
4222	MEOX1	5075	PAX1	L
4223	MEOX2	5075	PAX1	L
4223	MEOX2	5077	PAX3	L
4223	MEOX2	7288	TULP2	R
4223	MEOX2	7432	VIP	R
4223	MEOX2	8153	RND2	R
4223	MEOX2	25813	SAMM50	R
4223	MEOX2	83755	KRTAP4-12	R
4224	MEP1A	4225	MEP1B	L
4224	MEP1A	5741	PTH	L
4224	MEP1A	284217	LAMA1	L
4225	MEP1B	5697	PYY	L
4233	MET	5781	PTPN11	L
4233	MET	6464	SHC1	L
4233	MET	6714	SRC	L
4233	MET	6774	STAT3	L
4233	MET	9146	HGS	L
4233	MET	10048	RANBP9	L
4233	MET	11146	GLMN	L
4233	MET	30011	SH3KBP1	L
4234	METTL1	10785	WDR4	R
4239	MFAP4	6441	SFTPD	L
4242	MFNG	4851	NOTCH1	L
4242	MFNG	4853	NOTCH2	L
4254	KITLG	5293	PIK3CD	L
4254	KITLG	6320	CLEC11A	L
4254	KITLG	9820	CUL7	L
4255	MGMT	5566	PRKACA	L
4255	MGMT	7317	UBE1	L
4258	MGST2	307255	(null)	S
4261	CIITA	4801	NFYB	L
4261	CIITA	5993	RFX5	L
4261	CIITA	7514	XPO1	L
4261	CIITA	8625	RFXANK	L
4261	CIITA	8648	NCOA1	L
4267	CD99	29979	UBQLN1	R
4276	MICA	22914	KLRK1	L
4281	MID1	11043	MID2	L
4282	MIF	7414	VCL	L
4282	MIF	10987	COPS5	L
4282	MIF	26003	GORASP2	R
4282	MIF	29888	STRN4	S
4282	MIF	79797	ZNF408	L
4282	MIF	149428	BNIPL	L
4286	MITF	5080	PAX6	L
4286	MITF	6688	SPI1	L
4286	MITF	7030	TFE3	L
4286	MITF	7329	UBE2I	L
4286	MITF	7341	SUMO1	L
4286	MITF	7942	TFEB	L
4286	MITF	10401	PIAS3	L
4286	MITF	22797	TFEC	L
4286	MITF	23598	ZNF278	L
4286	MITF	51176	LEF1	L
4287	ATXN3	5886	RAD23A	L
4287	ATXN3	5887	RAD23B	L
4287	ATXN3	7415	VCP	L
4288	MKI67	5579	PRKCB1	L
4288	MKI67	11335	CBX3	L
4288	MKI67	23468	CBX5	L
4288	MKI67	56992	KIF15	L
4291	MLF1	7534	YWHAZ	L
4291	MLF1	29959	NRBP	L
4292	MLH1	4438	MSH4	L
4292	MLH1	4609	MYC	L

4292	MLH1	5378	PMS1	L
4292	MLH1	5395	PMS2	L
4292	MLH1	8930	MBD4	L
4292	MLH1	9156	EXO1	L
4292	MLH1	9877	ZC3H11A	R
4292	MLH1	22888	UBOX5	R
4292	MLH1	23650	TRIM29	R
4292	MLH1	27030	MLH3	L
4292	MLH1	122786	FRMD6	R
4294	MAP3K10	5245	PHB	L
4294	MAP3K10	6416	MAP2K4	L
4294	MAP3K10	7280	TUBB2	L
4294	MAP3K10	7531	YWHAE	L
4294	MAP3K10	9371	KIF3B	L
4294	MAP3K10	10059	DNM1L	L
4294	MAP3K10	11127	KIF3A	L
4294	MAP3K10	22920	KIFAP3	L
4294	MAP3K10	29127	RACGAP1	L
4296	MAP3K11	5604	MAP2K1	L
4296	MAP3K11	5609	MAP2K7	L
4296	MAP3K11	5879	RAC1	L
4296	MAP3K11	7786	MAP3K12	L
4296	MAP3K11	11127	KIF3A	L
4296	MAP3K11	11184	MAP4K1	L
4296	MAP3K11	23542	MAPK8IP2	L
4297	MLL	5364	PLXNB1	L
4297	MLL	6418	SET	L
4297	MLL	10450	PPIE	L
4297	MLL	23645	PPP1R15A	L
4300	MLLT3	5764	PTN	S
4300	MLLT3	10513	APPBP2	R
4300	MLLT3	54880	BCOR	L
4300	MLLT3	55791	C1orf103	S
4300	MLLT3	84060	DKFZP564O0523	S
4301	MLLT4	5216	PFN1	L
4301	MLLT4	5818	PVRL1	L
4301	MLLT4	5819	PVRL2	L
4301	MLLT4	5906	RAP1A	L
4301	MLLT4	5909	RAP1GA1	L
4301	MLLT4	5911	RAP2A	L
4301	MLLT4	6016	RIT1	L
4301	MLLT4	6237	RRAS	L
4301	MLLT4	7082	TJP1	L
4301	MLLT4	8239	USP9X	L
4301	MLLT4	9369	NRXN3	L
4301	MLLT4	10580	SORBS1	L
4301	MLLT4	22800	RRAS2	L
4301	MLLT4	22808	MRAS	L
4301	MLLT4	25945	PVRL3	L
4301	MLLT4	117178	SSX2IP	L
4302	MLLT6	51586	PCQAP	R
4303	MLLT7	7514	XPO1	L
4306	NR3C2	8805	TRIM24	L
4306	NR3C2	10728	PTGES3	L
4311	MME	5291	PIK3CB	L
4311	MME	5295	PIK3R1	L
4311	MME	6464	SHC1	L
4312	MMP1	4316	MMP7	L
4312	MMP1	7076	TIMP1	L
4312	MMP1	63827	BCAN	L
4313	MMP2	4326	MMP17	L
4313	MMP2	6354	CCL7	L
4313	MMP2	6387	CXCL12	L
4313	MMP2	7040	TGFB1	L
4313	MMP2	7057	THBS1	L
4313	MMP2	7058	THBS2	L
4313	MMP2	7077	TIMP2	L

4313	MMP2	7078	TIMP3	L
4313	MMP2	7079	TIMP4	L
4313	MMP2	9076	CLDN1	L
4313	MMP2	23621	BACE1	L
4313	MMP2	63827	BCAN	L
4313	MMP2	80781	COL18A1	L
4314	MMP3	7076	TIMP1	L
4314	MMP3	7078	TIMP3	L
4314	MMP3	63827	BCAN	L
4316	MMP7	4318	MMP9	L
4316	MMP7	4803	NGFB	L
4316	MMP7	63827	BCAN	L
4317	MMP8	7077	TIMP2	L
4317	MMP8	63827	BCAN	L
4318	MMP9	5858	PZP	L
4318	MMP9	6374	CXCL5	L
4318	MMP9	7057	THBS1	L
4318	MMP9	7058	THBS2	L
4318	MMP9	7078	TIMP3	L
4318	MMP9	8434	RECK	L
4319	MMP10	63827	BCAN	L
4320	MMP11	55660	FNBP3	L
4322	MMP13	7078	TIMP3	L
4322	MMP13	11096	ADAMTS5	L
4322	MMP13	63827	BCAN	L
4323	MMP14	7077	TIMP2	L
4323	MMP14	7078	TIMP3	L
4323	MMP14	9076	CLDN1	L
4331	MNAT1	5451	POU2F1	L
4331	MNAT1	5452	POU2F2	L
4331	MNAT1	5460	POU5F1	L
4331	MNAT1	5925	RB1	L
4331	MNAT1	7157	TP53	L
4331	MNAT1	9112	MTA1	L
4331	MNAT1	10980	COPS6	S
4331	MNAT1	55791	C1orf103	S
4331	MNAT1	79803	HPS6	S
4331	MNAT1	84060	DKFZP564O0523	S
4331	MNAT1	404672	GTF2H5	L
4335	MNT	25942	SIN3A	L
4338	MOCS2	6133	RPL9	S
4338	MOCS2	27304	MOCS3	L
4338	MOCS2	55324	ABCF3	S
4342	MOS	4654	MYOD1	L
4345	CD200	131450	CD200R1	L
4350	MPG	5886	RAD23A	L
4350	MPG	5887	RAD23B	L
4352	MPL	7066	THPO	L
4352	MPL	11273	ATXN2L	L
4354	MPP1	9905	RUTBC1	S
4354	MPP1	10273	STUB1	S
4354	MPP1	51421	AMOTL2	R
4356	MPP3	6187	RPS2	S
4356	MPP3	6326	SCN2A2	S
4356	MPP3	9001	HAP1	S
4356	MPP3	10769	PLK2	S
4356	MPP3	11031	RAB31	S
4356	MPP3	23450	SF3B3	S
4356	MPP3	23705	IGSF4	L
4356	MPP3	55709	KBTD4	S
4356	MPP3	84273	C4orf14	S
4356	MPP3	90933	TRIM41	S
4356	MPP3	284208	B3GNTL1	S
4356	MPP3	339230	MGC16597	S
4356	MPP3	339231	LOC339231	S
4356	MPP3	378464	MOPT	S
4359	MPZ	5376	PMP22	L

4359	MPZ	54984	PINX1	S
4360	MRC1	11200	CHEK2	L
4361	MRE11A	4750	NEK1	L
4435	CITED1	7022	TFAP2C	L
4436	MSH2	4437	MSH3	L
4436	MSH2	5111	PCNA	L
4436	MSH2	8243	SMC1L1	L
4436	MSH2	9156	EXO1	L
4436	MSH2	11200	CHEK2	L
4436	MSH2	11277	TREX1	L
4437	MSH3	5111	PCNA	L
4437	MSH3	9156	EXO1	L
4438	MSH4	4439	MSH5	L
4438	MSH4	6117	RPA1	L
4438	MSH4	7411	VBP1	L
4438	MSH4	27030	MLH3	L
4440	MSI1	9240	PNMA1	S
4477	MSMB	284169	(null)	S
4478	MSN	4689	NCF4	L
4478	MSN	5339	PLEC1	L
4478	MSN	6693	SPN	L
4478	MSN	6850	SYK	L
4478	MSN	7248	TSC1	L
4478	MSN	7412	VCAM1	L
4478	MSN	7430	VIL2	L
4478	MSN	9368	SLC9A3R1	L
4485	MST1	4486	MST1R	L
4486	MST1R	5295	PIK3R1	L
4486	MST1R	5335	PLCG1	L
4486	MST1R	6464	SHC1	L
4486	MST1R	6714	SRC	L
4486	MST1R	8692	HYAL2	L
4487	MSX1	4488	MSX2	L
4487	MSX1	5077	PAX3	L
4487	MSX1	6000	RGS7	L
4487	MSX1	6667	SP1	L
4487	MSX1	6872	TAF1	L
4487	MSX1	6908	TBP	L
4487	MSX1	9355	LHX2	L
4488	MSX2	7709	ZBTB17	L
4488	MSX2	9063	PIAS2	L
4488	MSX2	9500	MAGED1	L
4488	MSX2	23013	SPEN	L
4502	MT2A	5587	PRKD1	L
4507	MTAP	29116	MYLIP	L
4520	MTF1	8907	AP1M1	R
4524	MTHFR	51691	LSM8	L
4543	MTNR1A	10672	GNA13	L
4548	MTR	8655	DNCL1	L
4582	MUC1	5580	PRKCD	L
4582	MUC1	6654	SOS1	L
4582	MUC1	6714	SRC	L
4582	MUC1	55644	OSGEP	L
4589	MUC7	6402	SELL	L
4591	TRIM37	7185	TRAF1	L
4591	TRIM37	7186	TRAF2	L
4591	TRIM37	7187	TRAF3	L
4591	TRIM37	7188	TRAF5	L
4591	TRIM37	7189	TRAF6	L
4591	TRIM37	9055	PRC1	R
4591	TRIM37	9513	FXR2	R
4591	TRIM37	9618	TRAF4	L
4591	TRIM37	9729	KIAA0408	R
4591	TRIM37	9787	DLG7	R
4591	TRIM37	10445	MCRS1	R
4591	TRIM37	11170	TU3A	R
4591	TRIM37	11284	PNKP	R

4591	TRIM37	26150	RIBC2	R
4591	TRIM37	27301	APEX2	R
4591	TRIM37	51224	TCEB3B	R
4591	TRIM37	55388	MCM10	R
4591	TRIM37	55872	PBK	R
4591	TRIM37	79027	ZNF655	R
4591	TRIM37	79843	FLJ22746	R
4591	TRIM37	79873	NUDT18	R
4591	TRIM37	114822	RHPN1	R
4591	TRIM37	147687	ZNF417	R
4591	TRIM37	286514	MAGEB18	R
4593	MUSK	5913	RAPSN	L
4593	MUSK	23345	SYNE1	L
4595	MUTYH	5111	PCNA	L
4595	MUTYH	6117	RPA1	L
4595	MUTYH	90678	LRSAM1	S
4597	MVD	9044	BTAF1	L
4597	MVD	10681	GNB5	S
4599	MX1	7280	TUBB2	L
4601	MXI1	9126	CSPG6	L
4602	MYB	5079	PAX5	L
4602	MYB	5371	PML	L
4602	MYB	7329	UBE2I	L
4602	MYB	8458	TTF2	L
4602	MYB	10514	MYBBP1A	L
4602	MYB	27044	SND1	L
4605	MYBL2	5933	RBL1	L
4605	MYBL2	6502	SKP2	L
4605	MYBL2	7314	UBB	L
4605	MYBL2	8900	CCNA1	L
4605	MYBL2	9612	NCOR2	L
4605	MYBL2	27044	SND1	L
4605	MYBL2	90441	ZNF622	L
4606	MYBPC2	4608	MYBPH	L
4607	MYBPC3	7273	TTN	L
4609	MYC	4801	NFYB	L
4609	MYC	4802	NFYC	L
4609	MYC	5598	MAPK7	L
4609	MYC	5599	MAPK8	L
4609	MYC	5604	MAP2K1	L
4609	MYC	5891	RAGE	L
4609	MYC	5894	RAF1	L
4609	MYC	5925	RB1	L
4609	MYC	5933	RBL1	L
4609	MYC	5970	RELA	L
4609	MYC	6598	SMARCB1	L
4609	MYC	6667	SP1	L
4609	MYC	7021	TFAP2B	L
4609	MYC	7074	TIAM1	L
4609	MYC	7161	TP73	L
4609	MYC	7277	TUBA1	L
4609	MYC	7278	TUBA2	L
4609	MYC	7528	YY1	L
4609	MYC	7709	ZBTB17	L
4609	MYC	7846	TUBA3	L
4609	MYC	8295	TRRAP	L
4609	MYC	8464	SUPT3H	L
4609	MYC	9043	SPAG9	L
4609	MYC	9111	NMI	L
4609	MYC	10376	K-ALPHA-1	L
4609	MYC	10524	HTATIP	L
4609	MYC	23077	MYCBP2	L
4609	MYC	26292	MYCBP	L
4609	MYC	51807	TUBA8	L
4613	MYCN	9111	NMI	L
4613	MYCN	10138	YAF2	L
4615	MYD88	7098	TLR3	L

4615	MYD88	7099	TLR4	L
4615	MYD88	8405	SPOP	R
4615	MYD88	8772	FADD	L
4615	MYD88	51135	IRAK4	L
4615	MYD88	114609	TIRAP	L
4616	GADD45B	5111	PCNA	L
4616	GADD45B	5465	PPARA	L
4616	GADD45B	5467	PPARD	L
4616	GADD45B	5468	PPARG	L
4616	GADD45B	90480	GADD45GIP1	L
4617	MYF5	6929	TCF3	L
4618	MYF6	8048	CSRP3	L
4620	MYH2	5581	PRKCE	L
4627	MYH9	5829	PXN	L
4627	MYH9	7414	VCL	L
4627	MYH9	10398	MYL9	S
4627	MYH9	84164	ASCC2	S
4628	MYH10	5087	PBX1	L
4628	MYH10	10134	BCAP31	L
4628	MYH10	57473	GM632	L
4629	MYH11	8550	MAPKAPK5	L
4633	MYL2	4653	MYOC	L
4633	MYL2	5062	PAK2	L
4633	MYL2	54776	PPP1R12C	L
4633	MYL2	90678	LRSAM1	S
4637	MYL6	5829	PXN	L
4637	MYL6	7414	VCL	L
4637	MYL6	11051	NUDT21	R
4637	MYL6	25843	PREI3	S
4638	MYLK	5058	PAK1	L
4638	MYLK	5578	PRKCA	L
4638	MYLK	5595	MAPK3	L
4638	MYLK	6714	SRC	L
4638	MYLK	25865	PRKD2	L
4644	MYO5A	5873	RAB27A	L
4644	MYO5A	8655	DNCL1	L
4644	MYO5A	10612	TRIM3	L
4644	MYO5A	79083	MLPH	L
4644	MYO5A	140465	MLC1SA	L
4645	MYO5B	8766	RAB11A	L
4645	MYO5B	9230	RAB11B	L
4645	MYO5B	22841	RAB11FIP2	L
4645	MYO5B	57111	RAB25	L
4646	MYO6	10755	GIPC1	L
4646	MYO6	26994	RNF11	L
4647	MYO7A	10083	USH1C	L
4647	MYO7A	55591	VEZATIN	L
4647	MYO7A	64072	CDH23	L
4649	MYO9A	81488	GRINL1A	S
4650	MYO9B	10489	LRRC41	S
4650	MYO9B	25843	PREI3	S
4651	MYO10	8399	PLA2G10	S
4651	MYO10	8655	DNCL1	L
4653	MYOC	118427	OLFM3	L
4654	MYOD1	5710	PSMD4	L
4654	MYOD1	5925	RB1	L
4654	MYOD1	6095	RORA	L
4654	MYOD1	6256	RXRA	L
4654	MYOD1	6667	SP1	L
4654	MYOD1	6722	SRF	L
4654	MYOD1	6774	STAT3	L
4654	MYOD1	6925	TCF4	L
4654	MYOD1	7026	NR2F2	L
4654	MYOD1	7291	TWIST1	L
4654	MYOD1	8048	CSRP3	L
4654	MYOD1	9421	HAND1	L
4654	MYOD1	9612	NCOR2	L

4654	MYOD1	10518	CIB2	L
4654	MYOD1	23462	HEY1	L
4656	MYOG	6667	SP1	L
4656	MYOG	6722	SRF	L
4656	MYOG	8048	CSRP3	L
4659	PPP1R12A	5592	PRKG1	L
4659	PPP1R12A	6093	ROCK1	L
4660	PPP1R12B	5500	PPP1CB	L
4661	MYT1	5300	PIN1	L
4666	NACA	6908	TBP	L
4666	NACA	8772	FADD	L
4666	NACA	11244	ZHX1	S
4666	NACA	55791	C1orf103	S
4666	NACA	60492	MDS025	S
4666	NACA	65991	FUNDC2	S
4666	NACA	84966	IGSF21	S
4666	NACA	150572	SMYD1	L
4670	HNRPM	5829	PXN	L
4670	HNRPM	7916	BAT2	L
4670	HNRPM	10915	TCERG1	L
4670	HNRPM	55885	LMO3	R
4670	HNRPM	83759	RBM30	R
4673	NAP1L1	8850	PCAF	L
4673	NAP1L1	79187	FSD1	S
4674	NAP1L2	8850	PCAF	L
4677	NARS	5829	PXN	L
4677	NARS	27257	LSM1	L
4678	NASP	8355	HIST1H3G	R
4678	NASP	8357	HIST1H3H	R
4678	NASP	9706	ULK2	S
4678	NASP	51631	LUC7L2	S
4678	NASP	126961	HIST2H3C	R
4681	NBL1	7917	BAT3	L
4681	NBL1	29979	UBQLN1	L
4682	NUBP1	4692	NDN	L
4683	NBN	7013	TERF1	L
4683	NBN	7014	TERF2	L
4684	NCAM1	6710	SPTB	L
4684	NCAM1	8128	ST8SIA2	L
4686	NCBP1	9810	RNF40	R
4686	NCBP1	22916	NCBP2	L
4687	NCF1	4688	NCF2	L
4687	NCF1	4790	NFKB1	L
4687	NCF1	5058	PAK1	L
4687	NCF1	9618	TRAF4	L
4687	NCF1	10657	KHDRBS1	L
4687	NCF1	114088	TRIM9	R
4688	NCF2	4689	NCF4	L
4688	NCF2	5879	RAC1	L
4688	NCF2	5880	RAC2	L
4689	NCF4	7295	TXN	L
4690	NCK1	4915	NTRK2	L
4690	NCK1	5058	PAK1	L
4690	NCK1	5062	PAK2	L
4690	NCK1	5159	PDGFRB	L
4690	NCK1	5586	PKN2	L
4690	NCK1	5829	PXN	L
4690	NCK1	5879	RAC1	L
4690	NCK1	5921	RASA1	L
4690	NCK1	6237	RRAS	L
4690	NCK1	6654	SOS1	L
4690	NCK1	7454	WAS	L
4690	NCK1	7456	WASPIP	L
4690	NCK1	8651	SOCS1	L
4690	NCK1	8892	EIF2B2	L
4690	NCK1	8894	EIF2S2	L
4690	NCK1	8976	WASL	L

4690	NCK1	9046	DOK2	L
4690	NCK1	9448	MAP4K4	L
4690	NCK1	9564	BCAR1	L
4690	NCK1	10006	ABI1	L
4690	NCK1	10188	TNK2	L
4690	NCK1	10657	KHDRBS1	L
4690	NCK1	10787	NCKAP1	L
4690	NCK1	29110	TBK1	L
4690	NCK1	29760	BLNK	L
4690	NCK1	50488	MINK1	L
4691	NCL	4869	NPM1	L
4691	NCL	5590	PRKCZ	L
4691	NCL	6282	S100A11	L
4691	NCL	7015	TERT	L
4691	NCL	7150	TOP1	L
4691	NCL	7157	TP53	L
4691	NCL	10891	PPARGC1A	L
4691	NCL	11033	CENTA1	L
4691	NCL	23075	SWAP70	L
4692	NDN	4804	NGFR	L
4692	NDN	4924	NUCB1	L
4692	NDN	4925	NUCB2	L
4692	NDN	7157	TP53	L
4692	NDN	64219	PJA1	L
4698	NDUFA5	4707	NDUFB1	R
4698	NDUFA5	9802	DAZAP2	R
4698	NDUFA5	11007	DIPA	R
4700	NDUFA6	7917	BAT3	S
4700	NDUFA6	9519	TBPL1	S
4700	NDUFA6	9551	ATP5J2	S
4701	NDUFA7	5564	PRKAB1	S
4701	NDUFA7	57519	STARD9	S
4701	NDUFA7	60528	ELAC2	S
4703	NEB	7111	TMOD1	L
4703	NEB	7273	TTN	L
4703	NEB	84665	MYPN	L
4714	NDUFB8	5217	PFN2	S
4714	NDUFB8	8891	EIF2B3	S
4714	NDUFB8	11040	PIM2	S
4715	NDUFB9	6457	SH3GL3	S
4715	NDUFB9	8518	IKBKAP	S
4715	NDUFB9	9001	HAP1	S
4715	NDUFB9	9638	FEZ1	S
4715	NDUFB9	10989	IMMT	S
4729	NDUFV2	10524	HTATIP	S
4731	NDUFV3	9796	PHYHIP	S
4733	DRG1	51389	RWDD1	R
4734	NEDD4	4778	NFE2	L
4734	NEDD4	6142	RPL18A	S
4734	NEDD4	6337	SCNN1A	L
4734	NEDD4	6338	SCNN1B	L
4734	NEDD4	6340	SCNN1G	L
4734	NEDD4	6446	SGK	L
4734	NEDD4	7322	UBE2D2	L
4734	NEDD4	7323	UBE2D3	L
4734	NEDD4	7324	UBE2E1	L
4734	NEDD4	7332	UBE2L3	L
4734	NEDD4	7805	LAPTM5	L
4734	NEDD4	9146	HGS	L
4734	NEDD4	9802	DAZAP2	L
4734	NEDD4	23138	N4BP3	L
4734	NEDD4	26994	RNF11	L
4734	NEDD4	30011	SH3KBP1	L
4734	NEDD4	55728	N4BP2	L
4734	NEDD4	56937	TMEPAI	L
4735	SEPT2	5413	SEPT5	L
4735	SEPT2	6804	STX1A	L

4735	SEPT2	9802	DAZAP2	R
4735	SEPT2	10801	SEPT9	L
4735	SEPT2	23157	SEPT6	R
4738	NEDD8	5710	PSMD4	L
4738	NEDD8	7345	UCHL1	S
4738	NEDD8	7347	UCHL3	L
4738	NEDD8	8452	CUL3	L
4738	NEDD8	9039	UBE1C	L
4738	NEDD8	9040	UBE2M	L
4738	NEDD8	10054	UBA2	L
4738	NEDD8	51667	NYREN18	L
4739	NEDD9	51343	FZR1	L
4739	NEDD9	83737	ITCH	L
4741	NEF3	4744	NEFH	L
4741	NEF3	6812	STXBP1	L
4744	NEFH	4747	NEFL	L
4744	NEFH	5585	PKN1	L
4744	NEFH	6812	STXBP1	L
4747	NEFL	5585	PKN1	L
4747	NEFL	6709	SPTAN1	L
4747	NEFL	7248	TSC1	L
4747	NEFL	55755	CDK5RAP2	S
4750	NEK1	7158	TP53BP1	L
4750	NEK1	7249	TSC2	L
4750	NEK1	8727	CTNNAL1	L
4750	NEK1	54512	EXOSC4	L
4750	NEK1	59348	ZNF350	L
4751	NEK2	5504	PPP1R2	L
4751	NEK2	5594	MAPK1	L
4751	NEK2	10403	KNTC2	L
4751	NEK2	11190	CEP2	L
4756	NEO1	9423	NTN1	L
4758	NEU1	5476	PPGB	L
4760	NEUROD1	5307	PITX1	L
4760	NEUROD1	6239	RREB1	L
4760	NEUROD1	9001	HAP1	L
4761	NEUROD2	5585	PKN1	L
4763	NF1	7266	DNAJC7	L
4771	NF2	5829	PXN	L
4771	NF2	6386	SDCBP	L
4771	NF2	6711	SPTBN1	L
4771	NF2	6895	TARBP2	L
4771	NF2	7248	TSC1	L
4771	NF2	7430	VIL2	L
4771	NF2	7514	XPO1	L
4771	NF2	9146	HGS	L
4771	NF2	9368	SLC9A3R1	L
4772	NFATC1	5292	PIM1	L
4773	NFATC2	5300	PIN1	L
4773	NFATC2	5590	PRKCZ	L
4773	NFATC2	7431	VIM	S
4773	NFATC2	7534	YWHAZ	L
4773	NFATC2	10971	YWHAQ	L
4773	NFATC2	51003	MED31	S
4776	NFATC4	7534	YWHAZ	L
4776	NFATC4	10971	YWHAQ	L
4778	NFE2	4780	NFE2L2	L
4778	NFE2	7975	MAFK	L
4778	NFE2	9586	CREB5	L
4778	NFE2	9603	NFE2L3	L
4778	NFE2	9796	PHYHIP	S
4778	NFE2	10413	YAP1	L
4778	NFE2	58487	ZF	L
4778	NFE2	90993	CREB3L1	L
4779	NFE2L1	7975	MAFK	L
4779	NFE2L1	9586	CREB5	L
4779	NFE2L1	9935	MAFB	L

4779	NFE2L1	23764	MAFF	L
4779	NFE2L1	58487	ZF	L
4780	NFE2L2	5468	PPARG	L
4780	NFE2L2	7975	MAFK	L
4780	NFE2L2	9451	EIF2AK3	L
4780	NFE2L2	11243	PMF1	L
4780	NFE2L2	23764	MAFF	L
4781	NFIB	4782	NFIC	L
4781	NFIB	4784	NFIX	L
4782	NFIC	23174	ZCCHC14	R
4782	NFIC	55888	ZNF167	R
4782	NFIC	84076	TKTL2	R
4782	NFIC	84298	MGC14817	R
4782	NFIC	89882	NYD-SP25	R
4783	NFIL3	10488	CREB3	L
4783	NFIL3	10538	BATF	L
4783	NFIL3	55509	SNFT	L
4783	NFIL3	84699	CREB3L3	L
4783	NFIL3	90993	CREB3L1	L
4784	NFIX	5989	RFX1	L
4784	NFIX	6497	SKI	L
4784	NFIX	8544	PIR	L
4790	NFKB1	4792	NFKBIA	L
4790	NFKB1	4794	NFKBIE	L
4790	NFKB1	4798	NFRKB	L
4790	NFKB1	4851	NOTCH1	L
4790	NFKB1	5531	PPP4C	L
4790	NFKB1	5591	PRKDC	L
4790	NFKB1	6256	RXRA	L
4790	NFKB1	6688	SPI1	L
4790	NFKB1	6774	STAT3	L
4790	NFKB1	6778	STAT6	L
4790	NFKB1	7295	TXN	L
4790	NFKB1	8091	HMGA2	L
4790	NFKB1	8600	TNFSF11	L
4790	NFKB1	8648	NCOA1	L
4790	NFKB1	9325	TRIP4	L
4790	NFKB1	9612	NCOR2	L
4790	NFKB1	9908	G3BP2	L
4790	NFKB1	23421	ITGB3BP	L
4790	NFKB1	51773	HBXAP	L
4790	NFKB1	64332	NFKBIZ	L
4790	NFKB1	136319	MTPN	L
4790	NFKB1	222643	UNC5CL	L
4791	NFKB2	4794	NFKBIE	L
4791	NFKB2	5966	REL	L
4791	NFKB2	5970	RELA	L
4791	NFKB2	5971	RELB	L
4791	NFKB2	8945	BTRC	L
4791	NFKB2	9020	MAP3K14	L
4791	NFKB2	55922	NKRF	L
4792	NFKBIA	5295	PIK3R1	L
4792	NFKBIA	5783	PTPN13	L
4792	NFKBIA	6195	RPS6KA1	L
4792	NFKBIA	7157	TP53	L
4792	NFKBIA	7278	TUBA2	L
4792	NFKBIA	7415	VCP	L
4792	NFKBIA	8600	TNFSF11	L
4792	NFKBIA	8655	DNCL1	L
4792	NFKBIA	8945	BTRC	L
4792	NFKBIA	9883	POM121	R
4792	NFKBIA	9908	G3BP2	L
4792	NFKBIA	10376	K-ALPHA-1	L
4792	NFKBIA	10477	UBE2E3	L
4792	NFKBIA	23085	RAB6IP2	L
4792	NFKBIA	23291	FBXW11	L
4792	NFKBIA	219541	MED19	S

4792	NFKBIA	387082	SUMO4	L
4793	NFKBIB	5970	RELA	L
4793	NFKBIB	6256	RXRA	L
4793	NFKBIB	8945	BTRC	L
4794	NFKBIE	5966	REL	L
4800	NFYA	5451	POU2F1	L
4800	NFYA	6667	SP1	L
4800	NFYA	10513	APPBP2	R
4800	NFYA	11244	ZHX1	L
4800	NFYA	23051	ZHX3	L
4801	NFYB	4802	NFYC	L
4801	NFYB	4904	YBX1	L
4801	NFYB	6900	CNTN2	L
4801	NFYB	6908	TBP	L
4801	NFYB	7161	TP73	L
4801	NFYB	8531	CSDA	L
4801	NFYB	10153	CEBPZ	L
4801	NFYB	10589	DRAP1	R
4803	NGFB	4804	NGFR	L
4803	NGFB	4914	NTRK1	L
4803	NGFB	4919	ROR1	L
4803	NGFB	5340	PLG	L
4803	NGFB	6272	SORT1	L
4803	NGFB	22986	SORCS3	L
4804	NGFR	4909	NTF5	L
4804	NGFR	4914	NTRK1	L
4804	NGFR	4916	NTRK3	L
4804	NGFR	5567	PRKACB	L
4804	NGFR	6434	SFRS10	L
4804	NGFR	6464	SHC1	L
4804	NGFR	6624	FSCN1	L
4804	NGFR	7186	TRAF2	L
4804	NGFR	7189	TRAF6	L
4804	NGFR	7314	UBB	L
4804	NGFR	9500	MAGED1	L
4804	NGFR	9618	TRAF4	L
4807	NHLH1	8048	CSRP3	L
4807	NHLH1	8543	LMO4	L
4809	NHP2L1	5884	RAD17	L
4809	NHP2L1	8241	RBM10	S
4809	NHP2L1	23649	POLA2	S
4809	NHP2L1	55791	C1orf103	S
4811	NID1	5328	PLAU	L
4811	NID1	5549	PRELP	L
4811	NID1	5792	PTPRF	L
4811	NID1	6498	SKIL	L
4811	NID1	90070	LACRT	L
4817	NIT1	9372	ZFYVE9	L
4824	NKX3-1	6722	SRF	L
4824	NKX3-1	28996	HIPK2	L
4828	NMB	4829	NMBR	L
4830	NME1	4832	NME3	RL
4830	NME1	4833	NME4	R
4830	NME1	6095	RORA	L
4830	NME1	6096	RORB	L
4830	NME1	6236	RRAD	L
4830	NME1	6418	SET	L
4830	NME1	6790	STK6	L
4830	NME1	7013	TERF1	L
4830	NME1	7074	TIAM1	L
4830	NME1	9533	POLR1C	R
4830	NME1	26003	GORASP2	R
4830	NME1	55093	C8orf32	R
4831	NME2	4832	NME3	SL
4831	NME2	6095	RORA	L
4831	NME2	7013	TERF1	L
4831	NME2	7414	VCL	L

4831	NME2	7431	VIM	L
4831	NME2	11214	AKAP13	L
4832	NME3	6449	SGTA	R
4833	NME4	9319	TRIP13	R
4835	NQO2	26003	GORASP2	R
4839	NOL1	5795	PTPRJ	L
4839	NOL1	10445	MCRS1	L
4841	NONO	5111	PCNA	L
4841	NONO	5300	PIN1	R
4841	NONO	5430	POLR2A	L
4841	NONO	5829	PXN	L
4841	NONO	6421	SFPQ	L
4841	NONO	6688	SPI1	L
4841	NONO	7414	VCL	L
4841	NONO	8379	MAD1L1	R
4841	NONO	9513	FXR2	R
4841	NONO	30834	ZNRD1	R
4841	NONO	55269	PSPC1	S
4841	NONO	79666	PLEKHF2	R
4842	NOS1	5777	PTPN6	L
4842	NOS1	5798	PTPRN	L
4842	NOS1	6640	SNTA1	L
4842	NOS1	8655	DNCL1	L
4842	NOS1	51655	RASD1	L
4843	NOS2A	5879	RAC1	L
4843	NOS2A	9368	SLC9A3R1	L
4846	NOS3	6667	SP1	L
4846	NOS3	115677	NOSTRIN	L
4848	CNOT2	4849	CNOT3	R
4848	CNOT2	23019	CNOT1	L
4849	CNOT3	9337	CNOT8	L
4850	CNOT4	9337	CNOT8	L
4850	CNOT4	23019	CNOT1	L
4851	NOTCH1	4856	NOV	L
4851	NOTCH1	5294	PIK3CG	L
4851	NOTCH1	5663	PSEN1	L
4851	NOTCH1	5970	RELA	L
4851	NOTCH1	7528	YY1	L
4851	NOTCH1	8650	NUMB	L
4851	NOTCH1	8850	PCAF	L
4851	NOTCH1	9794	MAML1	L
4851	NOTCH1	51176	LEF1	L
4851	NOTCH1	54567	DLL4	L
4851	NOTCH1	55294	FBXW7	L
4851	NOTCH1	83737	ITCH	L
4852	NPY	4886	NPY1R	L
4852	NPY	4887	NPY2R	L
4852	NPY	4889	NPY5R	L
4852	NPY	5367	PMCH	L
4852	NPY	5540	PPYR1	L
4852	NPY	8620	NPFF	L
4852	NPY	51738	GHRL	L
4853	NOTCH2	9794	MAML1	L
4853	NOTCH2	28514	DLL1	L
4854	NOTCH3	8850	PCAF	L
4854	NOTCH3	9794	MAML1	L
4854	NOTCH3	22938	SNW1	L
4854	NOTCH3	28514	DLL1	L
4855	NOTCH4	54567	DLL4	L
4855	NOTCH4	55294	FBXW7	L
4857	NOVA1	6601	SMARCC2	S
4860	NP	7157	TP53	S
4860	NP	11244	ZHX1	S
4860	NP	55791	C1orf103	S
4860	NP	60492	MDS025	S
4860	NP	83988	NCALD	L
4860	NP	84060	DKFZP564O0523	S

4862	NPAS2	6256	RXRA	L
4862	NPAS2	8202	NCOA3	L
4863	NPAT	5451	POU2F1	L
4867	NPHP1	7145	TNS1	L
4867	NPHP1	7280	TUBB2	L
4867	NPHP1	9564	BCAR1	L
4867	NPHP1	27031	NPHP3	L
4867	NPHP1	27130	INVS	L
4867	NPHP1	261734	NPHP4	L
4868	NPHS1	6714	SRC	L
4868	NPHS1	7525	YES1	L
4868	NPHS1	7827	NPHS2	L
4868	NPHS1	8573	CASK	L
4868	NPHS1	23607	CD2AP	L
4868	NPHS1	55243	KIRREL	L
4869	NPM1	8290	HIST3H3	L
4869	NPM1	9464	HAND2	L
4869	NPM1	10915	TCERG1	L
4869	NPM1	23075	SWAP70	L
4878	NPPA	4881	NPR1	L
4878	NPPA	4883	NPR3	L
4879	NPPB	4881	NPR1	L
4879	NPPB	4883	NPR3	L
4880	NPPC	4882	NPR2	L
4880	NPPC	4883	NPR3	L
4881	NPR1	5592	PRKG1	L
4881	NPR1	55729	ATF7IP	L
4886	NPY1R	51690	LSM7	L
4887	NPY2R	5697	PYY	L
4887	NPY2R	6002	RGS12	L
4892	NRAP	7094	TLN1	L
4892	NRAP	7414	VCL	L
4893	NRAS	5910	RAP1GDS1	L
4893	NRAS	8036	SHOC2	L
4893	NRAS	10235	RASGRP2	L
4893	NRAS	51196	PLCE1	S
4897	NRCAM	5787	PTPRB	L
4897	NRCAM	6900	CNTN2	L
4899	NRF1	7975	MAFK	L
4899	NRF1	8655	DNCL1	L
4899	NRF1	10891	PPARGC1A	L
4899	NRF1	23764	MAFF	L
4901	NRL	84922	FLJ14768	L
4902	NRTN	5979	RET	L
4904	YBX1	5111	PCNA	L
4904	YBX1	5813	PURA	L
4904	YBX1	5829	PXN	L
4904	YBX1	7020	TFAP2A	L
4904	YBX1	7094	TLN1	L
4904	YBX1	7157	TP53	L
4904	YBX1	8683	SFRS9	L
4904	YBX1	10664	CTCF	L
4905	NSF	6176	RPLP1	S
4905	NSF	6804	STX1A	L
4905	NSF	6810	STX4A	L
4905	NSF	8615	VDP	L
4905	NSF	9482	STX8	L
4905	NSF	9527	GOSR1	L
4905	NSF	11161	C14orf1	S
4905	NSF	11337	GABARAP	L
4905	NSF	51631	LUC7L2	S
4905	NSF	57562	KIAA1377	S
4905	NSF	65991	FUNDC2	S
4908	NTF3	4915	NTRK2	L
4908	NTF3	4916	NTRK3	L
4909	NTF5	4915	NTRK2	L
4914	NTRK1	5770	PTPN1	L

4914	NTRK1	6464	SHC1	L
4914	NTRK1	10755	GIPC1	L
4914	NTRK1	10818	FRS2	L
4914	NTRK1	23623	RUSC1	L
4915	NTRK2	5770	PTPN1	L
4915	NTRK2	8440	NCK2	L
4915	NTRK2	8655	DNCL1	L
4915	NTRK2	8878	SQSTM1	L
4915	NTRK2	10755	GIPC1	L
4916	NTRK3	5335	PLCG1	L
4916	NTRK3	5594	MAPK1	L
4916	NTRK3	5770	PTPN1	L
4916	NTRK3	6464	SHC1	L
4916	NTRK3	8878	SQSTM1	L
4916	NTRK3	27018	NGFRAP1	L
4920	ROR2	9500	MAGED1	L
4921	DDR2	6464	SHC1	L
4921	DDR2	6714	SRC	L
4922	NTS	4923	NTSR1	L
4922	NTS	6272	SORT1	L
4922	NTS	23620	NTSR2	L
4923	NTSR1	7189	TRAF6	L
4924	NUCB1	5743	PTGS2	L
4926	NUMA1	5292	PIM1	L
4926	NUMA1	5885	RAD21	L
4926	NUMA1	8089	YEATS4	L
4926	NUMA1	8243	SMC1L1	L
4926	NUMA1	8658	TNKS	L
4926	NUMA1	10121	ACTR1A	L
4926	NUMA1	29899	GPSM2	L
4927	NUP88	4928	NUP98	L
4927	NUP88	8021	NUP214	L
4928	NUP98	7175	TPR	L
4928	NUP98	8021	NUP214	L
4928	NUP98	10482	NXF1	L
4928	NUP98	23636	NUP62	L
4928	NUP98	55746	NUP133	L
4929	NR4A2	6256	RXRA	L
4929	NR4A2	6257	RXRB	L
4935	GPR143	8801	SUCLG2	L
4942	OAT	54978	C2orf18	S
4946	OAZ1	4953	ODC1	L
4950	OCLN	7082	TJP1	L
4950	OCLN	7525	YES1	L
4950	OCLN	9414	TJP2	L
4950	OCLN	83737	ITCH	L
4952	OCRL	9950	GOLGA5	L
4956	ODF1	4957	ODF2	L
4956	ODF1	6676	SPAG4	L
4956	ODF1	7205	TRIP6	L
4956	ODF1	10615	SPAG5	L
4967	OGDH	5359	PLSCR1	R
4968	OGG1	5578	PRKCA	L
4968	OGG1	7515	XRCC1	L
4982	TNFRSF11B	8600	TNFSF11	L
4982	TNFRSF11B	8743	TNFSF10	L
4982	TNFRSF11B	407977	TNFSF12-TNFSF13	L
4983	OPHN1	5879	RAC1	L
4985	OPRD1	4986	OPRK1	L
4985	OPRD1	4988	OPRM1	L
4985	OPRD1	9737	GPRASP1	L
4986	OPRK1	9368	SLC9A3R1	L
4987	OPRL1	5368	PNOC	L
4987	OPRL1	9630	GNA14	L
4987	OPRL1	10287	RGS19	L
4988	OPRM1	5338	PLD2	L
4988	OPRM1	9737	GPRASP1	L

4990	SIX6	7088	TLE1	L
4998	ORC1L	4999	ORC2L	L
4998	ORC1L	5000	ORC4L	L
4998	ORC1L	5001	ORC5L	L
4998	ORC1L	6502	SKP2	L
4998	ORC1L	7514	XPO1	L
4998	ORC1L	8317	CDC7	L
4998	ORC1L	11143	MYST2	L
4998	ORC1L	23595	ORC3L	L
4998	ORC1L	81620	CDT1	L
4998	ORC1L	115106	CCDC5	L
4999	ORC2L	5000	ORC4L	L
4999	ORC2L	5001	ORC5L	L
4999	ORC2L	6117	RPA1	L
4999	ORC2L	6118	RPA2	L
4999	ORC2L	7520	XRCC5	L
4999	ORC2L	10926	ASK	L
4999	ORC2L	23594	ORC6L	L
4999	ORC2L	23595	ORC3L	L
4999	ORC2L	55388	MCM10	L
4999	ORC2L	81620	CDT1	L
4999	ORC2L	115106	CCDC5	L
5000	ORC4L	5001	ORC5L	L
5000	ORC4L	23594	ORC6L	L
5000	ORC4L	23595	ORC3L	L
5000	ORC4L	55388	MCM10	L
5001	ORC5L	8317	CDC7	L
5001	ORC5L	8318	CDC45L	L
5001	ORC5L	23595	ORC3L	L
5004	ORM1	5054	SERPINE1	L
5008	OSM	9180	OSMR	L
5009	OTC	9804	TOMM20	L
5013	OTX1	11030	RBPM5	R
5013	OTX1	26511	CHIC2	R
5013	OTX1	83755	KRTAP4-12	R
5016	OVGP1	6779	STATH	L
5016	OVGP1	10156	RASA4	S
5027	P2RX7	6840	SVIL	L
5028	P2RY1	9351	SLC9A3R2	L
5028	P2RY1	9368	SLC9A3R1	L
5033	P4HA1	5829	PXN	L
5034	P4HB	5764	PTN	S
5034	P4HB	5829	PXN	L
5034	P4HB	7038	TG	L
5034	P4HB	9638	FEZ1	S
5034	P4HB	29979	UBQLN1	L
5036	PA2G4	5925	RB1	L
5037	PBP	5578	PRKCA	L
5037	PBP	5580	PRKCD	L
5037	PBP	5594	MAPK1	L
5037	PBP	5604	MAP2K1	L
5037	PBP	5894	RAF1	L
5037	PBP	6885	MAP3K7	L
5037	PBP	8614	STC2	S
5037	PBP	84246	TRG20	S
5045	FURIN	5271	SERPINB8	L
5045	FURIN	55690	PACS1	L
5047	PAEP	5788	PTPRC	L
5047	PAEP	7324	UBE2E1	S
5047	PAEP	10980	COPS6	S
5047	PAEP	55791	C1orf103	S
5047	PAEP	84966	IGSF21	S
5048	PAFAH1B1	5049	PAFAH1B2	L
5048	PAFAH1B1	5050	PAFAH1B3	L
5048	PAFAH1B1	6249	RSN	L
5048	PAFAH1B1	10808	HSPH1	L
5048	PAFAH1B1	27019	DNAI1	L

5048	PAFAH1B1	81565	NDEL1	L
5049	PAFAH1B2	5050	PAFAH1B3	R
5049	PAFAH1B2	5071	PARK2	S
5049	PAFAH1B2	6175	RPLP0	S
5049	PAFAH1B2	6503	SLA	S
5049	PAFAH1B2	7203	CCT3	S
5049	PAFAH1B2	10073	RNUT1	S
5049	PAFAH1B2	22985	ACIN1	S
5049	PAFAH1B2	25842	ASF1A	S
5049	PAFAH1B2	54776	PPP1R12C	S
5049	PAFAH1B2	54984	PINX1	S
5049	PAFAH1B2	57455	REXO1	S
5049	PAFAH1B2	92609	TIMM50	S
5050	PAFAH1B3	7088	TLE1	S
5050	PAFAH1B3	7157	TP53	S
5050	PAFAH1B3	7280	TUBB2	S
5050	PAFAH1B3	7704	ZBTB16	S
5050	PAFAH1B3	9094	UNC119	S
5050	PAFAH1B3	9842	PLEKHM1	S
5050	PAFAH1B3	9869	SETDB1	S
5050	PAFAH1B3	10980	COPS6	S
5050	PAFAH1B3	11161	C14orf1	S
5050	PAFAH1B3	11244	ZHX1	S
5050	PAFAH1B3	27111	SDCBP2	R
5050	PAFAH1B3	29117	BRD7	S
5050	PAFAH1B3	51003	MED31	S
5050	PAFAH1B3	55791	C1orf103	S
5050	PAFAH1B3	57062	DDX24	S
5050	PAFAH1B3	60492	MDS025	S
5050	PAFAH1B3	84060	DKFZP564O0523	S
5050	PAFAH1B3	84708	LNX	R
5050	PAFAH1B3	84966	IGSF21	S
5050	PAFAH1B3	91782	CHMP7	R
5050	PAFAH1B3	222019	(null)	S
5052	PRDX1	5829	PXN	L
5052	PRDX1	10549	PRDX4	L
5052	PRDX1	27244	SESN1	L
5054	SERPINE1	5327	PLAT	L
5054	SERPINE1	5340	PLG	L
5054	SERPINE1	7056	THBD	L
5054	SERPINE1	7448	VTN	L
5055	SERPINB2	5328	PLAU	L
5055	SERPINB2	5925	RB1	L
5058	PAK1	5335	PLCG1	L
5058	PAK1	5829	PXN	L
5058	PAK1	5879	RAC1	L
5058	PAK1	5894	RAF1	L
5058	PAK1	8440	NCK2	L
5058	PAK1	8851	CDK5R1	L
5058	PAK1	8874	ARHGEF7	L
5058	PAK1	9146	HGS	L
5058	PAK1	9459	ARHGEF6	L
5058	PAK1	9647	PPM1F	L
5058	PAK1	10095	ARPC1B	L
5058	PAK1	51225	ABI3	L
5058	PAK1	55003	PAK1IP1	L
5058	PAK1	57381	RHOJ	L
5062	PAK2	5879	RAC1	L
5062	PAK2	8874	ARHGEF7	L
5062	PAK2	10006	ABI1	L
5062	PAK2	30011	SH3KBP1	L
5062	PAK2	51225	ABI3	L
5063	PAK3	5829	PXN	L
5063	PAK3	8874	ARHGEF7	L
5063	PAK3	9459	ARHGEF6	L
5063	PAK3	9815	GIT2	L
5063	PAK3	28964	GIT1	L

5066	PAM	8997	KALRN	L
5066	PAM	9182	PAMCI	L
5068	REG3A	5967	REG1A	L
5068	REG3A	6383	SDC2	L
5069	PAPPA	5340	PLG	L
5069	PAPPA	5553	PRG2	L
5069	PAPPA	6498	SKIL	L
5069	PAPPA	55729	ATF7IP	L
5071	PARK2	5413	SEPT5	L
5071	PARK2	5414	SEPT4	L
5071	PARK2	5810	RAD1	S
5071	PARK2	5879	RAC1	S
5071	PARK2	5997	RGS2	S
5071	PARK2	6622	SNCA	L
5071	PARK2	7314	UBB	L
5071	PARK2	7326	UBE2G1	L
5071	PARK2	7332	UBE2L3	L
5071	PARK2	7414	VCL	L
5071	PARK2	7965	JTV1	L
5071	PARK2	8573	CASK	L
5071	PARK2	9246	UBE2L6	L
5071	PARK2	9319	TRIP13	R
5071	PARK2	9627	SNCAIP	L
5071	PARK2	55294	FBXW7	L
5071	PARK2	56901	LOC56901	S
5071	PARK2	284004	FLJ23825	S
5073	PARN	8570	KHSRP	L
5073	PARN	10200	MPHOSPH6	L
5073	PARN	84221	C21orf56	L
5074	PAWR	5371	PML	L
5074	PAWR	5590	PRKCZ	L
5074	PAWR	7490	WT1	L
5074	PAWR	22800	RRAS2	S
5076	PAX2	5599	MAPK8	L
5076	PAX2	22976	PAXIP1	L
5077	PAX3	6663	SOX10	L
5077	PAX3	10519	CIB1	L
5079	PAX5	7091	TLE4	L
5080	PAX6	5087	PBX1	L
5080	PAX6	6496	SIX3	L
5080	PAX6	6657	SOX2	L
5080	PAX6	6658	SOX3	L
5080	PAX6	6908	TBP	L
5080	PAX6	9670	IPO13	R
5080	PAX6	30062	RAX	L
5081	PAX7	7290	HIRA	L
5082	PDCL	6950	TCP1	L
5083	PAX9	10765	JARID1B	L
5089	PBX2	6124	RPL4	L
5089	PBX2	8518	IKBKAP	L
5089	PBX2	10445	MCRS1	L
5089	PBX2	10458	BAIAP2	L
5089	PBX2	10980	COPS6	L
5089	PBX2	11258	DCTN3	L
5089	PBX2	23636	NUP62	L
5089	PBX2	26750	RPS6KC1	L
5089	PBX2	55625	ZDHHC7	L
5089	PBX2	64754	SMYD3	L
5089	PBX2	197259	MLKL	L
5089	PBX2	283234	FLJ37970	L
5090	PBX3	57085	AGTRAP	R
5092	PCBD1	6927	TCF1	L
5092	PCBD1	9149	DYRK1B	L
5092	PCBD1	9513	FXR2	R
5092	PCBD1	26003	GORASP2	R
5092	PCBD1	55093	C8orf32	R
5092	PCBD1	60491	NIF3L1	R

5092	PCBD1	79873	NUDT18	R
5092	PCBD1	84708	LNX	R
5093	PCBP1	10915	TCERG1	L
5093	PCBP1	26986	PABPC1	L
5094	PCBP2	5725	PTBP1	L
5094	PCBP2	26986	PABPC1	L
5094	PCBP2	55660	FNBP3	L
5097	PCDH1	55729	ATF7IP	L
5104	SERPINA5	5327	PLAT	L
5104	SERPINA5	5328	PLAU	L
5104	SERPINA5	5624	PROC	L
5104	SERPINA5	6407	SEMG2	L
5104	SERPINA5	7056	THBD	L
5104	SERPINA5	10980	COPS6	S
5108	PCM1	5116	PCNT2	L
5108	PCM1	9001	HAP1	L
5108	PCM1	10152	ABI2	R
5108	PCM1	23392	KIAA0368	R
5108	PCM1	51019	CGI-116	R
5108	PCM1	55722	Cep72	R
5108	PCM1	84289	ING5	R
5108	PCM1	123016	TTC8	L
5108	PCM1	149371	EXOC8	R
5111	PCNA	5423	POLB	L
5111	PCNA	5424	POLD1	L
5111	PCNA	5425	POLD2	L
5111	PCNA	5426	POLE	L
5111	PCNA	5429	POLH	L
5111	PCNA	5591	PRKDC	L
5111	PCNA	5757	PTMA	L
5111	PCNA	5883	RAD9A	L
5111	PCNA	5981	RFC1	L
5111	PCNA	5982	RFC2	L
5111	PCNA	5983	RFC3	L
5111	PCNA	5984	RFC4	L
5111	PCNA	5985	RFC5	L
5111	PCNA	6949	TCOF1	L
5111	PCNA	7374	UNG	L
5111	PCNA	7486	WRN	L
5111	PCNA	7515	XRCC1	L
5111	PCNA	7520	XRCC5	L
5111	PCNA	9156	EXO1	L
5111	PCNA	10036	CHAF1A	L
5111	PCNA	10309	UNG2	L
5111	PCNA	10514	MYBBP1A	L
5111	PCNA	10714	POLD3	L
5111	PCNA	10912	GADD45G	L
5111	PCNA	10923	SUB1	L
5111	PCNA	26073	POLDIP2	L
5111	PCNA	27301	APEX2	L
5111	PCNA	27343	POLL	L
5111	PCNA	30836	ERBP	L
5111	PCNA	79075	DCC1	L
5111	PCNA	253980	KCTD13	L
5116	PCNT2	7283	TUBG1	L
5116	PCNT2	10142	AKAP9	L
5116	PCNT2	10426	TUBGCP3	L
5116	PCNT2	27185	DISC1	L
5118	PCOLCE	5829	PXN	L
5125	PCSK5	5972	REN	L
5125	PCSK5	10513	APPBP2	R
5126	PCSK2	6447	SGNE1	L
5127	PCTK1	7531	YWHAE	L
5127	PCTK1	7532	YWHAG	L
5127	PCTK1	7533	YWHAH	L
5127	PCTK1	7534	YWHAZ	L
5127	PCTK1	7917	BAT3	S

5128	PCTK2	23424	TDRD7	L
5129	PCTK3	8812	CCNK	R
5129	PCTK3	11007	DIPA	R
5130	PCYT1A	8841	HDAC3	L
5133	PDCD1	29126	CD274	L
5133	PDCD1	80380	PDCD1LG2	L
5134	PDCD2	9611	NCOR1	L
5134	PDCD2	25942	SIN3A	L
5134	PDCD2	51691	LSM8	L
5140	PDE3B	7529	YWHAB	L
5144	PDE4D	9472	AKAP6	L
5144	PDE4D	9659	PDE4DIP	L
5144	PDE4D	10399	GNB2L1	L
5147	PDE6D	5872	RAB13	L
5147	PDE6D	5886	RAD23A	R
5147	PDE6D	5906	RAP1A	L
5147	PDE6D	5912	RAP2B	L
5147	PDE6D	5921	RASA1	L
5147	PDE6D	6009	RHEB	L
5147	PDE6D	6103	RPGR	L
5147	PDE6D	22931	RAB18	S
5147	PDE6D	54622	ARFRP2	S
5147	PDE6D	203259	C9orf25	S
5148	PDE6G	6714	SRC	L
5152	PDE9A	22954	TRIM32	R
5152	PDE9A	84457	PHYHIPL	R
5155	PDGFB	5156	PDGFRA	L
5155	PDGFB	5159	PDGFRB	L
5155	PDGFB	7057	THBS1	L
5155	PDGFB	11333	PDAP1	L
5156	PDGFRA	5159	PDGFRB	L
5156	PDGFRA	5335	PLCG1	L
5156	PDGFRA	5781	PTPN11	L
5156	PDGFRA	6461	SHB	L
5156	PDGFRA	6643	SNX2	L
5156	PDGFRA	8723	SNX4	L
5156	PDGFRA	9368	SLC9A3R1	L
5156	PDGFRA	56034	PDGFC	L
5159	PDGFRB	5295	PIK3R1	L
5159	PDGFRB	5296	PIK3R2	L
5159	PDGFRB	5335	PLCG1	L
5159	PDGFRB	5610	EIF2AK2	L
5159	PDGFRB	5747	PTK2	L
5159	PDGFRB	5781	PTPN11	L
5159	PDGFRB	5894	RAF1	L
5159	PDGFRB	5921	RASA1	L
5159	PDGFRB	6461	SHB	L
5159	PDGFRB	6464	SHC1	L
5159	PDGFRB	6642	SNX1	L
5159	PDGFRB	6714	SRC	L
5159	PDGFRB	8440	NCK2	L
5159	PDGFRB	8503	PIK3R3	L
5159	PDGFRB	8651	SOCS1	L
5159	PDGFRB	9368	SLC9A3R1	L
5159	PDGFRB	11333	PDAP1	L
5159	PDGFRB	30011	SH3KBP1	L
5159	PDGFRB	83755	KRTAP4-12	R
5160	PDHA1	5162	PDHB	L
5161	PDHA2	5162	PDHB	L
5162	PDHB	8050	PDHX	L
5163	PDK1	5164	PDK2	L
5163	PDK1	5580	PRKCD	L
5163	PDK1	7533	YWHAH	L
5164	PDK2	8050	PDHX	L
5164	PDK2	23119	HIC2	S
5164	PDK2	79763	ISOC2	S
5170	PDPK1	5566	PRKACA	L

5170	PDPK1	5579	PRKCB1	L
5170	PDPK1	5580	PRKCD	L
5170	PDPK1	5584	PRKCI	L
5170	PDPK1	5585	PKN1	L
5170	PDPK1	5586	PKN2	L
5170	PDPK1	5590	PRKCZ	L
5170	PDPK1	5900	RALGDS	L
5170	PDPK1	6197	RPS6KA3	L
5170	PDPK1	6198	RPS6KB1	L
5170	PDPK1	6446	SGK	L
5170	PDPK1	7533	YWHAH	L
5170	PDPK1	9351	SLC9A3R2	L
5170	PDPK1	10971	YWHAQ	L
5170	PDPK1	11098	PRSS23	S
5170	PDPK1	64400	FTS	L
5170	PDPK1	146059	CDAN1	S
5174	PDZK1	5830	PEX5	R
5174	PDZK1	6550	SLC9A3	L
5174	PDZK1	6568	SLC17A1	L
5174	PDZK1	6583	SLC22A4	L
5174	PDZK1	10158	PDZK1IP1	L
5174	PDZK1	11216	AKAP10	L
5174	PDZK1	116085	SLC22A12	L
5175	PECAM1	5335	PLCG1	L
5175	PECAM1	5581	PRKCE	L
5175	PECAM1	5777	PTPN6	L
5175	PECAM1	5781	PTPN11	L
5175	PECAM1	6714	SRC	L
5175	PECAM1	7525	YES1	L
5175	PECAM1	55660	FNBP3	L
5178	PEG3	6477	SIAH1	L
5178	PEG3	6478	SIAH2	L
5187	PER1	8863	PER3	L
5187	PER1	8864	PER2	L
5187	PER1	8914	TIMELESS	L
5189	PEX1	5190	PEX6	L
5189	PEX1	55670	PEX26	L
5190	PEX6	55670	PEX26	L
5190	PEX6	55729	ATF7IP	L
5191	PEX7	5194	PEX13	L
5191	PEX7	5195	PEX14	L
5191	PEX7	5264	PHYH	L
5191	PEX7	5830	PEX5	L
5192	PEX10	5193	PEX12	L
5192	PEX10	5824	PEX19	L
5192	PEX10	5828	PXMP3	L
5192	PEX10	5830	PEX5	L
5193	PEX12	5824	PEX19	L
5193	PEX12	5830	PEX5	L
5194	PEX13	5195	PEX14	L
5194	PEX13	5824	PEX19	L
5194	PEX13	5830	PEX5	L
5195	PEX14	5824	PEX19	L
5195	PEX14	5830	PEX5	L
5195	PEX14	6601	SMARCC2	S
5195	PEX14	11244	ZHX1	S
5195	PEX14	112950	MED8	S
5196	PF4	5552	PRG1	L
5196	PF4	5624	PROC	L
5196	PF4	6383	SDC2	L
5196	PF4	7056	THBD	L
5201	PFDN1	5720	PSME1	S
5201	PFDN1	6176	RPLP1	S
5201	PFDN1	9001	HAP1	S
5201	PFDN1	9737	GPRASP1	S
5201	PFDN1	10989	IMMT	S
5201	PFDN1	28964	GIT1	S

5201	PFDN1	51003	MED31	S
5201	PFDN1	55791	C1orf103	S
5201	PFDN1	57562	KIAA1377	S
5201	PFDN1	79953	C20orf39	S
5204	PFDN5	7161	TP73	L
5208	PFKFB2	7534	YWHAZ	L
5208	PFKFB2	10971	YWHAQ	L
5211	PFKL	7094	TLN1	L
5211	PFKL	10980	COPS6	S
5211	PFKL	55660	FNBFP3	L
5211	PFKL	83755	KRTAP4-12	R
5213	PFKM	8655	DNCL1	L
5213	PFKM	50617	ATP6V0A4	L
5214	PFKP	8655	DNCL1	L
5216	PFN1	5295	PIK3R1	L
5216	PFN1	7088	TLE1	S
5216	PFN1	7408	VASP	L
5216	PFN1	7414	VCL	L
5216	PFN1	8936	WASF1	L
5216	PFN1	8976	WASL	L
5216	PFN1	9231	DLG5	S
5216	PFN1	10243	GPHN	L
5216	PFN1	11161	C14orf1	S
5216	PFN1	23214	XPO6	L
5216	PFN1	23433	RHOQ	L
5217	PFN2	5329	PLAUR	S
5217	PFN2	5413	SEPT5	S
5217	PFN2	5802	PTPRS	S
5217	PFN2	5909	RAP1GA1	S
5217	PFN2	6093	ROCK1	L
5217	PFN2	6204	RPS10	S
5217	PFN2	6449	SGTA	S
5217	PFN2	7013	TERF1	S
5217	PFN2	7408	VASP	L
5217	PFN2	10625	IVNS1ABP	S
5217	PFN2	29070	HSPC065	S
5217	PFN2	29109	FHOD1	L
5217	PFN2	51466	EVL	L
5217	PFN2	55339	WDR33	S
5217	PFN2	65990	C16orf24	S
5217	PFN2	81847	RNF146	S
5223	PGAM1	8502	PKP4	S
5224	PGAM2	7414	VCL	L
5226	PGD	51691	LSM8	L
5228	PGF	7422	VEGF	L
5228	PGF	8828	NRP2	L
5228	PGF	8829	NRP1	L
5230	PGK1	10808	HSPH1	L
5236	PGM1	6271	S100A1	L
5236	PGM1	6285	S100B	L
5239	PGM5	7402	UTRN	L
5241	PGR	5970	RELA	L
5241	PGR	7337	UBE3A	L
5241	PGR	8648	NCOA1	L
5241	PGR	8805	TRIM24	L
5241	PGR	8850	PCAF	L
5241	PGR	51366	EDD1	L
5245	PHB	5894	RAF1	L
5245	PHB	5925	RB1	L
5245	PHB	5933	RBL1	L
5245	PHB	5934	RBL2	L
5245	PHB	6595	SMARCA2	L
5245	PHB	6597	SMARCA4	L
5245	PHB	7157	TP53	L
5245	PHB	9611	NCOR1	L
5245	PHB	25942	SIN3A	L
5251	PHEX	8074	FGF23	L

5252	PHF1	11030	RBPMS	R
5252	PHF1	55145	THAP1	R
5257	PHKB	54976	C20orf27	R
5264	PHYH	10040	TOM1L1	S
5265	SERPINA1	5644	PRSS1	L
5265	SERPINA1	5646	PRSS3	L
5265	SERPINA1	5657	PRTN3	L
5269	SERPINB6	5328	PLAU	L
5269	SERPINB6	5340	PLG	L
5269	SERPINB6	5624	PROC	L
5271	SERPINB8	5644	PRSS1	L
5271	SERPINB8	10487	CAP1	L
5272	SERPINB9	7088	TLE1	S
5272	SERPINB9	7157	TP53	S
5272	SERPINB9	7280	TUBB2	S
5272	SERPINB9	9094	UNC119	S
5272	SERPINB9	9842	PLEKHM1	S
5272	SERPINB9	9869	SETDB1	S
5272	SERPINB9	10980	COPS6	S
5272	SERPINB9	11161	C14orf1	S
5272	SERPINB9	11244	ZHX1	S
5272	SERPINB9	29117	BRD7	S
5272	SERPINB9	51003	MED31	S
5272	SERPINB9	55660	FNBP3	S
5272	SERPINB9	55791	C1orf103	S
5272	SERPINB9	60492	MDS025	S
5272	SERPINB9	84060	DKFZP564O0523	S
5272	SERPINB9	84966	IGSF21	S
5272	SERPINB9	197131	UBR1	S
5274	SERPINI1	5327	PLAT	L
5275	SERPINB13	5340	PLG	L
5275	SERPINB13	5644	PRSS1	L
5275	SERPINB13	5657	PRTN3	L
5276	SERPINI2	29979	UBQLN1	R
5277	PIGA	5279	PIGC	L
5277	PIGA	5283	PIGH	L
5277	PIGA	9091	PIGQ	L
5279	PIGC	5283	PIGH	L
5279	PIGC	9091	PIGQ	L
5279	PIGC	11244	ZHX1	S
5283	PIGH	9091	PIGQ	L
5284	PIGR	5865	RAB3B	L
5284	PIGR	6352	CCL5	L
5289	PIK3C3	5306	PITPNA	L
5289	PIK3C3	30849	PIK3R4	L
5290	PIK3CA	5295	PIK3R1	L
5290	PIK3CA	5580	PRKCD	L
5290	PIK3CA	8471	IRS4	L
5290	PIK3CA	8503	PIK3R3	L
5291	PIK3CB	5295	PIK3R1	L
5291	PIK3CB	5581	PRKCE	L
5292	PIM1	6470	SHMT1	S
5292	PIM1	10951	CBX1	L
5292	PIM1	11335	CBX3	L
5292	PIM1	27044	SND1	L
5293	PIK3CD	5295	PIK3R1	L
5293	PIK3CD	5296	PIK3R2	L
5293	PIK3CD	22913	RALY	S
5293	PIK3CD	30000	TNPO2	S
5293	PIK3CD	84164	ASCC2	S
5293	PIK3CD	84331	MGC15416	S
5294	PIK3CG	23533	PIK3R5	L
5294	PIK3CG	23541	SEC14L2	L
5295	PIK3R1	5747	PTK2	L
5295	PIK3R1	5777	PTPN6	L
5295	PIK3R1	5781	PTPN11	L
5295	PIK3R1	5879	RAC1	L

5295	PIK3R1	5925	RB1	L
5295	PIK3R1	5979	RET	L
5295	PIK3R1	6461	SHB	L
5295	PIK3R1	6464	SHC1	L
5295	PIK3R1	6549	SLC9A2	L
5295	PIK3R1	6714	SRC	L
5295	PIK3R1	6853	SYN1	L
5295	PIK3R1	7010	TEK	L
5295	PIK3R1	7046	TGFBR1	L
5295	PIK3R1	7075	TIE1	L
5295	PIK3R1	7283	TUBG1	L
5295	PIK3R1	7297	TYK2	L
5295	PIK3R1	7301	TYRO3	L
5295	PIK3R1	7430	VIL2	L
5295	PIK3R1	7454	WAS	L
5295	PIK3R1	8038	ADAM12	L
5295	PIK3R1	8471	IRS4	L
5295	PIK3R1	8660	IRS2	L
5295	PIK3R1	9146	HGS	L
5295	PIK3R1	9846	GAB2	L
5295	PIK3R1	10040	TOM1L1	L
5295	PIK3R1	10376	K-ALPHA-1	L
5295	PIK3R1	10451	VAV3	L
5295	PIK3R1	22800	RRAS2	L
5295	PIK3R1	23607	CD2AP	L
5295	PIK3R1	50852	TRAT1	L
5295	PIK3R1	116986	CENTG1	L
5295	PIK3R1	139716	GAB3	L
5296	PIK3R2	6464	SHC1	L
5296	PIK3R2	7046	TGFBR1	L
5296	PIK3R2	8651	SOCS1	L
5297	PIK4CA	29888	STRN4	S
5298	PIK4CB	23413	FREQ	L
5300	PIN1	5347	PLK1	L
5300	PIN1	5430	POLR2A	L
5300	PIN1	5770	PTPN1	L
5300	PIN1	5867	RAB4A	L
5300	PIN1	5932	RBBP8	R
5300	PIN1	6829	SUPT5H	L
5300	PIN1	7153	TOP2A	L
5300	PIN1	7157	TP53	L
5300	PIN1	7161	TP73	L
5300	PIN1	7186	TRAF2	R
5300	PIN1	8733	GPAA1	S
5300	PIN1	9021	SOCS3	S
5300	PIN1	9088	PKMYT1	L
5300	PIN1	9585	MPHOSPH1	L
5300	PIN1	9650	MTFR1	S
5300	PIN1	10743	RAI1	R
5300	PIN1	11030	RBPMS	R
5300	PIN1	23062	GGA2	R
5300	PIN1	27252	KLHL20	S
5300	PIN1	53635	PTOV1	S
5300	PIN1	54819	ZCCHC10	S
5300	PIN1	57062	DDX24	S
5300	PIN1	79586	CHPF	S
5300	PIN1	81628	TSC22D4	R
5300	PIN1	83637	DKFZp761I2123	R
5303	PIN4	6709	SPTAN1	S
5303	PIN4	84164	ASCC2	S
5306	PITPNA	5335	PLCG1	L
5307	PITX1	5449	POU1F1	L
5307	PITX1	11030	RBPMS	R
5307	PITX1	84528	PEPP-2	R
5308	PITX2	5626	PROP1	L
5310	PKD1	5311	PKD2	L
5310	PKD1	5747	PTK2	L

5310	PKD1	5829	PXN	L
5310	PKD1	6000	RGS7	L
5310	PKD1	6714	SRC	L
5310	PKD1	7094	TLN1	L
5310	PKD1	9564	BCAR1	L
5310	PKD1	55729	ATF7IP	L
5311	PKD2	7137	TNNI3	L
5311	PKD2	23607	CD2AP	L
5315	PKM2	5829	PXN	L
5315	PKM2	56915	EXOSC5	L
5315	PKM2	93145	OLFM2	S
5317	PKP1	7431	VIM	L
5319	PLA2G1B	9373	PLAA	L
5321	PLA2G4A	5322	PLA2G5	L
5321	PLA2G4A	10524	HTATIP	L
5327	PLAT	5328	PLAU	L
5327	PLAT	6678	SPARC	L
5327	PLAT	7123	CLEC3B	L
5327	PLAT	284217	LAMA1	L
5328	PLAU	5329	PLAUR	L
5328	PLAU	5340	PLG	L
5328	PLAU	6768	ST14	L
5329	PLAUR	6835	SURF2	S
5329	PLAUR	7448	VTN	L
5329	PLAUR	222019	(null)	S
5330	PLCB2	5606	MAP2K3	L
5330	PLCB2	5608	MAP2K6	L
5330	PLCB2	9368	SLC9A3R1	L
5330	PLCB2	54822	TRPM7	L
5331	PLCB3	6002	RGS12	L
5331	PLCB3	9351	SLC9A3R2	L
5333	PLCD1	7052	TGM2	L
5335	PLCG1	5336	PLCG2	L
5335	PLCG1	5338	PLD2	L
5335	PLCG1	5586	PKN2	L
5335	PLCG1	5587	PRKD1	L
5335	PLCG1	5747	PTK2	L
5335	PLCG1	5795	PTPRJ	L
5335	PLCG1	5979	RET	L
5335	PLCG1	6401	SELE	L
5335	PLCG1	6452	SH3BP2	L
5335	PLCG1	6461	SHB	L
5335	PLCG1	6654	SOS1	L
5335	PLCG1	6655	SOS2	L
5335	PLCG1	6714	SRC	L
5335	PLCG1	6850	SYK	L
5335	PLCG1	7275	TUB	L
5335	PLCG1	7454	WAS	L
5335	PLCG1	7462	LAT2	L
5335	PLCG1	7535	ZAP70	L
5335	PLCG1	8301	PICALM	L
5335	PLCG1	8525	DGKZ	L
5335	PLCG1	8615	VDP	L
5335	PLCG1	8660	IRS2	L
5335	PLCG1	8711	TNK1	L
5335	PLCG1	9531	BAG3	L
5335	PLCG1	9892	SNAP91	L
5335	PLCG1	10399	GNB2L1	L
5335	PLCG1	10451	VAV3	L
5335	PLCG1	10657	KHDRBS1	L
5335	PLCG1	28964	GIT1	L
5335	PLCG1	54822	TRPM7	L
5336	PLCG2	5587	PRKD1	L
5336	PLCG2	6452	SH3BP2	L
5336	PLCG2	7462	LAT2	L
5336	PLCG2	9846	GAB2	L
5336	PLCG2	10657	KHDRBS1	L

5336	PLCG2	27040	LAT	L
5336	PLCG2	29760	BLNK	L
5336	PLCG2	57473	GM632	L
5337	PLD1	5578	PRKCA	L
5337	PLD1	5585	PKN1	L
5337	PLD1	5879	RAC1	L
5337	PLD1	5898	RALA	L
5337	PLD1	6622	SNCA	L
5337	PLD1	8394	PIP5K1A	L
5337	PLD1	8682	PEA15	L
5337	PLD1	25820	ARIH1	L
5338	PLD2	5578	PRKCA	L
5338	PLD2	5580	PRKCD	L
5338	PLD2	8394	PIP5K1A	L
5338	PLD2	8682	PEA15	L
5339	PLEC1	6708	SPTA1	L
5339	PLEC1	6709	SPTAN1	L
5339	PLEC1	7431	VIM	L
5340	PLG	5345	SERPINF2	L
5340	PLG	5621	PRNP	L
5340	PLG	6281	S100A10	L
5340	PLG	6678	SPARC	L
5340	PLG	7057	THBS1	L
5340	PLG	7123	CLEC3B	L
5340	PLG	7980	TFPI2	L
5340	PLG	154796	AMOT	L
5340	PLG	284217	LAMA1	L
5345	SERPINF2	5644	PRSS1	L
5345	SERPINF2	26085	KLK13	L
5347	PLK1	5682	PSMA1	L
5347	PLK1	5684	PSMA3	L
5347	PLK1	5685	PSMA4	L
5347	PLK1	5686	PSMA5	L
5347	PLK1	5687	PSMA6	L
5347	PLK1	5688	PSMA7	L
5347	PLK1	5689	PSMB1	L
5347	PLK1	5690	PSMB2	L
5347	PLK1	5691	PSMB3	L
5347	PLK1	5692	PSMB4	L
5347	PLK1	5693	PSMB5	L
5347	PLK1	5694	PSMB6	L
5347	PLK1	5695	PSMB7	L
5347	PLK1	7277	TUBA1	L
5347	PLK1	7280	TUBB2	L
5347	PLK1	7283	TUBG1	L
5347	PLK1	9400	RECQL5	S
5347	PLK1	9493	KIF23	L
5347	PLK1	9500	MAGED1	S
5347	PLK1	9600	PITPNM1	L
5347	PLK1	10726	NUDC	L
5347	PLK1	11200	CHEK2	L
5347	PLK1	51608	C7orf20	S
5347	PLK1	64689	GORASP1	L
5347	PLK1	259266	ASPM	L
5348	FXYD1	5566	PRKACA	L
5348	FXYD1	8611	PPAP2A	L
5349	FXYD3	26135	SERBP1	S
5349	FXYD3	54850	FBXL12	S
5350	PLN	5506	PPP1R3A	L
5350	PLN	6271	S100A1	L
5350	PLN	6588	SLN	L
5355	PLP2	8518	IKBKAP	S
5355	PLP2	10134	BCAP31	L
5355	PLP2	22839	DLGAP4	S
5359	PLSCR1	6590	SLPI	L
5359	PLSCR1	6687	SPG7	R
5359	PLSCR1	7355	SLC35A2	R

5359	PLSCR1	7408	VASP	R
5359	PLSCR1	7536	SF1	R
5359	PLSCR1	7704	ZBTB16	R
5359	PLSCR1	9140	ATG12	R
5359	PLSCR1	9618	TRAF4	L
5359	PLSCR1	9721	KIAA0514	R
5359	PLSCR1	9802	DAZAP2	R
5359	PLSCR1	10253	SPRY2	R
5359	PLSCR1	10342	TFG	R
5359	PLSCR1	10539	TXNL2	R
5359	PLSCR1	11052	CPSF6	R
5359	PLSCR1	11067	C10orf10	R
5359	PLSCR1	11135	CDC42EP1	R
5359	PLSCR1	22822	PHLDA1	R
5359	PLSCR1	23493	HEY2	R
5359	PLSCR1	25796	PGLS	R
5359	PLSCR1	25844	YIPF3	R
5359	PLSCR1	27332	ZNF638	R
5359	PLSCR1	30008	EFEMP2	R
5359	PLSCR1	51447	IHPK2	R
5359	PLSCR1	51545	ZNF581	R
5359	PLSCR1	51586	PCQAP	R
5359	PLSCR1	51655	RASD1	R
5359	PLSCR1	54507	TSRC1	R
5359	PLSCR1	54932	FLJ20433	R
5359	PLSCR1	54973	CPSF3L	R
5359	PLSCR1	55707	NECAP2	R
5359	PLSCR1	56654	NPDC1	R
5359	PLSCR1	57048	PLSCR3	R
5359	PLSCR1	57088	PLSCR4	R
5359	PLSCR1	59277	NTN4	R
5359	PLSCR1	64115	C10orf54	R
5359	PLSCR1	64773	C20orf81	R
5359	PLSCR1	65989	EGFL9	R
5359	PLSCR1	79050	NOC4L	R
5359	PLSCR1	80028	FBXL18	R
5359	PLSCR1	80125	FLJ32855	R
5359	PLSCR1	80726	KIAA1683	R
5359	PLSCR1	83640	MGC2560	R
5359	PLSCR1	83755	KRTAP4-12	R
5359	PLSCR1	84080	C16orf48	R
5359	PLSCR1	92070	MGC21675	R
5359	PLSCR1	92595	MGC13138	R
5359	PLSCR1	113878	DTX2	R
5359	PLSCR1	115817	DHRS1	R
5359	PLSCR1	129807	NEU4	R
5359	PLSCR1	196477	C12orf12	R
5359	PLSCR1	284440	MGC39821	R
5359	PLSCR1	414157	C10orf62	R
5362	PLXNA2	9898	UBAP2L	L
5362	PLXNA2	23360	FNBP4	L
5362	PLXNA2	57214	KIAA1199	L
5362	PLXNA2	57560	WDR56	L
5364	PLXNB1	5879	RAC1	L
5364	PLXNB1	9826	ARHGEF11	L
5364	PLXNB1	10507	SEMA4D	L
5364	PLXNB1	10509	SEMA4B	L
5364	PLXNB1	23365	ARHGEF12	L
5364	PLXNB1	27289	RND1	L
5365	PLXNB3	9826	ARHGEF11	L
5366	PMAIP1	5473	PPBP	S
5366	PMAIP1	7704	ZBTB16	S
5371	PML	5914	RARA	L
5371	PML	5925	RB1	L
5371	PML	5970	RELA	L
5371	PML	6135	RPL11	L
5371	PML	6497	SKI	L

5371	PML	6613	SUMO2	L
5371	PML	6667	SP1	L
5371	PML	6722	SRF	L
5371	PML	6774	STAT3	L
5371	PML	6996	TDG	L
5371	PML	7046	TGFBR1	L
5371	PML	7048	TGFBR2	L
5371	PML	7067	THRA	L
5371	PML	7157	TP53	L
5371	PML	7161	TP73	L
5371	PML	7341	SUMO1	L
5371	PML	7704	ZBTB16	L
5371	PML	8805	TRIM24	L
5371	PML	8841	HDAC3	L
5371	PML	9372	ZFYVE9	L
5371	PML	9611	NCOR1	L
5371	PML	9612	NCOR2	L
5371	PML	11073	TOPBP1	L
5371	PML	25942	SIN3A	L
5371	PML	55743	CHFR	L
5371	PML	59343	SENP2	L
5371	PML	140691	RNF36	L
5372	PMM1	5870	RAB6A	R
5376	PMP22	5824	PEX19	L
5393	EXOSC9	7919	BAT1	L
5393	EXOSC9	51013	EXOSC1	L
5394	EXOSC10	6120	RPE	L
5394	EXOSC10	6499	SKIV2L	L
5394	EXOSC10	6749	SSRP1	L
5394	EXOSC10	9878	C14orf92	L
5394	EXOSC10	10438	C1D	L
5394	EXOSC10	10480	hfl-B5	L
5394	EXOSC10	10519	CIB1	L
5394	EXOSC10	10856	RUVBL2	L
5394	EXOSC10	22803	XRN2	L
5394	EXOSC10	22894	KIAA1008	L
5394	EXOSC10	23016	EXOSC7	L
5394	EXOSC10	23420	NOMO1	L
5394	EXOSC10	23435	TARDBP	L
5394	EXOSC10	23513	SCRIB	L
5394	EXOSC10	26019	UPF2	L
5394	EXOSC10	27005	USP21	L
5394	EXOSC10	27077	EPPB9	L
5394	EXOSC10	51691	LSM8	L
5394	EXOSC10	54464	XRN1	L
5394	EXOSC10	55572	H17	L
5394	EXOSC10	57819	LSM2	L
5394	EXOSC10	79586	CHPF	L
5394	EXOSC10	80142	PTGES2	L
5394	EXOSC10	83706	URP2	L
5394	EXOSC10	84641	HIATL1	L
5394	EXOSC10	118460	EXOSC6	L
5396	PRRX1	6722	SRF	L
5411	PNN	6429	SFRS4	L
5411	PNN	8899	PRPF4B	L
5411	PNN	10921	RNPS1	L
5411	PNN	23524	SRRM2	L
5411	PNN	25957	C6orf111	L
5413	SEPT5	6804	STX1A	L
5413	SEPT5	6810	STX4A	L
5413	SEPT5	11143	MYST2	S
5413	SEPT5	51691	LSM8	L
5414	SEPT4	6620	SNCB	L
5414	SEPT4	9627	SNCAIP	L
5422	POLA	5424	POLD1	L
5422	POLA	5426	POLE	L
5422	POLA	5925	RB1	L

5422	POLA	7157	TP53	L
5422	POLA	7520	XRCC5	L
5422	POLA	8099	CDK2AP1	L
5422	POLA	23649	POLA2	L
5422	POLA	92797	HELB	L
5423	POLB	7088	TLE1	S
5423	POLB	7515	XRCC1	L
5423	POLB	11143	MYST2	S
5423	POLB	79661	NEIL1	L
5424	POLD1	5981	RFC1	L
5424	POLD1	7520	XRCC5	L
5424	POLD1	10714	POLD3	L
5424	POLD1	57562	KIAA1377	S
5425	POLD2	11157	LSM6	L
5425	POLD2	26073	POLDIP2	L
5425	POLD2	84271	POLDIP3	L
5425	POLD2	253980	KCTD13	L
5426	POLE	5884	RAD17	L
5426	POLE	8859	STK19	L
5427	POLE2	7088	TLE1	S
5427	POLE2	10524	HTATIP	S
5427	POLE2	11161	C14orf1	S
5428	POLG	6742	SSBP1	L
5429	POLH	8655	DNCL1	L
5429	POLH	51455	REV1L	L
5430	POLR2A	5435	POLR2F	L
5430	POLR2A	5976	RENT1	L
5430	POLR2A	6294	SAFB	L
5430	POLR2A	6595	SMARCA2	L
5430	POLR2A	6597	SMARCA4	L
5430	POLR2A	6598	SMARCB1	L
5430	POLR2A	6599	SMARCC1	L
5430	POLR2A	6601	SMARCC2	L
5430	POLR2A	6605	SMARCE1	L
5430	POLR2A	6829	SUPT5H	L
5430	POLR2A	6917	TCEA1	L
5430	POLR2A	7625	ZNF74	L
5430	POLR2A	9412	SURB7	L
5430	POLR2A	10915	TCERG1	L
5430	POLR2A	22906	OIP106	L
5430	POLR2A	27044	SND1	L
5430	POLR2A	58190	CTDSP1	L
5430	POLR2A	146705	FLJ31528	L
5432	POLR2C	6601	SMARCC2	S
5432	POLR2C	8614	STC2	S
5432	POLR2C	11161	C14orf1	S
5432	POLR2C	55284	UBE2W	S
5432	POLR2C	55791	C1orf103	S
5434	POLR2E	8725	C19orf2	L
5436	POLR2G	8859	STK19	L
5439	POLR2J	26574	AATF	L
5441	POLR2L	11007	DIPA	R
5442	POLRMT	51106	TFB1M	L
5442	POLRMT	64216	TFB2M	L
5443	POMC	7448	VTN	L
5449	POU1F1	8856	NR1I2	L
5449	POU1F1	9970	NR1I3	L
5450	POU2AF1	5451	POU2F1	L
5450	POU2AF1	5452	POU2F2	L
5450	POU2AF1	6477	SIAH1	L
5450	POU2AF1	6478	SIAH2	L
5450	POU2AF1	6580	SLC22A1	L
5450	POU2AF1	6582	SLC22A2	L
5450	POU2AF1	10923	SUB1	L
5451	POU2F1	5970	RELA	L
5451	POU2F1	6256	RXRA	L
5451	POU2F1	6621	SNAPC4	L

5451	POU2F1	6657	SOX2	L
5451	POU2F1	6667	SP1	L
5451	POU2F1	6908	TBP	L
5451	POU2F1	9612	NCOR2	L
5452	POU2F2	6908	TBP	L
5454	POU3F2	6664	SOX11	L
5454	POU3F2	10084	PQBP1	L
5455	POU3F3	6664	SOX11	L
5455	POU3F3	23645	PPP1R15A	S
5460	POU5F1	6657	SOX2	L
5464	PPA1	7157	TP53	S
5464	PPA1	9094	UNC119	S
5464	PPA1	9869	SETDB1	S
5464	PPA1	55062	WIPI49	S
5465	PPARA	5970	RELA	L
5465	PPARA	6256	RXRA	L
5465	PPARA	6258	RXRG	S
5465	PPARA	7818	DAP3	L
5465	PPARA	8202	NCOA3	L
5465	PPARA	8204	NRIP1	L
5465	PPARA	8648	NCOA1	L
5465	PPARA	9049	AIP	L
5465	PPARA	9611	NCOR1	L
5465	PPARA	9612	NCOR2	L
5465	PPARA	10062	NR1H3	L
5465	PPARA	10912	GADD45G	L
5465	PPARA	11214	AKAP13	L
5465	PPARA	29982	NRBF2	L
5465	PPARA	85441	PRIC285	L
5465	PPARA	246329	STAC3	R
5467	PPARD	9612	NCOR2	L
5467	PPARD	10912	GADD45G	L
5467	PPARD	51564	HDAC7A	L
5468	PPARG	5469	PPARBP	L
5468	PPARG	6256	RXRA	L
5468	PPARG	6258	RXRG	L
5468	PPARG	8031	NCOA4	L
5468	PPARG	8204	NRIP1	L
5468	PPARG	8431	NROB2	L
5468	PPARG	8648	NCOA1	L
5468	PPARG	8721	EDF1	L
5468	PPARG	8841	HDAC3	L
5468	PPARG	9862	THRAP4	L
5468	PPARG	10499	NCOA2	L
5468	PPARG	10891	PPARGC1A	L
5468	PPARG	10902	BRD8	L
5468	PPARG	10912	GADD45G	L
5468	PPARG	23054	NCOA6	L
5468	PPARG	30836	ERBP	L
5469	PPARBP	5914	RARA	L
5469	PPARBP	6095	RORA	L
5469	PPARBP	6256	RXRA	L
5469	PPARBP	7068	THRB	L
5469	PPARBP	7157	TP53	L
5469	PPARBP	7421	VDR	L
5469	PPARBP	7533	YWHAH	L
5473	PPBP	10063	COX17	S
5473	PPBP	10658	CUGBP1	S
5473	PPBP	23256	SCFD1	S
5473	PPBP	29888	STRN4	S
5473	PPBP	50813	COPS7A	S
5478	PPIA	5530	PPP3CA	L
5478	PPIA	5534	PPP3R1	L
5478	PPIA	5618	PRLR	L
5478	PPIA	5925	RB1	L
5478	PPIA	6279	S100A8	S
5478	PPIA	11098	PRSS23	S

5478	PPIA	20924	(null)	S
5478	PPIA	54458	DKFZp564J157	R
5479	PPIB	5617	PRL	L
5479	PPIB	6776	STAT5A	L
5481	PPID	9001	HAP1	S
5481	PPID	11143	MYST2	S
5493	PPL	6498	SKIL	L
5493	PPL	7431	VIM	L
5493	PPL	23254	KIAA1026	L
5493	PPL	51535	PPHLN1	L
5495	PPM1B	6885	MAP3K7	L
5495	PPM1B	8517	IKBKG	L
5498	PPOX	9001	HAP1	S
5498	PPOX	10989	IMMT	S
5499	PPP1CA	5511	PPP1R8	L
5499	PPP1CA	5514	PPP1R10	L
5499	PPP1CA	5610	EIF2AK2	L
5499	PPP1CA	5925	RB1	L
5499	PPP1CA	6780	STAU	L
5499	PPP1CA	7157	TP53	L
5499	PPP1CA	7159	TP53BP2	L
5499	PPP1CA	7991	TUSC3	L
5499	PPP1CA	8027	STAM	L
5499	PPP1CA	9372	ZFYVE9	L
5499	PPP1CA	9765	ZFYVE16	L
5499	PPP1CA	9858	KIAA0649	L
5499	PPP1CA	10199	MPHOSPH10	L
5499	PPP1CA	10848	PPP1R13L	L
5499	PPP1CA	23189	ANKRD15	L
5499	PPP1CA	23228	PLCL2	L
5499	PPP1CA	23368	PPP1R13B	L
5499	PPP1CA	23645	PPP1R15A	L
5499	PPP1CA	26092	TOR1AIP1	L
5499	PPP1CA	26508	HEYL	L
5499	PPP1CA	54843	SYTL2	L
5499	PPP1CA	57082	CASC5	L
5499	PPP1CA	57683	KIAA1571	L
5499	PPP1CA	57821	C1orf114	L
5499	PPP1CA	64434	NOM1	L
5499	PPP1CA	79660	PPP1R3B	L
5499	PPP1CA	81566	C12orf22	L
5499	PPP1CA	81930	KIF18A	L
5499	PPP1CA	84687	PPP1R9B	L
5499	PPP1CA	84919	PPP1R15B	L
5499	PPP1CA	161742	SPRED1	L
5499	PPP1CA	286262	C9orf75	L
5500	PPP1CB	5747	PTK2	L
5500	PPP1CB	9372	ZFYVE9	L
5500	PPP1CB	54776	PPP1R12C	L
5501	PPP1CC	5504	PPP1R2	L
5501	PPP1CC	5509	PPP1R3D	L
5501	PPP1CC	5610	EIF2AK2	L
5501	PPP1CC	7159	TP53BP2	L
5501	PPP1CC	9372	ZFYVE9	L
5504	PPP1R2	84687	PPP1R9B	L
5510	PPP1R7	284169	(null)	S
5511	PPP1R8	8614	STC2	S
5511	PPP1R8	8726	EED	L
5511	PPP1R8	9869	SETDB1	S
5511	PPP1R8	11161	C14orf1	S
5511	PPP1R8	84060	DKFZP564O0523	S
5515	PPP2CA	5520	PPP2R2A	L
5515	PPP2CA	5526	PPP2R5B	L
5515	PPP2CA	5764	PTN	S
5515	PPP2CA	7157	TP53	L
5515	PPP2CA	9319	TRIP13	R
5515	PPP2CA	51477	ISYNA1	S

5515	PPP2CA	64949	MRPS26	S
5516	PPP2CB	8312	AXIN1	L
5518	PPP2R1A	5523	PPP2R3A	L
5518	PPP2R1A	9372	ZFYVE9	L
5518	PPP2R1A	10425	ARIH2	S
5518	PPP2R1A	28227	PPP2R3B	L
5519	PPP2R1B	5520	PPP2R2A	L
5519	PPP2R1B	5527	PPP2R5C	L
5519	PPP2R1B	10142	AKAP9	L
5523	PPP2R3A	5933	RBL1	L
5525	PPP2R5A	5610	EIF2AK2	L
5525	PPP2R5A	6464	SHC1	L
5525	PPP2R5A	7439	VMD2	L
5526	PPP2R5B	8312	AXIN1	L
5527	PPP2R5C	5580	PRKCD	L
5527	PPP2R5C	8312	AXIN1	L
5528	PPP2R5D	8500	PPFIA1	R
5528	PPP2R5D	9464	HAND2	L
5530	PPP3CA	5534	PPP3R1	L
5530	PPP3CA	5590	PRKCZ	L
5530	PPP3CA	6647	SOD1	L
5530	PPP3CA	9495	AKAP5	L
5530	PPP3CA	23523	CABIN1	L
5530	PPP3CA	23770	FKBP8	L
5530	PPP3CA	51778	MYOZ2	L
5530	PPP3CA	404550	MGC17624	R
5531	PPP4C	5966	REL	L
5531	PPP4C	5970	RELA	L
5531	PPP4C	7114	TMSB4X	L
5531	PPP4C	9989	PPP4R1	L
5531	PPP4C	151987	PPP4R2	L
5532	PPP3CB	9021	SOCS3	L
5532	PPP3CB	23523	CABIN1	L
5532	PPP3CB	51778	MYOZ2	L
5533	PPP3CC	23523	CABIN1	L
5534	PPP3R1	51475	CABP2	L
5536	PPP5C	8881	CDC16	L
5536	PPP5C	8904	CPNE1	L
5536	PPP5C	10672	GNA13	L
5536	PPP5C	131034	CPNE4	L
5536	PPP5C	221184	CPNE2	L
5540	PPYR1	5697	PYY	L
5540	PPYR1	6262	RYR2	L
5540	PPYR1	23645	PPP1R15A	L
5540	PPYR1	84687	PPP1R9B	L
5551	PRF1	57062	DDX24	S
5552	PRG1	6348	CCL3	L
5552	PRG1	6449	SGTA	R
5553	PRG2	84060	DKFZP564O0523	S
5557	PRIM1	23649	POLA2	L
5557	PRIM1	64978	MRPL38	S
5558	PRIM2A	23649	POLA2	L
5562	PRKAA1	10953	TOMM34	L
5563	PRKAA2	6794	STK11	L
5564	PRKAB1	5571	PRKAG1	L
5564	PRKAB1	51422	PRKAG2	L
5565	PRKAB2	5571	PRKAG1	L
5565	PRKAB2	51422	PRKAG2	L
5566	PRKACA	5569	PKIA	L
5566	PRKACA	6262	RYR2	L
5566	PRKACA	9351	SLC9A3R2	L
5566	PRKACA	9464	HAND2	L
5566	PRKACA	51199	NIN	L
5566	PRKACA	158798	AKAP14	L
5567	PRKACB	5569	PKIA	L
5567	PRKACB	5570	PKIB	L
5571	PRKAG1	51422	PRKAG2	L

5573	PRKAR1A	5575	PRKAR1B	L
5573	PRKAR1A	5613	PRKX	L
5573	PRKAR1A	8165	AKAP1	L
5573	PRKAR1A	8852	AKAP4	L
5573	PRKAR1A	10564	ARFGEF2	L
5573	PRKAR1A	11215	AKAP11	L
5573	PRKAR1A	11216	AKAP10	RL
5573	PRKAR1A	29108	PYCARD	R
5573	PRKAR1A	55660	FNBP3	L
5573	PRKAR1A	79666	PLEKHF2	R
5573	PRKAR1A	84281	MGC13057	R
5575	PRKAR1B	7486	WRN	L
5575	PRKAR1B	8165	AKAP1	L
5576	PRKAR2A	5613	PRKX	L
5576	PRKAR2A	6262	RYR2	L
5576	PRKAR2A	6344	SCTR	L
5576	PRKAR2A	6407	SEMG2	L
5576	PRKAR2A	7430	VIL2	L
5576	PRKAR2A	8165	AKAP1	L
5576	PRKAR2A	8936	WASF1	L
5576	PRKAR2A	9472	AKAP6	L
5576	PRKAR2A	9495	AKAP5	L
5576	PRKAR2A	9590	AKAP12	L
5576	PRKAR2A	10142	AKAP9	L
5576	PRKAR2A	10270	AKAP8	L
5576	PRKAR2A	10564	ARFGEF2	L
5576	PRKAR2A	10566	AKAP3	L
5576	PRKAR2A	11214	AKAP13	L
5576	PRKAR2A	11215	AKAP11	L
5576	PRKAR2A	11216	AKAP10	L
5576	PRKAR2A	26960	NBEA	L
5576	PRKAR2A	84073	MYCBPAP	L
5576	PRKAR2A	158798	AKAP14	L
5576	PRKAR2A	445815	PALM2-AKAP2	L
5577	PRKAR2B	8852	AKAP4	L
5577	PRKAR2B	9495	AKAP5	L
5577	PRKAR2B	10142	AKAP9	L
5577	PRKAR2B	11215	AKAP11	L
5577	PRKAR2B	11216	AKAP10	L
5577	PRKAR2B	26960	NBEA	L
5577	PRKAR2B	89876	C3orf15	L
5577	PRKAR2B	158798	AKAP14	L
5578	PRKCA	5879	RAC1	L
5578	PRKCA	5997	RGS2	L
5578	PRKCA	6344	SCTR	L
5578	PRKCA	6406	SEMG1	L
5578	PRKCA	6407	SEMG2	L
5578	PRKCA	6505	SLC1A1	L
5578	PRKCA	6624	FSCN1	L
5578	PRKCA	7011	TEP1	L
5578	PRKCA	7015	TERT	L
5578	PRKCA	7074	TIAM1	L
5578	PRKCA	7157	TP53	L
5578	PRKCA	7430	VIL2	L
5578	PRKCA	7532	YWHAG	L
5578	PRKCA	7534	YWHAZ	L
5578	PRKCA	8436	SDPR	L
5578	PRKCA	8525	DGKZ	L
5578	PRKCA	9138	ARHGEF1	L
5578	PRKCA	9260	PDLIM7	L
5578	PRKCA	9464	HAND2	L
5578	PRKCA	9590	AKAP12	L
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5578	PRKCA	11033	CENTA1	L
5578	PRKCA	23650	TRIM29	L
5578	PRKCA	23704	KCNE4	L
5578	PRKCA	60312	AFAP	L

5579	PRKCB1	5597	MAPK6	L
5579	PRKCB1	5997	RGS2	L
5579	PRKCB1	6709	SPTAN1	L
5579	PRKCB1	7532	YWHAG	L
5579	PRKCB1	9260	PDLIM7	L
5579	PRKCB1	10399	GNB2L1	L
5579	PRKCB1	10611	PDLIM5	L
5579	PRKCB1	10672	GNA13	L
5579	PRKCB1	23613	PRKCBP1	L
5579	PRKCB1	54101	RIPK4	L
5579	PRKCB1	60312	AFAP	L
5580	PRKCD	5591	PRKDC	L
5580	PRKCD	5777	PTPN6	L
5580	PRKCD	6464	SHC1	L
5580	PRKCD	7074	TIAM1	L
5580	PRKCD	7532	YWHAG	L
5580	PRKCD	8754	ADAM9	L
5580	PRKCD	10672	GNA13	L
5580	PRKCD	54101	RIPK4	L
5580	PRKCD	57048	PLSCR3	L
5580	PRKCD	60312	AFAP	L
5581	PRKCE	5594	MAPK1	L
5581	PRKCE	5894	RAF1	L
5581	PRKCE	6622	SNCA	L
5581	PRKCE	6714	SRC	L
5581	PRKCE	7074	TIAM1	L
5581	PRKCE	7416	VDAC1	L
5581	PRKCE	9276	COPB2	L
5581	PRKCE	10399	GNB2L1	L
5581	PRKCE	10611	PDLIM5	L
5581	PRKCE	10672	GNA13	L
5581	PRKCE	60312	AFAP	L
5582	PRKCG	5997	RGS2	L
5582	PRKCG	7074	TIAM1	L
5582	PRKCG	7532	YWHAG	L
5582	PRKCG	10611	PDLIM5	L
5582	PRKCG	60312	AFAP	L
5584	PRKCI	5607	MAP2K5	L
5584	PRKCI	8878	SQSTM1	L
5584	PRKCI	11033	CENTA1	L
5584	PRKCI	23049	SMG1	L
5584	PRKCI	50855	PARD6A	R
5584	PRKCI	84552	PARD6G	L
5585	PKN1	7431	VIM	L
5585	PKN1	10142	AKAP9	L
5585	PKN1	11007	DIPA	R
5585	PKN1	23092	ARHGAP26	L
5585	PKN1	79658	ARHGAP10	L
5586	PKN2	5783	PTPN13	L
5586	PKN2	8440	NCK2	L
5586	PKN2	10746	MAP3K2	L
5587	PRKD1	5599	MAPK8	L
5587	PRKD1	5601	MAPK9	L
5587	PRKD1	10971	YWHAQ	L
5587	PRKD1	11033	CENTA1	L
5588	PRKCQ	7409	VAV1	L
5588	PRKCQ	7532	YWHAG	L
5588	PRKCQ	10539	TXNL2	L
5589	PRKCSH	5788	PTPRC	L
5589	PRKCSH	5997	RGS2	S
5589	PRKCSH	23193	GANAB	L
5589	PRKCSH	51608	C7orf20	S
5590	PRKCZ	5607	MAP2K5	L
5590	PRKCZ	5894	RAF1	L
5590	PRKCZ	5970	RELA	L
5590	PRKCZ	6714	SRC	L
5590	PRKCZ	7189	TRAF6	L

5590	PRKCZ	7529	YWHAB	L
5590	PRKCZ	8471	IRS4	L
5590	PRKCZ	8772	FADD	L
5590	PRKCZ	8878	SQSTM1	L
5590	PRKCZ	9260	PDLIM7	L
5590	PRKCZ	9637	FEZ2	L
5590	PRKCZ	9638	FEZ1	L
5590	PRKCZ	10000	AKT3	L
5590	PRKCZ	11033	CENTA1	L
5590	PRKCZ	23286	KIBRA	L
5590	PRKCZ	50855	PARD6A	RL
5590	PRKCZ	60312	AFAP	L
5590	PRKCZ	84552	PARD6G	L
5591	PRKDC	5599	MAPK8	L
5591	PRKDC	6117	RPA1	L
5591	PRKDC	6118	RPA2	L
5591	PRKDC	7157	TP53	L
5591	PRKDC	7486	WRN	L
5591	PRKDC	8894	EIF2S2	L
5591	PRKDC	10438	C1D	L
5591	PRKDC	10519	CIB1	L
5591	PRKDC	64421	DCLRE1C	L
5592	PRKG1	5997	RGS2	L
5594	MAPK1	5604	MAP2K1	L
5594	MAPK1	5605	MAP2K2	L
5594	MAPK1	5778	PTPN7	L
5594	MAPK1	5794	PTPRH	L
5594	MAPK1	5801	PTPRR	L
5594	MAPK1	6195	RPS6KA1	L
5594	MAPK1	6196	RPS6KA2	L
5594	MAPK1	6197	RPS6KA3	L
5594	MAPK1	6464	SHC1	L
5594	MAPK1	6622	SNCA	L
5594	MAPK1	6623	SNCG	L
5594	MAPK1	6721	SREBF2	L
5594	MAPK1	6776	STAT5A	L
5594	MAPK1	6777	STAT5B	L
5594	MAPK1	7175	TPR	L
5594	MAPK1	7409	VAV1	L
5594	MAPK1	8462	KLF11	L
5594	MAPK1	8550	MAPKAPK5	L
5594	MAPK1	8569	MKNK1	L
5594	MAPK1	8600	TNFSF11	L
5594	MAPK1	8649	MAP2K1IP1	L
5594	MAPK1	8682	PEA15	L
5594	MAPK1	8870	IER3	L
5594	MAPK1	8986	RPS6KA4	L
5594	MAPK1	9149	DYRK1B	L
5594	MAPK1	9759	HDAC4	L
5594	MAPK1	10140	TOB1	L
5594	MAPK1	10318	TNIP1	L
5594	MAPK1	51366	EDD1	L
5594	MAPK1	80824	DUSP16	L
5594	MAPK1	84867	PTPN5	L
5595	MAPK3	5604	MAP2K1	L
5595	MAPK3	5605	MAP2K2	L
5595	MAPK3	5606	MAP2K3	L
5595	MAPK3	5778	PTPN7	L
5595	MAPK3	5801	PTPRR	L
5595	MAPK3	6195	RPS6KA1	L
5595	MAPK3	6196	RPS6KA2	L
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5595	MAPK3	6623	SNCG	L
5595	MAPK3	6689	SPIB	L
5595	MAPK3	6721	SREBF2	L
5595	MAPK3	6887	TAL2	L
5595	MAPK3	7054	TH	L

5595	MAPK3	7157	TP53	L
5595	MAPK3	8600	TNFSF11	L
5595	MAPK3	8649	MAP2K1IP1	L
5595	MAPK3	8682	PEA15	L
5595	MAPK3	8870	IER3	L
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5595	MAPK3	9759	HDAC4	L
5595	MAPK3	10174	SORBS3	L
5595	MAPK3	84867	PTPN5	L
5598	MAPK7	5607	MAP2K5	L
5598	MAPK7	5801	PTPRR	L
5598	MAPK7	5894	RAF1	L
5598	MAPK7	6446	SGK	L
5598	MAPK7	7529	YWHAB	L
5599	MAPK8	5609	MAP2K7	L
5599	MAPK8	5966	REL	L
5599	MAPK8	6416	MAP2K4	L
5599	MAPK8	6623	SNCG	L
5599	MAPK8	6689	SPIB	L
5599	MAPK8	6885	MAP3K7	L
5599	MAPK8	7157	TP53	L
5599	MAPK8	8518	IKBKAP	L
5599	MAPK8	8600	TNFSF11	L
5599	MAPK8	9043	SPAG9	L
5599	MAPK8	9318	COPS2	L
5599	MAPK8	9466	IL27RA	L
5599	MAPK8	9467	SH3BP5	L
5599	MAPK8	9479	MAPK8IP1	L
5599	MAPK8	10746	MAP3K2	L
5599	MAPK8	23542	MAPK8IP2	L
5599	MAPK8	80824	DUSP16	L
5600	MAPK11	8841	HDAC3	L
5600	MAPK11	80824	DUSP16	L
5601	MAPK9	5925	RB1	L
5601	MAPK9	7157	TP53	L
5601	MAPK9	7186	TRAF2	L
5601	MAPK9	7511	XPNPEP1	S
5601	MAPK9	7597	ZBTB25	R
5601	MAPK9	8550	MAPKAPK5	L
5601	MAPK9	9467	SH3BP5	L
5601	MAPK9	10262	SF3B4	R
5601	MAPK9	11016	ATF7	L
5601	MAPK9	23039	XPO7	S
5601	MAPK9	57562	KIAA1377	S
5601	MAPK9	80817	KIAA1712	R
5601	MAPK9	80824	DUSP16	L
5601	MAPK9	284403	WDR62	R
5602	MAPK10	7157	TP53	L
5602	MAPK10	9094	UNC119	S
5602	MAPK10	9467	SH3BP5	L
5602	MAPK10	80824	DUSP16	L
5603	MAPK13	7867	MAPKAPK3	L
5603	MAPK13	8550	MAPKAPK5	L
5603	MAPK13	23542	MAPK8IP2	L
5604	MAP2K1	5894	RAF1	L
5604	MAP2K1	6196	RPS6KA2	L
5604	MAP2K1	7187	TRAF3	L
5604	MAP2K1	8649	MAP2K1IP1	L
5604	MAP2K1	8904	CPNE1	L
5604	MAP2K1	131034	CPNE4	L
5604	MAP2K1	157310	PEBP4	L
5605	MAP2K2	5894	RAF1	L
5605	MAP2K2	8649	MAP2K1IP1	L
5606	MAP2K3	23542	MAPK8IP2	L
5608	MAP2K6	6885	MAP3K7	L
5609	MAP2K7	7786	MAP3K12	L
5609	MAP2K7	9479	MAPK8IP1	L

5609	MAP2K7	10746	MAP3K2	L
5609	MAP2K7	23542	MAPK8IP2	L
5609	MAP2K7	51776	ZAK	L
5610	EIF2AK2	5611	DNAJC3	L
5610	EIF2AK2	6772	STAT1	L
5610	EIF2AK2	6774	STAT3	L
5610	EIF2AK2	6895	TARBP2	L
5610	EIF2AK2	7157	TP53	L
5610	EIF2AK2	8575	PRKRA	L
5610	EIF2AK2	10728	PTGES3	L
5610	EIF2AK2	10988	METAP2	L
5610	EIF2AK2	79706	PRKRIP1	L
5610	EIF2AK2	114609	TIRAP	L
5611	DNAJC3	5612	PRKRIR	L
5611	DNAJC3	9451	EIF2AK3	L
5612	PRKRIR	6789	STK4	L
5617	PRL	5618	PRLR	L
5618	PRLR	5781	PTPN11	L
5618	PRLR	7006	TEC	L
5618	PRLR	7409	VAV1	L
5618	PRLR	7535	ZAP70	L
5618	PRLR	8835	SOCS2	L
5618	PRLR	9021	SOCS3	L
5621	PRNP	7917	BAT3	S
5621	PRNP	10963	STIP1	L
5623	PSPN	64096	GFRA4	L
5624	PROC	5627	PROS1	L
5624	PROC	7056	THBD	L
5624	PROC	10544	PROCR	L
5626	PROP1	8820	HESX1	L
5627	PROS1	7301	TYRO3	L
5630	PRPH	5961	RDS	L
5631	PRPS1	5635	PRPSAP1	RL
5631	PRPS1	26003	GORASP2	R
5631	PRPS1	51324	SPG21	R
5634	PRPS2	5635	PRPSAP1	L
5635	PRPSAP1	11269	DDX19B	S
5635	PRPSAP1	79666	PLEKHF2	R
5636	PRPSAP2	284131	FLJ35220	S
5639	PRRG2	5829	PXN	L
5639	PRRG2	7414	VCL	L
5644	PRSS1	7263	TST	L
5644	PRSS1	11005	SPINK5	L
5645	PRSS2	6590	SLPI	L
5646	PRSS3	7035	TFPI	L
5649	RELN	7436	VLDLR	L
5649	RELN	7804	LRP8	L
5651	PRSS7	6690	SPINK1	L
5652	PRSS8	55729	ATF7IP	L
5654	HTRA1	55603	FAM46A	L
5655	KLK10	55791	C1orf103	S
5657	PRTN3	7124	TNF	L
5660	PSAP	9620	CELSR1	S
5660	PSAP	10980	COPS6	S
5660	PSAP	23764	MAFF	S
5660	PSAP	157285	DKFZp761P0423	S
5662	PSD	9535	GMFG	S
5662	PSD	10681	GNB5	S
5662	PSD	57799	RAB40C	S
5662	PSD	162952	(null)	S
5662	PSD	284004	FLJ23825	S
5663	PSEN1	6134	RPL10	L
5663	PSEN1	6934	TCF7L2	L
5663	PSEN1	7087	ICAM5	L
5663	PSEN1	8502	PKP4	L
5663	PSEN1	8766	RAB11A	L
5663	PSEN1	9709	HERPUD1	L

5663	PSEN1	10519	CIB1	L
5663	PSEN1	10730	YME1L1	L
5663	PSEN1	23385	NCSTN	L
5663	PSEN1	23621	BACE1	L
5663	PSEN1	29979	UBQLN1	L
5663	PSEN1	30818	CSEN	L
5663	PSEN1	51107	APH1A	L
5663	PSEN1	55294	FBXW7	L
5663	PSEN1	55798	METTTL2	L
5663	PSEN1	55851	PSENEEN	L
5663	PSEN1	83464	APH1B	L
5664	PSEN2	6717	SRI	L
5664	PSEN2	7087	ICAM5	L
5664	PSEN2	10519	CIB1	L
5664	PSEN2	23385	NCSTN	L
5664	PSEN2	29979	UBQLN1	L
5664	PSEN2	30818	CSEN	L
5664	PSEN2	51107	APH1A	L
5664	PSEN2	55798	METTTL2	L
5664	PSEN2	55851	PSENEEN	L
5664	PSEN2	83464	APH1B	L
5669	PSG1	10813	UTP14A	S
5671	PSG3	6498	SKIL	L
5671	PSG3	25865	PRKD2	L
5671	PSG3	55603	FAM46A	L
5671	PSG3	55729	ATF7IP	L
5673	PSG5	55660	FBNP3	L
5678	PSG9	5782	PTPN12	L
5678	PSG9	55791	C1orf103	S
5682	PSMA1	5688	PSMA7	L
5682	PSMA1	7431	VIM	R
5682	PSMA1	9111	NMI	R
5682	PSMA1	10241	NDP52	R
5682	PSMA1	10301	DLEU1	S
5682	PSMA1	11007	DIPA	R
5682	PSMA1	25788	RAD54B	R
5682	PSMA1	54550	EFCBP2	R
5682	PSMA1	79096	MGC4707	S
5682	PSMA1	79734	KCTD17	R
5682	PSMA1	81628	TSC22D4	R
5683	PSMA2	5685	PSMA4	L
5683	PSMA2	5688	PSMA7	L
5683	PSMA2	5699	PSMB10	L
5683	PSMA2	7414	VCL	L
5684	PSMA3	5687	PSMA6	S
5684	PSMA3	5688	PSMA7	L
5684	PSMA3	6628	SNRPB	S
5684	PSMA3	6636	SNRPF	S
5684	PSMA3	7916	BAT2	L
5684	PSMA3	8676	STX11	S
5684	PSMA3	22803	XRN2	L
5685	PSMA4	5688	PSMA7	L
5687	PSMA6	5688	PSMA7	L
5688	PSMA7	5700	PSMC1	L
5689	PSMB1	7414	VCL	L
5689	PSMB1	118460	EXOSC6	L
5689	PSMB1	167227	DCP2	L
5693	PSMB5	27257	LSM1	L
5695	PSMB7	10436	C2F	S
5696	PSMB8	27257	LSM1	L
5698	PSMB9	5699	PSMB10	L
5699	PSMB10	5764	PTN	S
5700	PSMC1	5701	PSMC2	L
5700	PSMC1	5708	PSMD2	RL
5700	PSMC1	5711	PSMD5	L
5700	PSMC1	5713	PSMD7	L
5700	PSMC1	6314	ATXN7	L

5700	PSMC1	7415	VCP	L
5700	PSMC1	11007	DIPA	R
5701	PSMC2	5704	PSMC4	L
5701	PSMC2	5708	PSMD2	L
5701	PSMC2	5711	PSMD5	RL
5701	PSMC2	6498	SKIL	L
5701	PSMC2	6908	TBP	L
5701	PSMC2	81488	GRINL1A	S
5702	PSMC3	5704	PSMC4	L
5702	PSMC3	5705	PSMC5	L
5702	PSMC3	7428	VHL	L
5702	PSMC3	8676	STX11	S
5702	PSMC3	10587	TXNRD2	L
5704	PSMC4	5705	PSMC5	R
5704	PSMC4	5716	PSMD10	RL
5705	PSMC5	6095	RORA	R
5705	PSMC5	6667	SP1	L
5705	PSMC5	7068	THRB	L
5705	PSMC5	7138	TNNT1	R
5706	PSMC6	5715	PSMD9	R
5706	PSMC6	11007	DIPA	R
5706	PSMC6	127703	FLJ38984	R
5708	PSMD2	5711	PSMD5	L
5708	PSMD2	5764	PTN	S
5708	PSMD2	7132	TNFRSF1A	L
5708	PSMD2	7704	ZBTB16	S
5708	PSMD2	9094	UNC119	S
5708	PSMD2	55791	C1orf103	S
5708	PSMD2	134510	UBLCP1	R
5710	PSMD4	5886	RAD23A	L
5710	PSMD4	5887	RAD23B	L
5710	PSMD4	6929	TCF3	L
5710	PSMD4	11228	RASSF8	R
5710	PSMD4	29978	UBQLN2	L
5710	PSMD4	51667	NYREN18	L
5713	PSMD7	5861	RAB1A	S
5714	PSMD8	51377	UCHL5	L
5715	PSMD9	6929	TCF3	L
5717	PSMD11	5764	PTN	S
5717	PSMD11	5796	PTPRK	S
5717	PSMD11	7088	TLE1	S
5717	PSMD11	7157	TP53	S
5717	PSMD11	7280	TUBB2	S
5717	PSMD11	7704	ZBTB16	S
5717	PSMD11	9001	HAP1	S
5717	PSMD11	9094	UNC119	S
5717	PSMD11	9869	SETDB1	S
5717	PSMD11	10980	COPS6	S
5717	PSMD11	11244	ZHX1	S
5717	PSMD11	29117	BRD7	S
5717	PSMD11	51003	MED31	S
5717	PSMD11	54462	KIAA1128	S
5717	PSMD11	55791	C1orf103	S
5717	PSMD11	60492	MDS025	S
5717	PSMD11	84060	DKFZP564O0523	S
5717	PSMD11	84966	IGSF21	S
5717	PSMD11	222019	(null)	S
5720	PSME1	5721	PSME2	RL
5720	PSME1	7414	VCL	S
5720	PSME1	7431	VIM	S
5720	PSME1	10383	TUBB2	S
5720	PSME1	10436	C2F	S
5720	PSME1	23326	USP22	S
5724	PTAFR	5999	RGS4	L
5725	PTBP1	5829	PXN	L
5725	PTBP1	6421	SFPQ	L
5725	PTBP1	6626	SNRPA	R

5725	PTBP1	8570	KHSRP	L
5725	PTBP1	10241	NDP52	R
5725	PTBP1	125950	RAVER1	L
5727	PTCH	6469	SHH	L
5727	PTCH	6608	SMO	L
5727	PTCH	28996	HIPK2	L
5727	PTCH	50846	DHH	L
5728	PTEN	5747	PTK2	L
5728	PTEN	5829	PXN	L
5728	PTEN	7157	TP53	L
5728	PTEN	7332	UBE2L3	L
5728	PTEN	9961	MVP	L
5728	PTEN	10813	UTP14A	S
5728	PTEN	10980	COPS6	S
5728	PTEN	260425	MAGI3	L
5730	PTGDS	5737	PTGFR	L
5739	PTGIR	55811	SAC	L
5741	PTH	5745	PTHR1	L
5741	PTH	5746	PTHR2	L
5741	PTH	7917	BAT3	S
5741	PTH	9638	FEZ1	S
5743	PTGS2	7157	TP53	L
5744	PTHLH	5745	PTHR1	L
5745	PTHR1	9351	SLC9A3R2	L
5745	PTHR1	9368	SLC9A3R1	L
5747	PTK2	5781	PTPN11	L
5747	PTK2	5782	PTPN12	L
5747	PTK2	5794	PTPRH	L
5747	PTK2	6401	SELE	L
5747	PTK2	6464	SHC1	L
5747	PTK2	6714	SRC	L
5747	PTK2	6772	STAT1	L
5747	PTK2	6850	SYK	L
5747	PTK2	7041	TGFB111	L
5747	PTK2	7094	TLN1	L
5747	PTK2	7205	TRIP6	L
5747	PTK2	7430	VIL2	L
5747	PTK2	8440	NCK2	L
5747	PTK2	8835	SOCS2	R
5747	PTK2	9140	ATG12	R
5747	PTK2	9564	BCAR1	L
5747	PTK2	9821	RB1CC1	L
5747	PTK2	10278	EFS	L
5747	PTK2	10519	CIB1	L
5747	PTK2	23092	ARHGAP26	L
5747	PTK2	28964	GIT1	L
5747	PTK2	50807	DDEF1	L
5747	PTK2	64780	MICAL1	L
5753	PTK6	10657	KHDRBS1	L
5753	PTK6	55620	STAP2	L
5757	PTMA	5901	RAN	L
5757	PTMA	6418	SET	L
5757	PTMA	7433	VIPR1	L
5757	PTMA	8290	HIST3H3	L
5757	PTMA	8349	HIST2H2BE	L
5757	PTMA	8359	HIST1H4A	L
5757	PTMA	9611	NCOR1	L
5757	PTMA	11331	PHB2	L
5757	PTMA	23636	NUP62	L
5757	PTMA	25942	SIN3A	L
5763	PTMS	51608	C7orf20	S
5764	PTN	5787	PTPRB	L
5764	PTN	5802	PTPRS	S
5764	PTN	5803	PTPRZ1	L
5764	PTN	6016	RIT1	S
5764	PTN	6176	RPLP1	S
5764	PTN	6303	SAT	S

5764	PTN	6382	SDC1	L
5764	PTN	6449	SGTA	S
5764	PTN	6745	SSR1	S
5764	PTN	6866	TAC3	S
5764	PTN	7159	TP53BP2	S
5764	PTN	8195	MKKS	S
5764	PTN	8614	STC2	S
5764	PTN	8665	EIF3S5	S
5764	PTN	9238	TBRG4	S
5764	PTN	9587	MAD2L1BP	S
5764	PTN	9627	SNCAIP	S
5764	PTN	9672	SDC3	L
5764	PTN	9804	TOMM20	S
5764	PTN	9905	RUTBC1	S
5764	PTN	9913	SUPT7L	S
5764	PTN	10190	TXNDC9	S
5764	PTN	10249	GLYAT	S
5764	PTN	10399	GNB2L1	S
5764	PTN	10406	WFDC2	S
5764	PTN	10425	ARIH2	S
5764	PTN	10927	SPIN	S
5764	PTN	11243	PMF1	S
5764	PTN	11266	DUSP12	S
5764	PTN	23654	PLXNB2	S
5764	PTN	26292	MYCBP	S
5764	PTN	50618	ITSN2	S
5764	PTN	51019	CGI-116	S
5764	PTN	51236	C8orf30A	S
5764	PTN	51631	LUC7L2	S
5764	PTN	51726	DNAJB11	S
5764	PTN	54544	C1orf42	S
5764	PTN	54622	ARFRP2	S
5764	PTN	54810	GIPC2	S
5764	PTN	55147	RBM23	S
5764	PTN	55186	SLC25A36	S
5764	PTN	55643	BTBD2	S
5764	PTN	55755	CDK5RAP2	S
5764	PTN	56647	BCCIP	S
5764	PTN	56893	UBQLN4	S
5764	PTN	57050	SAS10	S
5764	PTN	60489	APOBEC3G	S
5764	PTN	78987	CRELD1	S
5764	PTN	79101	MGC5306	S
5764	PTN	79663	HSPBAP1	S
5764	PTN	79886	C9orf82	S
5764	PTN	84141	FLJ13391	S
5764	PTN	266812	NAP1L5	S
5770	PTPN1	7297	TYK2	L
5770	PTPN1	9564	BCAR1	L
5770	PTPN1	22800	RRAS2	L
5771	PTPN2	6774	STAT3	L
5774	PTPN3	7529	YWHAB	L
5774	PTPN3	25865	PRKD2	L
5774	PTPN3	57473	GM632	L
5775	PTPN4	10524	HTATIP	S
5775	PTPN4	23140	ZZEF1	S
5777	PTPN6	5788	PTPRC	L
5777	PTPN6	6098	ROS1	L
5777	PTPN6	6752	SSTR2	L
5777	PTPN6	6777	STAT5B	L
5777	PTPN6	6850	SYK	L
5777	PTPN6	7132	TNFRSF1A	L
5777	PTPN6	7297	TYK2	L
5777	PTPN6	7409	VAV1	L
5777	PTPN6	7535	ZAP70	L
5777	PTPN6	7852	CXCR4	L
5777	PTPN6	8471	IRS4	L

5777	PTPN6	9846	GAB2	L
5777	PTPN6	29760	BLNK	L
5777	PTPN6	29992	PILRA	L
5777	PTPN6	50856	CLEC4A	L
5777	PTPN6	55824	PAG1	L
5777	PTPN6	80021	TMEM62	S
5777	PTPN6	80739	C6orf25	L
5777	PTPN6	114132	SIGLEC11	L
5777	PTPN6	114836	SLAMF6	L
5777	PTPN6	140885	PTPNS1	L
5777	PTPN6	151888	BTLA	L
5777	PTPN6	340205	TREML1	L
5780	PTPN9	10313	RTN3	R
5781	PTPN11	5829	PXN	L
5781	PTPN11	6401	SELE	L
5781	PTPN11	6464	SHC1	L
5781	PTPN11	6504	SLAMF1	L
5781	PTPN11	6774	STAT3	L
5781	PTPN11	6776	STAT5A	L
5781	PTPN11	7010	TEK	L
5781	PTPN11	7075	TIE1	L
5781	PTPN11	7094	TLN1	L
5781	PTPN11	7132	TNFRSF1A	L
5781	PTPN11	8471	IRS4	L
5781	PTPN11	8660	IRS2	L
5781	PTPN11	9019	MPZL1	L
5781	PTPN11	10817	FRS3	L
5781	PTPN11	10818	FRS2	L
5781	PTPN11	27036	SIGLEC7	L
5781	PTPN11	27240	SIT1	L
5781	PTPN11	29992	PILRA	L
5781	PTPN11	55824	PAG1	L
5781	PTPN11	80739	C6orf25	L
5781	PTPN11	114132	SIGLEC11	L
5781	PTPN11	114836	SLAMF6	L
5781	PTPN11	139716	GAB3	L
5781	PTPN11	151888	BTLA	L
5781	PTPN11	340205	TREML1	L
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5782	PTPN12	6464	SHC1	L
5782	PTPN12	7041	TGFB111	L
5782	PTPN12	7402	UTRN	L
5782	PTPN12	7917	BAT3	L
5782	PTPN12	8675	STX16	L
5782	PTPN12	9051	PSTPIP1	L
5782	PTPN12	9564	BCAR1	L
5782	PTPN12	9904	RBM19	L
5782	PTPN12	10278	EFS	L
5782	PTPN12	54881	TEX10	L
5782	PTPN12	80108	ZFP2	L
5782	PTPN12	83591	THAP2	L
5782	PTPN12	90410	IFT20	L
5783	PTPN13	7205	TRIP6	L
5783	PTPN13	9411	ARHGAP29	L
5783	PTPN13	51735	RAPGEF6	L
5784	PTPN14	7082	TJP1	L
5787	PTPRB	8506	CNTNAP1	L
5787	PTPRB	260425	MAGI3	L
5788	PTPRC	5790	PTPRCAP	L
5788	PTPRC	5921	RASA1	L
5788	PTPRC	7409	VAV1	L
5788	PTPRC	7535	ZAP70	L
5788	PTPRC	8495	PPFIBP2	L
5788	PTPRC	8631	SCAP1	L
5788	PTPRC	10507	SEMA4D	L
5788	PTPRC	23193	GANAB	L
5788	PTPRC	26994	RNF11	L

5788	PTPRC	27257	LSM1	L
5789	PTPRD	5802	PTPRS	L
5789	PTPRD	8499	PPFIA2	L
5789	PTPRD	8500	PPFIA1	L
5789	PTPRD	8541	PPFIA3	L
5791	PTPRE	7094	TLN1	L
5792	PTPRF	5979	RET	L
5792	PTPRF	6498	SKIL	L
5792	PTPRF	7204	TRIO	L
5792	PTPRF	8499	PPFIA2	L
5792	PTPRF	8500	PPFIA1	L
5792	PTPRF	8541	PPFIA3	L
5792	PTPRF	9564	BCAR1	L
5792	PTPRF	10818	FRS2	L
5792	PTPRF	55660	FNBP3	L
5792	PTPRF	57473	GM632	L
5794	PTPRH	5829	PXN	L
5794	PTPRH	9564	BCAR1	L
5795	PTPRJ	6386	SDCBP	L
5795	PTPRJ	8878	SQSTM1	L
5795	PTPRJ	27040	LAT	L
5796	PTPRK	7083	TK1	S
5796	PTPRK	51064	(null)	S
5797	PTPRM	10399	GNB2L1	L
5798	PTPRN	6645	SNTB2	L
5798	PTPRN	57731	SPTBN4	L
5799	PTPRN2	9793	CKAP5	L
5799	PTPRN2	57731	SPTBN4	L
5802	PTPRS	7280	TUBB2	S
5802	PTPRS	8499	PPFIA2	L
5802	PTPRS	8500	PPFIA1	L
5802	PTPRS	8541	PPFIA3	L
5802	PTPRS	9094	UNC119	S
5802	PTPRS	9638	FEZ1	S
5802	PTPRS	9869	SETDB1	S
5802	PTPRS	10524	HTATIP	S
5802	PTPRS	10813	UTP14A	S
5802	PTPRS	11021	RAB35	S
5802	PTPRS	25843	PREI3	S
5802	PTPRS	57562	KIAA1377	S
5802	PTPRS	197131	UBR1	S
5802	PTPRS	222019	(null)	S
5802	PTPRS	284169	(null)	S
5810	RAD1	5883	RAD9A	L
5810	RAD1	5884	RAD17	L
5810	RAD1	7266	DNAJC7	L
5810	RAD1	81631	MAP1LC3B	S
5813	PURA	6667	SP1	L
5813	PURA	11033	CENTA1	L
5817	PVR	6990	TCTE1L	L
5817	PVR	7448	VTN	L
5817	PVR	10053	AP1M2	L
5817	PVR	25945	PVRL3	L
5818	PVRL1	56288	PARD3	L
5819	PVRL2	9551	ATP5J2	S
5822	PWP2H	10040	TOM1L1	S
5824	PEX19	5825	ABCD3	L
5824	PEX19	8504	PEX3	RL
5824	PEX19	8799	PEX11B	L
5824	PEX19	8800	PEX11A	L
5824	PEX19	9409	PEX16	L
5824	PEX19	10478	SLC25A17	L
5826	ABCD4	8682	PEA15	S
5826	ABCD4	10301	DLEU1	S
5826	ABCD4	51669	TMEM66	S
5828	PXMP3	5830	PEX5	L
5828	PXMP3	7088	TLE1	S

5828	PXMP3	11161	C14orf1	S
5829	PXN	5921	RASA1	L
5829	PXN	6122	RPL3	L
5829	PXN	6124	RPL4	L
5829	PXN	6125	RPL5	L
5829	PXN	6128	RPL6	L
5829	PXN	6129	RPL7	L
5829	PXN	6132	RPL8	L
5829	PXN	6133	RPL9	L
5829	PXN	6134	RPL10	L
5829	PXN	6135	RPL11	L
5829	PXN	6137	RPL13	L
5829	PXN	6138	RPL15	L
5829	PXN	6139	RPL17	L
5829	PXN	6143	RPL19	L
5829	PXN	6144	RPL21	L
5829	PXN	6146	RPL22	L
5829	PXN	6154	RPL26	L
5829	PXN	6155	RPL27	L
5829	PXN	6158	RPL28	L
5829	PXN	6159	RPL29	L
5829	PXN	6169	RPL38	L
5829	PXN	6175	RPLP0	L
5829	PXN	6181	RPLP2	L
5829	PXN	6194	RPS6	L
5829	PXN	6201	RPS7	L
5829	PXN	6228	RPS23	L
5829	PXN	6229	RPS24	L
5829	PXN	6232	RPS27	L
5829	PXN	6238	RRBP1	L
5829	PXN	6401	SELE	L
5829	PXN	6421	SFPQ	L
5829	PXN	6428	SFRS3	L
5829	PXN	6520	SLC3A2	L
5829	PXN	6714	SRC	L
5829	PXN	6742	SSBP1	L
5829	PXN	6850	SYK	L
5829	PXN	7024	TFCP2	L
5829	PXN	7041	TGFB111	L
5829	PXN	7052	TGM2	L
5829	PXN	7094	TLN1	L
5829	PXN	7108	TM7SF2	L
5829	PXN	7112	TMPO	L
5829	PXN	7205	TRIP6	L
5829	PXN	7278	TUBA2	L
5829	PXN	7283	TUBG1	L
5829	PXN	7414	VCL	L
5829	PXN	7431	VIM	L
5829	PXN	7520	XRCC5	L
5829	PXN	7534	YWHAZ	L
5829	PXN	7846	TUBA3	L
5829	PXN	8091	HMGA2	L
5829	PXN	8815	BANF1	L
5829	PXN	8853	DDEF2	L
5829	PXN	9045	RPL14	L
5829	PXN	9185	REPS2	L
5829	PXN	9349	RPL23	L
5829	PXN	9815	GIT2	L
5829	PXN	9961	MVP	L
5829	PXN	10146	G3BP	L
5829	PXN	10157	AASS	L
5829	PXN	10163	WASF2	L
5829	PXN	10376	K-ALPHA-1	L
5829	PXN	10383	TUBB2	L
5829	PXN	10466	COG5	L
5829	PXN	10620	ARID3B	L
5829	PXN	10970	CKAP4	L

5829	PXN	26986	PABPC1	L
5829	PXN	27175	TUBG2	L
5829	PXN	28964	GIT1	L
5829	PXN	51164	DCTN4	L
5829	PXN	51807	TUBA8	L
5829	PXN	55338	FLJ11292	L
5829	PXN	55567	DNAH3	L
5829	PXN	64780	MICAL1	L
5829	PXN	91662	NALP12	L
5829	PXN	114787	KIAA1893	L
5829	PXN	116840	LIP8	L
5829	PXN	118813	ZFYVE27	L
5829	PXN	146053	LOC146053	L
5829	PXN	151887	URB	L
5829	PXN	203068	TUBB	L
5830	PEX5	8528	DDO	L
5830	PEX5	10073	RNUT1	S
5830	PEX5	23410	SIRT3	R
5833	PCYT2	79831	FLJ13798	R
5837	PYGM	6271	S100A1	L
5858	PZP	7040	TGFB1	L
5858	PZP	7042	TGFB2	L
5859	QARS	7186	TRAF2	R
5859	QARS	7916	BAT2	L
5859	QARS	8446	DUSP11	S
5859	QARS	8895	CPNE3	S
5859	QARS	26994	RNF11	L
5861	RAB1A	6624	FSCN1	S
5861	RAB1A	6861	SYT5	S
5861	RAB1A	8615	VDP	L
5861	RAB1A	9950	GOLGA5	L
5861	RAB1A	10567	RABAC1	RL
5861	RAB1A	22924	MAPRE3	S
5861	RAB1A	23539	SLC16A8	S
5861	RAB1A	26003	GORASP2	L
5861	RAB1A	51042	ZNF593	S
5861	RAB1A	55312	RFK	S
5861	RAB1A	79735	TBC1D17	S
5861	RAB1A	85377	MICAL-L1	L
5862	RAB2	26003	GORASP2	L
5862	RAB2	196472	MGC39520	R
5863	RGL2	5908	RAP1B	L
5863	RGL2	9094	UNC119	S
5863	RGL2	10524	HTATIP	S
5863	RGL2	11143	MYST2	S
5863	RGL2	60492	MDS025	S
5864	RAB3A	5866	RAB3IL1	L
5864	RAB3A	5876	RABGGTB	L
5864	RAB3A	5877	RABIF	L
5864	RAB3A	8573	CASK	L
5864	RAB3A	9501	RPH3AL	L
5864	RAB3A	9699	RIMS2	L
5864	RAB3A	10567	RABAC1	L
5864	RAB3A	22999	RIMS1	L
5864	RAB3A	23312	DMXL2	L
5864	RAB3A	94121	SYTL4	L
5864	RAB3A	94122	SYTL5	L
5864	RAB3A	117177	RAB3IP	L
5865	RAB3B	9501	RPH3AL	L
5865	RAB3B	9699	RIMS2	L
5866	RAB3IL1	8766	RAB11A	R
5866	RAB3IL1	79873	NUDT18	R
5866	RAB3IL1	117177	RAB3IP	R
5867	RAB4A	6648	SOD2	S
5867	RAB4A	6810	STX4A	L
5867	RAB4A	7157	TP53	S
5867	RAB4A	8655	DNCL1	L

5867	RAB4A	9135	RABEP1	L
5867	RAB4A	9371	KIF3B	L
5867	RAB4A	10307	APBB3	S
5867	RAB4A	10567	RABAC1	L
5867	RAB4A	23607	CD2AP	L
5867	RAB4A	27342	RABGEF1	L
5867	RAB4A	51143	DNCLI1	L
5867	RAB4A	80223	RAB11FIP1	L
5868	RAB5A	6810	STX4A	L
5868	RAB5A	7249	TSC2	L
5868	RAB5A	8411	EEA1	L
5868	RAB5A	9135	RABEP1	L
5868	RAB5A	9610	RIN1	L
5868	RAB5A	9712	USP6NL	L
5868	RAB5A	10567	RABAC1	L
5868	RAB5A	84218	TBC1D3	L
5868	RAB5A	259173	ALS2CL	L
5868	RAB5A	326624	RAB37	L
5869	RAB5B	7037	TFRC	L
5869	RAB5B	8411	EEA1	L
5869	RAB5B	9610	RIN1	L
5869	RAB5B	79890	RIN3	L
5870	RAB6A	10112	KIF20A	L
5870	RAB6A	10567	RABAC1	L
5870	RAB6A	23299	BICD2	L
5870	RAB6A	94122	SYTL5	L
5871	MAP4K2	7186	TRAF2	L
5873	RAB27A	6804	STX1A	L
5873	RAB27A	7704	ZBTB16	S
5873	RAB27A	9501	RPH3AL	L
5873	RAB27A	10980	COPS6	S
5873	RAB27A	11161	C14orf1	S
5873	RAB27A	54843	SYTL2	L
5873	RAB27A	55791	C1orf103	S
5873	RAB27A	57562	KIAA1377	S
5873	RAB27A	79083	MLPH	L
5873	RAB27A	84060	DKFZP564O0523	S
5873	RAB27A	94121	SYTL4	L
5873	RAB27A	94122	SYTL5	L
5873	RAB27A	201294	UNC13D	L
5874	RAB27B	9501	RPH3AL	L
5874	RAB27B	79083	MLPH	L
5874	RAB27B	94121	SYTL4	L
5874	RAB27B	201294	UNC13D	L
5876	RABGGTB	8073	PTP4A2	L
5877	RABIF	10542	HBXIP	S
5877	RABIF	10813	UTP14A	S
5877	RABIF	56267	KAT3	S
5877	RABIF	376267	RAB15	L
5878	RAB5C	8411	EEA1	L
5878	RAB5C	10567	RABAC1	L
5878	RAB5C	79890	RIN3	L
5879	RAC1	5910	RAP1GDS1	L
5879	RAC1	6774	STAT3	L
5879	RAC1	7074	TIAM1	L
5879	RAC1	7204	TRIO	L
5879	RAC1	7277	TUBA1	L
5879	RAC1	7454	WAS	L
5879	RAC1	8826	IQGAP1	L
5879	RAC1	8871	SYNJ2	L
5879	RAC1	9181	ARHGEF2	L
5879	RAC1	10451	VAV3	L
5879	RAC1	10458	BAIAP2	L
5879	RAC1	10788	IQGAP2	L
5879	RAC1	10928	RALBP1	L
5879	RAC1	23191	CYFIP1	L
5879	RAC1	23463	ICMT	L

5879	RAC1	23616	SH3BP1	L
5879	RAC1	23647	ARFIP2	L
5879	RAC1	29109	FHOD1	L
5879	RAC1	50619	DEF6	L
5879	RAC1	50855	PARD6A	L
5879	RAC1	51495	HSPC121	L
5879	RAC1	55843	ARHGAP15	L
5879	RAC1	57144	PAK7	L
5879	RAC1	81704	DOCK8	L
5879	RAC1	84218	TBC1D3	L
5879	RAC1	84552	PARD6G	L
5880	RAC2	8454	CUL1	L
5880	RAC2	23463	ICMT	L
5880	RAC2	23647	ARFIP2	L
5880	RAC2	50619	DEF6	L
5881	RAC3	6927	TCF1	L
5881	RAC3	10519	CIB1	L
5881	RAC3	29959	NRBP	L
5883	RAD9A	5884	RAD17	L
5883	RAD9A	7266	DNAJC7	L
5883	RAD9A	11073	TOPBP1	L
5883	RAD9A	11200	CHEK2	L
5883	RAD9A	50618	ITSN2	L
5883	RAD9A	63967	CLSPN	L
5884	RAD17	5982	RFC2	L
5884	RAD17	5983	RFC3	L
5884	RAD17	5984	RFC4	L
5884	RAD17	5985	RFC5	L
5885	RAD21	8467	SMARCA5	L
5885	RAD21	10274	STAG1	L
5885	RAD21	10735	STAG2	L
5886	RAD23A	6184	RPN1	L
5886	RAD23A	7186	TRAF2	R
5886	RAD23A	7508	XPC	L
5886	RAD23A	8878	SQSTM1	R
5886	RAD23A	84993	UBL7	R
5887	RAD23B	6996	TDG	L
5887	RAD23B	7508	XPC	L
5888	RAD51	6117	RPA1	L
5888	RAD51	7157	TP53	L
5888	RAD51	7329	UBE2I	L
5888	RAD51	7341	SUMO1	L
5888	RAD51	7431	VIM	S
5888	RAD51	8438	RAD54L	L
5888	RAD51	9093	DNAJA3	L
5888	RAD51	10635	RAD51AP1	L
5888	RAD51	11144	DMC1	L
5888	RAD51	25788	RAD54B	L
5888	RAD51	283987	C17orf28	L
5889	RAD51C	7517	XRCC3	L
5892	RAD51L3	7516	XRCC2	L
5892	RAD51L3	7517	XRCC3	L
5893	RAD52	7486	WRN	L
5894	RAF1	5906	RAP1A	L
5894	RAF1	5911	RAP2A	L
5894	RAF1	5925	RB1	L
5894	RAF1	5934	RBL2	L
5894	RAF1	6009	RHEB	L
5894	RAF1	6714	SRC	L
5894	RAF1	7203	CCT3	L
5894	RAF1	7409	VAV1	L
5894	RAF1	7529	YWHAB	L
5894	RAF1	7531	YWHAE	L
5894	RAF1	7532	YWHAG	L
5894	RAF1	7533	YWHAH	L
5894	RAF1	7534	YWHAZ	L
5894	RAF1	8036	SHOC2	L

5894	RAF1	8837	CFLAR	L
5894	RAF1	22800	RRAS2	L
5894	RAF1	22808	MRAS	L
5894	RAF1	51555	PEX5L	L
5894	RAF1	51765	MASK	L
5894	RAF1	81848	SPRY4	L
5896	RAG1	5897	RAG2	L
5898	RALA	9649	RALGPS1	L
5898	RALA	10640	SEC10L1	L
5898	RALA	10928	RALBP1	L
5898	RALA	11336	SEC6L1	L
5898	RALA	22866	CNKSR2	L
5898	RALA	51762	RAB8B	L
5898	RALA	55763	SEC3L1	L
5898	RALA	55770	SEC5L1	L
5898	RALA	85021	REPS1	L
5898	RALA	149371	EXOC8	L
5898	RALA	266747	Rgr	L
5899	RALB	9185	REPS2	L
5899	RALB	10928	RALBP1	RL
5899	RALB	85021	REPS1	L
5899	RALB	266747	Rgr	L
5900	RALGDS	5906	RAP1A	L
5900	RALGDS	5911	RAP2A	L
5900	RALGDS	5912	RAP2B	L
5900	RALGDS	6016	RIT1	L
5900	RALGDS	6237	RRAS	L
5900	RALGDS	22800	RRAS2	L
5900	RALGDS	22808	MRAS	L
5901	RAN	5902	RANBP1	L
5901	RAN	5903	RANBP2	L
5901	RAN	5905	RANGAP1	L
5901	RAN	6749	SSRP1	L
5901	RAN	7514	XPO1	L
5901	RAN	8498	RANBP3	L
5901	RAN	8853	DDEF2	L
5901	RAN	10048	RANBP9	L
5901	RAN	10204	NUTF2	L
5901	RAN	10527	IPO7	L
5901	RAN	10762	NUP50	L
5901	RAN	11260	XPOT	L
5901	RAN	26012	NELF	S
5901	RAN	29098	RANGNRF	L
5901	RAN	51194	IPO11	L
5901	RAN	57510	XPO5	L
5901	RAN	57562	KIAA1377	S
5901	RAN	84220	RANBP2L1	L
5901	RAN	91754	NEK9	L
5902	RANBP1	29098	RANGNRF	L
5903	RANBP2	5905	RANGAP1	L
5903	RANBP2	5956	OPN1LW	L
5903	RANBP2	7329	UBE2I	L
5903	RANBP2	7514	XPO1	L
5903	RANBP2	11260	XPOT	L
5903	RANBP2	23636	NUP62	L
5905	RANGAP1	6613	SUMO2	L
5905	RANGAP1	7329	UBE2I	L
5905	RANGAP1	7341	SUMO1	L
5905	RANGAP1	10526	IPO8	L
5906	RAP1A	5910	RAP1GDS1	L
5906	RAP1A	10567	RABAC1	L
5906	RAP1A	10636	RGS14	L
5906	RAP1A	22821	RASA3	L
5906	RAP1A	51735	RAPGEF6	L
5906	RAP1A	115727	RASGRP4	L
5906	RAP1A	266747	Rgr	L
5908	RAP1B	5909	RAP1GA1	L

5908	RAP1B	83593	RASSF5	L
5909	RAP1GA1	84206	RKHD3	S
5910	RAP1GDS1	22920	KIFAP3	L
5910	RAP1GDS1	26036	ZNF451	R
5910	RAP1GDS1	51562	MBIP	R
5911	RAP2A	9448	MAP4K4	L
5911	RAP2A	10636	RGS14	L
5911	RAP2A	51735	RAPGEF6	L
5911	RAP2A	83593	RASSF5	L
5912	RAP2B	10900	RPIP8	R
5913	RAPSN	10657	KHDRBS1	L
5914	RARA	5927	JARID1A	L
5914	RARA	5948	RBP2	L
5914	RARA	6256	RXRA	L
5914	RARA	6257	RXRB	R
5914	RARA	6258	RXRG	R
5914	RARA	6667	SP1	L
5914	RARA	6777	STAT5B	L
5914	RARA	7080	TITF1	L
5914	RARA	7704	ZBTB16	L
5914	RARA	8125	ANP32A	L
5914	RARA	8202	NCOA3	L
5914	RARA	8204	NRIP1	L
5914	RARA	8431	NR0B2	L
5914	RARA	8648	NCOA1	L
5914	RARA	8805	TRIM24	L
5914	RARA	9318	COPS2	L
5914	RARA	9325	TRIP4	L
5914	RARA	9612	NCOR2	L
5914	RARA	10002	NR2E3	L
5914	RARA	10062	NR1H3	L
5914	RARA	10474	TADA3L	L
5914	RARA	10499	NCOA2	L
5914	RARA	23013	SPEN	L
5914	RARA	23054	NCOA6	L
5914	RARA	29982	NRBF2	L
5914	RARA	50805	IRX4	L
5914	RARA	55629	PNRC2	L
5914	RARA	64324	NSD1	L
5915	RARB	6257	RXRB	L
5915	RARB	8648	NCOA1	L
5915	RARB	25865	PRKD2	L
5916	RARG	6256	RXRA	L
5921	RASA1	6549	SLC9A2	L
5921	RASA1	6714	SRC	L
5921	RASA1	6790	STK6	L
5921	RASA1	6853	SYN1	L
5921	RASA1	7525	YES1	L
5921	RASA1	7535	ZAP70	L
5921	RASA1	9021	SOCS3	L
5921	RASA1	9046	DOK2	L
5921	RASA1	9093	DNAJA3	L
5921	RASA1	9212	AURKB	L
5921	RASA1	9448	MAP4K4	L
5921	RASA1	10146	G3BP	L
5921	RASA1	10399	GNB2L1	L
5921	RASA1	55824	PAG1	L
5923	RASGRF1	7531	YWHAE	L
5923	RASGRF1	9101	USP8	L
5923	RASGRF1	10188	TNK2	L
5925	RB1	5926	ARID4A	L
5925	RB1	5927	JARID1A	L
5925	RB1	5928	RBBP4	L
5925	RB1	5929	RBBP5	L
5925	RB1	5931	RBBP7	L
5925	RB1	5932	RBBP8	L
5925	RB1	6015	RING1	L

5925	RB1	6597	SMARCA4	L
5925	RB1	6598	SMARCB1	L
5925	RB1	6617	SNAPC1	L
5925	RB1	6619	SNAPC3	L
5925	RB1	6667	SP1	L
5925	RB1	6670	SP3	L
5925	RB1	6689	SPIB	L
5925	RB1	6839	SUV39H1	L
5925	RB1	6872	TAF1	L
5925	RB1	6908	TBP	L
5925	RB1	7052	TGM2	L
5925	RB1	7112	TMPO	L
5925	RB1	7343	UBTF	L
5925	RB1	7799	PRDM2	L
5925	RB1	8503	PIK3R3	L
5925	RB1	8507	ENC1	L
5925	RB1	8535	CBX4	L
5925	RB1	8575	PRKRA	L
5925	RB1	8804	CREG1	L
5925	RB1	8841	HDAC3	L
5925	RB1	8850	PCAF	L
5925	RB1	8900	CCNA1	L
5925	RB1	9321	TRIP11	L
5925	RB1	9643	MORF4L2	L
5925	RB1	9984	THOC1	L
5925	RB1	10131	TRAP1	L
5925	RB1	10399	GNB2L1	L
5925	RB1	10403	KNTC2	L
5925	RB1	10620	ARID3B	L
5925	RB1	10741	RBBP9	L
5925	RB1	10933	MORF4L1	L
5925	RB1	23741	CRI1	L
5925	RB1	26574	AATF	L
5925	RB1	27043	PELP1	L
5925	RB1	55814	BDP1	L
5926	ARID4A	8841	HDAC3	L
5926	ARID4A	23741	CRI1	L
5927	JARID1A	5933	RBL1	L
5927	JARID1A	6908	TBP	L
5927	JARID1A	7421	VDR	L
5928	RBBP4	6184	RPN1	S
5928	RBBP4	6667	SP1	L
5928	RBBP4	6670	SP3	L
5928	RBBP4	6839	SUV39H1	L
5928	RBBP4	8841	HDAC3	L
5928	RBBP4	9112	MTA1	L
5928	RBBP4	23013	SPEN	L
5930	RBBP6	6628	SNRPB	L
5930	RBBP6	9372	ZFYVE9	L
5931	RBBP7	6839	SUV39H1	L
5931	RBBP7	9112	MTA1	L
5932	RBBP8	5933	RBL1	RL
5932	RBBP8	5934	RBL2	L
5932	RBBP8	8543	LMO4	L
5932	RBBP8	9513	FXR2	R
5932	RBBP8	10320	ZNFN1A1	L
5932	RBBP8	22806	ZNFN1A3	L
5932	RBBP8	26574	AATF	L
5932	RBBP8	55093	C8orf32	R
5932	RBBP8	60436	TGIF2	L
5932	RBBP8	283987	C17orf28	R
5933	RBL1	6872	TAF1	L
5933	RBL1	7375	USP4	L
5933	RBL1	8804	CREG1	L
5933	RBL1	10741	RBBP9	L
5933	RBL1	22938	SNW1	L
5933	RBL1	57596	KIAA1446	R

5934	RBL2	6872	TAF1	L
5934	RBL2	7343	UBTF	L
5934	RBL2	8804	CREG1	L
5934	RBL2	10741	RBBP9	L
5934	RBL2	22938	SNW1	L
5934	RBL2	23309	SIN3B	L
5934	RBL2	55290	BRF2	L
5935	RBM3	7094	TLN1	L
5935	RBM3	7414	VCL	L
5936	RBM4	8900	CCNA1	L
5936	RBM4	55805	LRP2BP	L
5939	RBMS2	138311	FAM69B	S
5940	RBM1A1	6434	SFRS10	L
5940	RBM1A1	10656	KHDRBS3	L
5947	RBP1	9227	LRAT	L
5948	RBP2	9227	LRAT	L
5950	RBP4	7276	TTR	L
5955	RCN2	7917	BAT3	S
5957	RCV1	6011	GRK1	L
5959	RDH5	5995	RGR	L
5959	RDH5	6017	RLBP1	L
5961	RDS	6094	ROM1	L
5961	RDS	9402	GRAP2	L
5962	RDX	7248	TSC1	L
5962	RDX	7430	VIL2	L
5962	RDX	8904	CPNE1	L
5962	RDX	9351	SLC9A3R2	L
5962	RDX	9368	SLC9A3R1	L
5962	RDX	10672	GNA13	L
5962	RDX	131034	CPNE4	L
5962	RDX	221184	CPNE2	L
5966	REL	5970	RELA	L
5966	REL	6667	SP1	L
5966	REL	6908	TBP	L
5968	REG1B	7917	BAT3	S
5970	RELA	5981	RFC1	L
5970	RELA	6667	SP1	L
5970	RELA	6774	STAT3	L
5970	RELA	6872	TAF1	L
5970	RELA	6908	TBP	L
5970	RELA	7015	TERT	L
5970	RELA	7088	TLE1	L
5970	RELA	7159	TP53BP2	L
5970	RELA	7291	TWIST1	L
5970	RELA	8091	HMGA2	L
5970	RELA	8841	HDAC3	L
5970	RELA	8945	BTRC	L
5970	RELA	9325	TRIP4	L
5970	RELA	9612	NCOR2	L
5970	RELA	10401	PIAS3	L
5970	RELA	10614	HEXIM1	L
5970	RELA	10848	PPP1R13L	L
5970	RELA	23421	ITGB3BP	L
5970	RELA	23474	ETHE1	L
5970	RELA	51147	ING4	L
5970	RELA	57761	TRIB3	L
5970	RELA	64320	RNF25	L
5970	RELA	222643	UNC5CL	L
5972	REN	5973	RENBP	L
5972	REN	10159	ATP6AP2	L
5972	REN	79047	KCTD15	S
5973	RENBP	9189	ZBED1	R
5976	RENT1	7290	HIRA	L
5976	RENT1	7920	BAT5	L
5976	RENT1	23049	SMG1	L
5976	RENT1	23248	KIAA0460	L
5976	RENT1	51504	HSPC152	L

5976	RENT1	51691	LSM8	L
5976	RENT1	54464	XRN1	L
5976	RENT1	55041	PLEKHB2	L
5976	RENT1	55191	NADSYN1	L
5976	RENT1	55902	ACSS2	L
5976	RENT1	65110	UPF3A	L
5976	RENT1	84528	PEPP-2	L
5976	RENT1	84572	GNPTG	L
5978	REST	10919	EHMT2	L
5978	REST	23186	RCOR1	L
5978	REST	23309	SIN3B	L
5979	RET	6464	SHC1	L
5979	RET	6714	SRC	L
5979	RET	6774	STAT3	L
5979	RET	9046	DOK2	L
5979	RET	10818	FRS2	L
5980	REV3L	10459	MAD2L2	L
5981	RFC1	5983	RFC3	L
5981	RFC1	9338	TCEAL1	L
5981	RFC1	23476	BRD4	L
5983	RFC3	5984	RFC4	L
5984	RFC4	5985	RFC5	RL
5984	RFC4	23476	BRD4	L
5985	RFC5	9094	UNC119	S
5985	RFC5	10980	COPS6	S
5985	RFC5	51003	MED31	S
5985	RFC5	55791	C1orf103	S
5985	RFC5	84060	DKFZP564O0523	S
5987	RFP	7704	ZBTB16	R
5987	RFP	53826	FXYD6	S
5987	RFP	57192	MCOLN1	S
5987	RFP	57596	KIAA1446	R
5987	RFP	79047	KCTD15	S
5987	RFP	85302	FBF1	R
5987	RFP	162952	(null)	S
5989	RFX1	5990	RFX2	L
5989	RFX1	5991	RFX3	L
5989	RFX1	9500	MAGED1	S
5989	RFX1	10474	TADA3L	S
5990	RFX2	5991	RFX3	L
5990	RFX2	5992	RFX4	L
5990	RFX2	222546	RFXDC1	R
5991	RFX3	5992	RFX4	L
5991	RFX3	7186	TRAF2	R
5991	RFX3	222546	RFXDC1	R
5993	RFX5	5994	RFXAP	L
5993	RFX5	8625	RFXANK	L
5994	RFXAP	8625	RFXANK	L
5995	RGR	26128	KIAA1279	R
5996	RGS1	7786	MAP3K12	S
5996	RGS1	8848	TSC22D1	S
5996	RGS1	10813	UTP14A	S
5996	RGS1	65991	FUNDC2	S
5997	RGS2	6331	SCN5A	S
5997	RGS2	8508	NIPSNAP1	S
5997	RGS2	8655	DNCL1	S
5997	RGS2	9276	COPB2	L
5997	RGS2	22981	KIAA0980	R
5997	RGS2	28964	GIT1	S
5997	RGS2	51699	VPS29	S
5997	RGS2	54663	WDR74	S
5997	RGS2	55738	ARFGAP1	S
5997	RGS2	57622	LRFN1	S
5998	RGS3	7531	YWHAE	L
5998	RGS3	7534	YWHAZ	L
5998	RGS3	10114	HIPK3	L
5999	RGS4	9276	COPB2	L

5999	RGS4	23236	PLCB1	L
6000	RGS7	7094	TLN1	L
6000	RGS7	23557	SNAPAP	L
6002	RGS12	23236	PLCB1	L
6004	RGS16	10672	GNA13	L
6005	RHAG	6521	SLC4A1	L
6009	RHEB	7249	TSC2	L
6010	RHO	6011	GRK1	L
6010	RHO	6295	SAG	L
6014	RIT2	7414	VCL	L
6015	RING1	8535	CBX4	L
6015	RING1	23429	RYBP	RL
6015	RING1	60528	ELAC2	L
6016	RIT1	6018	RLF	L
6016	RIT1	55791	C1orf103	S
6018	RLF	55660	FNBP3	L
6019	RLN2	59350	LGR7	L
6019	RLN2	122042	LGR8	L
6035	RNASE1	6050	RNH1	L
6041	RNASEL	6059	ABCE1	L
6045	RNF2	7024	TFCP2	L
6045	RNF2	8535	CBX4	S
6045	RNF2	222019	(null)	S
6047	RNF4	6498	SKIL	L
6047	RNF4	6942	TCF20	L
6047	RNF4	7227	TRPS1	L
6047	RNF4	23598	ZNF278	L
6048	RNF5	7322	UBE2D2	L
6048	RNF5	7323	UBE2D3	L
6048	RNF5	7324	UBE2E1	L
6048	RNF5	7920	BAT5	L
6048	RNF5	10477	UBE2E3	L
6048	RNF5	29109	FHOD1	L
6051	RNPEP	9372	ZFYVE9	L
6091	ROBO1	6585	SLIT1	L
6091	ROBO1	9353	SLIT2	L
6091	ROBO1	10381	TUBB3	S
6091	ROBO1	57522	SRGAP1	L
6092	ROBO2	6749	SSRP1	S
6092	ROBO2	84152	PPP1R1B	S
6092	ROBO2	93145	OLFM2	S
6095	RORA	10499	NCOA2	L
6096	RORB	8648	NCOA1	L
6098	ROS1	10451	VAV3	L
6100	RP9	7307	U2AF1	L
6103	RPGR	57096	RPGRIP1	L
6117	RPA1	6118	RPA2	L
6117	RPA1	6119	RPA3	L
6117	RPA1	6919	TCEA2	S
6117	RPA1	7507	XPA	L
6117	RPA1	8991	SELENBP1	S
6117	RPA1	11277	TREX1	L
6117	RPA1	29935	RPA4	L
6117	RPA1	51236	C8orf30A	S
6117	RPA1	55147	RBM23	S
6117	RPA1	64400	FTS	S
6117	RPA1	84164	ASCC2	S
6117	RPA1	92797	HELB	L
6118	RPA2	6119	RPA3	L
6118	RPA2	6176	RPLP1	S
6118	RPA2	6774	STAT3	L
6118	RPA2	7088	TLE1	S
6118	RPA2	7280	TUBB2	S
6118	RPA2	7374	UNG	L
6118	RPA2	7507	XPA	L
6118	RPA2	9094	UNC119	S
6118	RPA2	9709	HERPUD1	S

6118	RPA2	10309	UNG2	L
6118	RPA2	10813	UTP14A	S
6118	RPA2	10980	COPS6	S
6118	RPA2	51003	MED31	S
6118	RPA2	51280	GOLPH2	S
6118	RPA2	55791	C1orf103	S
6118	RPA2	57562	KIAA1377	S
6118	RPA2	84060	DKFZP564O0523	S
6119	RPA3	29935	RPA4	L
6122	RPL3	375078	(null)	S
6125	RPL5	10527	IPO7	L
6125	RPL5	26019	UPF2	L
6125	RPL5	27250	PDCD4	L
6128	RPL6	6159	RPL29	L
6129	RPL7	7553	ZNF7	L
6130	RPL7A	57003	GK001	S
6130	RPL7A	81488	GRINL1A	S
6132	RPL8	6487	ST3GAL3	S
6132	RPL8	10425	ARIH2	S
6132	RPL8	11165	NUDT3	S
6132	RPL8	20924	(null)	S
6132	RPL8	54622	ARFRP2	S
6132	RPL8	54935	DUSP23	S
6132	RPL8	79096	MGC4707	S
6132	RPL8	80013	C10orf97	S
6133	RPL9	6188	RPS3	S
6133	RPL9	8470	SORBS2	S
6133	RPL9	124402	LOC124402	S
6134	RPL10	7525	YES1	L
6134	RPL10	9519	TBPL1	S
6136	RPL12	10951	CBX1	S
6136	RPL12	22142	(null)	S
6136	RPL12	51194	IPO11	L
6138	RPL15	10980	COPS6	S
6139	RPL17	10073	RNUT1	S
6142	RPL18A	7786	MAP3K12	S
6142	RPL18A	10188	TNK2	S
6142	RPL18A	25873	RPL36	S
6142	RPL18A	26150	RIBC2	S
6144	RPL21	11040	PIM2	S
6146	RPL22	55968	NSFL1C	S
6152	RPL24	51691	LSM8	L
6154	RPL26	10236	HNRPR	S
6158	RPL28	29058	C20orf30	S
6159	RPL29	55638	FLJ20366	S
6165	RPL35A	6457	SH3GL3	S
6168	RPL37A	55791	C1orf103	S
6175	RPLP0	65095	FLJ12949	S
6176	RPLP1	6181	RPLP2	L
6176	RPLP1	6303	SAT	S
6176	RPLP1	7280	TUBB2	S
6176	RPLP1	9551	ATP5J2	S
6176	RPLP1	11051	NUDT21	S
6176	RPLP1	11165	NUDT3	S
6176	RPLP1	25874	BRP44	S
6176	RPLP1	27250	PDCD4	L
6176	RPLP1	29117	BRD7	S
6176	RPLP1	55791	C1orf103	S
6176	RPLP1	56905	DKFZP434H132	S
6176	RPLP1	84164	ASCC2	S
6176	RPLP1	124930	ANKRD13B	S
6182	MRPL12	55092	TMEM51	S
6183	MRPS12	9094	UNC119	S
6183	MRPS12	11161	C14orf1	S
6183	MRPS12	55791	C1orf103	S
6184	RPN1	8193	DPF1	S
6184	RPN1	9808	KIAA0087	S

6184	RPN1	29978	UBQLN2	L
6184	RPN1	55884	WSB2	S
6184	RPN1	59307	SIGIRR	S
6189	RPS3A	6648	SOD2	S
6189	RPS3A	10284	SAP18	S
6189	RPS3A	55729	ATF7IP	L
6189	RPS3A	55741	C20orf31	S
6189	RPS3A	79096	MGC4707	S
6189	RPS3A	114034	TOE1	S
6189	RPS3A	152137	C3orf6	S
6194	RPS6	93145	OLFM2	S
6195	RPS6KA1	7529	YWHAB	L
6195	RPS6KA1	10766	TOB2	L
6197	RPS6KA3	8682	PEA15	L
6198	RPS6KB1	9618	TRAF4	L
6198	RPS6KB1	80347	COASY	L
6201	RPS7	10527	IPO7	L
6203	RPS9	11033	CENTA1	L
6204	RPS10	9001	HAP1	S
6204	RPS10	9232	PTTG1	L
6204	RPS10	11143	MYST2	S
6207	RPS13	27250	PDCD4	L
6208	RPS14	6880	TAF9	R
6209	RPS15	26019	UPF2	L
6210	RPS15A	7919	BAT1	L
6223	RPS19	7414	VCL	L
6224	RPS20	7414	VCL	L
6224	RPS20	10200	MPHOSPH6	L
6224	RPS20	51678	MPP6	L
6227	RPS21	7414	VCL	L
6229	RPS24	7414	VCL	L
6230	RPS25	9001	HAP1	S
6230	RPS25	9905	RUTBC1	S
6230	RPS25	26019	UPF2	L
6231	RPS26	90121	RP1-112K5.2	R
6232	RPS27	58478	MASA	S
6233	RPS27A	9802	DAZAP2	R
6233	RPS27A	26994	RNF11	L
6233	RPS27A	55683	FLJ10081	S
6233	RPS27A	57473	GM632	L
6234	RPS28	83755	KRTAP4-12	R
6236	RRAD	7169	TPM2	L
6237	RRAS	6654	SOS1	L
6237	RRAS	83593	RASSF5	L
6238	RRBP1	25865	PRKD2	L
6238	RRBP1	55729	ATF7IP	L
6240	RRM1	6241	RRM2	L
6240	RRM1	50484	RRM2B	L
6240	RRM1	55791	C1orf103	S
6241	RRM2	7157	TP53	L
6242	RTKN	30851	TAX1BP3	L
6249	RSN	8826	IQGAP1	L
6252	RTN1	7357	UGCG	L
6252	RTN1	79666	PLEKHF2	R
6252	RTN1	84067	DKFZP566M1046	R
6256	RXRA	6667	SP1	L
6256	RXRA	6722	SRF	L
6256	RXRA	6908	TBP	L
6256	RXRA	7025	NR2F1	L
6256	RXRA	7067	THRA	L
6256	RXRA	7376	NR1H2	L
6256	RXRA	7421	VDR	L
6256	RXRA	7704	ZBTB16	L
6256	RXRA	8031	NCOA4	L
6256	RXRA	8202	NCOA3	L
6256	RXRA	8204	NRIP1	L
6256	RXRA	8431	NR0B2	L

6256	RXRA	8648	NCOA1	L
6256	RXRA	8721	EDF1	L
6256	RXRA	8805	TRIM24	L
6256	RXRA	8856	NR1I2	L
6256	RXRA	9025	RNF8	L
6256	RXRA	9318	COPS2	L
6256	RXRA	9322	TRIP10	L
6256	RXRA	9325	TRIP4	L
6256	RXRA	9326	ZNHIT3	L
6256	RXRA	9862	THRAP4	L
6256	RXRA	9970	NR1I3	L
6256	RXRA	9971	NR1H4	L
6256	RXRA	10474	TADA3L	L
6256	RXRA	10499	NCOA2	L
6256	RXRA	10891	PPARGC1A	L
6256	RXRA	10902	BRD8	L
6256	RXRA	10912	GADD45G	L
6256	RXRA	23421	ITGB3BP	L
6256	RXRA	25865	PRKD2	L
6256	RXRA	29982	NRBF2	L
6256	RXRA	30836	ERBP	L
6256	RXRA	55629	PNRC2	L
6256	RXRA	56893	UBQLN4	S
6256	RXRA	64324	NSD1	L
6256	RXRA	64699	TMPRSS3	S
6256	RXRA	221037	JMJD1C	L
6257	RXRB	7067	THRA	L
6257	RXRB	7376	NR1H2	L
6257	RXRB	8202	NCOA3	L
6257	RXRB	8204	NRIP1	L
6257	RXRB	8405	SPOP	R
6257	RXRB	8431	NR0B2	L
6257	RXRB	8648	NCOA1	L
6257	RXRB	8856	NR1I2	L
6257	RXRB	10002	NR2E3	L
6257	RXRB	11214	AKAP13	L
6258	RXRG	6722	SRF	L
6258	RXRG	7068	THRB	L
6258	RXRG	56902	LOC56902	S
6258	RXRG	90678	LRSAM1	S
6261	RYR1	6262	RYR2	L
6261	RYR1	6271	S100A1	L
6261	RYR1	9454	HOMER3	L
6261	RYR1	9455	HOMER2	L
6261	RYR1	9456	HOMER1	L
6261	RYR1	10345	TRDN	L
6262	RYR2	6263	RYR3	L
6262	RYR2	6717	SRI	L
6262	RYR2	9456	HOMER1	L
6262	RYR2	9472	AKAP6	L
6271	S100A1	6275	S100A4	RL
6271	S100A1	6285	S100B	RL
6271	S100A1	6286	S100P	R
6271	S100A1	27101	CACYBP	L
6271	S100A1	60491	NIF3L1	R
6272	SORT1	23062	GGA2	L
6272	SORT1	26088	GGA1	L
6275	S100A4	7917	BAT3	S
6275	S100A4	9094	UNC119	S
6277	S100A6	6285	S100B	L
6277	S100A6	11319	HSGT1	L
6277	S100A6	27101	CACYBP	L
6278	S100A7	10048	RANBP9	L
6278	S100A7	10987	COPS5	L
6279	S100A8	6280	S100A9	L
6279	S100A8	7157	TP53	S
6279	S100A8	9094	UNC119	S

6279	S100A8	11161	C14orf1	S
6279	S100A8	22142	(null)	S
6279	S100A8	22984	PDCD11	S
6279	S100A8	55791	C1orf103	S
6279	S100A8	64284	RAB17	S
6279	S100A8	64837	KLC2	S
6279	S100A8	84966	IGSF21	S
6281	S100A10	8605	PLA2G4C	L
6281	S100A10	9869	SETDB1	S
6281	S100A10	10980	COPS6	S
6281	S100A10	55503	TRPV6	L
6282	S100A11	6285	S100B	L
6283	S100A12	27101	CACYBP	L
6284	S100A13	6857	SYT1	L
6284	S100A13	7414	VCL	L
6284	S100A13	9796	PHYHIP	S
6285	S100B	7157	TP53	L
6285	S100B	8826	IQGAP1	L
6285	S100B	10397	NDRG1	L
6285	S100B	11319	HSGT1	L
6285	S100B	27101	CACYBP	L
6286	S100P	7430	VIL2	L
6286	S100P	27101	CACYBP	L
6291	SAA4	119369	NUDT9P1	R
6294	SAFB	7920	BAT5	L
6294	SAFB	8148	TAF15	L
6294	SAFB	8683	SFRS9	L
6294	SAFB	9667	SAFB2	L
6294	SAFB	54205	CYCS	L
6297	SALL2	79959	C18orf9	R
6297	SALL2	83637	DKFZp761I2123	R
6299	SALL1	7013	TERF1	L
6299	SALL1	7329	UBE2I	L
6299	SALL1	7341	SUMO1	L
6300	MAPK12	6641	SNTB1	L
6300	MAPK12	8550	MAPKAPK5	L
6303	SAT	7088	TLE1	S
6303	SAT	7157	TP53	S
6303	SAT	7280	TUBB2	S
6303	SAT	8525	DGKZ	S
6303	SAT	8703	B4GALT3	S
6303	SAT	9094	UNC119	S
6303	SAT	9869	SETDB1	S
6303	SAT	10524	HTATIP	S
6303	SAT	10813	UTP14A	S
6303	SAT	10980	COPS6	S
6303	SAT	11143	MYST2	S
6303	SAT	11161	C14orf1	S
6303	SAT	11194	ABCB8	S
6303	SAT	11244	ZHX1	S
6303	SAT	11257	TP53AP1	S
6303	SAT	22929	SEPHS1	S
6303	SAT	22980	KIAA1049	R
6303	SAT	23549	DNPEP	R
6303	SAT	27231	ITGB1BP3	S
6303	SAT	51003	MED31	S
6303	SAT	51204	LOC51204	R
6303	SAT	51631	LUC7L2	S
6303	SAT	51669	TMEM66	S
6303	SAT	55199	FLJ10661	R
6303	SAT	55791	C1orf103	S
6303	SAT	55848	C9orf46	S
6303	SAT	57562	KIAA1377	S
6303	SAT	60492	MDS025	S
6303	SAT	65991	FUNDC2	S
6303	SAT	81628	TSC22D4	R
6303	SAT	84060	DKFZP564O0523	S

6303	SAT	84141	FLJ13391	S
6303	SAT	84708	LNK	R
6303	SAT	84991	RBM17	R
6303	SAT	112483	SAT2	R
6303	SAT	117246	FJSJ3	R
6303	SAT	125476	C18orf37	S
6304	SATB1	7329	UBE2I	R
6304	SATB1	8467	SMARCA5	L
6304	SATB1	9219	MTA2	L
6305	SBF1	6839	SUV39H1	L
6305	SBF1	8898	MTMR2	L
6310	ATXN1	7531	YWHAE	L
6310	ATXN1	7534	YWHAZ	L
6310	ATXN1	7874	USP7	L
6310	ATXN1	8125	ANP32A	L
6310	ATXN1	8161	COIL	L
6310	ATXN1	10084	PQBP1	L
6310	ATXN1	56893	UBQLN4	L
6326	SCN2A2	6330	SCN4B	L
6326	SCN2A2	55160	ARHGEF10L	S
6326	SCN2A2	55819	RNF130	S
6329	SCN4A	6641	SNTB1	L
6329	SCN4A	6645	SNTB2	L
6331	SCN5A	6641	SNTB1	L
6331	SCN5A	6645	SNTB2	L
6337	SCNN1A	6338	SCNN1B	L
6337	SCNN1A	7329	UBE2I	L
6337	SCNN1A	11060	WWP2	L
6337	SCNN1A	23327	NEDD4L	L
6338	SCNN1B	6339	SCNN1D	L
6338	SCNN1B	6340	SCNN1G	L
6338	SCNN1B	6804	STX1A	L
6338	SCNN1B	11060	WWP2	L
6338	SCNN1B	23327	NEDD4L	L
6339	SCNN1D	6340	SCNN1G	L
6340	SCNN1G	6804	STX1A	L
6340	SCNN1G	11060	WWP2	L
6340	SCNN1G	23327	NEDD4L	L
6342	SCP2	10449	ACAA2	L
6343	SCT	6344	SCTR	L
6343	SCT	7433	VIPR1	L
6344	SCTR	27151	CPAMD8	L
6348	CCL3	6351	CCL4	L
6348	CCL3	7040	TGFB1	L
6352	CCL5	6382	SDC1	L
6352	CCL5	6385	SDC4	L
6354	CCL7	9638	FEZ1	S
6356	CCL11	7167	TPI1	S
6358	CCL14	10212	DDX39	L
6361	CCL17	7412	VCAM1	L
6362	CCL18	7088	TLE1	S
6362	CCL18	7157	TP53	S
6362	CCL18	9094	UNC119	S
6362	CCL18	11161	C14orf1	S
6363	CCL19	51554	CCRL1	L
6366	CCL21	51554	CCRL1	L
6367	CCL22	7412	VCAM1	L
6370	CCL25	10803	CCR9	L
6370	CCL25	51554	CCRL1	L
6382	SDC1	6386	SDCBP	L
6382	SDC1	8573	CASK	L
6383	SDC2	6386	SDCBP	L
6383	SDC2	6678	SPARC	L
6383	SDC2	7430	VIL2	L
6383	SDC2	8573	CASK	L
6385	SDC4	6386	SDCBP	L
6385	SDC4	7041	TGFB111	L

6385	SDC4	8573	CASK	L
6385	SDC4	10755	GIPC1	L
6386	SDCBP	6659	SOX4	L
6386	SDCBP	23705	IGSF4	L
6386	SDCBP	29062	HSPC049	S
6387	CXCL12	7852	CXCR4	L
6396	SEC13L1	54521	WDR44	L
6396	SEC13L1	89866	LZTR2	R
6401	SELE	6402	SELL	L
6401	SELE	7414	VCL	L
6402	SELL	7430	VIL2	L
6403	SELP	7430	VIL2	L
6403	SELP	8907	AP1M1	L
6403	SELP	9784	SNX17	L
6404	SELPLG	8460	TPST1	L
6405	SEMA3F	7317	UBE1	S
6405	SEMA3F	7422	VEGF	L
6405	SEMA3F	8828	NRP2	L
6405	SEMA3F	8829	NRP1	L
6405	SEMA3F	80723	TMEM22	S
6406	SEMG1	6407	SEMG2	L
6406	SEMG1	7051	TGM1	L
6407	SEMG2	7051	TGM1	L
6416	MAP2K4	7786	MAP3K12	L
6416	MAP2K4	9043	SPAG9	L
6418	SET	8125	ANP32A	L
6418	SET	8290	HIST3H3	L
6418	SET	8851	CDK5R1	L
6418	SET	9015	TAF1A	L
6418	SET	26040	SETBP1	L
6418	SET	80764	THAP7	R
6421	SFPQ	7094	TLN1	L
6421	SFPQ	7150	TOP1	L
6421	SFPQ	7316	UBC	S
6421	SFPQ	7414	VCL	L
6421	SFPQ	51155	HN1	S
6421	SFPQ	56915	EXOSC5	L
6422	SFRP1	7471	WNT1	L
6422	SFRP1	7472	WNT2	L
6422	SFRP1	8323	FZD6	L
6422	SFRP1	54361	WNT4	L
6426	SFRS1	6625	SNRP70	L
6426	SFRS1	6733	SRPK2	L
6426	SFRS1	7150	TOP1	L
6426	SFRS1	7307	U2AF1	L
6426	SFRS1	8233	U2AF1L2	L
6426	SFRS1	8487	SIP1	L
6426	SFRS1	8899	PRPF4B	L
6426	SFRS1	9128	PRPF4	L
6426	SFRS1	9169	SFRS2IP	L
6426	SFRS1	9295	SFRS11	L
6426	SFRS1	10915	TCERG1	L
6426	SFRS1	11168	PSIP1	L
6426	SFRS1	11338	U2AF2	RL
6426	SFRS1	51755	CRK7	L
6426	SFRS1	84708	LNX	R
6426	SFRS1	85362	(null)	R
6426	SFRS1	91746	YT521	L
6427	SFRS2	6625	SNRP70	L
6427	SFRS2	7307	U2AF1	L
6427	SFRS2	8233	U2AF1L2	L
6427	SFRS2	8487	SIP1	L
6427	SFRS2	9169	SFRS2IP	L
6427	SFRS2	9295	SFRS11	L
6427	SFRS2	9406	ZNF265	L
6427	SFRS2	11033	CENTA1	L
6427	SFRS2	51755	CRK7	L

6427	SFRS2	57018	CCNL1	L
6427	SFRS2	81669	CCNL2	L
6427	SFRS2	91746	YT521	L
6428	SFRS3	7094	TLN1	L
6428	SFRS3	8487	SIP1	L
6428	SFRS3	9169	SFRS2IP	L
6428	SFRS3	118460	EXOSC6	L
6429	SFRS4	6431	SFRS6	R
6429	SFRS4	9001	HAP1	S
6429	SFRS4	9169	SFRS2IP	L
6429	SFRS4	10250	SRRM1	L
6430	SFRS5	9398	IGSF2	S
6430	SFRS5	10188	TNK2	S
6430	SFRS5	10250	SRRM1	L
6430	SFRS5	93145	OLFM2	S
6431	SFRS6	10921	RNPS1	R
6432	SFRS7	8446	DUSP11	L
6432	SFRS7	23097	CDC2L6	L
6432	SFRS7	81669	CCNL2	L
6434	SFRS10	8683	SFRS9	L
6434	SFRS10	10625	IVNS1ABP	S
6434	SFRS10	27288	HNRNPG-T	L
6434	SFRS10	27316	RBMX	L
6435	SFTPA1	6436	SFTPA2	L
6435	SFTPA1	399687	MYO18A	L
6436	SFTPA2	22918	C1QR1	L
6446	SGK	9351	SLC9A3R2	L
6446	SGK	23327	NEDD4L	L
6447	SGNE1	56893	UBQLN4	S
6449	SGTA	6696	SPP1	R
6449	SGTA	6860	SYT4	R
6449	SGTA	7112	TMPO	L
6449	SGTA	7917	BAT3	L
6449	SGTA	30008	EFEMP2	R
6449	SGTA	50848	F11R	R
6449	SGTA	84888	SPPL2A	R
6449	SGTA	114897	C1QTNF1	R
6449	SGTA	123887	ZG16	R
6452	SH3BP2	6850	SYK	L
6452	SH3BP2	7018	TF	S
6452	SH3BP2	7409	VAV1	L
6452	SH3BP2	7410	VAV2	L
6452	SH3BP2	7535	ZAP70	L
6452	SH3BP2	10971	YWHAQ	L
6452	SH3BP2	27040	LAT	L
6453	ITSN1	6601	SMARCC2	S
6453	ITSN1	6616	SNAP25	L
6453	ITSN1	6654	SOS1	L
6453	ITSN1	8543	LMO4	L
6453	ITSN1	8773	SNAP23	L
6453	ITSN1	8867	SYNJ1	L
6453	ITSN1	8976	WASL	L
6453	ITSN1	9094	UNC119	S
6453	ITSN1	9522	SCAMP1	L
6453	ITSN1	27131	SNX5	S
6453	ITSN1	55052	MRPL20	S
6453	ITSN1	85439	STN2	L
6455	SH3GL1	6457	SH3GL3	S
6455	SH3GL1	8312	AXIN1	S
6455	SH3GL1	10015	PDCD6IP	L
6455	SH3GL1	30011	SH3KBP1	L
6455	SH3GL1	55211	DPPA4	S
6455	SH3GL1	63898	SH2D4A	R
6456	SH3GL2	6919	TCEA2	S
6456	SH3GL2	8491	MAP4K3	L
6456	SH3GL2	8751	ADAM15	L
6456	SH3GL2	8754	ADAM9	L

6456	SH3GL2	8867	SYNJ1	L
6456	SH3GL2	10015	PDCD6IP	L
6456	SH3GL2	25975	EGFL6	S
6457	SH3GL3	6638	SNRPN	S
6457	SH3GL3	7013	TERF1	S
6457	SH3GL3	9398	IGSF2	S
6457	SH3GL3	9568	GPR51	S
6457	SH3GL3	10015	PDCD6IP	L
6457	SH3GL3	10570	DPYSL4	S
6457	SH3GL3	11079	RER1	S
6457	SH3GL3	25975	EGFL6	S
6457	SH3GL3	28966	SNX24	S
6457	SH3GL3	30011	SH3KBP1	L
6457	SH3GL3	55211	DPPA4	S
6457	SH3GL3	55339	WDR33	S
6457	SH3GL3	57658	CALCOCO1	S
6457	SH3GL3	65990	C16orf24	S
6457	SH3GL3	81890	QTRT1	S
6457	SH3GL3	83638	Bles03	S
6457	SH3GL3	84103	C4orf17	S
6457	SH3GL3	114034	TOE1	S
6461	SHB	6714	SRC	L
6461	SHB	7409	VAV1	L
6461	SHB	7535	ZAP70	L
6461	SHB	9402	GRAP2	L
6461	SHB	27040	LAT	L
6464	SHC1	6667	SP1	L
6464	SHC1	6714	SRC	L
6464	SHC1	7535	ZAP70	L
6464	SHC1	8660	IRS2	L
6464	SHC1	9402	GRAP2	L
6464	SHC1	10241	NDP52	R
6464	SHC1	10451	VAV3	L
6464	SHC1	11184	MAP4K1	L
6464	SHC1	55824	PAG1	L
6464	SHC1	79801	SHCBP1	L
6469	SHH	8643	PTCH2	L
6470	SHMT1	10301	DLEU1	S
6470	SHMT1	11098	PRSS23	S
6477	SIAH1	6500	SKP1A	L
6477	SIAH1	6855	SYP	L
6477	SIAH1	6907	TBL1X	L
6477	SIAH1	7277	TUBA1	L
6477	SIAH1	7278	TUBA2	L
6477	SIAH1	7321	UBE2D1	L
6477	SIAH1	7329	UBE2I	L
6477	SIAH1	7846	TUBA3	L
6477	SIAH1	8650	NUMB	L
6477	SIAH1	8669	EIF3S1	L
6477	SIAH1	9351	SLC9A3R2	L
6477	SIAH1	10114	HIPK3	L
6477	SIAH1	10376	K-ALPHA-1	L
6477	SIAH1	10656	KHDRBS3	RL
6477	SIAH1	27101	CACYBP	L
6477	SIAH1	27125	AFF4	R
6477	SIAH1	51807	TUBA8	L
6478	SIAH2	6855	SYP	L
6478	SIAH2	7186	TRAF2	L
6478	SIAH2	7329	UBE2I	L
6478	SIAH2	7409	VAV1	L
6478	SIAH2	9246	UBE2L6	L
6478	SIAH2	10114	HIPK3	L
6478	SIAH2	27101	CACYBP	L
6487	ST3GAL3	7276	TTR	S
6487	ST3GAL3	9925	ZBTB5	S
6487	ST3GAL3	10066	SCAMP2	S
6494	SIPA1	64326	RFWD2	L

6495	SIX1	7088	TLE1	L
6495	SIX1	11007	DIPA	R
6496	SIX3	7088	TLE1	L
6496	SIX3	7090	TLE3	L
6496	SIX3	8013	NR4A3	L
6496	SIX3	51053	GMNN	L
6497	SKI	6498	SKIL	L
6497	SKI	22938	SNW1	L
6497	SKI	28996	HIPK2	L
6498	SKIL	6625	SNRP70	L
6498	SKIL	6731	SRP72	L
6498	SKIL	7169	TPM2	L
6498	SKIL	7329	UBE2I	L
6498	SKIL	7750	ZNF198	L
6498	SKIL	7980	TFPI2	L
6498	SKIL	8404	SPARCL1	L
6498	SKIL	8458	TTF2	L
6498	SKIL	8535	CBX4	L
6498	SKIL	8554	PIAS1	L
6498	SKIL	8881	CDC16	L
6498	SKIL	8904	CPNE1	L
6498	SKIL	9205	ZMYM5	L
6498	SKIL	9611	NCOR1	L
6498	SKIL	9612	NCOR2	L
6498	SKIL	9784	SNX17	L
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6498	SKIL	10973	ASCC3	L
6498	SKIL	11124	FAF1	L
6498	SKIL	22795	NID2	L
6498	SKIL	22906	OIP106	L
6498	SKIL	22907	DHX30	L
6498	SKIL	23140	ZZEF1	L
6498	SKIL	23328	SASH1	L
6498	SKIL	23462	HEY1	L
6498	SKIL	23499	MACF1	L
6498	SKIL	25987	LRRC54	L
6498	SKIL	26508	HEYL	L
6498	SKIL	26525	IL1F5	L
6498	SKIL	29761	USP25	L
6498	SKIL	29920	PYCR2	L
6498	SKIL	51343	FZR1	L
6498	SKIL	51523	CXXC5	L
6498	SKIL	51567	TTRAP	L
6498	SKIL	51588	PIAS4	L
6498	SKIL	51720	RAP80	L
6498	SKIL	55223	TRIM62	L
6498	SKIL	60314	C12orf10	L
6498	SKIL	64397	ZFP106	L
6498	SKIL	64750	SMURF2	L
6498	SKIL	79586	CHPF	L
6498	SKIL	79710	MORC4	L
6498	SKIL	79842	ZBTB3	L
6498	SKIL	79987	SVEP1	L
6498	SKIL	113026	PLCD3	L
6498	SKIL	131034	CPNE4	L
6498	SKIL	157922	CAMSAP1	L
6498	SKIL	168451	THAP5	L
6498	SKIL	204851	HIPK1	L
6498	SKIL	221184	CPNE2	L
6499	SKIV2L	6628	SNRPB	L
6499	SKIV2L	9948	WDR1	L
6499	SKIV2L	23203	PMPCA	L
6499	SKIV2L	54464	XRN1	L
6499	SKIV2L	54512	EXOSC4	L
6500	SKP1A	6502	SKP2	L

6500	SKP1A	6907	TBL1X	L
6500	SKP1A	8454	CUL1	L
6500	SKP1A	8945	BTRC	L
6500	SKP1A	9820	CUL7	L
6500	SKP1A	9978	RBX1	L
6500	SKP1A	11269	DDX19B	S
6500	SKP1A	25793	FBXO7	L
6500	SKP1A	25827	FBXL2	L
6500	SKP1A	26190	FBXW2	L
6500	SKP1A	26224	FBXL3	L
6500	SKP1A	26232	FBXO2	L
6500	SKP1A	26234	FBXL5	L
6500	SKP1A	26235	FBXL4	L
6500	SKP1A	26270	FBXO6	L
6500	SKP1A	26271	FBXO5	L
6500	SKP1A	26272	FBXO4	L
6500	SKP1A	27101	CACYBP	L
6500	SKP1A	55030	FBXO34	S
6500	SKP1A	55294	FBXW7	L
6500	SKP1A	83461	CDCA3	L
6500	SKP1A	84893	FBXO18	L
6500	SKP1A	114907	FBXO32	L
6502	SKP2	6929	TCF3	L
6502	SKP2	8409	UXT	L
6502	SKP2	8454	CUL1	L
6502	SKP2	51343	FZR1	L
6502	SKP2	81620	CDT1	L
6503	SLA	6850	SYK	L
6503	SLA	7409	VAV1	L
6503	SLA	7535	ZAP70	L
6503	SLA	27040	LAT	L
6505	SLC1A1	10550	ARL6IP5	L
6509	SLC1A4	30816	ERVWE1	L
6510	SLC1A5	30816	ERVWE1	L
6510	SLC1A5	79735	TBC1D17	S
6511	SLC1A6	9826	ARHGEF11	L
6511	SLC1A6	10425	ARIH2	S
6511	SLC1A6	286397	(null)	S
6513	SLC2A1	7329	UBE2I	L
6513	SLC2A1	7341	SUMO1	L
6513	SLC2A1	10755	GIPC1	L
6513	SLC2A1	10980	COPS6	S
6517	SLC2A4	7329	UBE2I	L
6517	SLC2A4	30846	EHD2	L
6520	SLC3A2	8140	SLC7A5	L
6520	SLC3A2	9056	SLC7A7	L
6520	SLC3A2	23657	SLC7A11	L
6521	SLC4A1	22950	SLC4A1AP	L
6529	SLC6A1	6804	STX1A	L
6531	SLC6A3	6622	SNCA	L
6531	SLC6A3	7041	TGFB111	L
6532	SLC6A4	6804	STX1A	L
6536	SLC6A9	6804	STX1A	L
6548	SLC9A1	9448	MAP4K4	L
6548	SLC9A1	11261	CHP	L
6548	SLC9A1	54997	TSC	L
6549	SLC9A2	6708	SPTA1	L
6549	SLC9A2	6709	SPTAN1	L
6549	SLC9A2	6714	SRC	L
6549	SLC9A2	11261	CHP	L
6550	SLC9A3	9351	SLC9A3R2	L
6550	SLC9A3	9368	SLC9A3R1	L
6550	SLC9A3	11261	CHP	L
6553	SLC9A5	11261	CHP	L
6558	SLC12A2	27347	STK39	L
6559	SLC12A3	65266	WNK4	L
6560	SLC12A4	55729	ATF7IP	L

6569	SLC34A1	9368	SLC9A3R1	L
6576	SLC25A1	7414	VCL	L
6580	SLC22A1	29956	LASS2	L
6594	SMARCA1	9031	BAZ1B	L
6595	SMARCA2	6760	SS18	L
6595	SMARCA2	9031	BAZ1B	L
6597	SMARCA4	6760	SS18	L
6597	SMARCA4	6773	STAT2	L
6597	SMARCA4	6794	STK11	L
6597	SMARCA4	8841	HDAC3	L
6597	SMARCA4	9031	BAZ1B	L
6597	SMARCA4	10200	MPHOSPH6	L
6597	SMARCA4	23468	CBX5	L
6597	SMARCA4	51678	MPP6	L
6598	SMARCB1	6714	SRC	L
6598	SMARCB1	7157	TP53	L
6598	SMARCB1	7514	XPO1	L
6598	SMARCB1	8089	YEATS4	L
6598	SMARCB1	9031	BAZ1B	L
6598	SMARCB1	10579	TACC2	L
6598	SMARCB1	56893	UBQLN4	S
6599	SMARCC1	9031	BAZ1B	L
6599	SMARCC1	10661	KLF1	L
6601	SMARCC2	9031	BAZ1B	L
6601	SMARCC2	9796	PHYHIP	S
6602	SMARCD1	9031	BAZ1B	L
6602	SMARCD1	10241	NDP52	R
6602	SMARCD1	11007	DIPA	R
6602	SMARCD1	23641	LDOC1	R
6602	SMARCD1	83878	USHBP1	R
6603	SMARCD2	54464	XRN1	L
6605	SMARCE1	6714	SRC	L
6605	SMARCE1	8202	NCOA3	L
6605	SMARCE1	8648	NCOA1	L
6605	SMARCE1	9031	BAZ1B	L
6605	SMARCE1	10499	NCOA2	L
6606	SMN1	7157	TP53	L
6606	SMN1	7917	BAT3	S
6606	SMN1	8161	COIL	L
6606	SMN1	8487	SIP1	L
6606	SMN1	8880	FUBP1	L
6606	SMN1	9094	UNC119	S
6606	SMN1	9406	ZNF265	L
6606	SMN1	10236	HNRPR	L
6606	SMN1	10248	POP7	L
6606	SMN1	10492	SYNCRIP	L
6606	SMN1	10980	COPS6	S
6606	SMN1	11157	LSM6	L
6606	SMN1	23658	LSM5	L
6606	SMN1	25804	LSM4	L
6606	SMN1	25929	GEMIN5	L
6606	SMN1	26578	OSTF1	L
6606	SMN1	27257	LSM1	L
6606	SMN1	27258	LSM3	L
6606	SMN1	51690	LSM7	L
6606	SMN1	54433	NOLA1	L
6606	SMN1	55093	C8orf32	R
6606	SMN1	55791	C1orf103	S
6606	SMN1	57819	LSM2	L
6606	SMN1	79760	GEMIN7	L
6606	SMN1	114823	LENG8	R
6606	SMN1	134353	LSM11	L
6607	SMN2	6628	SNRPB	L
6607	SMN2	6629	SNRPB2	L
6607	SMN2	6632	SNRPD1	L
6607	SMN2	6633	SNRPD2	L
6607	SMN2	6634	SNRPD3	L

6607	SMN2	6635	SNRPE	L
6607	SMN2	6636	SNRPF	L
6607	SMN2	6637	SNRPG	L
6607	SMN2	8487	SIP1	L
6607	SMN2	11218	DDX20	L
6607	SMN2	50628	GEMIN4	L
6608	SMO	8643	PTCH2	L
6612	SUMO3	7329	UBE2I	L
6612	SUMO3	7431	VIM	S
6612	SUMO3	10054	UBA2	L
6612	SUMO3	59343	SENP2	L
6613	SUMO2	7329	UBE2I	L
6613	SUMO2	7431	VIM	S
6613	SUMO2	9734	HDAC9	L
6613	SUMO2	9759	HDAC4	L
6613	SUMO2	26168	SENP3	L
6613	SUMO2	84232	MAF1	S
6613	SUMO2	84676	TRIM63	L
6614	SN	6693	SPN	L
6614	SN	7143	TNR	L
6616	SNAP25	6804	STX1A	SL
6616	SNAP25	6810	STX4A	L
6616	SNAP25	6812	STXBP1	L
6616	SNAP25	6845	SYBL1	L
6616	SNAP25	6857	SYT1	L
6616	SNAP25	8673	VAMP8	L
6616	SNAP25	8676	STX11	RS
6616	SNAP25	23557	SNAPAP	L
6616	SNAP25	29091	STXBP6	L
6616	SNAP25	80725	SNIP	L
6616	SNAP25	112476	LOC112476	S
6616	SNAP25	114088	TRIM9	L
6616	SNAP25	143425	SYT9	L
6617	SNAPC1	6619	SNAPC3	L
6617	SNAPC1	6621	SNAPC4	L
6618	SNAPC2	6621	SNAPC4	L
6618	SNAPC2	6908	TBP	L
6620	SNCB	6622	SNCA	L
6620	SNCB	80152	FLJ13111	S
6621	SNAPC4	6908	TBP	L
6621	SNAPC4	55290	BRF2	L
6622	SNCA	7054	TH	L
6622	SNCA	7345	UCHL1	L
6622	SNCA	7529	YWHAB	L
6622	SNCA	7531	YWHAE	L
6622	SNCA	7846	TUBA3	L
6622	SNCA	8878	SQSTM1	L
6622	SNCA	9479	MAPK8IP1	L
6622	SNCA	9627	SNCAIP	L
6622	SNCA	54205	CYCS	L
6625	SNRP70	8487	SIP1	L
6625	SNRP70	9150	CTDP1	L
6625	SNRP70	9169	SFRS2IP	L
6625	SNRP70	9295	SFRS11	L
6625	SNRP70	9406	ZNF265	L
6625	SNRP70	10521	DDX17	L
6625	SNRP70	10772	FUSIP1	L
6625	SNRP70	11051	NUDT21	L
6625	SNRP70	25865	PRKD2	L
6625	SNRP70	26994	RNF11	L
6625	SNRP70	55660	FNBP3	L
6625	SNRP70	64750	SMURF2	L
6626	SNRPA	7414	VCL	L
6626	SNRPA	10914	PAPOLA	L
6626	SNRPA	79002	MGC2803	R
6627	SNRPA1	6629	SNRPB2	L
6628	SNRPB	6634	SNRPD3	L

6628	SNRPB	7414	VCL	L
6628	SNRPB	8940	TOP3B	L
6628	SNRPB	9150	CTDP1	L
6628	SNRPB	11161	C14orf1	S
6628	SNRPB	25929	GEMIN5	L
6628	SNRPB	84164	ASCC2	S
6628	SNRPB	134353	LSM11	L
6632	SNRPD1	6633	SNRPD2	L
6632	SNRPD1	10419	SKB1	L
6632	SNRPD1	11218	DDX20	L
6632	SNRPD1	25929	GEMIN5	L
6632	SNRPD1	51691	LSM8	L
6632	SNRPD1	134353	LSM11	L
6633	SNRPD2	10524	HTATIP	S
6633	SNRPD2	11157	LSM6	L
6633	SNRPD2	11218	DDX20	L
6633	SNRPD2	25929	GEMIN5	L
6633	SNRPD2	57819	LSM2	L
6633	SNRPD2	79833	GEMIN6	L
6633	SNRPD2	134353	LSM11	L
6634	SNRPD3	7094	TLN1	L
6634	SNRPD3	10419	SKB1	L
6634	SNRPD3	11218	DDX20	L
6634	SNRPD3	25929	GEMIN5	L
6634	SNRPD3	27258	LSM3	L
6634	SNRPD3	51690	LSM7	L
6635	SNRPE	6637	SNRPG	L
6635	SNRPE	7094	TLN1	L
6635	SNRPE	7414	VCL	L
6635	SNRPE	11218	DDX20	L
6635	SNRPE	23658	LSM5	L
6635	SNRPE	25804	LSM4	L
6635	SNRPE	25929	GEMIN5	L
6635	SNRPE	27258	LSM3	L
6635	SNRPE	57819	LSM2	L
6635	SNRPE	79833	GEMIN6	L
6636	SNRPF	7094	TLN1	L
6636	SNRPF	7414	VCL	L
6636	SNRPF	11218	DDX20	L
6636	SNRPF	23658	LSM5	L
6637	SNRPG	6867	TACC1	L
6637	SNRPG	7088	TLE1	S
6637	SNRPG	7414	VCL	L
6637	SNRPG	10980	COPS6	S
6637	SNRPG	11161	C14orf1	S
6637	SNRPG	11218	DDX20	L
6637	SNRPG	57562	KIAA1377	S
6637	SNRPG	115265	DDIT4L	R
6638	SNRPN	7157	TP53	S
6638	SNRPN	55791	C1orf103	S
6640	SNTA1	7402	UTRN	L
6640	SNTA1	8525	DGKZ	L
6640	SNTA1	27165	GLS2	L
6640	SNTA1	112950	MED8	S
6641	SNTB1	8525	DGKZ	L
6642	SNX1	6643	SNX2	L
6642	SNX1	9146	HGS	L
6642	SNX1	55737	VPS35	L
6643	SNX2	8723	SNX4	L
6643	SNX2	23048	FNBP1	L
6645	SNTB2	7402	UTRN	L
6645	SNTB2	8525	DGKZ	L
6645	SNTB2	23139	MAST2	L
6647	SOD1	9973	CCS	L
6648	SOD2	51608	C7orf20	S
6648	SOD2	57670	KIAA1549	S
6648	SOD2	79159	MGC3731	S

6648	SOD2	307255	(null)	S
6651	SON	7205	TRIP6	L
6651	SON	55660	FNBP3	L
6651	SON	79753	SNIP1	L
6653	SORL1	23062	GGA2	L
6653	SORL1	26088	GGA1	L
6654	SOS1	7535	ZAP70	L
6654	SOS1	8440	NCK2	L
6654	SOS1	10006	ABI1	L
6654	SOS1	10750	GRAP	L
6654	SOS1	10818	FRS2	L
6654	SOS1	29993	PACSIN1	L
6654	SOS1	30011	SH3KBP1	L
6654	SOS1	51225	ABI3	L
6655	SOS2	9402	GRAP2	L
6655	SOS2	10006	ABI1	L
6662	SOX9	7186	TRAF2	L
6662	SOX9	23013	SPEN	L
6667	SP1	6670	SP3	L
6667	SP1	6671	SP4	L
6667	SP1	6720	SREBF1	L
6667	SP1	6721	SREBF2	L
6667	SP1	6874	TAF4	L
6667	SP1	6886	TAL1	L
6667	SP1	7025	NR2F1	L
6667	SP1	7071	KLF10	L
6667	SP1	7528	YY1	L
6667	SP1	7704	ZBTB16	L
6667	SP1	8863	PER3	L
6667	SP1	9314	KLF4	L
6667	SP1	10291	SF3A1	L
6667	SP1	10848	PPP1R13L	L
6667	SP1	23126	POGZ	L
6667	SP1	29102	RNASEN	L
6667	SP1	51341	ZBTB7A	L
6667	SP1	57708	MIER1	L
6670	SP3	8859	STK19	L
6670	SP3	51341	ZBTB7A	L
6671	SP4	51341	ZBTB7A	L
6672	SP100	7341	SUMO1	R
6672	SP100	10951	CBX1	L
6672	SP100	11335	CBX3	L
6672	SP100	23468	CBX5	L
6672	SP100	28996	HIPK2	L
6672	SP100	79753	SNIP1	L
6678	SPARC	7040	TGFB1	L
6678	SPARC	7052	TGM2	L
6678	SPARC	7057	THBS1	L
6678	SPARC	7422	VEGF	L
6687	SPG7	10155	TRIM28	S
6687	SPG7	22913	RALY	S
6687	SPG7	55791	C1orf103	S
6687	SPG7	83755	KRTAP4-12	R
6688	SPI1	6689	SPIB	L
6689	SPIB	6908	TBP	L
6692	SPINT1	6768	ST14	L
6692	SPINT1	55603	FAM46A	L
6693	SPN	7430	VIL2	L
6696	SPP1	9260	PDLIM7	R
6696	SPP1	55324	ABCF3	S
6696	SPP1	56259	CTNBL1	R
6702	SPRR2C	8975	USP13	S
6708	SPTA1	6710	SPTB	L
6708	SPTA1	10006	ABI1	L
6709	SPTAN1	6853	SYN1	L
6709	SPTAN1	7803	PTP4A1	L
6709	SPTAN1	8936	WASF1	L

6709	SPTAN1	10006	ABI1	L
6709	SPTAN1	10078	TSSC4	S
6709	SPTAN1	50944	SHANK1	L
6709	SPTAN1	53635	PTOV1	S
6709	SPTAN1	57062	DDX24	S
6711	SPTBN1	8904	CPNE1	L
6711	SPTBN1	10121	ACTR1A	L
6711	SPTBN1	55729	ATF7IP	L
6711	SPTBN1	57473	GM632	L
6711	SPTBN1	60561	RINT-1	S
6711	SPTBN1	131034	CPNE4	L
6712	SPTBN2	8936	WASF1	L
6712	SPTBN2	10121	ACTR1A	L
6712	SPTBN2	10497	UNC13B	L
6714	SRC	6722	SRF	L
6714	SRC	6772	STAT1	L
6714	SRC	6774	STAT3	L
6714	SRC	6776	STAT5A	L
6714	SRC	6850	SYK	L
6714	SRC	6853	SYN1	L
6714	SRC	6927	TCF1	L
6714	SRC	7074	TIAM1	L
6714	SRC	7189	TRAF6	L
6714	SRC	7205	TRIP6	L
6714	SRC	7225	TRPC6	L
6714	SRC	7275	TUB	L
6714	SRC	7301	TYRO3	L
6714	SRC	7454	WAS	L
6714	SRC	7529	YWHAB	L
6714	SRC	7531	YWHAE	L
6714	SRC	7532	YWHAG	L
6714	SRC	7533	YWHAH	L
6714	SRC	8038	ADAM12	L
6714	SRC	8631	SCAP1	L
6714	SRC	8751	ADAM15	L
6714	SRC	9019	MPZL1	L
6714	SRC	9644	SH3MD1	L
6714	SRC	9846	GAB2	L
6714	SRC	10399	GNB2L1	L
6714	SRC	10657	KHDRBS1	SL
6714	SRC	11099	PTPN21	L
6714	SRC	22920	KIFAP3	L
6714	SRC	23607	CD2AP	L
6714	SRC	23616	SH3BP1	L
6714	SRC	28964	GIT1	L
6714	SRC	50807	DDEF1	L
6714	SRC	51466	EVL	L
6714	SRC	59341	TRPV4	L
6714	SRC	60312	AFAP	L
6714	SRC	91746	YT521	L
6714	SRC	139716	GAB3	L
6717	SRI	10241	NDP52	R
6717	SRI	25801	GCA	L
6720	SREBF1	7329	UBE2I	L
6720	SREBF1	7528	YY1	L
6720	SREBF1	117581	TWIST2	L
6721	SREBF2	7329	UBE2I	L
6721	SREBF2	7341	SUMO1	L
6721	SREBF2	22937	SCAP	L
6721	SREBF2	79434	(null)	S
6722	SRF	6749	SSRP1	L
6722	SRF	7003	TEAD1	L
6722	SRF	8648	NCOA1	L
6722	SRF	9612	NCOR2	L
6722	SRF	29108	PYCARD	L
6722	SRF	57591	MKL1	L
6722	SRF	84525	HOP	L

6722	SRF	93649	MYOCD	L
6722	SRF	159296	NKX2-3	L
6726	SRP9	6727	SRP14	L
6727	SRP14	55968	NSFL1C	S
6728	SRP19	6729	SRP54	L
6728	SRP19	10526	IPO8	L
6728	SRP19	10527	IPO7	L
6730	SRP68	6731	SRP72	L
6733	SRPK2	11338	U2AF2	R
6734	SRPR	6746	SSR2	L
6734	SRPR	9853	RUSC2	S
6737	TRIM21	7375	USP4	L
6737	TRIM21	60491	NIF3L1	R
6744	SSFA2	51631	LUC7L2	S
6745	SSR1	10813	UTP14A	S
6745	SSR1	53371	NUP54	L
6747	SSR3	7916	BAT2	L
6748	SSR4	23072	HECW1	L
6749	SSRP1	26292	MYCBP	S
6749	SSRP1	91754	NEK9	L
6750	SST	6751	SSTR1	L
6750	SST	6752	SSTR2	L
6750	SST	6753	SSTR3	L
6750	SST	6754	SSTR4	L
6750	SST	6755	SSTR5	L
6751	SSTR1	6755	SSTR5	L
6752	SSTR2	22941	SHANK2	L
6752	SSTR2	50944	SHANK1	L
6753	SSTR3	7157	TP53	L
6755	SSTR5	55811	SAC	L
6757	SSX2	117177	RAB3IP	L
6757	SSX2	117178	SSX2IP	L
6760	SS18	8028	MLLT10	L
6767	ST13	9398	IGSF2	S
6767	ST13	93145	OLFM2	S
6770	STAR	9638	FEZ1	S
6770	STAR	54535	CCHCR1	L
6772	STAT1	6773	STAT2	L
6772	STAT1	6774	STAT3	L
6772	STAT1	7132	TNFRSF1A	L
6772	STAT1	7329	UBE2I	L
6772	STAT1	7421	VDR	L
6772	STAT1	7514	XPO1	L
6772	STAT1	8554	PIAS1	L
6772	STAT1	8717	TRADD	L
6772	STAT1	9111	NMI	L
6772	STAT1	9466	IL27RA	L
6772	STAT1	10379	ISGF3G	L
6772	STAT1	10399	GNB2L1	L
6772	STAT1	84285	MGC11102	R
6773	STAT2	9282	CRSP2	L
6773	STAT2	10379	ISGF3G	L
6774	STAT3	6850	SYK	L
6774	STAT3	6927	TCF1	L
6774	STAT3	7253	TSHR	L
6774	STAT3	8553	BHLHB2	L
6774	STAT3	8648	NCOA1	L
6774	STAT3	9111	NMI	L
6774	STAT3	10401	PIAS3	L
6774	STAT3	10524	HTATIP	L
6774	STAT3	10657	KHDRBS1	L
6774	STAT3	51079	NDUFA13	L
6774	STAT3	85480	TSLP	L
6775	STAT4	9063	PIAS2	L
6775	STAT4	9111	NMI	L
6776	STAT5A	6777	STAT5B	L
6776	STAT5A	6850	SYK	L

6776	STAT5A	9111	NMI	L
6776	STAT5A	9612	NCOR2	L
6776	STAT5A	55835	CENPJ	L
6776	STAT5A	56952	PRTFDC1	R
6776	STAT5A	85480	TSLP	L
6777	STAT5B	9111	NMI	L
6777	STAT5B	9612	NCOR2	L
6777	STAT5B	55835	CENPJ	L
6778	STAT6	8648	NCOA1	L
6778	STAT6	9111	NMI	L
6778	STAT6	27044	SND1	L
6782	STCH	29978	UBQLN2	L
6782	STCH	29979	UBQLN1	R
6783	SULT1E1	6820	SULT2B1	R
6783	SULT1E1	7157	TP53	S
6783	SULT1E1	9094	UNC119	S
6783	SULT1E1	9869	SETDB1	S
6783	SULT1E1	10980	COPS6	S
6783	SULT1E1	11161	C14orf1	S
6783	SULT1E1	55068	FLJ10094	R
6783	SULT1E1	55791	C1orf103	S
6783	SULT1E1	84060	DKFZP564O0523	S
6783	SULT1E1	84966	IGSF21	S
6786	STIM1	57620	STIM2	L
6789	STK4	7157	TP53	L
6789	STK4	83593	RASSF5	L
6790	STK6	6867	TACC1	L
6790	STK6	7157	TP53	L
6790	STK6	7334	UBE2N	L
6790	STK6	9793	CKAP5	L
6790	STK6	22974	TPX2	L
6790	STK6	51199	NIN	L
6790	STK6	53615	MBD3	L
6794	STK11	7157	TP53	L
6794	STK11	11140	CDC37	L
6794	STK11	25843	PREI3	S
6794	STK11	114790	STK11IP	L
6801	STRN	55729	ATF7IP	L
6804	STX1A	6812	STXBP1	L
6804	STX1A	6813	STXBP2	L
6804	STX1A	6843	VAMP1	L
6804	STX1A	6844	VAMP2	L
6804	STX1A	6845	SYBL1	L
6804	STX1A	6857	SYT1	L
6804	STX1A	6860	SYT4	L
6804	STX1A	7431	VIM	S
6804	STX1A	8673	VAMP8	L
6804	STX1A	8773	SNAP23	L
6804	STX1A	8775	NAPA	L
6804	STX1A	9482	STX8	L
6804	STX1A	10497	UNC13B	L
6804	STX1A	10814	CPLX2	L
6804	STX1A	10815	CPLX1	L
6804	STX1A	29091	STXBP6	L
6804	STX1A	54462	KIAA1128	S
6804	STX1A	94121	SYTL4	L
6804	STX1A	134957	STXBP5	L
6804	STX1A	167838	TXLNB	L
6804	STX1A	200081	TXLNA	L
6809	STX3A	7094	TLN1	L
6809	STX3A	7414	VCL	L
6810	STX4A	6814	STXBP3	L
6810	STX4A	6860	SYT4	L
6810	STX4A	8673	VAMP8	L
6810	STX4A	8674	VAMP4	R
6810	STX4A	8766	RAB11A	L
6810	STX4A	8773	SNAP23	L

6810	STX4A	8775	NAPA	R
6810	STX4A	9341	VAMP3	R
6810	STX4A	29091	STXBP6	L
6810	STX4A	167838	TXLNB	L
6810	STX4A	200081	TXLNA	L
6811	STX5A	7157	TP53	S
6811	STX5A	7917	BAT3	S
6811	STX5A	8615	VDP	L
6811	STX5A	8775	NAPA	R
6811	STX5A	9001	HAP1	S
6811	STX5A	9527	GOSR1	L
6811	STX5A	9554	SEC22L1	L
6811	STX5A	9570	GOSR2	L
6811	STX5A	10980	COPS6	S
6811	STX5A	10989	IMMT	S
6811	STX5A	55791	C1orf103	S
6811	STX5A	55968	NSFL1C	L
6812	STXBP1	8447	DOC2B	L
6812	STXBP1	8448	DOC2A	L
6812	STXBP1	8615	VDP	L
6813	STXBP2	6844	VAMP2	L
6813	STXBP2	8773	SNAP23	L
6820	SULT2B1	130540	ALS2CR12	R
6829	SUPT5H	9372	ZFYVE9	L
6829	SUPT5H	10419	SKB1	L
6829	SUPT5H	27336	HTATSF1	L
6829	SUPT5H	57473	GM632	L
6835	SURF2	8703	B4GALT3	S
6837	SURF5	51280	GOLPH2	S
6839	SUV39H1	10014	HDAC5	L
6839	SUV39H1	10951	CBX1	L
6839	SUV39H1	23468	CBX5	RL
6840	SVIL	7041	TGFB1I1	L
6840	SVIL	51631	LUC7L2	S
6843	VAMP1	8773	SNAP23	L
6843	VAMP1	9217	VAPB	L
6843	VAMP1	9218	VAPA	L
6844	VAMP2	7222	TRPC3	L
6844	VAMP2	8673	VAMP8	L
6844	VAMP2	8676	STX11	L
6844	VAMP2	8773	SNAP23	L
6844	VAMP2	9217	VAPB	L
6844	VAMP2	9218	VAPA	L
6844	VAMP2	10567	RABAC1	L
6844	VAMP2	10815	CPLX1	L
6845	SYBL1	8417	STX7	L
6845	SYBL1	8773	SNAP23	L
6845	SYBL1	8943	AP3D1	L
6850	SYK	7189	TRAF6	L
6850	SYK	7314	UBB	L
6850	SYK	7409	VAV1	L
6850	SYK	7430	VIL2	L
6850	SYK	7846	TUBA3	L
6850	SYK	27040	LAT	L
6850	SYK	27240	SIT1	L
6850	SYK	29760	BLNK	L
6850	SYK	55824	PAG1	L
6853	SYN1	7431	VIM	S
6853	SYN1	8224	SYN3	L
6853	SYN1	10524	HTATIP	S
6854	SYN2	8224	SYN3	L
6857	SYT1	6860	SYT4	L
6857	SYT1	9899	SV2B	L
6857	SYT1	10399	GNB2L1	L
6857	SYT1	10492	SYNCRIP	L
6857	SYT1	10815	CPLX1	L
6857	SYT1	51280	GOLPH2	S

6857	SYT1	85439	STN2	L
6860	SYT4	7021	TFAP2B	L
6860	SYT4	10492	SYNCRIP	L
6861	SYT5	10492	SYNCRIP	L
6861	SYT5	84258	SYT3	L
6863	TAC1	6865	TACR2	L
6863	TAC1	6866	TAC3	L
6863	TAC1	6869	TACR1	L
6863	TAC1	6870	TACR3	L
6863	TAC1	7917	BAT3	S
6863	TAC1	55701	FLJ10357	S
6865	TACR2	6866	TAC3	L
6865	TACR2	255061	TAC4	L
6866	TAC3	6869	TACR1	L
6866	TAC3	6870	TACR3	L
6866	TAC3	8518	IKBKAP	S
6866	TAC3	9638	FEZ1	S
6866	TAC3	9737	GPRASP1	S
6866	TAC3	60492	MDS025	S
6866	TAC3	197131	UBR1	S
6867	TACC1	8089	YEATS4	L
6867	TACC1	9212	AURKB	L
6867	TACC1	51690	LSM7	L
6868	ADAM17	7078	TIMP3	L
6868	ADAM17	10459	MAD2L2	L
6869	TACR1	255061	TAC4	L
6870	TACR3	255061	TAC4	L
6871	TADA2L	9146	HGS	R
6871	TADA2L	10474	TADA3L	RL
6871	TADA2L	11170	TU3A	R
6871	TADA2L	149371	EXOC8	R
6872	TAF1	6873	TAF2	L
6872	TAF1	6879	TAF7	L
6872	TAF1	6908	TBP	L
6872	TAF1	7157	TP53	L
6872	TAF1	7343	UBTF	L
6872	TAF1	8148	TAF15	L
6872	TAF1	8290	HIST3H3	L
6872	TAF1	8721	EDF1	L
6872	TAF1	10923	SUB1	L
6872	TAF1	25842	ASF1A	L
6874	TAF4	6883	TAF12	L
6874	TAF4	23468	CBX5	L
6879	TAF7	8148	TAF15	L
6879	TAF7	8805	TRIM24	L
6879	TAF7	29894	CPSF1	L
6880	TAF9	10589	DRAP1	R
6880	TAF9	84060	DKFZP564O0523	S
6882	TAF11	6884	TAF13	L
6885	MAP3K7	8204	NRIP1	L
6885	MAP3K7	8792	TNFRSF11A	L
6885	MAP3K7	9020	MAP3K14	L
6885	MAP3K7	9146	HGS	L
6885	MAP3K7	9448	MAP4K4	L
6885	MAP3K7	10454	MAP3K7IP1	L
6885	MAP3K7	10758	TRAF3IP2	L
6885	MAP3K7	11184	MAP4K1	L
6885	MAP3K7	55437	ALS2CR2	L
6886	TAL1	6929	TCF3	L
6886	TAL1	54892	LUZP5	L
6887	TAL2	6929	TCF3	L
6888	TALDO1	51691	LSM8	L
6890	TAP1	83755	KRTAP4-12	R
6892	TAPBP	22820	COPG	L
6892	TAPBP	26958	COPG2	L
6895	TARBP2	9618	TRAF4	L
6895	TARBP2	10432	RBM14	L

6895	TARBP2	307255	(null)	S
6900	CNTN2	26047	CNTNAP2	L
6904	TBCD	7280	TUBB2	L
6904	TBCD	28955	DEXI	S
6905	TBCE	7277	TUBA1	L
6907	TBL1X	8349	HIST2H2BE	L
6907	TBL1X	9611	NCOR1	L
6907	TBL1X	9612	NCOR2	L
6907	TBL1X	27101	CACYBP	L
6908	TBP	7157	TP53	L
6908	TBP	7343	UBTF	L
6908	TBP	8202	NCOA3	L
6908	TBP	8648	NCOA1	L
6908	TBP	8721	EDF1	L
6908	TBP	8804	CREG1	L
6908	TBP	9013	TAF1C	L
6908	TBP	9014	TAF1B	L
6908	TBP	9015	TAF1A	L
6908	TBP	9044	BTAF1	L
6908	TBP	9325	TRIP4	L
6908	TBP	10320	ZNFN1A1	L
6908	TBP	10589	DRAP1	L
6908	TBP	10923	SUB1	L
6908	TBP	54457	TAF7L	L
6908	TBP	55290	BRF2	L
6908	TBP	138474	TAF1L	L
6908	TBP	284403	WDR62	S
6915	TBXA2R	10672	GNA13	L
6917	TCEA1	9150	CTDP1	L
6919	TCEA2	7186	TRAF2	R
6919	TCEA2	22911	WDR47	S
6919	TCEA2	30851	TAX1BP3	S
6919	TCEA2	54462	KIAA1128	S
6919	TCEA2	79012	CAMKV	S
6919	TCEA2	80152	FLJ13111	S
6919	TCEA2	84335	AKT1S1	S
6919	TCEA2	85302	FBF1	S
6921	TCEB1	6923	TCEB2	RL
6921	TCEB1	7428	VHL	L
6921	TCEB1	9021	SOCS3	L
6921	TCEB1	9306	SOCS6	L
6921	TCEB1	10489	LRRC41	L
6921	TCEB1	23032	USP33	L
6921	TCEB1	140461	ASB8	L
6923	TCEB2	7428	VHL	L
6923	TCEB2	9021	SOCS3	L
6923	TCEB2	9306	SOCS6	L
6923	TCEB2	10489	LRRC41	L
6923	TCEB2	23032	USP33	L
6923	TCEB2	140461	ASB8	L
6924	TCEB3	22981	KIAA0980	R
6925	TCF4	6929	TCF3	L
6925	TCF4	9242	MSC	L
6927	TCF1	6928	TCF2	L
6927	TCF1	7088	TLE1	L
6927	TCF1	8850	PCAF	L
6929	TCF3	6938	TCF12	L
6929	TCF3	7291	TWIST1	L
6929	TCF3	7867	MAPKAPK3	L
6929	TCF3	8850	PCAF	L
6929	TCF3	9242	MSC	L
6929	TCF3	9421	HAND1	L
6929	TCF3	9464	HAND2	L
6929	TCF3	29844	TFPT	L
6929	TCF3	256297	PTF1A	L
6935	TCF8	10524	HTATIP	L
6935	TCF8	10589	DRAP1	L

6936	C2orf3	7094	TLN1	L
6938	TCF12	6943	TCF21	L
6938	TCF12	9242	MSC	L
6938	TCF12	9421	HAND1	L
6938	TCF12	11098	PRSS23	S
6938	TCF12	256297	PTF1A	L
6940	ZNF354A	8655	DNCL1	L
6943	TCF21	8543	LMO4	L
6944	VPS72	10241	NDP52	R
6944	VPS72	11007	DIPA	R
6945	MLX	11345	GABARAPL2	R
6950	TCP1	51807	TUBA8	L
6955	TRA@	6964	TRD@	L
6955	TRA@	28639	TRBC1	L
6955	TRA@	50852	TRAT1	L
6955	TRA@	51176	LEF1	L
6990	TCTE1L	7416	VDAC1	L
6990	TCTE1L	54997	TSC	R
6993	TCTEL1	7416	VDAC1	L
6996	TDG	7067	THRA	L
6996	TDG	7341	SUMO1	L
6996	TDG	7421	VDR	L
6996	TDG	7508	XPC	L
6996	TDG	7919	BAT1	L
6997	TDGF1	7917	BAT3	S
6997	TDGF1	10980	COPS6	S
6997	TDGF1	55791	C1orf103	S
6997	TDGF1	130399	ACVR1C	L
6999	TDO2	8623	ASMTL	R
7003	TEAD1	9686	VGLL4	L
7003	TEAD1	10413	YAP1	L
7003	TEAD1	51442	VGLL1	L
7004	TEAD4	10413	YAP1	L
7004	TEAD4	11007	DIPA	R
7004	TEAD4	25937	WWTR1	R
7004	TEAD4	51442	VGLL1	L
7005	TEAD3	10413	YAP1	L
7005	TEAD3	25937	WWTR1	R
7005	TEAD3	51442	VGLL1	L
7006	TEC	7409	VAV1	L
7006	TEC	7454	WAS	L
7006	TEC	8503	PIK3R3	L
7006	TEC	8651	SOCS1	L
7006	TEC	10733	PLK4	L
7006	TEC	11099	PTPN21	L
7008	TEF	10538	BATF	L
7008	TEF	55509	SNFT	L
7010	TEK	7075	TIE1	L
7010	TEK	8651	SOCS1	L
7010	TEK	9046	DOK2	L
7010	TEK	9068	ANGPTL1	L
7010	TEK	51378	ANGPT4	L
7011	TEP1	7015	TERT	L
7011	TEP1	7157	TP53	L
7013	TERF1	7704	ZBTB16	S
7013	TERF1	8658	TNKS	L
7013	TERF1	9231	DLG5	S
7013	TERF1	10813	UTP14A	S
7013	TERF1	11244	ZHX1	S
7013	TERF1	22919	MAPRE1	L
7013	TERF1	25913	POT1	L
7013	TERF1	26277	TINF2	SL
7013	TERF1	28964	GIT1	S
7013	TERF1	54984	PINX1	L
7013	TERF1	60626	RIC8A	S
7013	TERF1	80351	TNKS2	L
7014	TERF2	7486	WRN	L

7014	TERF2	10111	RAD50	L
7014	TERF2	54386	TERF2IP	L
7015	TERT	7514	XPO1	L
7015	TERT	7520	XRCC5	L
7015	TERT	10445	MCRS1	L
7015	TERT	10519	CIB1	L
7015	TERT	10971	YWHAQ	L
7015	TERT	23293	C17orf31	L
7015	TERT	54984	PINX1	L
7016	TESK1	7529	YWHAB	L
7016	TESK1	81848	SPRY4	L
7018	TF	7036	TFR2	L
7018	TF	7037	TFRC	L
7018	TF	8029	CUBN	L
7018	TF	10381	TUBB3	S
7019	TFAM	51106	TFB1M	L
7020	TFAP2A	7157	TP53	L
7020	TFAP2A	7913	DEK	L
7020	TFAP2A	10370	CITED2	L
7020	TFAP2A	26119	LDLRAP1	L
7020	TFAP2A	163732	CITED4	L
7021	TFAP2B	8334	HIST1H2AC	S
7021	TFAP2B	55823	VPS11	S
7021	TFAP2B	163732	CITED4	L
7022	TFAP2C	7157	TP53	L
7022	TFAP2C	10370	CITED2	L
7022	TFAP2C	163732	CITED4	L
7025	NR2F1	7067	THRA	L
7025	NR2F1	8648	NCOA1	L
7025	NR2F1	53335	BCL11A	L
7025	NR2F1	64919	BCL11B	L
7026	NR2F2	8805	TRIM24	L
7026	NR2F2	8878	SQSTM1	L
7026	NR2F2	10114	HIPK3	L
7026	NR2F2	53335	BCL11A	L
7026	NR2F2	55603	FAM46A	L
7026	NR2F2	64919	BCL11B	L
7027	TFDP1	7157	TP53	L
7030	TFE3	7942	TFEB	L
7030	TFE3	22797	TFEC	L
7031	TFF1	29979	UBQLN1	R
7035	TFPI	7057	THBS1	L
7037	TFRC	7094	TLN1	L
7037	TFRC	7414	VCL	L
7037	TFRC	11337	GABARAP	L
7037	TFRC	148738	HFE2	L
7040	TGFB1	7042	TGFB2	L
7040	TGFB1	7046	TGFBR1	L
7040	TGFB1	7048	TGFBR2	L
7040	TGFB1	7049	TGFBR3	L
7040	TGFB1	7057	THBS1	L
7040	TGFB1	7448	VTN	L
7040	TGFB1	7531	YWHAE	L
7040	TGFB1	8425	LTBP4	L
7040	TGFB1	8668	EIF3S2	L
7040	TGFB1	114990	SLITL2	L
7041	TGFB111	7048	TGFBR2	L
7041	TGFB111	9618	TRAF4	L
7041	TGFB111	10114	HIPK3	L
7041	TGFB111	28964	GIT1	L
7042	TGFB2	7043	TGFB3	L
7042	TGFB2	7046	TGFBR1	L
7042	TGFB2	7048	TGFBR2	L
7042	TGFB2	7049	TGFBR3	L
7042	TGFB2	7448	VTN	L
7042	TGFB2	114990	SLITL2	L
7043	TGFB3	7046	TGFBR1	L

7043	TGFB3	7048	TGFBR2	L
7043	TGFB3	7049	TGFBR3	L
7043	TGFB3	114990	SLITL2	L
7046	TGFBR1	7049	TGFBR3	L
7046	TGFBR1	9372	ZFYVE9	L
7046	TGFBR1	9392	TGFBRAP1	L
7046	TGFBR1	11171	STRAP	L
7046	TGFBR1	51776	ZAK	L
7046	TGFBR1	64750	SMURF2	L
7048	TGFBR2	7049	TGFBR3	L
7048	TGFBR2	8668	EIF3S2	L
7048	TGFBR2	9133	CCNB2	L
7048	TGFBR2	9372	ZFYVE9	L
7048	TGFBR2	9392	TGFBRAP1	L
7048	TGFBR2	11171	STRAP	L
7049	TGFBR3	10755	GIPC1	L
7050	TGIF	51003	MED31	S
7050	TGIF	55791	C1orf103	S
7052	TGM2	7280	TUBB2	L
7052	TGM2	8349	HIST2H2BE	L
7052	TGM2	51535	PPHLN1	L
7052	TGM2	57473	GM632	L
7053	TGM3	51806	CALML5	L
7057	THBS1	11151	CORO1A	L
7058	THBS2	7059	THBS3	L
7064	THOP1	10200	MPHOSPH6	L
7064	THOP1	51678	MPP6	L
7067	THRA	7533	YWHAH	L
7067	THRA	8638	OASL	L
7067	THRA	8648	NCOA1	L
7067	THRA	9318	COPS2	L
7067	THRA	9412	SURB7	L
7067	THRA	9612	NCOR2	L
7067	THRA	11214	AKAP13	L
7067	THRA	64324	NSD1	L
7068	THRB	7157	TP53	L
7068	THRB	7205	TRIP6	L
7068	THRB	8125	ANP32A	L
7068	THRB	8202	NCOA3	L
7068	THRB	8648	NCOA1	L
7068	THRB	8841	HDAC3	L
7068	THRB	9318	COPS2	L
7068	THRB	9319	TRIP13	L
7068	THRB	9320	TRIP12	L
7068	THRB	9322	TRIP10	L
7068	THRB	9325	TRIP4	L
7068	THRB	9326	ZNHIT3	L
7068	THRB	9412	SURB7	L
7068	THRB	9612	NCOR2	L
7068	THRB	10499	NCOA2	L
7068	THRB	10664	CTCF	L
7068	THRB	10891	PPARGC1A	L
7068	THRB	10902	BRD8	L
7068	THRB	29982	NRBF2	L
7068	THRB	221037	JMJD1C	L
7071	KLF10	57473	GM632	L
7072	TIA1	10922	FASTK	L
7074	TIAM1	9479	MAPK8IP1	L
7074	TIAM1	23542	MAPK8IP2	L
7074	TIAM1	84687	PPP1R9B	L
7076	TIMP1	9400	RECQL5	S
7076	TIMP1	222019	(null)	S
7080	TITF1	7849	PAX8	L
7080	TITF1	8648	NCOA1	L
7080	TITF1	10499	NCOA2	L
7080	TITF1	28996	HIPK2	L
7082	TJP1	7122	CLDN5	L

7082	TJP1	9075	CLDN2	L
7082	TJP1	9076	CLDN1	L
7082	TJP1	9414	TJP2	L
7082	TJP1	10052	GJA7	L
7082	TJP1	55243	KIRREL	L
7082	TJP1	57530	CGN	L
7082	TJP1	58494	JAM2	L
7082	TJP1	83700	JAM3	L
7083	TK1	7088	TLE1	S
7083	TK1	7157	TP53	S
7083	TK1	7280	TUBB2	S
7083	TK1	9094	UNC119	S
7083	TK1	9869	SETDB1	S
7083	TK1	10589	DRAP1	S
7083	TK1	10980	COPS6	S
7083	TK1	11161	C14orf1	S
7083	TK1	55791	C1orf103	S
7083	TK1	60492	MDS025	S
7083	TK1	84060	DKFZP564O0523	S
7088	TLE1	7089	TLE2	L
7088	TLE1	7403	UTX	L
7088	TLE1	7404	UTY	L
7088	TLE1	8880	FUBP1	S
7088	TLE1	8894	EIF2S2	S
7088	TLE1	9802	DAZAP2	S
7088	TLE1	9921	RNF10	S
7088	TLE1	10200	MPHOSPH6	S
7088	TLE1	10301	DLEU1	S
7088	TLE1	10736	SIX2	L
7088	TLE1	11189	TNRC4	S
7088	TLE1	19241	(null)	S
7088	TLE1	51176	LEF1	L
7088	TLE1	51804	SIX4	L
7088	TLE1	53826	FXYD6	S
7088	TLE1	54544	C1orf42	S
7088	TLE1	55502	HES6	L
7088	TLE1	55643	BTBD2	S
7088	TLE1	55734	ZFP64	S
7088	TLE1	56144	PCDHA4	S
7089	TLE2	7404	UTY	L
7090	TLE3	51804	SIX4	L
7094	TLN1	7172	TPMT	L
7094	TLN1	7414	VCL	L
7094	TLN1	7431	VIM	L
7094	TLN1	9349	RPL23	L
7094	TLN1	9774	BCLAF1	L
7094	TLN1	9898	UBAP2L	L
7094	TLN1	9908	G3BP2	L
7094	TLN1	10146	G3BP	L
7094	TLN1	10276	NET1	L
7094	TLN1	10363	HMG20A	L
7094	TLN1	10399	GNB2L1	L
7094	TLN1	10409	BASP1	L
7094	TLN1	10493	VAT1	L
7094	TLN1	10565	ARFGEF1	L
7094	TLN1	10657	KHDRBS1	L
7094	TLN1	10863	ADAM28	L
7094	TLN1	22844	FRMPD1	L
7094	TLN1	23066	CAND2	L
7094	TLN1	23116	KIAA0423	L
7094	TLN1	23231	KIAA0746	L
7094	TLN1	23256	SCFD1	L
7094	TLN1	23332	CLASP1	L
7094	TLN1	26136	TES	L
7094	TLN1	26960	NBEA	L
7094	TLN1	26986	PABPC1	L
7094	TLN1	51493	HSPC117	L

7094	TLN1	51663	ZFR	L
7094	TLN1	54931	RG9MTD1	L
7094	TLN1	55901	THSD1	L
7094	TLN1	57099	AVEN	L
7094	TLN1	64754	SMYD3	L
7094	TLN1	80079	FLJ13769	L
7094	TLN1	114991	ZNF618	L
7094	TLN1	220885	LAMR1P15	L
7094	TLN1	284058	LOC284058	L
7095	TLOC1	11231	SEC63	L
7096	TLR1	7097	TLR2	L
7096	TLR1	7099	TLR4	L
7097	TLR2	7184	TRA1	L
7097	TLR2	10333	TLR6	L
7097	TLR2	23643	LY96	L
7097	TLR2	54472	TOLLIP	L
7099	TLR4	7184	TRA1	L
7099	TLR4	23643	LY96	L
7099	TLR4	54472	TOLLIP	L
7099	TLR4	114609	TIRAP	L
7102	TSPAN7	84248	FYTTD1	S
7105	TSPAN6	55791	C1orf103	S
7112	TMPO	8815	BANF1	L
7112	TMPO	26993	AKAP8L	L
7122	CLDN5	8777	MPDZ	L
7124	TNF	7132	TNFRSF1A	L
7124	TNF	7133	TNFRSF1B	L
7128	TNFAIP3	7185	TRAF1	L
7128	TNFAIP3	7186	TRAF2	L
7128	TNFAIP3	7189	TRAF6	L
7128	TNFAIP3	7529	YWHAB	L
7128	TNFAIP3	7531	YWHAE	L
7128	TNFAIP3	7532	YWHAG	L
7128	TNFAIP3	7533	YWHAH	L
7128	TNFAIP3	7534	YWHAZ	L
7128	TNFAIP3	7805	LAPTM5	L
7128	TNFAIP3	8517	IKBKG	L
7128	TNFAIP3	8737	RIPK1	L
7128	TNFAIP3	8887	TAX1BP1	L
7128	TNFAIP3	10318	TNIP1	L
7128	TNFAIP3	26994	RNF11	L
7128	TNFAIP3	79155	TNIP2	L
7132	TNFRSF1A	7185	TRAF1	L
7132	TNFRSF1A	7186	TRAF2	L
7132	TNFRSF1A	7329	UBE2I	L
7132	TNFRSF1A	7341	SUMO1	L
7132	TNFRSF1A	8396	PIP5K2B	L
7132	TNFRSF1A	8439	NSMAF	L
7132	TNFRSF1A	8517	IKBKG	L
7132	TNFRSF1A	8567	MADD	L
7132	TNFRSF1A	8717	TRADD	L
7132	TNFRSF1A	8737	RIPK1	L
7132	TNFRSF1A	8767	RIPK2	L
7132	TNFRSF1A	9530	BAG4	L
7132	TNFRSF1A	10131	TRAP1	L
7132	TNFRSF1A	10399	GNB2L1	L
7132	TNFRSF1A	11035	RIPK3	L
7132	TNFRSF1A	26133	TRPC4AP	L
7132	TNFRSF1A	407977	TNFSF12-TNFSF13	L
7133	TNFRSF1B	7185	TRAF1	L
7133	TNFRSF1B	7186	TRAF2	L
7133	TNFRSF1B	10293	TRIP	L
7133	TNFRSF1B	51567	TTRAP	L
7133	TNFRSF1B	59269	HIVEP3	L
7134	TNNC1	7137	TNNI3	L
7134	TNNC1	7139	TNNT2	L
7135	TNNI1	11007	DIPA	R

7137	TNNI3	7138	TNNT1	L
7137	TNNI3	7139	TNNT2	L
7138	TNNT1	8500	PPFIA1	R
7138	TNNT1	9240	PNMA1	S
7138	TNNT1	9513	FXR2	R
7138	TNNT1	11007	DIPA	R
7138	TNNT1	22981	KIAA0980	R
7138	TNNT1	79156	PLEKHF1	R
7138	TNNT1	116225	ZMYND19	R
7140	TNNT3	9001	HAP1	S
7140	TNNT3	10073	RNUT1	S
7143	TNR	63827	BCAN	L
7150	TOP1	7157	TP53	L
7150	TOP1	7329	UBE2I	L
7150	TOP1	7341	SUMO1	L
7150	TOP1	9295	SFRS11	L
7150	TOP1	10210	TOPORS	L
7150	TOP1	55775	TDP1	L
7153	TOP2A	7155	TOP2B	L
7153	TOP2A	7157	TP53	L
7153	TOP2A	7341	SUMO1	L
7153	TOP2A	7514	XPO1	L
7153	TOP2A	7531	YWHAE	L
7155	TOP2B	7157	TP53	L
7155	TOP2B	7341	SUMO1	L
7155	TOP2B	7514	XPO1	L
7155	TOP2B	11073	TOPBP1	L
7156	TOP3A	9400	RECQL5	L
7157	TP53	7158	TP53BP1	L
7157	TP53	7159	TP53BP2	L
7157	TP53	7251	TSG101	L
7157	TP53	7319	UBE2A	L
7157	TP53	7329	UBE2I	L
7157	TP53	7337	UBE3A	L
7157	TP53	7341	SUMO1	L
7157	TP53	7486	WRN	L
7157	TP53	7490	WT1	L
7157	TP53	7534	YWHAZ	L
7157	TP53	7572	ZNF24	S
7157	TP53	7707	ZNF148	L
7157	TP53	7874	USP7	L
7157	TP53	8178	ELL	L
7157	TP53	8554	PIAS1	L
7157	TP53	8555	CDC14B	L
7157	TP53	8556	CDC14A	L
7157	TP53	8575	PRKRA	L
7157	TP53	8894	EIF2S2	S
7157	TP53	9013	TAF1C	L
7157	TP53	9014	TAF1B	L
7157	TP53	9015	TAF1A	L
7157	TP53	9112	MTA1	L
7157	TP53	9232	PTTG1	L
7157	TP53	9314	KLF4	L
7157	TP53	9440	CRSP6	L
7157	TP53	9587	MAD2L1BP	S
7157	TP53	9808	KIAA0087	S
7157	TP53	10063	COX17	S
7157	TP53	10153	CEBPZ	L
7157	TP53	10200	MPHOSPH6	S
7157	TP53	10210	TOPORS	L
7157	TP53	10301	DLEU1	S
7157	TP53	10425	ARIH2	S
7157	TP53	10474	TADA3L	L
7157	TP53	10571	SMA3	S
7157	TP53	10848	PPP1R13L	L
7157	TP53	19241	(null)	S
7157	TP53	23113	PARC	L

7157	TP53	23411	SIRT1	L
7157	TP53	25898	RCHY1	L
7157	TP53	25942	SIN3A	L
7157	TP53	26354	GNL3	L
7157	TP53	28996	HIPK2	L
7157	TP53	29903	HSU79303	S
7157	TP53	30008	EFEMP2	L
7157	TP53	50484	RRM2B	L
7157	TP53	51147	ING4	L
7157	TP53	51246	SCOTIN	L
7157	TP53	51741	WVOX	L
7157	TP53	54819	ZCCHC10	S
7157	TP53	55339	WDR33	S
7157	TP53	55643	BTBD2	S
7157	TP53	56144	PCDHA4	S
7157	TP53	64326	RFWD2	L
7157	TP53	65990	C16orf24	S
7157	TP53	84289	ING5	L
7157	TP53	94241	TP53INP1	L
7157	TP53	199745	THAP8	S
7157	TP53	204851	HIPK1	L
7157	TP53	286514	MAGEB18	R
7158	TP53BP1	22059	(null)	S
7159	TP53BP2	7375	USP4	S
7159	TP53BP2	8883	APPBP1	L
7159	TP53BP2	9094	UNC119	S
7159	TP53BP2	10413	YAP1	L
7159	TP53BP2	10813	UTP14A	S
7159	TP53BP2	55052	MRPL20	S
7161	TP73	10153	CEBPZ	L
7161	TP73	10260	MYCPBP	L
7161	TP73	10399	GNB2L1	L
7161	TP73	10413	YAP1	L
7161	TP73	28996	HIPK2	L
7162	TPBG	10755	GIPC1	L
7163	TPD52	7164	TPD52L1	L
7163	TPD52	114569	MAL2	L
7164	TPD52L1	7529	YWHAB	L
7164	TPD52L1	7534	YWHAZ	L
7164	TPD52L1	8669	EIF3S1	S
7164	TPD52L1	57002	C7orf36	S
7164	TPD52L1	64582	GPR135	S
7164	TPD52L1	114569	MAL2	L
7166	TPH1	7533	YWHAH	L
7166	TPH1	7534	YWHAZ	L
7167	TPI1	9869	SETDB1	S
7167	TPI1	51601	LIPT1	S
7167	TPI1	57062	DDX24	S
7168	TPM1	7169	TPM2	L
7168	TPM1	79036	MGC2749	R
7169	TPM2	9260	PDLIM7	L
7170	TPM3	29844	TFPT	R
7170	TPM3	79036	MGC2749	R
7171	TPM4	7205	TRIP6	L
7171	TPM4	10915	TCERG1	L
7175	TPR	9972	NUP153	L
7181	NR2C1	7182	NR2C2	L
7181	NR2C1	8204	NRIP1	L
7181	NR2C1	8841	HDAC3	L
7181	NR2C1	9759	HDAC4	L
7182	NR2C2	257397	TAB3	L
7185	TRAF1	7186	TRAF2	L
7185	TRAF1	7874	USP7	L
7185	TRAF1	8717	TRADD	L
7185	TRAF1	8737	RIPK1	L
7185	TRAF1	8744	TNFSF9	L
7185	TRAF1	8764	TNFRSF14	L

7185	TRAF1	8767	RIPK2	L
7185	TRAF1	8784	TNFRSF18	L
7185	TRAF1	8792	TNFRSF11A	L
7185	TRAF1	8837	CFLAR	L
7185	TRAF1	9020	MAP3K14	L
7185	TRAF1	10010	TANK	L
7185	TRAF1	10293	TRIP	L
7185	TRAF1	51330	TNFRSF12A	L
7185	TRAF1	55504	TNFRSF19	L
7185	TRAF1	59269	HIVEP3	L
7186	TRAF2	7189	TRAF6	R
7186	TRAF2	7292	TNFSF4	L
7186	TRAF2	7293	TNFRSF4	L
7186	TRAF2	7597	ZBTB25	R
7186	TRAF2	7704	ZBTB16	R
7186	TRAF2	7755	ZNF205	R
7186	TRAF2	7874	USP7	L
7186	TRAF2	8204	NRIP1	R
7186	TRAF2	8717	TRADD	L
7186	TRAF2	8737	RIPK1	L
7186	TRAF2	8744	TNFSF9	L
7186	TRAF2	8764	TNFRSF14	L
7186	TRAF2	8767	RIPK2	L
7186	TRAF2	8784	TNFRSF18	L
7186	TRAF2	8792	TNFRSF11A	L
7186	TRAF2	8837	CFLAR	L
7186	TRAF2	8877	SPHK1	L
7186	TRAF2	8915	BCL10	L
7186	TRAF2	9020	MAP3K14	L
7186	TRAF2	9099	USP2	R
7186	TRAF2	9491	PSMF1	R
7186	TRAF2	9513	FXR2	R
7186	TRAF2	9726	ZNF646	R
7186	TRAF2	9729	KIAA0408	R
7186	TRAF2	9787	DLG7	R
7186	TRAF2	9825	SPATA2	R
7186	TRAF2	9994	CASP8AP2	L
7186	TRAF2	10010	TANK	L
7186	TRAF2	10241	NDP52	R
7186	TRAF2	10253	SPRY2	R
7186	TRAF2	10293	TRIP	L
7186	TRAF2	10636	RGS14	R
7186	TRAF2	10758	TRAF3IP2	R
7186	TRAF2	10892	MALT1	L
7186	TRAF2	11035	RIPK3	L
7186	TRAF2	11063	SOX30	R
7186	TRAF2	11074	TRIM31	R
7186	TRAF2	11170	TU3A	R
7186	TRAF2	11183	MAP4K5	L
7186	TRAF2	22893	BAHD1	R
7186	TRAF2	23099	ZNF297B	R
7186	TRAF2	23219	FBXO28	R
7186	TRAF2	23495	TNFRSF13B	L
7186	TRAF2	25978	CHMP2B	R
7186	TRAF2	25988	MIZF	R
7186	TRAF2	26003	GORASP2	R
7186	TRAF2	26060	APPL	R
7186	TRAF2	26133	TRPC4AP	L
7186	TRAF2	26150	RIBC2	R
7186	TRAF2	27018	NGFRAP1	L
7186	TRAF2	27125	AFF4	R
7186	TRAF2	27301	APEX2	R
7186	TRAF2	51194	IPO11	R
7186	TRAF2	51224	TCEB3B	R
7186	TRAF2	51324	SPG21	R
7186	TRAF2	51330	TNFRSF12A	L
7186	TRAF2	51347	TAOK3	L

7186	TRAF2	51567	TTRAP	L
7186	TRAF2	54469	ZA20D3	R
7186	TRAF2	54532	USP53	R
7186	TRAF2	54971	BANP	R
7186	TRAF2	55209	FLJ10707	R
7186	TRAF2	55504	TNFRSF19	L
7186	TRAF2	55707	NECAP2	R
7186	TRAF2	59269	HIVEP3	L
7186	TRAF2	60491	NIF3L1	R
7186	TRAF2	60496	AASDHPPT	R
7186	TRAF2	79873	NUDT18	R
7186	TRAF2	80125	FLJ32855	R
7186	TRAF2	80764	THAP7	R
7186	TRAF2	81576	MGC10471	R
7186	TRAF2	83461	CDCA3	R
7186	TRAF2	83707	TRPT1	R
7186	TRAF2	84080	C16orf48	R
7186	TRAF2	84445	LZTS2	R
7186	TRAF2	84498	KIAA1838	R
7186	TRAF2	84708	LNX	R
7186	TRAF2	84832	MGC12538	R
7186	TRAF2	85302	FBF1	R
7186	TRAF2	89885	FATE1	R
7186	TRAF2	91544	UBXD5	R
7186	TRAF2	92610	TIFA	RL
7186	TRAF2	116349	LOC116349	R
7186	TRAF2	170082	MGC17403	R
7186	TRAF2	257397	TAB3	L
7186	TRAF2	284058	LOC284058	R
7187	TRAF3	7293	TNFRSF4	L
7187	TRAF3	7874	USP7	L
7187	TRAF3	8717	TRADD	L
7187	TRAF3	8737	RIPK1	L
7187	TRAF3	8764	TNFRSF14	L
7187	TRAF3	8784	TNFRSF18	L
7187	TRAF3	8792	TNFRSF11A	L
7187	TRAF3	9020	MAP3K14	L
7187	TRAF3	10010	TANK	L
7187	TRAF3	10487	CAP1	L
7187	TRAF3	10758	TRAF3IP2	L
7187	TRAF3	22800	RRAS2	L
7187	TRAF3	23636	NUP62	L
7187	TRAF3	26146	TRAF3IP1	L
7187	TRAF3	51330	TNFRSF12A	L
7187	TRAF3	55504	TNFRSF19	L
7188	TRAF5	7293	TNFRSF4	L
7188	TRAF5	7874	USP7	L
7188	TRAF5	8737	RIPK1	L
7188	TRAF5	8767	RIPK2	L
7188	TRAF5	8792	TNFRSF11A	L
7188	TRAF5	23495	TNFRSF13B	L
7188	TRAF5	51567	TTRAP	L
7188	TRAF5	55504	TNFRSF19	L
7189	TRAF6	7314	UBB	L
7189	TRAF6	7874	USP7	L
7189	TRAF6	8600	TNFSF11	L
7189	TRAF6	8767	RIPK2	L
7189	TRAF6	8792	TNFRSF11A	L
7189	TRAF6	8878	SQSTM1	L
7189	TRAF6	8887	TAX1BP1	L
7189	TRAF6	9020	MAP3K14	L
7189	TRAF6	10454	MAP3K7IP1	L
7189	TRAF6	10758	TRAF3IP2	L
7189	TRAF6	10892	MALT1	L
7189	TRAF6	11213	IRAK3	L
7189	TRAF6	23139	MAST2	L
7189	TRAF6	23495	TNFRSF13B	L

7189	TRAF6	51135	IRAK4	L
7189	TRAF6	51567	TTRAP	L
7189	TRAF6	54764	ZRANB1	L
7189	TRAF6	55437	ALS2CR2	L
7189	TRAF6	55504	TNFRSF19	L
7189	TRAF6	55540	IL17RB	L
7189	TRAF6	56957	ZA20D1	L
7189	TRAF6	60401	EDA2R	L
7189	TRAF6	92610	TIFA	L
7189	TRAF6	257397	TAB3	L
7200	TRH	7201	TRHR	L
7203	CCT3	7428	VHL	L
7203	CCT3	8892	EIF2B2	S
7203	CCT3	10534	SSSCA1	R
7203	CCT3	10949	HNRPA0	S
7205	TRIP6	7414	VCL	R
7205	TRIP6	8440	NCK2	R
7205	TRIP6	8572	PDLIM4	L
7205	TRIP6	9170	EDG4	L
7205	TRIP6	9564	BCAR1	L
7205	TRIP6	9883	POM121	R
7205	TRIP6	23225	NUP210	L
7205	TRIP6	54855	FAM46C	R
7205	TRIP6	79843	FLJ22746	R
7205	TRIP6	80726	KIAA1683	R
7205	TRIP6	84988	PPP1R16A	R
7205	TRIP6	116349	LOC116349	R
7205	TRIP6	117144	CATSPER1	R
7222	TRPC3	8775	NAPA	L
7224	TRPC5	9368	SLC9A3R1	L
7224	TRPC5	11075	STMN2	L
7225	TRPC6	7226	TRPM2	L
7247	TSN	7257	TSNAX	L
7248	TSC1	7249	TSC2	L
7248	TSC1	7430	VIL2	L
7248	TSC1	7529	YWHAB	L
7248	TSC1	7531	YWHAE	L
7248	TSC1	7532	YWHAG	L
7248	TSC1	7533	YWHAH	L
7248	TSC1	7534	YWHAZ	L
7248	TSC1	10971	YWHAQ	L
7249	TSC2	7529	YWHAB	L
7249	TSC2	7531	YWHAE	L
7249	TSC2	7532	YWHAG	L
7249	TSC2	7533	YWHAH	L
7249	TSC2	7534	YWHAZ	L
7249	TSC2	9135	RABEP1	L
7249	TSC2	10971	YWHAQ	L
7251	TSG101	8495	PPFIBP2	R
7251	TSG101	9146	HGS	RL
7251	TSG101	51160	VPS28	RL
7251	TSG101	55165	C10orf3	R
7251	TSG101	55929	DMAP1	L
7251	TSG101	79720	VPS37B	L
7251	TSG101	90678	LRSAM1	R
7251	TSG101	137492	VPS37A	L
7252	TSHB	7253	TSHR	L
7253	TSHR	10672	GNA13	L
7257	TSNAX	10438	C1D	L
7257	TSNAX	10912	GADD45G	R
7257	TSNAX	55815	TSNAXIP1	L
7257	TSNAX	57326	PBXIP1	R
7257	TSNAX	114932	MRFAP1L1	R
7259	TSPYL1	9001	HAP1	S
7267	TTC3	55729	ATF7IP	L
7270	TTF1	8850	PCAF	L
7270	TTF1	11176	BAZ2A	L

7270	TTF1	284119	PTRF	L
7273	TTN	8557	TCAP	L
7273	TTN	8736	MYOM1	L
7273	TTN	9172	MYOM2	L
7273	TTN	27063	ANKRD1	L
7273	TTN	84033	OBSCN	L
7273	TTN	84676	TRIM63	L
7276	TTR	7431	VIM	S
7276	TTR	8518	IKBKAP	S
7276	TTR	9638	FEZ1	S
7276	TTR	9796	PHYHIP	S
7276	TTR	9869	SETDB1	S
7276	TTR	51608	C7orf20	S
7277	TUBA1	7535	ZAP70	L
7277	TUBA1	10808	HSPH1	L
7277	TUBA1	29127	RACGAP1	L
7277	TUBA1	51762	RAB8B	L
7277	TUBA1	55147	RBM23	S
7277	TUBA1	84103	C4orf17	S
7277	TUBA1	90627	STARD13	L
7277	TUBA1	375484	FLJ44216	S
7278	TUBA2	7283	TUBG1	L
7278	TUBA2	8655	DNCL1	L
7278	TUBA2	9111	NMI	R
7280	TUBB2	9419	CRIP1	L
7280	TUBB2	9672	SDC3	L
7280	TUBB2	10399	GNB2L1	L
7280	TUBB2	10567	RABAC1	S
7280	TUBB2	11186	RASSF1	L
7280	TUBB2	51762	RAB8B	L
7280	TUBB2	54622	ARFRP2	S
7280	TUBB2	57787	MARK4	L
7280	TUBB2	60626	RIC8A	S
7280	TUBB2	83988	NCALD	L
7283	TUBG1	10376	K-ALPHA-1	L
7283	TUBG1	10426	TUBGCP3	L
7283	TUBG1	11186	RASSF1	L
7283	TUBG1	25897	RNF19	L
7283	TUBG1	29127	RACGAP1	L
7283	TUBG1	55835	CENPJ	L
7283	TUBG1	79902	PCNT1	L
7286	TUFT1	24144	TFIP11	L
7290	HIRA	8349	HIST2H2BE	L
7290	HIRA	8479	HIRIP3	L
7290	HIRA	27247	HIRIP5	L
7290	HIRA	85236	HIST1H2BK	L
7291	TWIST1	8850	PCAF	L
7292	TNFSF4	7293	TNFRSF4	L
7294	TXK	91746	YT521	L
7295	TXN	10628	TXNIP	L
7296	TXNRD1	10628	TXNIP	L
7296	TXNRD1	84988	PPP1R16A	S
7297	TYK2	7409	VAV1	L
7297	TYK2	7520	XRCC5	L
7297	TYK2	8660	IRS2	L
7297	TYK2	10254	STAM2	L
7297	TYK2	10399	GNB2L1	L
7297	TYK2	10419	SKB1	L
7301	TYRO3	7525	YES1	L
7305	TYROBP	9436	NCR2	L
7305	TYROBP	10326	SIRPB1	L
7305	TYROBP	23601	CLEC5A	L
7305	TYROBP	54209	TREM2	L
7306	TYRP1	10755	GIPC1	L
7307	U2AF1	7414	VCL	L
7307	U2AF1	8233	U2AF1L2	L
7307	U2AF1	9406	ZNF265	L

7307	U2AF1	10482	NXF1	L
7307	U2AF1	11338	U2AF2	RL
7307	U2AF1	23451	SF3B1	L
7311	UBA52	7320	UBE2B	L
7311	UBA52	7805	LAPTM5	L
7311	UBA52	7874	USP7	L
7311	UBA52	8027	STAM	L
7311	UBA52	8728	ADAM19	L
7311	UBA52	8878	SQSTM1	L
7311	UBA52	9146	HGS	L
7311	UBA52	10013	HDAC6	L
7311	UBA52	10254	STAM2	L
7311	UBA52	26994	RNF11	L
7314	UBB	8517	IKBKG	L
7314	UBB	9627	SNCAIP	L
7314	UBB	9802	DAZAP2	R
7314	UBB	10892	MALT1	L
7314	UBB	26994	RNF11	L
7316	UBC	7345	UCHL1	S
7316	UBC	7414	VCL	L
7316	UBC	9802	DAZAP2	R
7316	UBC	22839	DLGAP4	S
7316	UBC	26994	RNF11	L
7316	UBC	56957	ZA20D1	L
7317	UBE1	9911	TMCC2	S
7317	UBE1	10078	TSSC4	S
7317	UBE1	10808	HSPH1	L
7318	UBE1L	9636	G1P2	R
7319	UBE2A	7750	ZNF198	L
7319	UBE2A	56852	RAD18	L
7320	UBE2B	9094	UNC119	S
7320	UBE2B	23304	UBR2	L
7320	UBE2B	51003	MED31	S
7320	UBE2B	56852	RAD18	L
7320	UBE2B	197131	UBR1	S
7321	UBE2D1	7337	UBE3A	L
7321	UBE2D1	10273	STUB1	L
7321	UBE2D1	55658	RNF126	R
7321	UBE2D1	56658	TRIM39	R
7322	UBE2D2	8945	BTRC	L
7322	UBE2D2	9867	PJA2	L
7322	UBE2D2	26994	RNF11	L
7323	UBE2D3	7337	UBE3A	L
7323	UBE2D3	55658	RNF126	R
7323	UBE2D3	56658	TRIM39	R
7323	UBE2D3	84206	RKHD3	S
7324	UBE2E1	7326	UBE2G1	L
7324	UBE2E1	7337	UBE3A	L
7324	UBE2E1	9025	RNF8	L
7324	UBE2E1	9604	RNF14	L
7324	UBE2E1	23327	NEDD4L	L
7324	UBE2E1	220869	CBWD5	S
7325	UBE2E2	9025	RNF8	L
7326	UBE2G1	7337	UBE3A	L
7327	UBE2G2	7337	UBE3A	L
7327	UBE2G2	23113	PARC	L
7328	UBE2H	8337	HIST2H2AA	L
7329	UBE2I	7341	SUMO1	L
7329	UBE2I	7490	WT1	L
7329	UBE2I	8535	CBX4	L
7329	UBE2I	8554	PIAS1	L
7329	UBE2I	8767	RIPK2	R
7329	UBE2I	9063	PIAS2	RL
7329	UBE2I	9094	UNC119	S
7329	UBE2I	9146	HGS	R
7329	UBE2I	9189	ZBED1	R
7329	UBE2I	9260	PDLIM7	R

7329	UBE2I	9618	TRAF4	L
7329	UBE2I	9726	ZNF646	R
7329	UBE2I	10210	TOPORS	L
7329	UBE2I	10320	ZNFN1A1	R
7329	UBE2I	22806	ZNFN1A3	R
7329	UBE2I	23386	NUDCD3	R
7329	UBE2I	23650	TRIM29	R
7329	UBE2I	25788	RAD54B	R
7329	UBE2I	26036	ZNF451	R
7329	UBE2I	28996	HIPK2	L
7329	UBE2I	51567	TTRAP	L
7329	UBE2I	55660	FNBP3	L
7329	UBE2I	79753	SNIP1	L
7329	UBE2I	84676	TRIM63	L
7329	UBE2I	93487	C14orf32	R
7329	UBE2I	128866	CHMP4B	R
7329	UBE2I	147339	C18orf25	R
7332	UBE2L3	7337	UBE3A	L
7332	UBE2L3	9781	RNF144	L
7332	UBE2L3	10425	ARIH2	S
7332	UBE2L3	23113	PARC	L
7332	UBE2L3	23327	NEDD4L	L
7332	UBE2L3	25820	ARIH1	L
7332	UBE2L3	25897	RNF19	L
7334	UBE2N	7336	UBE2V2	L
7334	UBE2N	8915	BCL10	L
7334	UBE2N	26994	RNF11	L
7334	UBE2N	387522	Kua-UEV	L
7336	UBE2V2	8915	BCL10	L
7336	UBE2V2	25843	PREI3	S
7336	UBE2V2	55791	C1orf103	S
7336	UBE2V2	79723	SUV39H2	S
7336	UBE2V2	84966	IGSF21	S
7337	UBE3A	9083	BPY2	L
7337	UBE3A	9246	UBE2L6	L
7337	UBE3A	9820	CUL7	L
7341	SUMO1	8554	PIAS1	L
7341	SUMO1	9063	PIAS2	L
7341	SUMO1	9734	HDAC9	L
7341	SUMO1	10054	UBA2	L
7341	SUMO1	10210	TOPORS	L
7341	SUMO1	26054	SENP6	L
7341	SUMO1	28996	HIPK2	L
7341	SUMO1	51567	TTRAP	L
7341	SUMO1	59343	SENP2	L
7341	SUMO1	114034	TOE1	S
7341	SUMO1	160140	MGC33948	R
7343	UBTF	8660	IRS2	L
7343	UBTF	10849	CD3EAP	L
7343	UBTF	51176	LEF1	L
7345	UCHL1	10048	RANBP9	L
7345	UCHL1	10951	CBX1	S
7345	UCHL1	10987	COPS5	L
7351	UCP2	7529	YWHAB	L
7351	UCP2	7534	YWHAZ	L
7351	UCP2	10971	YWHAQ	L
7352	UCP3	7529	YWHAB	L
7352	UCP3	7534	YWHAZ	L
7352	UCP3	10971	YWHAQ	L
7355	SLC35A2	7368	UGT8	L
7355	SLC35A2	284169	(null)	S
7356	SCGB1A1	8029	CUBN	L
7358	UGDH	26289	AK5	S
7360	UGP2	10425	ARIH2	R
7372	UMPS	10602	CDC42EP3	S
7374	UNG	8493	PPM1D	L
7375	USP4	9221	NOLC1	L

7376	NR1H2	8431	NR0B2	L
7378	UPP1	7431	VIM	L
7384	UQCRC1	54205	CYCS	L
7384	UQCRC1	57142	RTN4	L
7385	UQCRC2	57142	RTN4	L
7391	USF1	7392	USF2	L
7391	USF1	8061	FOSL1	L
7392	USF2	10891	PPARGC1A	L
7407	VARS	85476	GFM1	L
7408	VASP	7414	VCL	L
7408	VASP	7454	WAS	L
7408	VASP	7791	ZYX	L
7408	VASP	8996	NOL3	R
7408	VASP	11060	WWP2	R
7408	VASP	23214	XPO6	L
7408	VASP	26136	TES	L
7408	VASP	63948	DMRTB1	R
7408	VASP	114088	TRIM9	R
7409	VAV1	7535	ZAP70	L
7409	VAV1	7791	ZYX	L
7409	VAV1	8639	AOC3	L
7409	VAV1	8651	SOCS1	L
7409	VAV1	29127	RACGAP1	L
7409	VAV1	29760	BLNK	L
7409	VAV1	55824	PAG1	L
7410	VAV2	8651	SOCS1	L
7411	VBP1	7428	VHL	L
7412	VCAM1	7430	VIL2	L
7414	VCL	7431	VIM	L
7414	VCL	8087	FXR1	L
7414	VCL	8148	TAF15	L
7414	VCL	8665	EIF3S5	L
7414	VCL	9121	SLC16A5	L
7414	VCL	9530	BAG4	L
7414	VCL	9879	DDX46	L
7414	VCL	9898	UBAP2L	L
7414	VCL	9987	HNRPDL	L
7414	VCL	10146	G3BP	L
7414	VCL	10152	ABI2	R
7414	VCL	10196	HRMT1L3	L
7414	VCL	10383	TUBB2	L
7414	VCL	10391	CORO2B	L
7414	VCL	10399	GNB2L1	L
7414	VCL	10446	LRRN5	L
7414	VCL	10492	SYNCRIP	L
7414	VCL	10565	ARFGEF1	L
7414	VCL	10580	SORBS1	L
7414	VCL	10657	KHDRBS1	L
7414	VCL	10970	CKAP4	L
7414	VCL	11051	NUDT21	L
7414	VCL	11338	U2AF2	L
7414	VCL	23038	WDTA1	L
7414	VCL	23116	KIAA0423	L
7414	VCL	23231	KIAA0746	L
7414	VCL	23256	SCFD1	L
7414	VCL	23345	SYNE1	L
7414	VCL	26960	NBEA	L
7414	VCL	26986	PABPC1	L
7414	VCL	27136	MORC1	L
7414	VCL	51056	LAP3	L
7414	VCL	51493	HSPC117	L
7414	VCL	51637	C14orf166	L
7414	VCL	51806	CALML5	L
7414	VCL	54205	CYCS	L
7414	VCL	54914	KIAA1797	L
7414	VCL	55379	PRO1855	L
7414	VCL	55660	FNBP3	L

7414	VCL	57099	AVEN	L
7414	VCL	57448	BIRC6	L
7414	VCL	79173	MGC11271	R
7414	VCL	84733	CBX2	L
7414	VCL	121457	IKIP	L
7414	VCL	125950	RAVER1	L
7414	VCL	129563	MGC42174	L
7414	VCL	137994	LETM2	L
7414	VCL	151254	ALS2CR11	L
7414	VCL	201158	FAM18B2	L
7414	VCL	284058	LOC284058	L
7415	VCP	10013	HDAC6	L
7415	VCP	10953	TOMM34	L
7415	VCP	55829	SELS	L
7415	VCP	55968	NSFL1C	L
7416	VDAC1	9804	TOMM20	L
7416	VDAC1	10018	BCL2L11	L
7416	VDAC1	54205	CYCS	L
7417	VDAC2	54205	CYCS	L
7419	VDAC3	57062	DDX24	S
7421	VDR	7704	ZBTB16	L
7421	VDR	8202	NCOA3	L
7421	VDR	8648	NCOA1	L
7421	VDR	8805	TRIM24	L
7421	VDR	9031	BAZ1B	L
7421	VDR	10499	NCOA2	L
7421	VDR	22938	SNW1	L
7422	VEGF	7448	VTN	L
7422	VEGF	8828	NRP2	L
7422	VEGF	8829	NRP1	L
7422	VEGF	9510	ADAMTS1	L
7423	VEGFB	8829	NRP1	L
7428	VHL	10168	ZNF197	L
7428	VHL	11236	RNF139	L
7428	VHL	23032	USP33	L
7428	VHL	55662	HIF1AN	L
7428	VHL	57473	GM632	L
7428	VHL	79960	PHF17	L
7429	VIL1	56159	TEX11	R
7430	VIL2	9351	SLC9A3R2	L
7430	VIL2	9368	SLC9A3R1	L
7430	VIL2	23022	KIAA0992	L
7430	VIL2	53405	CLIC5	L
7430	VIL2	57147	SCYL3	L
7431	VIM	7518	XRCC4	S
7431	VIM	7534	YWHAZ	L
7431	VIM	8553	BHLHB2	S
7431	VIM	8655	DNCL1	L
7431	VIM	8764	TNFRSF14	S
7431	VIM	8880	FUBP1	S
7431	VIM	9124	PDLIM1	R
7431	VIM	9729	KIAA0408	R
7431	VIM	10155	TRIM28	S
7431	VIM	10362	HMG20B	S
7431	VIM	10567	RABAC1	S
7431	VIM	10625	IVNS1ABP	S
7431	VIM	10807	SDCCAG3	S
7431	VIM	11078	TRIOBP	S
7431	VIM	11143	MYST2	RS
7431	VIM	11170	TU3A	R
7431	VIM	22827	SIAHBP1	S
7431	VIM	22927	HABP4	S
7431	VIM	23650	TRIM29	L
7431	VIM	23762	OSBP2	L
7431	VIM	23774	BRD1	S
7431	VIM	26135	SERBP1	S
7431	VIM	26150	RIBC2	R

7431	VIM	26751	SH3YL1	S
7431	VIM	27229	76P	R
7431	VIM	28965	SLC27A6	S
7431	VIM	51074	MMRP19	R
7431	VIM	51548	SIRT6	S
7431	VIM	51593	ARS2	S
7431	VIM	51762	RAB8B	L
7431	VIM	54474	KRT20	R
7431	VIM	54544	C1orf42	S
7431	VIM	55211	DPPA4	S
7431	VIM	55791	C1orf103	S
7431	VIM	56992	KIF15	S
7431	VIM	57002	C7orf36	S
7431	VIM	57120	GOPC	R
7431	VIM	60491	NIF3L1	R
7431	VIM	64780	MICAL1	L
7431	VIM	65080	MRPL44	S
7431	VIM	79050	NOC4L	R
7431	VIM	79902	PCNT1	L
7431	VIM	84260	MGC10854	R
7431	VIM	129563	MGC42174	S
7431	VIM	151254	ALS2CR11	R
7433	VIPR1	8976	WASL	L
7436	VLDLR	9784	SNX17	L
7442	TRPV1	143425	SYT9	L
7447	VSNL1	113878	DTX2	R
7447	VSNL1	348487	C1orf117	R
7448	VTN	8516	ITGA8	L
7448	VTN	90070	LACRT	L
7450	VWF	57473	GM632	L
7453	WARS	10263	CDK2AP2	S
7454	WAS	7456	WASPIP	L
7454	WAS	9051	PSTPIP1	L
7454	WAS	9322	TRIP10	L
7454	WAS	23433	RHOQ	L
7454	WAS	50618	ITSN2	L
7454	WAS	57381	RHOJ	L
7456	WASPIP	8976	WASL	L
7458	WBSCR1	83638	Bles03	R
7462	LAT2	29760	BLNK	L
7465	WEE1	7529	YWHAB	L
7465	WEE1	83461	CDCA3	L
7471	WNT1	8326	FZD9	L
7474	WNT5A	7855	FZD5	L
7474	WNT5A	8321	FZD1	L
7476	WNT7A	29888	STRN4	S
7486	WRN	7520	XRCC5	L
7486	WRN	9533	POLR1C	L
7486	WRN	56897	WRNIP1	L
7486	WRN	201299	RDM1	L
7490	WT1	9589	WTAP	L
7490	WT1	11338	U2AF2	L
7494	XBP1	22926	ATF6	L
7494	XBP1	58487	ZF	L
7507	XPA	11321	XAB1	L
7508	XPC	27258	LSM3	L
7508	XPC	57473	GM632	L
7511	XPNPEP1	23649	POLA2	S
7511	XPNPEP1	60561	RINT-1	S
7514	XPO1	8021	NUP214	L
7514	XPO1	8498	RANBP3	L
7514	XPO1	8678	BECN1	L
7514	XPO1	8841	HDAC3	L
7514	XPO1	9972	NUP153	L
7514	XPO1	10073	RNUT1	L
7514	XPO1	10762	NUP50	L
7514	XPO1	23636	NUP62	L

7514	XPO1	56000	NXF3	L
7514	XPO1	57154	SMURF1	L
7514	XPO1	407977	TNFSF12-TNFSF13	L
7515	XRCC1	11284	PNKP	L
7515	XRCC1	54840	APTX	L
7515	XRCC1	79661	NEIL1	L
7518	XRCC4	25900	HOM-TES-103	R
7518	XRCC4	54840	APTX	L
7518	XRCC4	79886	C9orf82	S
7520	XRCC5	10432	RBM14	L
7525	YES1	8038	ADAM12	L
7525	YES1	10413	YAP1	L
7525	YES1	23607	CD2AP	L
7525	YES1	57473	GM632	L
7525	YES1	59341	TRPV4	L
7528	YY1	8726	EED	L
7528	YY1	8819	SAP30	L
7528	YY1	8841	HDAC3	L
7528	YY1	9406	ZNF265	L
7528	YY1	10138	YAF2	L
7528	YY1	11016	ATF7	L
7528	YY1	23429	RYBP	L
7529	YWHAB	7538	ZFP36	L
7529	YWHAB	9610	RIN1	L
7529	YWHAB	10014	HDAC5	L
7529	YWHAB	10420	TESK2	L
7529	YWHAB	10749	KIF1C	L
7529	YWHAB	22877	MONDOA	L
7529	YWHAB	23136	EPB41L3	L
7531	YWHAE	8470	SORBS2	R
7531	YWHAE	8660	IRS2	L
7531	YWHAE	9181	ARHGEF2	L
7531	YWHAE	9402	GRAP2	R
7531	YWHAE	9610	RIN1	L
7531	YWHAE	9721	KIAA0514	R
7531	YWHAE	9759	HDAC4	L
7531	YWHAE	10014	HDAC5	L
7531	YWHAE	10749	KIF1C	L
7531	YWHAE	25937	WWTR1	L
7531	YWHAE	27018	NGFRAP1	L
7531	YWHAE	81565	NDEL1	L
7532	YWHAG	7538	ZFP36	L
7532	YWHAG	9729	KIAA0408	R
7532	YWHAG	10749	KIF1C	L
7532	YWHAG	23136	EPB41L3	L
7532	YWHAG	27185	DISC1	L
7533	YWHAH	7538	ZFP36	L
7533	YWHAH	8202	NCOA3	L
7533	YWHAH	8204	NRIP1	L
7533	YWHAH	8648	NCOA1	L
7533	YWHAH	9699	RIMS2	L
7533	YWHAH	10499	NCOA2	L
7533	YWHAH	23136	EPB41L3	L
7533	YWHAH	147700	KLC3	L
7534	YWHAZ	8660	IRS2	L
7534	YWHAZ	8745	ADAM23	L
7534	YWHAZ	9181	ARHGEF2	L
7534	YWHAZ	9261	MAPKAPK2	L
7534	YWHAZ	9564	BCAR1	L
7534	YWHAZ	9610	RIN1	L
7534	YWHAZ	9759	HDAC4	L
7534	YWHAZ	10746	MAP3K2	L
7534	YWHAZ	10749	KIF1C	L
7534	YWHAZ	25932	CLIC4	L
7534	YWHAZ	53616	ADAM22	L
7534	YWHAZ	57562	KIAA1377	S
7535	ZAP70	9846	GAB2	L

7535	ZAP70	27240	SIT1	L
7535	ZAP70	28988	DBNL	L
7535	ZAP70	55824	PAG1	L
7535	ZAP70	84174	SLA2	L
7535	ZAP70	114836	SLAMF6	L
7535	ZAP70	115352	FCRL3	L
7536	SF1	8148	TAF15	L
7536	SF1	10521	DDX17	R
7536	SF1	10915	TCERG1	L
7536	SF1	11030	RBPMS	R
7536	SF1	11060	WWP2	R
7536	SF1	11338	U2AF2	RL
7536	SF1	55660	FNBP3	L
7538	ZFP36	8021	NUP214	L
7538	ZFP36	11007	DIPA	R
7538	ZFP36	11340	EXOSC8	L
7538	ZFP36	26019	UPF2	L
7538	ZFP36	54464	XRN1	L
7538	ZFP36	118460	EXOSC6	L
7542	ZFPL1	9551	ATP5J2	S
7553	ZNF7	10474	TADA3L	S
7556	ZNF10	8805	TRIM24	L
7556	ZNF10	10155	TRIM28	L
7558	ZNF11B	9001	HAP1	S
7568	ZNF20	7727	ZNF174	L
7568	ZNF20	9001	HAP1	S
7572	ZNF24	7704	ZBTB16	S
7572	ZNF24	7727	ZNF174	L
7572	ZNF24	9001	HAP1	S
7572	ZNF24	9094	UNC119	S
7572	ZNF24	9869	SETDB1	S
7572	ZNF24	10524	HTATIP	S
7572	ZNF24	10813	UTP14A	S
7572	ZNF24	10980	COPS6	S
7572	ZNF24	11161	C14orf1	S
7572	ZNF24	51282	SCAND1	R
7572	ZNF24	54925	ZNF434	R
7572	ZNF24	55663	ZNF446	R
7572	ZNF24	55791	C1orf103	S
7572	ZNF24	57562	KIAA1377	S
7572	ZNF24	81576	MGC10471	R
7572	ZNF24	84060	DKFZP564O0523	S
7579	ZNF31	51282	SCAND1	R
7596	ZNF45	374923	(null)	S
7597	ZBTB25	10174	SORBS3	R
7597	ZBTB25	79036	MGC2749	R
7625	ZNF74	10155	TRIM28	L
7704	ZBTB16	8405	SPOP	R
7704	ZBTB16	8813	DPM1	S
7704	ZBTB16	8894	EIF2S2	S
7704	ZBTB16	9611	NCOR1	L
7704	ZBTB16	9612	NCOR2	L
7704	ZBTB16	9734	HDAC9	L
7704	ZBTB16	9759	HDAC4	L
7704	ZBTB16	10013	HDAC6	L
7704	ZBTB16	10014	HDAC5	L
7704	ZBTB16	10542	HBXIP	S
7704	ZBTB16	10628	TXNIP	L
7704	ZBTB16	11007	DIPA	R
7704	ZBTB16	23149	FCHO1	S
7704	ZBTB16	23309	SIN3B	L
7704	ZBTB16	23641	LDOC1	R
7704	ZBTB16	25942	SIN3A	L
7704	ZBTB16	29924	EPN1	L
7704	ZBTB16	51004	COQ6	S
7704	ZBTB16	51433	ANAPC5	S
7704	ZBTB16	51534	C6orf55	R

7704	ZBTB16	51564	HDAC7A	L
7704	ZBTB16	54472	TOLLIP	S
7704	ZBTB16	54919	FLJ20397	S
7704	ZBTB16	55013	FLJ20647	S
7704	ZBTB16	55068	FLJ10094	R
7704	ZBTB16	55258	FLJ10916	S
7704	ZBTB16	55339	WDR33	S
7704	ZBTB16	55629	PNRC2	S
7704	ZBTB16	55646	LYAR	S
7704	ZBTB16	55722	Cep72	R
7704	ZBTB16	57670	KIAA1549	S
7704	ZBTB16	57819	LSM2	S
7704	ZBTB16	80321	Cep70	R
7704	ZBTB16	81576	MGC10471	S
7704	ZBTB16	81890	QTRT1	S
7704	ZBTB16	83755	KRTAP4-12	R
7704	ZBTB16	114783	LMTK3	S
7704	ZBTB16	192111	MGC5352	S
7704	ZBTB16	359845	MGC45871	S
7706	TRIM25	9246	UBE2L6	L
7707	ZNF148	284119	PTRF	L
7709	ZBTB17	11073	TOPBP1	L
7709	ZBTB17	22894	KIAA1008	L
7718	ZNF165	9260	PDLIM7	R
7718	ZNF165	11007	DIPA	R
7718	ZNF165	11143	MYST2	R
7718	ZNF165	51224	TCEB3B	R
7718	ZNF165	51282	SCAND1	R
7718	ZNF165	55663	ZNF446	R
7718	ZNF165	58500	ZNF250	R
7718	ZNF165	81576	MGC10471	R
7718	ZNF165	83755	KRTAP4-12	R
7718	ZNF165	220108	FLJ30707	R
7746	ZNF193	55663	ZNF446	R
7750	ZNF198	57473	GM632	L
7750	ZNF198	79753	SNIP1	L
7753	ZNF202	25888	ZNF473	R
7755	ZNF205	10241	NDP52	R
7755	ZNF205	11007	DIPA	R
7763	ZA20D2	8517	IKBKG	L
7775	ZNF232	55663	ZNF446	R
7784	ZP3	64772	FLJ21865	L
7786	MAP3K12	8848	TSC22D1	S
7786	MAP3K12	118924	C10orf4	S
7786	MAP3K12	200325	(null)	S
7791	ZYX	9113	LATS1	L
7791	ZYX	9501	RPH3AL	L
7791	ZYX	10114	HIPK3	L
7791	ZYX	10451	VAV3	L
7791	ZYX	10529	NEBL	L
7802	DNALI1	55324	ABCF3	S
7803	PTP4A1	11016	ATF7	L
7804	LRP8	9784	SNX17	L
7805	LAPTM5	8925	HERC1	L
7805	LAPTM5	8975	USP13	L
7805	LAPTM5	11059	WWP1	L
7805	LAPTM5	22905	EPN2	L
7805	LAPTM5	23327	NEDD4L	L
7805	LAPTM5	23462	HEY1	L
7805	LAPTM5	26508	HEYL	L
7805	LAPTM5	29924	EPN1	L
7805	LAPTM5	54165	DCUN1D1	L
7805	LAPTM5	55040	EPN3	L
7805	LAPTM5	64750	SMURF2	L
7805	LAPTM5	146691	TOM1L2	L
7805	LAPTM5	165918	RNF168	L
7818	DAP3	8772	FADD	L

7818	DAP3	8797	TNFRSF10A	L
7827	NPHS2	23607	CD2AP	L
7827	NPHS2	55243	KIRREL	L
7827	NPHS2	84623	KIRREL3	L
7832	BTG2	9337	CNOT8	L
7832	BTG2	29883	CNOT7	L
7837	PXDN	9618	TRAF4	L
7846	TUBA3	8936	WASF1	L
7846	TUBA3	9672	SDC3	L
7846	TUBA3	83988	NCALD	L
7851	MALL	10488	CREB3	R
7852	CXCR4	9021	SOCS3	L
7855	FZD5	57120	GOPC	L
7869	SEMA3B	8828	NRP2	L
7869	SEMA3B	8829	NRP1	L
7869	SEMA3B	10371	SEMA3A	L
7874	USP7	9618	TRAF4	L
7874	USP7	10010	TANK	L
7879	RAB7	10567	RABAC1	L
7879	RAB7	83547	RILP	L
7884	SLBP	9101	USP8	L
7884	SLBP	25888	ZNF473	L
7884	SLBP	90459	THEX1	L
7913	DEK	10250	SRRM1	L
7913	DEK	23524	SRRM2	L
7916	BAT2	8100	TTC10	L
7916	BAT2	8974	P4HA2	L
7916	BAT2	9898	UBAP2L	L
7916	BAT2	10459	MAD2L2	L
7916	BAT2	10989	IMMT	L
7916	BAT2	11218	DDX20	L
7916	BAT2	23193	GANAB	L
7916	BAT2	29894	CPSF1	L
7917	BAT3	8518	IKBKAP	S
7917	BAT3	8612	PPAP2C	S
7917	BAT3	9372	ZFYVE9	L
7917	BAT3	9804	TOMM20	S
7917	BAT3	9869	SETDB1	S
7917	BAT3	10094	ARPC3	S
7917	BAT3	10989	IMMT	S
7917	BAT3	23420	NOMO1	S
7917	BAT3	27043	PELP1	S
7917	BAT3	30008	EFEMP2	R
7917	BAT3	51726	DNAJB11	S
7917	BAT3	54464	XRN1	L
7917	BAT3	55603	FAM46A	L
7917	BAT3	55658	RNF126	L
7917	BAT3	55660	FBNP3	L
7917	BAT3	56005	C19orf10	S
7917	BAT3	59349	KLHL12	R
7917	BAT3	79948	PRG2	S
7917	BAT3	84223	IQCG	S
7917	BAT3	84993	UBL7	L
7918	BAT4	11007	DIPA	R
7919	BAT1	9063	PIAS2	L
7919	BAT1	10212	DDX39	L
7919	BAT1	10381	TUBB3	S
7919	BAT1	11244	ZHX1	L
7919	BAT1	29888	STRN4	S
7919	BAT1	85406	DNAJC14	L
7919	BAT1	92906	HNRPLL	L
7920	BAT5	8519	IFITM1	L
7920	BAT5	9552	SPAG7	L
7920	BAT5	10430	NIFIE14	L
7920	BAT5	29990	PILRB	L
7920	BAT5	55890	GPRC5C	L
7920	BAT5	64215	DNAJC1	L

7920	BAT5	84065	C1orf160	L
7936	RDBP	9341	VAMP3	S
7936	RDBP	9611	NCOR1	L
7936	RDBP	25920	COBRA1	L
7940	LST1	55632	KIAA1333	L
7942	TFEB	22797	TFEC	L
7957	EPM2A	9852	EPM2AIP1	L
7965	JTV1	8880	FUBP1	L
7965	JTV1	55885	LMO3	R
7965	JTV1	79173	MGC11271	R
7965	JTV1	84708	LNX	R
7965	JTV1	220766	KIAA0470L	R
7975	MAFK	9586	CREB5	L
7975	MAFK	9603	NFE2L3	L
7975	MAFK	10488	CREB3	L
7975	MAFK	11016	ATF7	L
7975	MAFK	55509	SNFT	L
7975	MAFK	60468	BACH2	L
7976	FZD3	10755	GIPC1	L
7979	SHFM1	55795	FLJ11305	R
7980	TFPI2	64750	SMURF2	L
7982	ST7	10399	GNB2L1	L
8021	NUP214	10482	NXF1	L
8021	NUP214	11260	XPOT	L
8021	NUP214	11269	DDX19B	L
8021	NUP214	56001	NXF2	L
8021	NUP214	57122	NUP107	L
8021	NUP214	57510	XPO5	L
8022	LHX3	10370	CITED2	L
8022	LHX3	26160	SLB	L
8022	LHX3	64843	ISL2	L
8027	STAM	9101	USP8	L
8027	STAM	9146	HGS	RL
8027	STAM	10617	STAMPB	L
8028	MLLT10	8089	YEATS4	L
8028	MLLT10	84220	RANBP2L1	L
8031	NCOA4	8850	PCAF	L
8031	NCOA4	9604	RNF14	L
8048	CSRP3	197257	LDHD	L
8061	FOSL1	9586	CREB5	L
8061	FOSL1	9935	MAFB	L
8061	FOSL1	11016	ATF7	L
8061	FOSL1	23641	LDOC1	R
8061	FOSL1	57658	CALCOCO1	R
8065	CUL5	9616	RNF7	L
8078	USP5	10474	TADA3L	R
8078	USP5	26994	RNF11	L
8087	FXR1	11098	PRSS23	S
8087	FXR1	11161	C14orf1	S
8087	FXR1	26999	CYFIP2	L
8087	FXR1	51631	LUC7L2	S
8087	FXR1	55791	C1orf103	S
8087	FXR1	57562	KIAA1377	S
8089	YEATS4	10579	TACC2	L
8091	HMGA2	10401	PIAS3	L
8092	CART1	9670	IPO13	R
8092	CART1	60529	ALX4	L
8099	CDK2AP1	10263	CDK2AP2	L
8106	PABPN1	22938	SNW1	L
8115	TCL1A	10000	AKT3	L
8115	TCL1A	10241	NDP52	R
8115	TCL1A	92815	HIST3H2A	R
8120	AP3B2	11033	CENTA1	L
8125	ANP32A	8312	AXIN1	S
8125	ANP32A	8988	HSPB3	S
8125	ANP32A	11033	CENTA1	L
8125	ANP32A	55968	NSFL1C	S

8153	RND2	27183	VPS4A	L
8153	RND2	29127	RACGAP1	L
8153	RND2	91544	UBXD5	L
8161	COIL	9221	NOLC1	L
8165	AKAP1	26292	MYCBP	L
8165	AKAP1	89876	C3orf15	L
8175	SF3A2	10946	SF3A3	L
8175	SF3A2	27336	HTATSF1	L
8175	SF3A2	56729	RETN	L
8175	SF3A2	64750	SMURF2	L
8178	ELL	55840	EAF2	L
8192	CLPP	10845	CLPX	L
8202	NCOA3	8850	PCAF	L
8202	NCOA3	9612	NCOR2	L
8202	NCOA3	51684	SUFU	L
8204	NRIP1	8764	TNFRSF14	L
8204	NRIP1	8850	PCAF	L
8204	NRIP1	10062	NR1H3	L
8204	NRIP1	11007	DIPA	R
8204	NRIP1	23641	LDOC1	R
8204	NRIP1	56159	TEX11	R
8204	NRIP1	80321	Cep70	R
8208	CHAF1B	10036	CHAF1A	L
8209	C21orf33	118924	C10orf4	S
8218	CLTCL1	8301	PICALM	L
8227	DXYS155E	11007	DIPA	R
8227	DXYS155E	22981	KIAA0980	R
8237	USP11	9869	SETDB1	S
8237	USP11	10048	RANBP9	L
8237	USP11	10607	TBL3	S
8241	RBM10	58155	PTBP2	R
8241	RBM10	220108	FLJ30707	R
8243	SMC1L1	10403	KNTC2	L
8260	ARD1A	10919	EHMT2	R
8289	ARID1A	9031	BAZ1B	L
8290	HIST3H3	8445	DYRK2	L
8290	HIST3H3	8479	HIRIP3	L
8290	HIST3H3	23569	PADI4	L
8290	HIST3H3	30836	ERBP	L
8290	HIST3H3	54822	TRPM7	L
8301	PICALM	30846	EHD2	L
8310	ACOX3	64750	SMURF2	L
8312	AXIN1	8440	NCK1	L
8312	AXIN1	10813	UTP14A	S
8312	AXIN1	59343	SENP2	L
8313	AXIN2	22881	ANKRD6	L
8317	CDC7	10926	ASK	L
8317	CDC7	23594	ORC6L	L
8317	CDC7	55388	MCM10	L
8318	CDC45L	23595	ORC3L	L
8318	CDC45L	55388	MCM10	L
8321	FZD1	89780	WNT3A	L
8324	FZD7	29979	UBQLN1	R
8325	FZD8	57120	GOPC	L
8338	HIST2H2AC	30836	ERBP	L
8341	HIST1H2BN	56647	BCCIP	R
8349	HIST2H2BE	8445	DYRK2	L
8349	HIST2H2BE	8479	HIRIP3	L
8349	HIST2H2BE	30836	ERBP	L
8359	HIST1H4A	8479	HIRIP3	L
8379	MAD1L1	10403	KNTC2	L
8379	MAD1L1	22981	KIAA0980	R
8379	MAD1L1	23309	SIN3B	L
8379	MAD1L1	23650	TRIM29	R
8379	MAD1L1	25942	SIN3A	L
8379	MAD1L1	27229	76P	R
8379	MAD1L1	51421	AMOTL2	R

8379	MAD1L1	56159	TEX11	R
8379	MAD1L1	348487	C1orf117	R
8382	NME5	84332	MGC16186	R
8382	NME5	143241	DYDC1	R
8394	PIP5K1A	8618	CADPS	S
8399	PLA2G10	22925	PLA2R1	L
8405	SPOP	10313	RTN3	R
8405	SPOP	151871	DPPA2	R
8409	UXT	8725	C19orf2	L
8409	UXT	10128	LRPPRC	L
8409	UXT	27257	LSM1	L
8409	UXT	27443	CECR2	L
8411	EEA1	8615	VDP	L
8411	EEA1	23673	STX12	L
8411	EEA1	57403	RAB22A	L
8416	ANXA9	55160	ARHGEF10L	S
8416	ANXA9	56901	LOC56901	S
8417	STX7	8673	VAMP8	L
8417	STX7	8775	NAPA	L
8417	STX7	10228	STX6	L
8417	STX7	57617	VPS18	L
8424	BBOX1	8988	HSPB3	S
8428	STK24	11235	PDCD10	R
8431	NR0B2	9970	NR1I3	L
8431	NR0B2	10062	NR1H3	L
8436	SDPR	79666	PLEKHF2	R
8436	SDPR	79873	NUDT18	R
8439	NSMAF	10399	GNB2L1	L
8440	NCK2	9513	FXR2	R
8440	NCK2	10006	ABI1	L
8440	NCK2	10152	ABI2	R
8440	NCK2	10262	SF3B4	R
8440	NCK2	11052	CPSF6	R
8440	NCK2	51517	NCKIPSD	R
8440	NCK2	51729	WBP11	R
8440	NCK2	56243	KIAA1217	R
8440	NCK2	79869	FLJ12529	R
8443	GNPAT	8540	AGPS	L
8443	GNPAT	11021	RAB35	S
8445	DYRK2	25788	RAD54B	R
8446	DUSP11	8683	SFRS9	L
8447	DOC2B	10497	UNC13B	L
8448	DOC2A	10497	UNC13B	L
8450	CUL4B	55832	CAND1	L
8451	CUL4A	9616	RNF7	L
8451	CUL4A	9978	RBX1	L
8452	CUL3	9978	RBX1	L
8453	CUL2	9616	RNF7	L
8454	CUL1	9616	RNF7	L
8454	CUL1	9978	RBX1	L
8454	CUL1	83461	CDCA3	L
8454	CUL1	84893	FBXO18	L
8458	TTF2	9782	MATR3	L
8458	TTF2	10015	PDCD6IP	L
8458	TTF2	10460	TACC3	L
8458	TTF2	10549	PRDX4	L
8458	TTF2	10589	DRAP1	L
8458	TTF2	24137	KIF4A	L
8458	TTF2	55802	DCP1A	L
8462	KLF11	25942	SIN3A	L
8463	TEAD2	8648	NCOA1	L
8463	TEAD2	10413	YAP1	L
8467	SMARCA5	9031	BAZ1B	L
8467	SMARCA5	11176	BAZ2A	L
8467	SMARCA5	54108	CHRAC1	L
8467	SMARCA5	80012	PHC3	L
8468	FKBP6	8812	CCNK	R

8468	FKBP6	29922	NME7	R
8470	SORBS2	9618	TRAF4	L
8471	IRS4	9306	SOCS6	L
8471	IRS4	11188	NISCH	L
8473	OGT	22906	OIP106	L
8473	OGT	54830	FLJ20130	R
8473	OGT	66008	ALS2CR3	L
8479	HIRIP3	55324	ABCF3	S
8480	RAE1	57062	DDX24	S
8481	OFD1	9737	GPRASP1	S
8481	OFD1	51631	LUC7L2	S
8481	OFD1	54462	KIAA1128	S
8481	OFD1	57562	KIAA1377	S
8482	SEMA7A	10154	PLXNC1	L
8487	SIP1	11338	U2AF2	L
8495	PPFIBP2	8499	PPFIA2	L
8495	PPFIBP2	8500	PPFIA1	L
8495	PPFIBP2	8541	PPFIA3	L
8496	PPFIBP1	8499	PPFIA2	L
8496	PPFIBP1	8500	PPFIA1	L
8496	PPFIBP1	8541	PPFIA3	L
8499	PPFIA2	8500	PPFIA1	L
8499	PPFIA2	8541	PPFIA3	L
8499	PPFIA2	26059	CAST1	L
8499	PPFIA2	28964	GIT1	L
8500	PPFIA1	8541	PPFIA3	L
8500	PPFIA1	10499	NCOA2	L
8500	PPFIA1	23085	RAB6IP2	L
8500	PPFIA1	26059	CAST1	L
8500	PPFIA1	28964	GIT1	L
8500	PPFIA1	51562	MBIP	R
8502	PKP4	11337	GABARAP	S
8502	PKP4	23037	PDZK3	L
8502	PKP4	55914	ERBB2IP	L
8503	PIK3R3	10589	DRAP1	R
8506	CNTNAP1	57142	RTN4	L
8508	NIPSNAP1	79735	TBC1D17	S
8517	IKBKG	8533	COPS3	L
8517	IKBKG	8737	RIPK1	L
8517	IKBKG	8767	RIPK2	L
8517	IKBKG	8915	BCL10	L
8517	IKBKG	9020	MAP3K14	L
8517	IKBKG	9230	RAB11B	L
8517	IKBKG	10010	TANK	L
8517	IKBKG	10758	TRAF3IP2	L
8517	IKBKG	11140	CDC37	L
8517	IKBKG	26133	TRPC4AP	L
8517	IKBKG	26994	RNF11	L
8517	IKBKG	257397	TAB3	L
8518	IKBKAP	9020	MAP3K14	L
8518	IKBKAP	10190	TXNDC9	S
8518	IKBKAP	23557	SNAPAP	S
8518	IKBKAP	25934	NIPSNAP3A	S
8518	IKBKAP	28977	MRPL42	S
8518	IKBKAP	54949	FLJ20487	S
8518	IKBKAP	55140	ELP3	L
8525	DGKZ	10125	RASGRP1	L
8525	DGKZ	54212	SNTG1	L
8525	DGKZ	81488	GRINL1A	S
8527	DGKD	10456	HAX1	S
8527	DGKD	84966	IGSF21	S
8527	DGKD	160851	DGKH	L
8533	COPS3	55805	LRP2BP	L
8536	CAMK1	10645	CAMKK2	L
8541	PPFIA3	10076	PTPRU	L
8541	PPFIA3	26059	CAST1	L
8541	PPFIA3	28964	GIT1	L

8543	LMO4	8861	LDB1	L
8543	LMO4	9079	LDB2	L
8543	LMO4	9371	KIF3B	L
8543	LMO4	9871	SEC24D	L
8543	LMO4	10461	MERTK	L
8543	LMO4	23760	PITPNB	L
8543	LMO4	64129	TINAGL1	L
8543	LMO4	116461	C1orf19	L
8543	LMO4	171392	ZNF675	L
8546	AP3B1	10239	AP3S2	L
8553	BHLHB2	9869	SETDB1	S
8553	BHLHB2	11244	ZHX1	S
8554	PIAS1	55660	FNBP3	L
8554	PIAS1	79753	SNIP1	L
8555	CDC14B	22933	SIRT2	L
8556	CDC14A	51343	FZR1	L
8557	TCAP	58529	MYOZ1	L
8562	DENR	28985	MCTS1	S
8567	MADD	55367	LRDD	L
8569	MKNK1	8672	EIF4G3	L
8570	KHSRP	8880	FUBP1	L
8570	KHSRP	23404	EXOSC2	L
8570	KHSRP	29974	ACF	L
8570	KHSRP	51010	EXOSC3	L
8572	PDLIM4	11030	RBPMS	R
8572	PDLIM4	79797	ZNF408	L
8573	CASK	8825	LIN7A	L
8573	CASK	9369	NRXN3	L
8573	CASK	10716	TBR1	L
8573	CASK	22895	RPH3A	L
8573	CASK	23705	IGSF4	L
8573	CASK	25861	DFNB31	L
8573	CASK	25865	PRKD2	L
8573	CASK	26047	CNTNAP2	L
8573	CASK	57524	CASKIN1	L
8573	CASK	64061	TSPYL2	L
8574	AKR7A2	22977	AKR7A3	R
8575	PRKRA	9869	SETDB1	S
8575	PRKRA	10980	COPS6	S
8576	STK16	22934	RPIA	R
8576	STK16	54507	TSRC1	R
8576	STK16	79734	KCTD17	R
8600	TNFSF11	8792	TNFRSF11A	L
8601	RGS20	11075	STMN2	L
8601	RGS20	28962	OSTM1	L
8607	RUVBL1	51602	NOP5/NOP58	L
8607	RUVBL1	57562	KIAA1377	S
8609	KLF7	81545	FBXO38	L
8612	PPAP2C	9094	UNC119	S
8614	STC2	8891	EIF2B3	S
8614	STC2	9131	PDCD8	S
8614	STC2	10621	POLR3F	S
8614	STC2	23589	CARHSP1	S
8614	STC2	55701	FLJ10357	S
8615	VDP	9527	GOSR1	L
8615	VDP	9570	GOSR2	L
8615	VDP	84970	C1orf94	R
8618	CADPS	51631	LUC7L2	S
8621	CDC2L5	55660	FNBP3	L
8626	TP73L	28996	HIPK2	L
8633	UNC5C	9423	NTN1	L
8637	EIF4EBP3	9470	EIF4E2	R
8642	DCHS1	222019	(null)	S
8643	PTCH2	50846	DHH	L
8644	AKR1C3	11244	ZHX1	S
8644	AKR1C3	22985	ACIN1	S
8644	AKR1C3	55284	UBE2W	S

8644	AKR1C3	55791	C1orf103	S
8646	CHRD	57045	TWSG1	L
8648	NCOA1	8850	PCAF	L
8648	NCOA1	8856	NR1I2	L
8648	NCOA1	9325	TRIP4	L
8648	NCOA1	9971	NR1H4	L
8648	NCOA1	10499	NCOA2	L
8648	NCOA1	10521	DDX17	L
8648	NCOA1	10987	COPS5	L
8649	MAP2K1IP1	51684	SUFU	L
8650	NUMB	83737	ITCH	L
8650	NUMB	222484	LNX2	L
8651	SOCS1	81603	TRIM8	L
8655	DNCL1	9112	MTA1	L
8655	DNCL1	10018	BCL2L11	L
8655	DNCL1	10243	GPHN	L
8655	DNCL1	10383	TUBB2	L
8655	DNCL1	10771	ZMYND11	L
8655	DNCL1	11161	C14orf1	S
8655	DNCL1	11244	ZHX1	S
8655	DNCL1	56288	PARD3	L
8655	DNCL1	56901	LOC56901	S
8655	DNCL1	57619	SHRM	L
8655	DNCL1	84817	TXNL5	L
8655	DNCL1	199745	THAP8	S
8658	TNKS	23048	FNBP1	L
8658	TNKS	25913	POT1	L
8658	TNKS	80351	TNKS2	L
8658	TNKS	85456	TNKS1BP1	L
8661	EIF3S10	8662	EIF3S9	L
8661	EIF3S10	8666	EIF3S4	L
8661	EIF3S10	8668	EIF3S2	L
8661	EIF3S10	8669	EIF3S1	L
8661	EIF3S10	27335	EIF3S12	L
8663	EIF3S8	8666	EIF3S4	L
8663	EIF3S8	8669	EIF3S1	L
8663	EIF3S8	56901	LOC56901	S
8663	EIF3S8	79719	FLJ11506	S
8663	EIF3S8	79753	SNIP1	L
8664	EIF3S7	8666	EIF3S4	L
8664	EIF3S7	8669	EIF3S1	L
8664	EIF3S7	22822	PHLDA1	L
8664	EIF3S7	51386	EIF3S6IP	L
8665	EIF3S5	10456	HAX1	R
8665	EIF3S5	10480	hfl-B5	S
8665	EIF3S5	23097	CDC2L6	L
8666	EIF3S4	8667	EIF3S3	L
8666	EIF3S4	10200	MPHOSPH6	L
8666	EIF3S4	51678	MPP6	L
8667	EIF3S3	11007	DIPA	R
8667	EIF3S3	27185	DISC1	L
8667	EIF3S3	51225	ABI3	R
8668	EIF3S2	118460	EXOSC6	L
8669	EIF3S1	9500	MAGED1	S
8669	EIF3S1	10474	TADA3L	S
8669	EIF3S1	10681	GNB5	S
8669	EIF3S1	51280	GOLPH2	S
8671	SLC4A4	9497	SLC4A7	L
8673	VAMP8	8773	SNAP23	L
8673	VAMP8	8775	NAPA	L
8674	VAMP4	8675	STX16	L
8674	VAMP4	8907	AP1M1	L
8674	VAMP4	10228	STX6	L
8674	VAMP4	55690	PACS1	L
8675	STX16	9341	VAMP3	L
8675	STX16	10228	STX6	L
8676	STX11	8724	SNX3	S

8676	STX11	8773	SNAP23	RL
8676	STX11	8812	CCNK	R
8676	STX11	10629	TAF6L	R
8676	STX11	54407	SLC38A2	S
8676	STX11	79036	MGC2749	R
8678	BECN1	57120	GOPC	L
8682	PEA15	8772	FADD	L
8682	PEA15	51631	LUC7L2	S
8682	PEA15	55229	PANK4	S
8682	PEA15	221264	C6orf199	S
8682	PEA15	380789	(null)	S
8683	SFRS9	8996	NOL3	L
8683	SFRS9	10656	KHDRBS3	L
8683	SFRS9	91746	YT521	L
8685	MARCO	92304	SCGB3A1	L
8685	MARCO	117156	SCGB3A2	L
8697	CDC23	11030	RBPMS	R
8697	CDC23	25788	RAD54B	R
8697	CDC23	81628	TSC22D4	R
8698	EDG6	10672	GNA13	L
8703	B4GALT3	54622	ARFRP2	S
8705	B3GALT4	11269	DDX19B	S
8715	NOL4	10302	SNAPC5	R
8717	TRADD	8718	TNFRSF25	L
8717	TRADD	8737	RIPK1	L
8717	TRADD	8772	FADD	L
8717	TRADD	8795	TNFRSF10B	L
8717	TRADD	8797	TNFRSF10A	L
8717	TRADD	8915	BCL10	L
8717	TRADD	11064	CEP1	L
8717	TRADD	26133	TRPC4AP	L
8717	TRADD	26136	TES	L
8717	TRADD	27242	TNFRSF21	L
8717	TRADD	28996	HIPK2	L
8718	TNFRSF25	8742	TNFSF12	L
8718	TNFRSF25	9530	BAG4	L
8718	TNFRSF25	9966	TNFSF15	L
8721	EDF1	10062	NR1H3	L
8723	SNX4	55750	MULK	S
8726	EED	8841	HDAC3	L
8726	EED	96764	NCOA6IP	L
8727	CTNNAL1	11214	AKAP13	L
8728	ADAM19	10152	ABI2	L
8728	ADAM19	51575	C20orf6	L
8731	RNMT	8732	RNGTT	L
8733	GPAA1	10026	PIGK	L
8733	GPAA1	54458	DKFZp564J157	S
8735	MYH13	51690	LSM7	L
8737	RIPK1	8738	CRADD	L
8737	RIPK1	8772	FADD	L
8737	RIPK1	8795	TNFRSF10B	L
8737	RIPK1	8797	TNFRSF10A	L
8737	RIPK1	8837	CFLAR	L
8737	RIPK1	8878	SQSTM1	L
8737	RIPK1	9020	MAP3K14	L
8737	RIPK1	10475	TRIM38	L
8737	RIPK1	11035	RIPK3	L
8737	RIPK1	26133	TRPC4AP	L
8738	CRADD	11161	C14orf1	S
8738	CRADD	54462	KIAA1128	S
8738	CRADD	55367	LRDD	L
8738	CRADD	55791	C1orf103	S
8740	TNFSF14	8764	TNFRSF14	L
8740	TNFSF14	8771	TNFRSF6B	L
8742	TNFSF12	51330	TNFRSF12A	L
8742	TNFSF12	55109	AGGF1	L
8743	TNFSF10	8793	TNFRSF10D	L

8743	TNFSF10	8794	TNFRSF10C	L
8743	TNFSF10	8795	TNFRSF10B	L
8743	TNFSF10	8797	TNFRSF10A	L
8743	TNFSF10	84060	DKFZP564O0523	S
8751	ADAM15	9319	TRIP13	R
8751	ADAM15	51429	SNX9	L
8754	ADAM9	10459	MAD2L2	L
8754	ADAM9	51429	SNX9	L
8761	PABPC4	22822	PHLDA1	L
8761	PABPC4	54464	XRN1	L
8764	TNFRSF14	8841	HDAC3	L
8764	TNFRSF14	9759	HDAC4	L
8764	TNFRSF14	407977	TNFSF12-TNFSF13	L
8766	RAB11A	22841	RAB11FIP2	L
8766	RAB11A	26056	RAB11FIP5	L
8766	RAB11A	54521	WDR44	L
8766	RAB11A	80223	RAB11FIP1	L
8766	RAB11A	84440	RAB11FIP4	L
8767	RIPK2	8837	CFLAR	L
8767	RIPK2	10392	CARD4	L
8767	RIPK2	64127	CARD15	L
8767	RIPK2	84674	CARD6	L
8771	TNFRSF6B	9966	TNFSF15	L
8772	FADD	8795	TNFRSF10B	L
8772	FADD	8797	TNFRSF10A	L
8772	FADD	8837	CFLAR	L
8772	FADD	8930	MBD4	L
8772	FADD	9191	DEDD	L
8772	FADD	9994	CASP8AP2	L
8772	FADD	10114	HIPK3	L
8772	FADD	23429	RYBP	L
8772	FADD	25843	PREI3	S
8772	FADD	55367	LRDD	L
8772	FADD	57062	DDX24	S
8772	FADD	57510	XPO5	L
8772	FADD	85444	LRRCC1	S
8773	SNAP23	8775	NAPA	R
8773	SNAP23	9341	VAMP3	L
8773	SNAP23	9513	FXR2	R
8773	SNAP23	9522	SCAMP1	L
8773	SNAP23	10066	SCAMP2	L
8773	SNAP23	10152	ABI2	R
8773	SNAP23	10228	STX6	L
8773	SNAP23	10590	SCGN	R
8773	SNAP23	23557	SNAPAP	L
8773	SNAP23	23673	STX12	L
8773	SNAP23	51225	ABI3	R
8773	SNAP23	134957	STXBP5	L
8774	NAPG	9482	STX8	L
8774	NAPG	26056	RAB11FIP5	L
8775	NAPA	9482	STX8	L
8775	NAPA	9527	GOSR1	L
8775	NAPA	9570	GOSR2	L
8775	NAPA	23673	STX12	L
8775	NAPA	57142	RTN4	R
8777	MPDZ	9076	CLDN1	L
8777	MPDZ	10413	YAP1	L
8777	MPDZ	59338	PLEKHA1	L
8778	SIGLEC5	9319	TRIP13	R
8784	TNFRSF18	8995	TNFSF18	L
8792	TNFRSF11A	23118	MAP3K7IP2	L
8794	TNFRSF10C	11244	ZHX1	S
8794	TNFRSF10C	28965	SLC27A6	S
8794	TNFRSF10C	90678	LRSAM1	S
8794	TNFRSF10C	359845	MGC45871	S
8795	TNFRSF10B	8837	CFLAR	L
8796	SCEL	10628	TXNIP	L

8797	TNFRSF10A	8915	BCL10	L
8805	TRIM24	10155	TRIM28	L
8805	TRIM24	10951	CBX1	L
8805	TRIM24	11335	CBX3	L
8805	TRIM24	23468	CBX5	L
8805	TRIM24	51592	TRIM33	L
8809	IL18R1	27178	IL1F7	L
8811	GALR2	51083	GAL	L
8812	CCNK	10363	HMG20A	R
8812	CCNK	11007	DIPA	R
8812	CCNK	11030	RBPMS	R
8812	CCNK	30008	EFEMP2	R
8812	CCNK	54550	EFCBP2	R
8812	CCNK	79959	C18orf9	R
8812	CCNK	81628	TSC22D4	R
8812	CCNK	83755	KRTAP4-12	R
8812	CCNK	83878	USHBP1	R
8812	CCNK	84528	PEPP-2	R
8812	CCNK	222546	RFXDC1	R
8812	CCNK	283518	KCNRG	R
8819	SAP30	9541	CIR	L
8819	SAP30	9611	NCOR1	L
8819	SAP30	9612	NCOR2	L
8820	HESX1	9611	NCOR1	L
8825	LIN7A	10458	BAIAP2	L
8825	LIN7A	51678	MPP6	L
8825	LIN7A	64398	MPP5	L
8826	IQGAP1	9495	AKAP5	L
8826	IQGAP1	53405	CLIC5	L
8829	NRP1	10371	SEMA3A	L
8829	NRP1	10755	GIPC1	L
8834	TMEM11	22955	SCMH1	S
8837	CFLAR	9191	DEDD	L
8837	CFLAR	162989	DEDD2	L
8841	HDAC3	9063	PIAS2	L
8841	HDAC3	9569	GTF2IRD1	L
8841	HDAC3	9611	NCOR1	L
8841	HDAC3	9612	NCOR2	L
8841	HDAC3	9734	HDAC9	L
8841	HDAC3	9759	HDAC4	L
8841	HDAC3	10014	HDAC5	L
8841	HDAC3	22948	CCT5	L
8841	HDAC3	23118	MAP3K7IP2	L
8841	HDAC3	25942	SIN3A	L
8841	HDAC3	51564	HDAC7A	L
8841	HDAC3	55662	HIF1AN	L
8841	HDAC3	55806	HR	L
8841	HDAC3	83933	HDAC10	L
8848	TSC22D1	9869	SETDB1	S
8848	TSC22D1	10391	CORO2B	S
8848	TSC22D1	60492	MDS025	S
8850	PCAF	51621	KLF13	L
8851	CDK5R1	10763	NES	L
8851	CDK5R1	55755	CDK5RAP2	L
8851	CDK5R1	81628	TSC22D4	R
8852	AKAP4	10566	AKAP3	L
8859	STK19	10262	SF3B4	L
8859	STK19	23532	PRAME	L
8861	LDB1	23635	SSBP2	R
8861	LDB1	54472	TOLLIP	R
8861	LDB1	55885	LMO3	R
8861	LDB1	58190	CTDSP1	L
8861	LDB1	170463	SSBP4	R
8863	PER3	8864	PER2	L
8863	PER3	9575	CLOCK	L
8864	PER2	8914	TIMELESS	L
8867	SYNJ1	29763	PACSIN3	L

8867	SYNJ1	29993	PACSIN1	L
8871	SYNJ2	50618	ITSN2	L
8872	C10orf7	57473	GM632	L
8874	ARHGEF7	9647	PPM1F	L
8874	ARHGEF7	9815	GIT2	L
8874	ARHGEF7	10381	TUBB3	S
8874	ARHGEF7	22941	SHANK2	L
8874	ARHGEF7	28964	GIT1	L
8874	ARHGEF7	50944	SHANK1	L
8877	SPHK1	26750	RPS6KC1	L
8878	SQSTM1	11345	GABARAPL2	R
8878	SQSTM1	23710	GABARAPL1	R
8878	SQSTM1	79686	C14orf139	S
8878	SQSTM1	81631	MAP1LC3B	S
8878	SQSTM1	114034	TOE1	S
8880	FUBP1	10658	CUGBP1	S
8880	FUBP1	10989	IMMT	L
8882	ZNF259	55755	CDK5RAP2	S
8883	APPBP1	9039	UBE1C	L
8883	APPBP1	56893	UBQLN4	S
8886	DDX18	9112	MTA1	S
8886	DDX18	10207	INADL	S
8887	TAX1BP1	26994	RNF11	L
8887	TAX1BP1	79735	TBC1D17	S
8887	TAX1BP1	90627	STARD13	L
8888	MCM3AP	11164	NUDT5	S
8888	MCM3AP	51259	MGC13379	S
8888	MCM3AP	56943	ENY2	S
8890	EIF2B4	8891	EIF2B3	L
8890	EIF2B4	8892	EIF2B2	L
8890	EIF2B4	8893	EIF2B5	L
8890	EIF2B4	8894	EIF2S2	L
8891	EIF2B3	8892	EIF2B2	L
8891	EIF2B3	8893	EIF2B5	L
8891	EIF2B3	51280	GOLPH2	S
8892	EIF2B2	8893	EIF2B5	L
8893	EIF2B5	8894	EIF2S2	L
8894	EIF2S2	9094	UNC119	S
8894	EIF2S2	9842	PLEKHM1	S
8894	EIF2S2	57562	KIAA1377	S
8894	EIF2S2	60492	MDS025	S
8899	PRPF4B	8988	HSPB3	S
8899	PRPF4B	10621	POLR3F	S
8900	CCNA1	10399	GNB2L1	L
8900	CCNA1	126823	KARCA1	L
8900	CCNA1	147011	PROCA1	L
8900	CCNA1	196528	ARID2	L
8900	CCNA1	388324	INCA1	L
8904	CPNE1	9040	UBE2M	L
8904	CPNE1	10016	PDCD6	L
8904	CPNE1	26292	MYCBP	L
8904	CPNE1	28952	CCDC22	L
8904	CPNE1	54880	BCOR	L
8904	CPNE1	57605	PITPNM2	L
8904	CPNE1	131034	CPNE4	L
8905	AP1S2	8906	AP1G2	L
8905	AP1S2	23163	GGA3	L
8906	AP1G2	9135	RABEP1	L
8906	AP1G2	11276	AP1GBP1	L
8906	AP1G2	54464	XRN1	L
8906	AP1G2	54812	AFTIPHILIN	L
8907	AP1M1	9513	FXR2	R
8907	AP1M1	10053	AP1M2	L
8907	AP1M1	10618	TGOLN2	L
8907	AP1M1	10900	RPIP8	R
8907	AP1M1	23641	LDOC1	R
8907	AP1M1	30846	EHD2	L

8907	AP1M1	63971	KIF13A	L
8907	AP1M1	92610	TIFA	R
8907	AP1M1	127557	ZBTB8	R
8910	SGCE	10425	ARIH2	S
8915	BCL10	10892	MALT1	L
8915	BCL10	29775	CARD10	L
8915	BCL10	58484	CARD12	L
8915	BCL10	64170	CARD9	L
8915	BCL10	79092	CARD14	L
8915	BCL10	84270	C9orf89	L
8915	BCL10	84433	CARD11	L
8924	HERC2	26994	RNF11	L
8925	HERC1	26994	RNF11	L
8927	BSN	26059	CAST1	L
8928	FOXH1	10589	DRAP1	L
8932	MBD2	11321	XAB1	L
8932	MBD2	25988	MIZF	L
8932	MBD2	54815	GATAD2A	L
8934	RAB7L1	51690	LSM7	L
8935	SCAP2	84106	PRAM1	L
8936	WASF1	9051	PSTPIP1	L
8936	WASF1	10152	ABI2	L
8936	WASF1	23268	DNMBP	L
8940	TOP3B	9400	RECQL5	L
8940	TOP3B	10516	FBLN5	L
8940	TOP3B	26511	CHIC2	R
8940	TOP3B	79797	ZNF408	L
8940	TOP3B	83755	KRTAP4-12	R
8940	TOP3B	161882	ZFPM1	L
8945	BTRC	9787	DLG7	L
8945	BTRC	23291	FBXW11	L
8945	BTRC	29978	UBQLN2	L
8945	BTRC	51684	SUFU	L
8945	BTRC	114088	TRIM9	R
8975	USP13	51168	MYO15A	S
8975	USP13	54874	FNBP1L	S
8975	USP13	55052	MRPL20	S
8975	USP13	65991	FUNDC2	S
8975	USP13	84675	TRIM55	L
8975	USP13	84676	TRIM63	L
8976	WASL	23268	DNMBP	L
8976	WASL	23433	RHOQ	L
8976	WASL	29763	PACSIN3	L
8976	WASL	29993	PACSIN1	L
8976	WASL	54874	FNBP1L	L
8976	WASL	55660	FNBP3	L
8985	PLOD3	10919	EHMT2	R
8985	PLOD3	11007	DIPA	R
8985	PLOD3	84528	PEPP-2	R
8985	PLOD3	151871	DPPA2	R
8985	PLOD3	285596	NY-REN-7	R
8987	GENX-3414	55729	ATF7IP	L
8988	HSPB3	9094	UNC119	S
8988	HSPB3	9869	SETDB1	S
8988	HSPB3	10268	RAMP3	S
8988	HSPB3	23140	ZZEF1	S
8988	HSPB3	26012	NELF	S
8988	HSPB3	26071	DKFZP564B147	S
8988	HSPB3	51003	MED31	S
8988	HSPB3	55791	C1orf103	S
8988	HSPB3	56944	OLFML3	S
8988	HSPB3	64978	MRPL38	S
8988	HSPB3	84060	DKFZP564O0523	S
8988	HSPB3	112950	MED8	S
8991	SELENBP1	9319	TRIP13	R
8991	SELENBP1	26073	POLDIP2	S
8991	SELENBP1	51003	MED31	S

8991	SELENBP1	55791	C1orf103	S
8994	LIMD1	10114	HIPK3	L
8996	NOL3	29844	TFPT	L
8996	NOL3	55224	ETNK2	R
8996	NOL3	60491	NIF3L1	R
8996	NOL3	140885	PTPNS1	R
9001	HAP1	9146	HGS	L
9001	HAP1	9551	ATP5J2	S
9001	HAP1	9804	TOMM20	S
9001	HAP1	10081	PDCD7	S
9001	HAP1	10440	TIMM17A	S
9001	HAP1	11079	RER1	S
9001	HAP1	23557	SNAPAP	S
9001	HAP1	25934	NIPSNAP3A	S
9001	HAP1	29070	HSPC065	S
9001	HAP1	29997	GLTSCR2	S
9001	HAP1	51058	ZNF691	S
9001	HAP1	54555	DDX49	S
9001	HAP1	55755	CDK5RAP2	S
9001	HAP1	57050	SAS10	S
9001	HAP1	57332	CBX8	S
9001	HAP1	64965	MRPS9	S
9001	HAP1	65265	C8orf33	S
9001	HAP1	65990	C16orf24	S
9001	HAP1	79101	MGC5306	S
9001	HAP1	79768	C15orf29	S
9001	HAP1	266812	NAP1L5	S
9013	TAF1C	9014	TAF1B	L
9013	TAF1C	9015	TAF1A	L
9014	TAF1B	9015	TAF1A	L
9019	MPZL1	54512	EXOSC4	L
9025	RNF8	10477	UBE2E3	L
9025	RNF8	11007	DIPA	R
9025	RNF8	23404	EXOSC2	L
9025	RNF8	80817	KIAA1712	R
9031	BAZ1B	10036	CHAF1A	L
9040	UBE2M	131034	CPNE4	L
9040	UBE2M	221184	CPNE2	L
9045	RPL14	22822	PHLDA1	L
9046	DOK2	26128	KIAA1279	R
9051	PSTPIP1	10163	WASF2	L
9051	PSTPIP1	26469	PTPN18	L
9053	MAP7	59341	TRPV4	L
9055	PRC1	11007	DIPA	R
9055	PRC1	54474	KRT20	R
9055	PRC1	83878	USHBP1	R
9061	PAPSS1	9094	UNC119	S
9061	PAPSS1	84988	PPP1R16A	S
9063	PIAS2	9569	GTF2IRD1	L
9063	PIAS2	11315	PARK7	L
9063	PIAS2	79753	SNIP1	L
9063	PIAS2	89797	NAV2	R
9069	CLDN12	29888	STRN4	S
9070	ASH2L	9094	UNC119	S
9070	ASH2L	84661	LOC84661	R
9075	CLDN2	83755	KRTAP4-12	R
9076	CLDN1	9414	TJP2	L
9076	CLDN1	10207	INADL	L
9076	CLDN1	23476	BRD4	S
9083	BPY2	55201	BPY2IP1	L
9088	PKMYT1	55240	STEAP3	L
9093	DNAJA3	9278	ZNF297	R
9093	DNAJA3	80196	RNF34	L
9093	DNAJA3	348487	C1orf117	R
9094	UNC119	9540	TP53I3	S
9094	UNC119	10063	COX17	S
9094	UNC119	10200	MPHOSPH6	S

9094	UNC119	10571	SMA3	S
9094	UNC119	11068	CYB561D2	S
9094	UNC119	19241	(null)	S
9094	UNC119	22902	RIPX	S
9094	UNC119	22929	SEPHS1	S
9094	UNC119	23028	AOF2	S
9094	UNC119	51631	LUC7L2	S
9094	UNC119	54622	ARFRP2	S
9094	UNC119	54810	GIPC2	S
9094	UNC119	55274	PHF10	S
9094	UNC119	55299	BXDC2	S
9094	UNC119	55643	BTBD2	S
9094	UNC119	55734	ZFP64	S
9094	UNC119	56144	PCDHA4	S
9094	UNC119	56893	UBQLN4	S
9094	UNC119	57332	CBX8	S
9094	UNC119	63943	FKBPL	S
9094	UNC119	79719	FLJ11506	S
9094	UNC119	80228	C7orf19	S
9094	UNC119	81890	QTRT1	S
9094	UNC119	170961	ANKRD24	S
9094	UNC119	404550	MGC17624	R
9099	USP2	11007	DIPA	R
9099	USP2	29911	HOOK2	R
9099	USP2	57596	KIAA1446	R
9099	USP2	79656	C1orf165	R
9100	USP10	10146	G3BP	L
9101	USP8	10049	DNAJB6	L
9101	USP8	10254	STAM2	L
9110	MTMR4	10114	HIPK3	L
9111	NMI	9146	HGS	R
9111	NMI	10302	SNAPC5	R
9111	NMI	11117	EMILIN1	R
9111	NMI	11147	HHLA3	R
9111	NMI	25804	LSM4	L
9111	NMI	55707	NECAP2	R
9111	NMI	374659	HDDC3	R
9112	MTA1	51497	TH1L	S
9124	PDLIM1	9489	PGS1	S
9124	PDLIM1	55750	MULK	S
9124	PDLIM1	140901	STK35	L
9126	CSPG6	22920	KIFAP3	L
9126	CSPG6	27127	SMC1L2	L
9128	PRPF4	9551	ATP5J2	S
9128	PRPF4	10465	PPIH	L
9129	PRPF3	9733	SART3	L
9129	PRPF3	11007	DIPA	R
9129	PRPF3	84661	LOC84661	R
9129	PRPF3	84705	GTPBP3	R
9131	PDCD8	9869	SETDB1	S
9131	PDCD8	23286	KIBRA	S
9131	PDCD8	84273	C4orf14	S
9134	CCNE2	23595	ORC3L	L
9135	RABEP1	23062	GGA2	L
9135	RABEP1	23163	GGA3	L
9135	RABEP1	27342	RABGEF1	L
9135	RABEP1	30811	HUNK	L
9135	RABEP1	83452	RAB33B	L
9138	ARHGEF1	10672	GNA13	L
9139	CBFA2T2	9611	NCOR1	L
9139	CBFA2T2	9612	NCOR2	L
9139	CBFA2T2	25942	SIN3A	L
9139	CBFA2T2	55093	C8orf32	R
9140	ATG12	83755	KRTAP4-12	R
9141	PDCD5	10524	HTATIP	S
9141	PDCD5	10813	UTP14A	S
9141	PDCD5	55791	C1orf103	S

9141	PDCD5	57562	KIAA1377	S
9146	HGS	9443	CRSP9	R
9146	HGS	9802	DAZAP2	R
9146	HGS	10254	STAM2	R
9146	HGS	10919	EHMT2	R
9146	HGS	23265	EXOC7	R
9146	HGS	23641	LDOC1	R
9146	HGS	29979	UBQLN1	R
9146	HGS	57409	AD023	R
9146	HGS	57596	KIAA1446	R
9146	HGS	80125	FLJ32855	R
9146	HGS	80318	GKAP1	R
9146	HGS	83878	USHBP1	R
9146	HGS	149371	EXOC8	R
9146	HGS	541468	C1orf190	R
9149	DYRK1B	10048	RANBP9	L
9149	DYRK1B	10238	WDR68	L
9158	FIBP	9982	FGFBP1	L
9158	FIBP	140545	RNF32	S
9169	SFRS2IP	11338	U2AF2	L
9173	IL1RL1	11018	TMED1	L
9175	MAP3K13	9479	MAPK8IP1	L
9175	MAP3K13	10935	PRDX3	L
9183	ZW10	9735	KNTC1	L
9184	BUB3	10038	PARP2	L
9185	REPS2	50807	DDEF1	L
9189	ZBED1	10174	SORBS3	R
9189	ZBED1	10597	SEDLP	R
9189	ZBED1	11321	XAB1	R
9189	ZBED1	25876	C20orf28	R
9189	ZBED1	26086	GPSM1	R
9189	ZBED1	51388	CGI-37	R
9189	ZBED1	60491	NIF3L1	R
9189	ZBED1	79873	NUDT18	R
9191	DEDD	162989	DEDD2	L
9205	ZMYM5	79753	SNIP1	L
9212	AURKB	10607	TBL3	S
9212	AURKB	29127	RACGAP1	L
9212	AURKB	55139	FLJ10415	S
9218	VAPA	150094	SNF1LK	L
9219	MTA2	23013	SPEN	L
9221	NOLC1	25885	POLR1A	L
9223	MAG1	9311	ACCN3	L
9223	MAG1	10276	NET1	L
9229	DLGAP1	22941	SHANK2	L
9229	DLGAP1	140735	Dic2	L
9230	RAB11B	10133	OPTN	L
9230	RAB11B	22841	RAB11FIP2	L
9231	DLG5	10174	SORBS3	L
9231	DLG5	84280	BTBD10	S
9240	PNMA1	79165	LENG1	S
9240	PNMA1	84968	PNMA6A	S
9244	CRLF1	23529	CLCF1	L
9246	UBE2L6	9810	RNF40	L
9246	UBE2L6	25820	ARIH1	L
9246	UBE2L6	25897	RNF19	L
9260	PDLIM7	9491	PSMF1	R
9260	PDLIM7	11060	WWP2	R
9260	PDLIM7	25865	PRKD2	L
9260	PDLIM7	57144	PAK7	R
9260	PDLIM7	79025	MGC5356	R
9260	PDLIM7	84080	C16orf48	R
9260	PDLIM7	91056	DKFZp761E198	R
9260	PDLIM7	164127	C1orf65	R
9261	MAPKAPK2	10092	ARPC5	L
9261	MAPKAPK2	10949	HNRPA0	L
9262	STK17B	11261	CHP	L

9265	PSCD3	10256	CNKSR1	R
9265	PSCD3	57658	CALCOCO1	R
9266	PSCD2	90060	JM11	R
9267	PSCD1	9595	PSCDBP	L
9267	PSCD1	10139	ARFRP1	L
9278	ZNF297	56893	UBQLN4	S
9294	EDG5	10672	GNA13	L
9295	SFRS11	11338	U2AF2	L
9296	ATP6V1F	57562	KIAA1377	S
9311	ACCN3	10207	INADL	L
9311	ACCN3	57120	GOPC	L
9311	ACCN3	64130	LIN7B	L
9315	C5orf13	84966	IGSF21	S
9318	COPS2	60491	NIF3L1	L
9319	TRIP13	9587	MAD2L1BP	RS
9319	TRIP13	9721	KIAA0514	R
9319	TRIP13	10802	SEC24A	R
9319	TRIP13	11030	RBPMS	R
9319	TRIP13	23564	DDAH2	R
9319	TRIP13	23583	SMUG1	R
9319	TRIP13	26086	GPSM1	R
9319	TRIP13	28970	PTD012	R
9319	TRIP13	51316	PLAC8	R
9319	TRIP13	51700	CYB5R2	R
9319	TRIP13	54973	CPSF3L	R
9319	TRIP13	55093	C8orf32	R
9319	TRIP13	57048	PLSCR3	R
9319	TRIP13	57088	PLSCR4	R
9319	TRIP13	57559	AMSH-LP	R
9319	TRIP13	57707	KIAA1609	R
9319	TRIP13	57715	SEMA4G	R
9319	TRIP13	60491	NIF3L1	R
9319	TRIP13	64081	MAWBP	R
9319	TRIP13	79027	ZNF655	R
9319	TRIP13	79092	CARD14	R
9319	TRIP13	79754	ASB13	R
9319	TRIP13	81932	HDHD3	R
9319	TRIP13	83897	KRTAP3-2	R
9319	TRIP13	84171	LOXL4	R
9319	TRIP13	84708	LNX	R
9319	TRIP13	113878	DTX2	R
9319	TRIP13	115761	ARL11	R
9319	TRIP13	132158	GLYCTK	R
9319	TRIP13	200523	FLJ25369	R
9320	TRIP12	55729	ATF7IP	L
9322	TRIP10	10142	AKAP9	L
9322	TRIP10	23433	RHOQ	L
9322	TRIP10	51729	WBP11	R
9325	TRIP4	10973	ASCC3	L
9337	CNOT8	10766	TOB2	L
9337	CNOT8	10950	BTG3	L
9337	CNOT8	23019	CNOT1	L
9341	VAMP3	10134	BCAP31	L
9342	SNAP29	541468	C1orf190	R
9343	EFTUD2	10094	ARPC3	S
9343	EFTUD2	10594	PRPF8	L
9343	EFTUD2	24148	C20orf14	L
9343	EFTUD2	51280	GOLPH2	S
9349	RPL23	56647	BCCIP	R
9351	SLC9A3R2	23678	SGK3	L
9351	SLC9A3R2	25937	WWTR1	L
9355	LHX2	10370	CITED2	L
9355	LHX2	51132	RNF12	L
9356	SLC22A6	10513	APPBP2	R
9362	CPNE6	26289	AK5	S
9363	RAB33A	10313	RTN3	R
9363	RAB33A	10567	RABAC1	R

9363	RAB33A	57142	RTN4	R
9367	RAB9A	9375	TM9SF2	L
9367	RAB9A	10226	M6PRBP1	L
9367	RAB9A	10244	RABEPK	L
9368	SLC9A3R1	9498	SLC4A8	L
9368	SLC9A3R1	10413	YAP1	L
9368	SLC9A3R1	11216	AKAP10	L
9368	SLC9A3R1	23236	PLCB1	L
9368	SLC9A3R1	55824	PAG1	L
9370	ADIPOQ	79602	ADIPOR2	L
9371	KIF3B	22920	KIFAP3	L
9372	ZFYVE9	9631	NUP155	L
9372	ZFYVE9	9802	DAZAP2	L
9372	ZFYVE9	23111	SPG20	L
9372	ZFYVE9	23141	KIAA0692	L
9372	ZFYVE9	23613	PRKCBP1	L
9372	ZFYVE9	25870	SUMF2	L
9372	ZFYVE9	26994	RNF11	L
9372	ZFYVE9	55603	FAM46A	L
9372	ZFYVE9	55681	SCYL2	L
9372	ZFYVE9	55914	ERBB2IP	L
9372	ZFYVE9	79987	SVEP1	L
9372	ZFYVE9	84181	CHD6	L
9372	ZFYVE9	89941	RHOT2	L
9372	ZFYVE9	91544	UBXD5	L
9373	PLAA	10013	HDAC6	L
9377	COX5A	10980	COPS6	S
9378	NRXN1	26037	SIPA1L1	L
9379	NRXN2	57062	DDX24	S
9380	GRHPR	27257	LSM1	L
9382	COG1	25839	COG4	L
9382	COG1	83548	COG3	L
9388	LIPG	56915	EXOSC5	L
9391	WDR39	51280	GOLPH2	S
9391	WDR39	51647	FAM96B	R
9391	WDR39	84191	FAM96A	R
9391	WDR39	221016	CCDC7	R
9398	IGSF2	22827	SIAHBP1	S
9400	RECQL5	9479	MAPK8IP1	S
9400	RECQL5	9788	MTSS1	S
9400	RECQL5	10617	STAMPB	S
9400	RECQL5	11325	DDX42	S
9400	RECQL5	23421	ITGB3BP	S
9400	RECQL5	221442	LOC221442	S
9401	RECQL4	11098	PRSS23	S
9402	GRAP2	9846	GAB2	L
9402	GRAP2	10399	GNB2L1	L
9402	GRAP2	10617	STAMPB	RL
9402	GRAP2	10657	KHDRBS1	L
9402	GRAP2	11030	RPBMS	R
9402	GRAP2	11184	MAP4K1	L
9402	GRAP2	23582	CCNDBP1	L
9402	GRAP2	27040	LAT	L
9402	GRAP2	51043	ZBTB7B	R
9402	GRAP2	79656	C1orf165	R
9402	GRAP2	83755	KRTAP4-12	R
9402	GRAP2	139716	GAB3	L
9404	LPXN	9883	POM121	R
9404	LPXN	51317	PHF21A	R
9404	LPXN	55272	IMP3	R
9404	LPXN	79088	ZNF426	R
9410	WDR57	10594	PRPF8	L
9410	WDR57	24148	C20orf14	L
9413	C9orf61	9531	BAG3	R
9414	TJP2	30011	SH3KBP1	L
9414	TJP2	57530	CGN	L
9421	HAND1	9464	HAND2	L

9439	CRSP3	9969	THRAP1	L
9439	CRSP3	23038	WDTA1	L
9439	CRSP3	23054	NCOA6	L
9439	CRSP3	23369	PUM2	L
9446	GSTO1	9869	SETDB1	S
9446	GSTO1	10524	HTATIP	S
9446	GSTO1	57562	KIAA1377	S
9446	GSTO1	84060	DKFZP564O0523	S
9454	HOMER3	9456	HOMER1	L
9454	HOMER3	23045	KIAA0826	R
9454	HOMER3	140735	Dlc2	R
9455	HOMER2	116986	CENTG1	L
9456	HOMER1	23673	STX12	L
9456	HOMER1	50944	SHANK1	L
9456	HOMER1	51225	ABI3	R
9456	HOMER1	79098	C1orf116	R
9456	HOMER1	116986	CENTG1	L
9457	FHL5	10126	DNAL4	R
9457	FHL5	57576	KIF17	L
9459	ARHGEF6	28964	GIT1	L
9464	HAND2	10987	COPS5	L
9470	EIF4E2	25820	ARIH1	L
9470	EIF4E2	54474	KRT20	R
9470	EIF4E2	56478	EIF4ENIF1	R
9470	EIF4E2	83755	KRTAP4-12	R
9479	MAPK8IP1	80824	DUSP16	L
9482	STX8	10488	CREB3	R
9482	STX8	10490	VTI1B	R
9482	STX8	29062	HSPC049	S
9489	PGS1	11337	GABARAP	S
9491	PSMF1	10656	KHDRBS3	R
9491	PSMF1	11007	DIPA	R
9491	PSMF1	11051	NUDT21	R
9491	PSMF1	27316	RBMX	R
9491	PSMF1	29911	HOOK2	R
9491	PSMF1	55658	RNF126	R
9491	PSMF1	84528	PEPP-2	R
9491	PSMF1	125170	SMCR7	R
9491	PSMF1	222389	C10orf30	R
9493	KIF23	29127	RACGAP1	L
9496	TBX4	55603	FAM46A	L
9500	MAGED1	9867	PJA2	L
9500	MAGED1	22142	(null)	S
9500	MAGED1	51547	SIRT7	S
9500	MAGED1	51660	BRP44L	S
9500	MAGED1	64219	PJA1	L
9500	MAGED1	64582	GPR135	S
9501	RPH3AL	9545	RAB3D	L
9501	RPH3AL	9699	RIMS2	L
9501	RPH3AL	10497	UNC13B	L
9502	XAGE2	10919	EHMT2	R
9512	PMPCB	23203	PMPCA	L
9513	FXR2	10197	PSME3	R
9513	FXR2	10241	NDP52	R
9513	FXR2	10313	RTN3	R
9513	FXR2	10445	MCRS1	R
9513	FXR2	10534	SSSCA1	R
9513	FXR2	10567	RABAC1	R
9513	FXR2	10606	PAICS	R
9513	FXR2	11007	DIPA	R
9513	FXR2	11030	RBPMS	R
9513	FXR2	22934	RPIA	R
9513	FXR2	22978	NT5C2	R
9513	FXR2	23204	ARL6IP	R
9513	FXR2	23641	LDOC1	R
9513	FXR2	23650	TRIM29	R
9513	FXR2	26036	ZNF451	R

9513	FXR2	26999	CYFIP2	L
9513	FXR2	27316	RBMX	R
9513	FXR2	51421	AMOTL2	R
9513	FXR2	51451	LCMT1	R
9513	FXR2	51562	MBIP	R
9513	FXR2	54474	KRT20	R
9513	FXR2	54550	EFCBP2	R
9513	FXR2	55145	THAP1	R
9513	FXR2	56243	KIAA1217	R
9513	FXR2	57142	RTN4	R
9513	FXR2	64769	C1orf149	R
9513	FXR2	79036	MGC2749	R
9513	FXR2	80125	FLJ32855	R
9513	FXR2	80318	GKAP1	R
9513	FXR2	81628	TSC22D4	R
9513	FXR2	127557	ZBTB8	R
9513	FXR2	138046	LOC138046	R
9513	FXR2	151871	DPPA2	R
9513	FXR2	283518	KCNRG	R
9513	FXR2	386618	KCTD4	R
9513	FXR2	414157	C10orf62	R
9516	LITAF	55698	FLJ10324	S
9517	SPTLC2	10558	SPTLC1	L
9519	TBPL1	10226	M6PRBP1	S
9519	TBPL1	11021	RAB35	S
9519	TBPL1	51135	IRAK4	S
9519	TBPL1	54978	C2orf18	S
9519	TBPL1	55037	FLJ20758	S
9519	TBPL1	55324	ABCF3	S
9522	SCAMP1	10066	SCAMP2	L
9522	SCAMP1	11276	AP1GBP1	L
9531	BAG3	9802	DAZAP2	R
9531	BAG3	26353	HSPB8	R
9533	POLR1C	51082	POLR1D	R
9540	TP53I3	65991	FUNDC2	S
9540	TP53I3	197131	UBR1	S
9541	CIR	9612	NCOR2	L
9541	CIR	22938	SNW1	L
9545	RAB3D	9699	RIMS2	L
9545	RAB3D	117177	RAB3IP	L
9551	ATP5J2	23028	AOF2	S
9551	ATP5J2	55207	ARL10C	S
9551	ATP5J2	78987	CRELD1	S
9551	ATP5J2	339230	MGC16597	S
9564	BCAR1	10045	SH2D3A	L
9564	BCAR1	10278	EFS	S
9564	BCAR1	22142	(null)	S
9564	BCAR1	23607	CD2AP	L
9564	BCAR1	23645	PPP1R15A	S
9564	BCAR1	53826	FXD6	S
9564	BCAR1	55823	VPS11	S
9564	BCAR1	80725	SNIP	L
9568	GPR51	22809	ATF5	L
9569	GTF2IRD1	54512	EXOSC4	L
9572	NR1D1	9611	NCOR1	L
9577	BRE	29086	HSPC142	R
9584	RNPC2	23054	NCOA6	L
9586	CREB5	10488	CREB3	L
9586	CREB5	10538	BATF	L
9586	CREB5	11016	ATF7	L
9586	CREB5	55509	SNFT	L
9586	CREB5	58487	ZF	L
9586	CREB5	60468	BACH2	L
9587	MAD2L1BP	9869	SETDB1	S
9587	MAD2L1BP	10524	HTATIP	S
9587	MAD2L1BP	55791	C1orf103	S
9587	MAD2L1BP	57562	KIAA1377	S

9587	MAD2L1BP	84966	IGSF21	S
9604	RNF14	55603	FAM46A	L
9610	RIN1	22800	RRAS2	L
9611	NCOR1	9734	HDAC9	L
9611	NCOR1	9759	HDAC4	L
9611	NCOR1	9975	NR1D2	L
9611	NCOR1	10009	ZBTB33	L
9611	NCOR1	10014	HDAC5	L
9611	NCOR1	10771	ZMYND11	L
9611	NCOR1	23013	SPEN	L
9611	NCOR1	23411	SIRT1	L
9611	NCOR1	23493	HEY2	L
9611	NCOR1	25942	SIN3A	L
9612	NCOR2	9759	HDAC4	L
9612	NCOR2	10014	HDAC5	L
9612	NCOR2	22938	SNW1	L
9612	NCOR2	23013	SPEN	L
9612	NCOR2	23411	SIRT1	L
9612	NCOR2	51564	HDAC7A	L
9612	NCOR2	83933	HDAC10	L
9616	RNF7	81618	ITM2C	R
9618	TRAF4	10295	BCKDK	L
9618	TRAF4	11138	TBC1D8	L
9618	TRAF4	27036	SIGLEC7	L
9618	TRAF4	54535	CCHCR1	L
9618	TRAF4	57473	GM632	L
9618	TRAF4	64750	SMURF2	L
9623	TCL1B	30000	TNPO2	S
9627	SNCAIP	10044	SH2D3C	S
9627	SNCAIP	51608	C7orf20	S
9628	RGS6	11075	STMN2	L
9628	RGS6	55929	DMAP1	L
9632	SEC24C	10483	SEC23B	R
9632	SEC24C	10484	SEC23A	L
9636	G1P2	11274	USP18	R
9638	FEZ1	9804	TOMM20	S
9638	FEZ1	10081	PDCD7	S
9638	FEZ1	10190	TXNDC9	S
9638	FEZ1	10519	CIB1	L
9638	FEZ1	27185	DISC1	L
9638	FEZ1	27336	HTATSF1	S
9638	FEZ1	51025	Magmas	S
9638	FEZ1	54919	FLJ20397	S
9638	FEZ1	56944	OLFML3	S
9638	FEZ1	57223	SMEK2	S
9638	FEZ1	79866	FLJ22624	S
9638	FEZ1	129563	MGC42174	S
9641	IKBKE	10010	TANK	L
9647	PPM1F	84140	FLJ13305	S
9659	PDE4DIP	57473	GM632	L
9685	ENTH	23062	GGA2	L
9694	KIAA0103	10328	COX4NB	R
9694	KIAA0103	51016	C14orf122	R
9699	RIMS2	10567	RABAC1	L
9699	RIMS2	11069	RAPGEF4	L
9699	RIMS2	115827	RAB3C	L
9704	DHX34	23649	POLA2	S
9706	ULK2	9869	SETDB1	S
9706	ULK2	23649	POLA2	S
9706	ULK2	51631	LUC7L2	S
9709	HERPUD1	57519	STARD9	S
9721	KIAA0514	10253	SPRY2	R
9721	KIAA0514	83755	KRTAP4-12	R
9721	KIAA0514	140735	Dic2	R
9726	ZNF646	22981	KIAA0980	R
9728	KIAA0256	55729	ATF7IP	L
9729	KIAA0408	10174	SORBS3	R

9729	KIAA0408	11007	DIPA	R
9729	KIAA0408	29911	HOOK2	R
9729	KIAA0408	51225	ABI3	R
9729	KIAA0408	55722	Cep72	R
9729	KIAA0408	56159	TEX11	R
9729	KIAA0408	57596	KIAA1446	R
9729	KIAA0408	64170	CARD9	R
9733	SART3	10921	RNPS1	L
9734	HDAC9	9759	HDAC4	L
9734	HDAC9	23309	SIN3B	L
9734	HDAC9	23468	CBX5	L
9734	HDAC9	25942	SIN3A	L
9737	GPRASP1	10249	GLYAT	S
9737	GPRASP1	10342	TFG	S
9737	GPRASP1	10542	HBXIP	S
9737	GPRASP1	11075	STMN2	S
9737	GPRASP1	22823	MTF2	S
9737	GPRASP1	23557	SNAPAP	S
9737	GPRASP1	51236	C8orf30A	S
9737	GPRASP1	55700	RPRC1	S
9737	GPRASP1	55872	PBK	S
9737	GPRASP1	65265	C8orf33	S
9737	GPRASP1	79756	(null)	S
9741	LAPTM4A	10381	TUBB3	S
9744	CENTB1	25900	HOM-TES-103	R
9747	KIAA0738	10262	SF3B4	R
9747	KIAA0738	30008	EFEMP2	R
9757	MLL4	57473	GM632	L
9759	HDAC4	23468	CBX5	L
9759	HDAC4	54880	BCOR	L
9765	ZFYVE16	10043	TOM1	L
9765	ZFYVE16	26994	RNF11	L
9775	DDX48	51244	C3orf19	R
9778	KIAA0232	54978	C2orf18	S
9779	TBC1D5	11345	GABARAPL2	R
9785	DHX38	51362	CDC40	L
9789	SPCS2	50861	STMN3	S
9789	SPCS2	79736	C17orf42	S
9796	PHYHIP	10397	NDRG1	S
9796	PHYHIP	10419	SKB1	S
9796	PHYHIP	10450	PPIE	S
9796	PHYHIP	10980	COPS6	S
9796	PHYHIP	11161	C14orf1	S
9796	PHYHIP	20924	(null)	S
9796	PHYHIP	23140	ZZEF1	S
9796	PHYHIP	57104	PNPLA2	S
9796	PHYHIP	79885	HDAC11	S
9796	PHYHIP	81557	MAGED4	S
9796	PHYHIP	92342	C1orf156	S
9796	PHYHIP	112840	C14orf150	S
9796	PHYHIP	112950	MED8	S
9796	PHYHIP	131408	MGC21688	S
9796	PHYHIP	374923	(null)	S
9802	DAZAP2	10241	NDP52	R
9802	DAZAP2	10254	STAM2	R
9802	DAZAP2	10422	UBADC1	R
9802	DAZAP2	11030	RBPMS	R
9802	DAZAP2	11059	WWP1	R
9802	DAZAP2	11201	POLI	R
9802	DAZAP2	23543	RBM9	R
9802	DAZAP2	23578	(null)	R
9802	DAZAP2	26086	GPSM1	R
9802	DAZAP2	26574	AATF	R
9802	DAZAP2	51545	ZNF581	R
9802	DAZAP2	54165	DCUN1D1	R
9802	DAZAP2	54472	TOLLIP	R
9802	DAZAP2	54855	FAM46C	R

9802	DAZAP2	54932	FLJ20433	R
9802	DAZAP2	64750	SMURF2	L
9802	DAZAP2	79050	NOC4L	R
9802	DAZAP2	83459	DKFZP761H1710	R
9802	DAZAP2	84528	PEPP-2	R
9802	DAZAP2	84970	C1orf94	R
9802	DAZAP2	90060	JM11	R
9802	DAZAP2	116071	MGC20410	R
9802	DAZAP2	130617	ZFAND2B	R
9804	TOMM20	51535	PPHLN1	S
9804	TOMM20	56993	TOMM22	L
9804	TOMM20	57562	KIAA1377	S
9804	TOMM20	79577	CDC73	S
9807	IHPK1	23016	EXOSC7	R
9808	KIAA0087	54978	C2orf18	S
9810	RNF40	26036	ZNF451	R
9810	RNF40	84767	TRIM51	R
9814	SFI1	55698	FLJ10324	R
9817	KEAP1	55603	FAM46A	L
9818	NUPL1	23636	NUP62	L
9820	CUL7	23291	FBXW11	L
9825	SPATA2	55722	Cep72	R
9826	ARHGEF11	10672	GNA13	L
9832	KIAA0555	23650	TRIM29	R
9839	ZFHX1B	10980	COPS6	S
9842	PLEKHM1	25843	PREI3	S
9842	PLEKHM1	79756	(null)	S
9844	ELMO1	23210	PTDSR	L
9846	GAB2	27040	LAT	L
9849	ZNF518	55729	ATF7IP	L
9869	SETDB1	9921	RNF10	S
9869	SETDB1	10036	CHAF1A	L
9869	SETDB1	10140	TOB1	S
9869	SETDB1	10155	TRIM28	L
9869	SETDB1	10190	TXNDC9	S
9869	SETDB1	10301	DLEU1	S
9869	SETDB1	10571	SMA3	S
9869	SETDB1	10626	TRIM16	S
9869	SETDB1	10991	SLC38A3	S
9869	SETDB1	23028	AOF2	S
9869	SETDB1	23309	SIN3B	L
9869	SETDB1	23435	TARDBP	S
9869	SETDB1	23649	POLA2	S
9869	SETDB1	25843	PREI3	S
9869	SETDB1	25934	NIPSNAP3A	S
9869	SETDB1	25942	SIN3A	L
9869	SETDB1	28620	TRBV2	S
9869	SETDB1	29903	HSU79303	S
9869	SETDB1	51295	SITPEC	S
9869	SETDB1	54472	TOLLIP	S
9869	SETDB1	54810	GIPC2	S
9869	SETDB1	55274	PHF10	S
9869	SETDB1	55299	BXDC2	S
9869	SETDB1	55643	BTBD2	S
9869	SETDB1	55729	ATF7IP	L
9869	SETDB1	55734	ZFP64	S
9869	SETDB1	56144	PCDHA4	S
9869	SETDB1	56944	OLFML3	S
9869	SETDB1	57332	CBX8	S
9869	SETDB1	57664	PLEKHA4	S
9869	SETDB1	57761	TRIB3	S
9869	SETDB1	64776	C11orf1	S
9869	SETDB1	65080	MRPL44	S
9869	SETDB1	78987	CRELD1	S
9869	SETDB1	79753	SNIP1	L
9869	SETDB1	79756	(null)	S
9869	SETDB1	80228	C7orf19	S

9869	SETDB1	81890	QTRT1	S
9869	SETDB1	84256	FLYWCH1	S
9869	SETDB1	192111	MGC5352	S
9869	SETDB1	199745	THAP8	S
9869	SETDB1	375078	(null)	S
9871	SEC24D	10483	SEC23B	R
9873	FCHSD2	11007	DIPA	R
9873	FCHSD2	339965	FLJ25770	R
9874	TLK1	25842	ASF1A	R
9878	C14orf92	10114	HIPK3	L
9878	C14orf92	57473	GM632	L
9883	POM121	10087	COL4A3BP	R
9883	POM121	10551	AGR2	R
9883	POM121	11030	RBPMS	R
9883	POM121	55165	C10orf3	R
9883	POM121	56159	TEX11	R
9890	LPPR4	118924	C10orf4	S
9890	LPPR4	162952	(null)	S
9892	SNAP91	10376	K-ALPHA-1	L
9894	KIAA0683	10524	HTATIP	S
9905	RUTBC1	10656	KHDRBS3	S
9905	RUTBC1	54857	GDPD2	S
9905	RUTBC1	54874	FNBP1L	S
9905	RUTBC1	56902	LOC56902	S
9905	RUTBC1	56963	RGMA	S
9905	RUTBC1	67781	(null)	S
9911	TMCC2	53635	PTOV1	S
9912	KIAA0672	51155	HN1	S
9921	RNF10	10813	UTP14A	S
9921	RNF10	55791	C1orf103	S
9921	RNF10	60492	MDS025	S
9925	ZBTB5	11007	DIPA	R
9933	KIAA0020	79803	HPS6	S
9935	MAFB	60468	BACH2	L
9939	RBM8A	10250	SRRM1	L
9939	RBM8A	55110	FLJ10292	RL
9939	RBM8A	65110	UPF3A	L
9971	NR1H4	10891	PPARGC1A	L
9972	NUP153	10482	NXF1	L
9972	NUP153	11260	XPOT	L
9972	NUP153	23636	NUP62	L
9972	NUP153	56001	NXF2	L
9972	NUP153	57510	XPO5	L
9972	NUP153	59343	SENP2	L
9978	RBX1	84893	FBXO18	L
9984	THOC1	10189	THOC4	L
9984	THOC1	57187	THOC2	L
9984	THOC1	84321	THOC3	L
9985	REC8L1	27127	SMC1L2	L
9988	DMTF1	55729	ATF7IP	L
9993	DGCR2	64750	SMURF2	L
10010	TANK	11183	MAP4K5	L
10010	TANK	29110	TBK1	L
10010	TANK	80149	ZC3H12A	R
10011	SRA1	65264	FLJ13855	S
10013	HDAC6	22933	SIRT2	L
10013	HDAC6	54880	BCOR	L
10013	HDAC6	79885	HDAC11	L
10014	HDAC5	11337	GABARAP	S
10014	HDAC5	23468	CBX5	L
10014	HDAC5	55806	HR	L
10015	PDCD6IP	10016	PDCD6	L
10015	PDCD6IP	10268	RAMP3	S
10015	PDCD6IP	26994	RNF11	L
10015	PDCD6IP	29082	CHMP4A	L
10015	PDCD6IP	92421	CHMP4C	L
10015	PDCD6IP	128866	CHMP4B	L

10016	PDCD6	23578	(null)	RL
10016	PDCD6	23593	HEBP2	R
10016	PDCD6	30011	SH3KBP1	L
10016	PDCD6	93487	C14orf32	R
10016	PDCD6	131034	CPNE4	L
10016	PDCD6	221184	CPNE2	L
10036	CHAF1A	10915	TCERG1	L
10036	CHAF1A	10951	CBX1	L
10036	CHAF1A	23468	CBX5	L
10036	CHAF1A	79797	ZNF408	L
10039	PARP3	23075	SWAP70	L
10040	TOM1L1	10403	KNTC2	S
10040	TOM1L1	10630	PDPN	S
10040	TOM1L1	10658	CUGBP1	S
10040	TOM1L1	22931	RAB18	S
10040	TOM1L1	23190	UBXD2	S
10040	TOM1L1	23272	RAP140	S
10040	TOM1L1	23420	NOMO1	S
10040	TOM1L1	27043	PELP1	S
10040	TOM1L1	50813	COPS7A	S
10040	TOM1L1	55280	CWF19L1	S
10040	TOM1L1	57003	GK001	S
10040	TOM1L1	162952	(null)	S
10043	TOM1	54472	TOLLIP	L
10043	TOM1	57473	GM632	L
10044	SH2D3C	10278	EFS	R
10048	RANBP9	27185	DISC1	L
10048	RANBP9	28996	HIPK2	L
10051	SMC4L1	10592	SMC2L1	L
10053	AP1M2	10618	TGOLN2	L
10054	UBA2	10055	SAE1	R
10054	UBA2	55299	BXDC2	S
10059	DNM1L	23410	SIRT3	S
10063	COX17	10980	COPS6	S
10063	COX17	11161	C14orf1	S
10063	COX17	55791	C1orf103	S
10063	COX17	84056	KATNAL1	R
10063	COX17	84060	DKFZP564O0523	S
10063	COX17	222019	(null)	S
10066	SCAMP2	10425	ARIH2	S
10069	C21orf6	10912	GADD45G	R
10069	C21orf6	11269	DDX19B	S
10073	RNUT1	23285	KIAA1107	S
10081	PDCD7	55660	FBNP3	L
10083	USH1C	64072	CDH23	L
10083	USH1C	124590	USH1G	L
10084	PQBP1	11161	C14orf1	S
10084	PQBP1	51003	MED31	S
10084	PQBP1	51729	WBP11	L
10084	PQBP1	55791	C1orf103	S
10087	COL4A3BP	10313	RTN3	R
10087	COL4A3BP	23421	ITGB3BP	R
10087	COL4A3BP	57142	RTN4	R
10093	ARPC4	10094	ARPC3	L
10093	ARPC4	10097	ACTR2	L
10093	ARPC4	10109	ARPC2	L
10093	ARPC4	51497	TH1L	S
10093	ARPC4	55819	RNF130	S
10093	ARPC4	81873	ARPC5L	S
10094	ARPC3	10095	ARPC1B	L
10094	ARPC3	10096	ACTR3	L
10094	ARPC3	10097	ACTR2	L
10094	ARPC3	10109	ARPC2	L
10094	ARPC3	55258	FLJ10916	S
10094	ARPC3	55593	OTUD5	S
10094	ARPC3	116985	CENTD2	S
10095	ARPC1B	10097	ACTR2	L

10095	ARPC1B	10109	ARPC2	L
10096	ACTR3	10109	ARPC2	L
10096	ACTR3	10163	WASF2	L
10096	ACTR3	10810	WASF3	L
10097	ACTR2	10109	ARPC2	L
10097	ACTR2	10163	WASF2	L
10097	ACTR2	10788	IQGAP2	L
10111	RAD50	54386	TERF2IP	L
10112	KIF20A	51560	RAB6B	L
10114	HIPK3	26508	HEYL	L
10114	HIPK3	51427	ZNF588	L
10114	HIPK3	55679	LIMS2	L
10114	HIPK3	64689	GORASP1	L
10126	DNAL4	140735	Dic2	R
10127	ZNF263	29922	NME7	R
10127	ZNF263	30008	EFEMP2	R
10127	ZNF263	51282	SCAND1	R
10127	ZNF263	51324	SPG21	R
10127	ZNF263	51684	SUFU	R
10127	ZNF263	55663	ZNF446	R
10127	ZNF263	79666	PLEKHF2	R
10127	ZNF263	90933	TRIM41	R
10128	LRPPRC	23593	HEBP2	L
10128	LRPPRC	27443	CECR2	L
10128	LRPPRC	55201	BPY2IP1	L
10133	OPTN	26994	RNF11	L
10133	OPTN	51019	CGI-116	R
10133	OPTN	79735	TBC1D17	R
10140	TOB1	22955	SCMH1	S
10142	AKAP9	10426	TUBGCP3	L
10142	AKAP9	10460	TACC3	L
10142	AKAP9	23048	FNBP1	L
10152	ABI2	11086	ADAM29	L
10152	ABI2	30011	SH3KBP1	L
10152	ABI2	51019	CGI-116	R
10152	ABI2	53616	ADAM22	L
10152	ABI2	54474	KRT20	R
10152	ABI2	90410	IFT20	R
10155	TRIM28	10168	ZNF197	L
10155	TRIM28	10951	CBX1	L
10155	TRIM28	23468	CBX5	L
10156	RASA4	57136	C20orf3	S
10156	RASA4	90861	C16orf34	S
10158	PDZK1IP1	10813	UTP14A	S
10158	PDZK1IP1	10980	COPS6	S
10163	WASF2	10458	BAIAP2	L
10163	WASF2	29993	PACSIN1	L
10169	SERF2	10197	PSME3	R
10169	SERF2	11030	RBPMS	R
10169	SERF2	51497	TH1L	S
10169	SERF2	84528	PEPP-2	R
10174	SORBS3	10278	EF5	R
10174	SORBS3	10521	DDX17	R
10174	SORBS3	27316	RBMX	R
10174	SORBS3	54507	TSRC1	R
10174	SORBS3	56243	KIAA1217	R
10174	SORBS3	63948	DMRTB1	R
10174	SORBS3	79869	FLJ12529	R
10179	RBM7	10363	HMG20A	R
10179	RBM7	10656	KHDRBS3	R
10179	RBM7	11007	DIPA	R
10179	RBM7	27316	RBMX	R
10181	RBM5	55791	C1orf103	S
10188	TNK2	10490	VT11B	S
10188	TNK2	55846	MDS028	S
10188	TNK2	124925	SEZ6	S
10188	TNK2	255426	RASGEF1C	S

10189	THOC4	10212	DDX39	L
10189	THOC4	57187	THOC2	L
10189	THOC4	65110	UPF3A	L
10189	THOC4	84321	THOC3	L
10190	TXNDC9	10989	IMMT	S
10190	TXNDC9	28964	GIT1	S
10190	TXNDC9	57562	KIAA1377	S
10197	PSME3	11033	CENTA1	S
10197	PSME3	54819	ZCCHC10	R
10197	PSME3	79446	WDR25	R
10197	PSME3	79873	NUDT18	R
10197	PSME3	284058	LOC284058	R
10199	MPHOSPH10	92856	IMP4	L
10200	MPHOSPH6	11161	C14orf1	S
10200	MPHOSPH6	11244	ZHX1	S
10200	MPHOSPH6	26574	AATF	L
10200	MPHOSPH6	51429	SNX9	L
10200	MPHOSPH6	55791	C1orf103	S
10200	MPHOSPH6	64965	MRPS9	L
10200	MPHOSPH6	83658	DNCL2A	L
10200	MPHOSPH6	84060	DKFZP564O0523	S
10200	MPHOSPH6	93663	ARHGAP18	L
10204	NUTF2	51631	LUC7L2	S
10204	NUTF2	79904	FLJ11710	S
10207	INADL	57555	NLGN2	L
10209	EIF1	93145	OLFM2	S
10210	TOPORS	79753	SNIP1	L
10211	FLOT1	10580	SORBS1	L
10211	FLOT1	51280	GOLPH2	S
10211	FLOT1	58157	NGB	L
10212	DDX39	84324	CIP29	R
10214	SSX3	117178	SSX2IP	L
10219	KLRG1	23484	LEPROTL1	R
10228	STX6	57120	GOPC	L
10235	RASGRP2	57540	PTCHD2	S
10235	RASGRP2	79607	FLJ21103	S
10241	NDP52	10922	FASTK	R
10241	NDP52	11143	MYST2	R
10241	NDP52	11170	TU3A	R
10241	NDP52	11201	POLI	R
10241	NDP52	11345	GABARAPL2	R
10241	NDP52	23578	(null)	R
10241	NDP52	23710	GABARAPL1	R
10241	NDP52	25804	LSM4	R
10241	NDP52	26036	ZNF451	R
10241	NDP52	26994	RNF11	L
10241	NDP52	27132	CPNE7	R
10241	NDP52	27301	APEX2	R
10241	NDP52	27332	ZNF638	R
10241	NDP52	50628	GEMIN4	L
10241	NDP52	51224	TCEB3B	R
10241	NDP52	51588	PIAS4	R
10241	NDP52	55388	MCM10	R
10241	NDP52	55684	C9orf86	R
10241	NDP52	55861	C20orf35	R
10241	NDP52	58155	PTBP2	R
10241	NDP52	79025	MGC5356	R
10241	NDP52	79088	ZNF426	R
10241	NDP52	79696	C14orf140	R
10241	NDP52	79797	ZNF408	R
10241	NDP52	80028	FBXL18	R
10241	NDP52	80125	FLJ32855	R
10241	NDP52	84080	C16orf48	R
10241	NDP52	84708	LNX	R
10241	NDP52	84759	PCGF1	R
10241	NDP52	85302	FBF1	R
10241	NDP52	91056	DKFZp761E198	R

10241	NDP52	94039	ZNF101	R
10241	NDP52	112858	TP53RK	R
10241	NDP52	114822	RHPN1	R
10241	NDP52	164127	C1orf65	R
10241	NDP52	284058	LOC284058	R
10243	GPHN	11337	GABARAP	L
10243	GPHN	23229	ARHGEF9	L
10243	GPHN	23766	GABARAPL3	L
10243	GPHN	140735	Dic2	L
10248	POP7	10556	RPP30	L
10248	POP7	10557	RPP38	L
10248	POP7	10799	RPP40	L
10248	POP7	54913	RPP25	L
10249	GLYAT	84060	DKFZP564O0523	S
10250	SRRM1	10482	NXF1	L
10250	SRRM1	10921	RNPS1	L
10250	SRRM1	23524	SRRM2	L
10250	SRRM1	26019	UPF2	L
10250	SRRM1	65109	UPF3B	L
10253	SPRY2	23624	CBLC	L
10253	SPRY2	54507	TSRC1	R
10253	SPRY2	83755	KRTAP4-12	R
10253	SPRY2	84767	TRIM51	R
10254	STAM2	10617	STAMPB	RL
10254	STAM2	26994	RNF11	L
10254	STAM2	54464	XRN1	L
10254	STAM2	83746	L3MBTL2	R
10256	CNKSRI	114822	RHPN1	L
10262	SF3B4	10992	SF3B2	R
10262	SF3B4	26039	SS18L1	R
10266	RAMP2	11318	ADMR	L
10266	RAMP2	79924	ADM2	L
10267	RAMP1	79924	ADM2	L
10268	RAMP3	11318	ADMR	L
10268	RAMP3	79924	ADM2	L
10273	STUB1	10657	KHDRBS1	S
10278	EFS	79090	TRAPPC6A	R
10282	BET1	83878	USHBP1	R
10284	SAP18	10320	ZNFN1A1	L
10284	SAP18	10474	TADA3L	S
10284	SAP18	51684	SUFU	L
10284	SAP18	79159	MGC3731	S
10285	SMNDC1	23020	ASCC3L1	L
10287	RGS19	10755	GIPC1	L
10287	RGS19	28962	OSTM1	L
10291	SF3A1	10915	TCERG1	L
10291	SF3A1	10946	SF3A3	L
10297	APC2	22924	MAPRE3	L
10298	PAK4	54815	GATAD2A	S
10300	KATNB1	11104	KATNA1	L
10301	DLEU1	10383	TUBB2	S
10301	DLEU1	10524	HTATIP	S
10301	DLEU1	10813	UTP14A	S
10301	DLEU1	10980	COPS6	S
10301	DLEU1	51003	MED31	S
10301	DLEU1	55207	ARL10C	S
10301	DLEU1	55324	ABCF3	S
10301	DLEU1	57562	KIAA1377	S
10301	DLEU1	60492	MDS025	S
10301	DLEU1	197131	UBR1	S
10302	SNAPC5	10538	BATF	R
10302	SNAPC5	79184	CXorf53	R
10313	RTN3	57142	RTN4	R
10313	RTN3	79666	PLEKHF2	R
10313	RTN3	84067	DKFZP566M1046	R
10318	TNIP1	26994	RNF11	L
10318	TNIP1	286514	MAGEB18	R

10320	ZNFN1A1	22807	ZNFN1A2	L
10320	ZNFN1A1	23309	SIN3B	L
10320	ZNFN1A1	25942	SIN3A	L
10320	ZNFN1A1	64375	ZNFN1A4	L
10327	AKR1A1	54512	EXOSC4	L
10342	TFG	11161	C14orf1	S
10342	TFG	54622	ARFRP2	S
10342	TFG	57562	KIAA1377	S
10360	NPM3	57562	KIAA1377	S
10362	HMG20B	10579	TACC2	S
10362	HMG20B	11007	DIPA	R
10362	HMG20B	24137	KIF4A	L
10363	HMG20A	54997	TSC	R
10363	HMG20A	55110	FLJ10292	R
10365	KLF2	11059	WWP1	L
10381	TUBB3	10573	MRPL28	S
10381	TUBB3	10657	KHDRBS1	S
10381	TUBB3	11337	GABARAP	S
10381	TUBB3	23231	KIAA0746	S
10381	TUBB3	55023	PHIP	S
10381	TUBB3	57662	KIAA1543	S
10381	TUBB3	91266	(null)	S
10381	TUBB3	171546	C14orf147	S
10381	TUBB3	196383	MGC7036	S
10381	TUBB3	284004	FLJ23825	S
10381	TUBB3	284169	(null)	S
10391	CORO2B	162952	(null)	S
10392	CARD4	84674	CARD6	L
10399	GNB2L1	11269	DDX19B	S
10399	GNB2L1	22821	RASA3	L
10399	GNB2L1	26986	PABPC1	L
10399	GNB2L1	28965	SLC27A6	S
10399	GNB2L1	51280	GOLPH2	S
10399	GNB2L1	81628	TSC22D4	R
10401	PIAS3	55660	FBNP3	L
10401	PIAS3	55729	ATF7IP	L
10403	KNTC2	26258	PLDN	R
10403	KNTC2	51019	CGI-116	R
10403	KNTC2	51421	AMOTL2	R
10403	KNTC2	57658	CALCOCO1	R
10403	KNTC2	59349	KLHL12	R
10403	KNTC2	83878	USHBP1	R
10411	RAPGEF3	22800	RRAS2	L
10413	YAP1	10971	YWHAQ	L
10413	YAP1	23558	WBP2	L
10413	YAP1	23559	WBP1	L
10419	SKB1	29789	PTD004	S
10422	UBADC1	11052	CPSF6	R
10425	ARIH2	10524	HTATIP	S
10425	ARIH2	10813	UTP14A	S
10425	ARIH2	27436	EML4	S
10425	ARIH2	29062	HSPC049	S
10425	ARIH2	57562	KIAA1377	S
10425	ARIH2	116985	CENTD2	S
10425	ARIH2	147791	LOC147791	S
10426	TUBGCP3	27175	TUBG2	L
10427	SEC24B	10484	SEC23A	L
10430	NIFIE14	51225	ABI3	R
10432	RBM14	23054	NCOA6	L
10435	CDC42EP2	23433	RHOQ	L
10436	C2F	10657	KHDRBS1	S
10436	C2F	24142	NAT6	S
10436	C2F	54977	FLJ20551	S
10440	TIMM17A	10469	TIMM44	L
10445	MCRS1	11007	DIPA	R
10445	MCRS1	11157	LSM6	L
10445	MCRS1	29079	MED4	R

10445	MCRS1	51019	CGI-116	R
10445	MCRS1	51729	WBP11	R
10445	MCRS1	54984	PINX1	L
10445	MCRS1	65109	UPF3B	L
10445	MCRS1	79036	MGC2749	R
10445	MCRS1	80817	KIAA1712	R
10445	MCRS1	138046	LOC138046	R
10450	PPIE	56949	XAB2	R
10454	MAP3K7IP1	257397	TAB3	L
10456	HAX1	10788	IQGAP2	L
10456	HAX1	10971	YWHAQ	L
10458	BAIAP2	11161	C14orf1	S
10458	BAIAP2	22941	SHANK2	L
10458	BAIAP2	50944	SHANK1	L
10458	BAIAP2	51517	NCKIPSD	R
10458	BAIAP2	64130	LIN7B	L
10459	MAD2L2	51455	REV1L	L
10466	COG5	25839	COG4	L
10468	FST	83729	INHBE	L
10474	TADA3L	83440	ADPGK	S
10474	TADA3L	83641	C10orf45	S
10474	TADA3L	112869	LOC112869	R
10476	ATP5H	51608	C7orf20	S
10482	NXF1	29107	NXT1	RL
10482	NXF1	30000	TNPO2	L
10482	NXF1	55916	NXT2	L
10482	NXF1	55998	NXF5	L
10482	NXF1	65110	UPF3A	L
10486	CAP2	10487	CAP1	L
10486	CAP2	55660	FNBP3	L
10488	CREB3	10513	APPBP2	R
10488	CREB3	55509	SNFT	L
10488	CREB3	84699	CREB3L3	L
10488	CREB3	90993	CREB3L1	L
10488	CREB3	148327	CREB3L4	L
10489	LRRC41	11030	RBPMS	R
10492	SYNCRIP	29974	ACF	L
10492	SYNCRIP	127833	SYT2	L
10494	STK25	11235	PDCD10	R
10495	COVA1	55068	FLJ10094	R
10497	UNC13B	114034	TOE1	S
10513	APPBP2	10607	TBL3	R
10513	APPBP2	23208	SYT11	R
10513	APPBP2	23212	RRS1	R
10513	APPBP2	51510	CHMP5	R
10513	APPBP2	79594	C1orf166	R
10513	APPBP2	81029	WNT5B	R
10513	APPBP2	84219	WDR24	R
10513	APPBP2	113655	MFSD3	R
10513	APPBP2	170261	ZCCHC12	R
10513	APPBP2	220686	LOC220686	R
10513	APPBP2	221458	C6orf102	R
10513	APPBP2	493861	EID3	R
10519	CIB1	10769	PLK2	L
10519	CIB1	51366	EDD1	L
10521	DDX17	51729	WBP11	R
10521	DDX17	84708	LNX	R
10522	DEAF1	26173	DKFZP586J0619	S
10522	DEAF1	84164	ASCC2	S
10524	HTATIP	10574	CCT7	S
10524	HTATIP	10621	POLR3F	S
10524	HTATIP	23557	SNAPAP	S
10524	HTATIP	29903	HSU79303	S
10524	HTATIP	51059	LOC51059	S
10524	HTATIP	51608	C7orf20	S
10524	HTATIP	55755	CDK5RAP2	S
10524	HTATIP	56901	LOC56901	S

10524	HTATIP	57332	CBX8	S
10524	HTATIP	57664	PLEKHA4	S
10524	HTATIP	57761	TRIB3	S
10524	HTATIP	65990	C16orf24	S
10524	HTATIP	78987	CRELD1	S
10524	HTATIP	79676	FLJ13491	S
10524	HTATIP	79760	GEMIN7	S
10524	HTATIP	266812	NAP1L5	S
10524	HTATIP	284169	(null)	S
10524	HTATIP	339448	LOC339448	S
10524	HTATIP	359845	MGC45871	S
10529	NEBL	84665	MYPN	L
10534	SSSCA1	22948	CCT5	R
10534	SSSCA1	51534	C6orf55	R
10534	SSSCA1	79025	MGC5356	R
10534	SSSCA1	79050	NOC4L	R
10534	SSSCA1	79090	TRAPPC6A	R
10534	SSSCA1	80022	MYO15B	R
10534	SSSCA1	80125	FLJ32855	R
10534	SSSCA1	151254	ALS2CR11	R
10537	UBD	51667	NYREN18	L
10538	BATF	22809	ATF5	L
10538	BATF	55509	SNFT	L
10539	TXNL2	25865	PRKD2	L
10539	TXNL2	30008	EFEMP2	R
10539	TXNL2	54507	TSRC1	R
10539	TXNL2	57019	CIAPIN1	R
10539	TXNL2	57473	GM632	L
10539	TXNL2	65220	NADK	R
10539	TXNL2	83755	KRTAP4-12	R
10539	TXNL2	118924	C10orf4	S
10539	TXNL2	284004	FLJ23825	S
10540	DCTN2	23299	BICD2	L
10540	DCTN2	51280	GOLPH2	S
10540	DCTN2	65108	MARCKSL1	L
10541	ANP32B	25885	POLR1A	L
10542	HBXIP	10813	UTP14A	S
10542	HBXIP	28964	GIT1	S
10542	HBXIP	55791	C1orf103	S
10542	HBXIP	57562	KIAA1377	S
10542	HBXIP	84232	MAF1	S
10550	ARL6IP5	84100	ARL6	L
10551	AGR2	29117	BRD7	S
10551	AGR2	51003	MED31	S
10551	AGR2	60492	MDS025	S
10556	RPP30	10557	RPP38	L
10556	RPP30	10775	POP4	L
10556	RPP30	10799	RPP40	L
10556	RPP30	10940	POP1	L
10556	RPP30	11102	RPP14	L
10557	RPP38	10775	POP4	L
10557	RPP38	10799	RPP40	L
10557	RPP38	10940	POP1	L
10563	CXCL13	51554	CCRL1	L
10564	ARFGEF2	10565	ARFGEF1	L
10564	ARFGEF2	55660	FNBP3	L
10566	AKAP3	10672	GNA13	L
10567	RABAC1	11266	DUSP12	R
10567	RABAC1	22800	RRAS2	L
10567	RABAC1	29907	SNX15	R
10567	RABAC1	51324	SPG21	R
10567	RABAC1	51534	C6orf55	R
10567	RABAC1	53916	RAB4B	L
10567	RABAC1	55093	C8orf32	R
10567	RABAC1	56997	CABC1	R
10567	RABAC1	57403	RAB22A	L
10567	RABAC1	60491	NIF3L1	R

10567	RABAC1	79666	PLEKHF2	R
10567	RABAC1	79873	NUDT18	R
10567	RABAC1	84067	DKFZP566M1046	R
10567	RABAC1	84708	LNX	R
10567	RABAC1	125170	SMCR7	R
10569	SLU7	11007	DIPA	R
10569	SLU7	53938	PPIL3	R
10570	DPYSL4	56896	DPYSL5	L
10571	SMA3	222019	(null)	S
10572	SIVA	81488	GRINL1A	S
10574	CCT7	51003	MED31	S
10577	NPC2	79947	DHDDS	L
10580	SORBS1	57556	SEMA6A	L
10581	IFITM2	55037	FLJ20758	S
10581	IFITM2	65110	UPF3A	L
10585	POMT1	29954	POMT2	L
10588	MTHFS	81628	TSC22D4	R
10589	DRAP1	51616	TAF9L	R
10589	DRAP1	54107	POLE3	R
10589	DRAP1	55160	ARHGEF10L	S
10594	PRPF8	24148	C20orf14	L
10602	CDC42EP3	23433	RHOQ	L
10605	PAIP1	26986	PABPC1	L
10606	PAICS	25843	PREI3	S
10606	PAICS	79873	NUDT18	R
10606	PAICS	79959	C18orf9	R
10606	PAICS	84708	LNX	R
10607	TBL3	50618	ITSN2	S
10607	TBL3	81605	C9orf74	S
10608	MXD4	140290	TCP10L	L
10611	PDLIM5	56658	TRIM39	R
10615	SPAG5	23557	SNAPAP	S
10618	TGOLN2	25865	PRKD2	L
10618	TGOLN2	84687	PPP1R9B	L
10621	POLR3F	11161	C14orf1	S
10621	POLR3F	55791	C1orf103	S
10621	POLR3F	112840	C14orf150	S
10628	TXNIP	64750	SMURF2	L
10640	SEC10L1	149371	EXOC8	L
10656	KHDRBS3	10657	KHDRBS1	L
10656	KHDRBS3	22893	BAHD1	R
10656	KHDRBS3	27316	RBMX	R
10656	KHDRBS3	79797	ZNF408	R
10656	KHDRBS3	79873	NUDT18	R
10656	KHDRBS3	80125	FLJ32855	R
10656	KHDRBS3	84708	LNX	R
10656	KHDRBS3	202559	KHDRBS2	R
10657	KHDRBS1	23360	FNBP4	L
10657	KHDRBS1	91746	YT521	L
10657	KHDRBS1	284169	(null)	S
10659	CUGBP2	29974	ACF	L
10670	RRAGA	55035	NOL8	L
10670	RRAGA	58528	RRAGD	L
10670	RRAGA	64121	RRAGC	RL
10672	GNA13	23365	ARHGEF12	L
10673	TNFSF13B	23495	TNFRSF13B	L
10673	TNFSF13B	115650	TNFRSF13C	L
10673	TNFSF13B	407977	TNFSF12-TNFSF13	L
10675	CSPG5	57120	GOPC	L
10681	GNB5	93145	OLFM2	S
10691	GMEB1	55729	ATF7IP	L
10691	GMEB1	79753	SNIP1	L
10728	PTGES3	22820	COPG	L
10728	PTGES3	26958	COPG2	L
10733	PLK4	23281	KIAA0774	R
10733	PLK4	54855	FAM46C	R
10734	STAG3	27127	SMC1L2	L

10742	RAI2	54557	SGTB	R
10743	RAI1	54997	TSC	R
10749	KIF1C	11099	PTPN21	L
10750	GRAP	27040	LAT	L
10755	GIPC1	23095	KIF1B	L
10755	GIPC1	54910	SEMA4C	L
10755	GIPC1	79797	ZNF408	L
10766	TOB2	29883	CNOT7	L
10771	ZMYND11	56946	C11orf30	L
10772	FUSIP1	29896	TRA2A	L
10773	ZNF482	55729	ATF7IP	L
10775	POP4	10940	POP1	L
10775	POP4	51367	POP5	L
10775	POP4	54913	RPP25	L
10783	NEK6	11007	DIPA	R
10783	NEK6	54550	EFCBP2	R
10783	NEK6	91754	NEK9	L
10787	NCKAP1	23268	DNMBP	L
10801	SEPT9	10890	RAB10	S
10801	SEPT9	23157	SEPT6	L
10807	SDCCAG3	28964	GIT1	S
10813	UTP14A	11007	DIPA	R
10813	UTP14A	22981	KIAA0980	R
10813	UTP14A	23641	LDOC1	R
10813	UTP14A	27258	LSM3	S
10813	UTP14A	29903	HSU79303	S
10813	UTP14A	29911	HOOK2	R
10813	UTP14A	51319	RSRC1	S
10813	UTP14A	55274	PHF10	S
10813	UTP14A	55339	WDR33	S
10813	UTP14A	64129	TINAGL1	S
10813	UTP14A	64400	FTS	S
10813	UTP14A	80321	Cep70	R
10846	PDE10A	10885	WDR3	S
10847	SRCAP	79065	ATG9A	S
10856	RUVBL2	25911	RP11-529I10.4	R
10881	ACTL7A	26136	TES	L
10898	CPSF4	56996	SLC12A9	L
10898	CPSF4	81608	FIP1L1	R
10900	RPIP8	29844	TFPT	R
10907	TXNL4A	121268	RHEBL1	R
10912	GADD45G	90480	GADD45GIP1	L
10913	EDAR	128178	EDARADD	L
10915	TCERG1	10946	SF3A3	L
10915	TCERG1	10992	SF3B2	L
10915	TCERG1	11338	U2AF2	L
10915	TCERG1	23451	SF3B1	L
10919	EHMT2	11278	KLF12	R
10919	EHMT2	26148	C10orf12	R
10919	EHMT2	57473	GM632	L
10919	EHMT2	80125	FLJ32855	R
10919	EHMT2	80764	THAP7	R
10919	EHMT2	84708	LNx	R
10919	EHMT2	84726	KIAA0515	R
10922	FASTK	11030	RBPMS	R
10923	SUB1	11033	CENTA1	L
10923	SUB1	11036	ALF	L
10926	ASK	11200	CHEK2	L
10926	ASK	51691	LSM8	L
10928	RALBP1	29911	HOOK2	R
10933	MORF4L1	114932	MRFAP1L1	R
10940	POP1	54913	RPP25	L
10945	KDELR1	55738	ARFGAP1	L
10946	SF3A3	11007	DIPA	R
10946	SF3A3	11033	CENTA1	L
10951	CBX1	11335	CBX3	L
10951	CBX1	23468	CBX5	L

10951	CBX1	55791	C1orf103	S
10951	CBX1	56946	C11orf30	L
10952	SEC61B	11231	SEC63	L
10952	SEC61B	84100	ARL6	L
10953	TOMM34	55929	DMAP1	L
10956	OS9	57473	GM632	L
10963	STIP1	11140	CDC37	L
10963	STIP1	51182	HSPA14	L
10970	CKAP4	84164	ASCC2	S
10971	YWHAQ	60491	NIF3L1	L
10979	PLEKHC1	54751	FBLIM1	L
10980	COPS6	11243	PMF1	S
10980	COPS6	26100	WIPI-2	S
10980	COPS6	26292	MYCBP	S
10980	COPS6	29903	HSU79303	S
10980	COPS6	55643	BTBD2	S
10980	COPS6	55700	RPRC1	S
10980	COPS6	57761	TRIB3	S
10980	COPS6	78987	CRELD1	S
10980	COPS6	79641	FLJ22386	S
10980	COPS6	79756	(null)	S
10980	COPS6	80228	C7orf19	S
10980	COPS6	81890	QTRT1	S
10980	COPS6	83931	STK40	S
10980	COPS6	84103	C4orf17	S
10980	COPS6	129563	MGC42174	S
10980	COPS6	339448	LOC339448	S
10980	COPS6	375078	(null)	S
10982	MAPRE2	22924	MAPRE3	R
10982	MAPRE2	60491	NIF3L1	R
10987	COPS5	11236	RNF139	L
10989	IMMT	11079	RER1	S
10989	IMMT	22948	CCT5	S
10989	IMMT	23028	AOF2	S
10989	IMMT	23557	SNAPAP	S
10989	IMMT	23659	LYPLA3	S
10989	IMMT	25934	NIPSNAP3A	S
10989	IMMT	29070	HSPC065	S
10989	IMMT	51295	SITPEC	S
10989	IMMT	51566	ARMCX3	S
10989	IMMT	51593	ARS2	S
10989	IMMT	54949	FLJ20487	S
10989	IMMT	55355	DKFZp762E1312	S
10989	IMMT	64400	FTS	S
10989	IMMT	65080	MRPL44	S
10989	IMMT	65990	C16orf24	S
10989	IMMT	80007	C10orf88	S
10989	IMMT	81551	STMN4	S
10989	IMMT	84164	ASCC2	S
10992	SF3B2	23451	SF3B1	L
11007	DIPA	11067	C10orf10	R
11007	DIPA	11170	TU3A	R
11007	DIPA	23265	EXOC7	R
11007	DIPA	23270	TSPYL4	R
11007	DIPA	23641	LDOC1	R
11007	DIPA	25843	PREI3	R
11007	DIPA	26150	RIBC2	R
11007	DIPA	26152	ZNF337	R
11007	DIPA	26240	FAM50B	R
11007	DIPA	27018	NGFRAP1	R
11007	DIPA	27229	76P	R
11007	DIPA	27301	APEX2	R
11007	DIPA	27332	ZNF638	R
11007	DIPA	51138	COPS4	R
11007	DIPA	51207	DUSP13	R
11007	DIPA	51562	MBIP	R
11007	DIPA	51760	SYT17	R

11007	DIPA	53371	NUP54	R
11007	DIPA	54149	C21orf91	R
11007	DIPA	54474	KRT20	R
11007	DIPA	54883	FLJ20291	R
11007	DIPA	54906	C10orf18	R
11007	DIPA	54927	CHCHD3	R
11007	DIPA	55109	AGGF1	R
11007	DIPA	55122	C6orf166	R
11007	DIPA	55209	FLJ10707	R
11007	DIPA	55233	MOBK1B	R
11007	DIPA	55285	FLJ11016	R
11007	DIPA	55367	LRDD	R
11007	DIPA	55388	MCM10	R
11007	DIPA	55565	LOC55565	R
11007	DIPA	55813	C17orf40	R
11007	DIPA	55816	DOK5	R
11007	DIPA	55885	LMO3	R
11007	DIPA	57326	PBXIP1	R
11007	DIPA	58500	ZNF250	R
11007	DIPA	60491	NIF3L1	R
11007	DIPA	60493	FLJ13149	R
11007	DIPA	64112	MOAP1	R
11007	DIPA	64170	CARD9	R
11007	DIPA	64376	ZNFN1A5	R
11007	DIPA	64769	C1orf149	R
11007	DIPA	79005	SCNM1	R
11007	DIPA	79025	MGC5356	R
11007	DIPA	79088	ZNF426	R
11007	DIPA	79571	GCC1	R
11007	DIPA	79666	PLEKHF2	R
11007	DIPA	79696	C14orf140	R
11007	DIPA	79843	FLJ22746	R
11007	DIPA	80125	FLJ32855	R
11007	DIPA	80256	KIAA1539	R
11007	DIPA	80321	Cep70	R
11007	DIPA	80764	THAP7	R
11007	DIPA	84080	C16orf48	R
11007	DIPA	84260	MGC10854	R
11007	DIPA	84310	MGC11257	R
11007	DIPA	84445	LZTS2	R
11007	DIPA	84707	BEX2	R
11007	DIPA	84708	LNX	R
11007	DIPA	85302	FBF1	R
11007	DIPA	90060	JM11	R
11007	DIPA	92595	MGC13138	R
11007	DIPA	94121	SYTL4	R
11007	DIPA	138046	LOC138046	R
11007	DIPA	147687	ZNF417	R
11007	DIPA	148223	C19orf25	R
11007	DIPA	149371	EXOC8	R
11007	DIPA	151254	ALS2CR11	R
11007	DIPA	151613	TTC14	R
11007	DIPA	153733	MGC39633	R
11007	DIPA	157773	C8orf48	R
11007	DIPA	159989	FLJ25393	R
11007	DIPA	164127	C1orf65	R
11007	DIPA	164592	FLJ36046	R
11007	DIPA	170082	MGC17403	R
11007	DIPA	196441	MGC23401	R
11007	DIPA	220136	CCDC11	R
11007	DIPA	220965	FAM13C1	R
11007	DIPA	284058	LOC284058	R
11007	DIPA	284680	C1orf111	R
11007	DIPA	286301	MGC42630	R
11009	IL24	53832	IL20RA	L
11016	ATF7	55509	SNFT	L
11016	ATF7	60468	BACH2	L

11020	RABL4	51668	C1orf41	R
11021	RAB35	80304	FLJ21945	S
11030	RBPMS	11135	CDC42EP1	R
11030	RBPMS	23199	KIAA0182	R
11030	RBPMS	23543	RBM9	R
11030	RBPMS	23583	SMUG1	R
11030	RBPMS	26505	CNNM3	R
11030	RBPMS	26508	HEYL	R
11030	RBPMS	51545	ZNF581	R
11030	RBPMS	54472	TOLLIP	R
11030	RBPMS	55342	STRBP	R
11030	RBPMS	55684	C9orf86	R
11030	RBPMS	64333	ARHGAP9	R
11030	RBPMS	83640	MGC2560	R
11030	RBPMS	84080	C16orf48	R
11030	RBPMS	84445	LZTS2	R
11030	RBPMS	84528	PEPP-2	R
11030	RBPMS	84872	ZC3H10	R
11030	RBPMS	84904	C9orf100	R
11030	RBPMS	84970	C1orf94	R
11030	RBPMS	113878	DTX2	R
11030	RBPMS	129807	NEU4	R
11030	RBPMS	196477	C12orf12	R
11030	RBPMS	200523	FLJ25369	R
11035	RIPK3	148022	TICAM1	L
11040	PIM2	51076	CUTC	R
11040	PIM2	84893	FBXO18	S
11043	MID2	143241	DYDC1	R
11051	NUDT21	11052	CPSF6	R
11051	NUDT21	57562	KIAA1377	S
11051	NUDT21	60491	NIF3L1	R
11051	NUDT21	79869	FLJ12529	R
11051	NUDT21	84060	DKFZP564O0523	S
11051	NUDT21	118460	EXOSC6	L
11052	CPSF6	11059	WWP1	R
11052	CPSF6	11060	WWP2	R
11052	CPSF6	51585	PCF11	L
11052	CPSF6	54826	FLJ20125	R
11052	CPSF6	59349	KLHL12	R
11052	CPSF6	79637	ARMC7	R
11059	WWP1	23559	WBP1	L
11059	WWP1	26994	RNF11	L
11059	WWP1	27332	ZNF638	R
11059	WWP1	85362	(null)	R
11060	WWP2	23559	WBP1	L
11060	WWP2	26994	RNF11	L
11060	WWP2	85362	(null)	R
11063	SOX30	11165	NUDT3	R
11063	SOX30	25805	BAMBI	R
11065	UBE2C	29882	ANAPC2	L
11067	C10orf10	83878	USHBP1	R
11069	RAPGEF4	22800	RRAS2	L
11075	STMN2	56159	TEX11	R
11091	WDR5	51562	MBIP	R
11092	C9orf9	22929	SEPHS1	S
11092	C9orf9	57062	DDX24	S
11098	PRSS23	11261	CHP	S
11098	PRSS23	23310	hCAP-D3	S
11098	PRSS23	23542	MAPK8IP2	S
11098	PRSS23	25836	NIPBL	S
11098	PRSS23	29127	RACGAP1	S
11098	PRSS23	51399	TRAPPC4	S
11098	PRSS23	57489	ODF2L	S
11098	PRSS23	79050	NOC4L	S
11098	PRSS23	79142	PHF23	S
11098	PRSS23	84065	C1orf160	S
11098	PRSS23	158345	LOC158345	S

11098	PRSS23	347862	FLJ34283	S
11100	HNRPUL1	11161	C14orf1	S
11100	HNRPUL1	51003	MED31	S
11100	HNRPUL1	55660	FNBP3	SL
11102	RPP14	51367	POP5	L
11102	RPP14	84966	IGSF21	S
11113	CIT	27185	DISC1	L
11117	EMILIN1	66036	MTMR9	R
11117	EMILIN1	84034	EMILIN2	L
11124	FAF1	79753	SNIP1	L
11124	FAF1	84164	ASCC2	S
11127	KIF3A	23645	PPP1R15A	L
11129	SFRS16	84528	PEPP-2	R
11135	CDC42EP1	23433	RHOQ	L
11135	CDC42EP1	79109	MAPKAP1	R
11135	CDC42EP1	83755	KRTAP4-12	R
11141	IL1RAPL1	23413	FREQ	L
11143	MYST2	22981	KIAA0980	R
11143	MYST2	23557	SNAPAP	S
11143	MYST2	29911	HOOK2	R
11143	MYST2	29993	PACSN1	S
11143	MYST2	55339	WDR33	S
11143	MYST2	57332	CBX8	S
11143	MYST2	79768	C15orf29	S
11143	MYST2	79886	C9orf82	S
11143	MYST2	80321	Cep70	R
11143	MYST2	127557	ZBTB8	R
11143	MYST2	253980	KCTD13	R
11143	MYST2	374923	(null)	S
11144	DMC1	25788	RAD54B	L
11145	HRASLS3	29979	UBQLN1	R
11146	GLMN	55968	NSFL1C	S
11157	LSM6	23658	LSM5	L
11157	LSM6	25804	LSM4	L
11157	LSM6	27257	LSM1	L
11157	LSM6	27258	LSM3	L
11157	LSM6	51690	LSM7	L
11157	LSM6	51691	LSM8	L
11157	LSM6	57819	LSM2	L
11158	RABL2B	84984	MGC14126	R
11161	C14orf1	11189	TNRC4	S
11161	C14orf1	22929	SEPHS1	S
11161	C14orf1	26151	NAT9	S
11161	C14orf1	27252	KLHL20	S
11161	C14orf1	29903	HSU79303	S
11161	C14orf1	55643	BTBD2	S
11161	C14orf1	55734	ZFP64	S
11161	C14orf1	55755	CDK5RAP2	S
11161	C14orf1	56144	PCDHA4	S
11161	C14orf1	56901	LOC56901	S
11161	C14orf1	57819	LSM2	S
11161	C14orf1	64978	MRPL38	S
11161	C14orf1	219844	HYLS1	S
11165	NUDT3	64284	RAB17	S
11165	NUDT3	79754	ASB13	S
11170	TU3A	22911	WDR47	S
11170	TU3A	22981	KIAA0980	R
11170	TU3A	23641	LDOC1	R
11170	TU3A	29911	HOOK2	R
11170	TU3A	30008	EFEMP2	R
11170	TU3A	57596	KIAA1446	R
11170	TU3A	83755	KRTAP4-12	R
11170	TU3A	83878	USHBP1	R
11171	STRAP	51250	C6orf203	S
11180	WDR6	23580	CDC42EP4	R
11180	WDR6	55632	KIAA1333	R
11184	MAP4K1	28988	DBNL	L

11184	MAP4K1	29760	BLNK	L
11186	RASSF1	11340	EXOSC8	L
11186	RASSF1	83593	RASSF5	L
11186	RASSF1	170685	NUDT10	S
11189	TNRC4	55084	FLJ10159	S
11190	CEP2	55729	ATF7IP	L
11194	ABCB8	84273	C4orf14	S
11200	CHEK2	80198	MUS81	L
11200	CHEK2	83942	TSSK1	L
11201	POLI	26994	RNF11	L
11201	POLI	51455	REV1L	L
11218	DDX20	27161	EIF2C2	L
11228	RASSF8	122786	FRMD6	R
11243	PMF1	28964	GIT1	S
11243	PMF1	51003	MED31	S
11243	PMF1	57562	KIAA1377	S
11244	ZHX1	23051	ZHX3	L
11244	ZHX1	23435	TARDBP	S
11244	ZHX1	54472	TOLLIP	S
11244	ZHX1	55339	WDR33	S
11244	ZHX1	55646	LYAR	S
11244	ZHX1	57050	SAS10	S
11252	PACSIN2	29763	PACSIN3	L
11252	PACSIN2	29993	PACSIN1	R
11266	DUSP12	57562	KIAA1377	S
11266	DUSP12	114785	MBD6	S
11267	SNF8	60491	NIF3L1	R
11267	SNF8	84313	VPS25	R
11269	DDX19B	23039	XPO7	S
11275	KLHL2	59349	KLHL12	R
11276	AP1GBP1	23062	GGA2	L
11276	AP1GBP1	23163	GGA3	L
11277	TREX1	26150	RIBC2	R
11277	TREX1	90410	IFT20	R
11282	MGAT4B	90678	LRSAM1	S
11284	PNKP	58529	MYOZ1	R
11284	PNKP	83755	KRTAP4-12	R
11313	LYPLA2	22955	SCMH1	S
11313	LYPLA2	51003	MED31	S
11316	COPE	22820	COPG	L
11316	COPE	26958	COPG2	L
11331	PHB2	26019	UPF2	L
11335	CBX3	23468	CBX5	L
11336	SEC6L1	55770	SEC5L1	L
11336	SEC6L1	149371	EXOC8	L
11337	GABARAP	23192	ATG4B	S
11337	GABARAP	51160	VPS28	S
11337	GABARAP	51660	BRP44L	S
11338	U2AF2	22827	SIAHBP1	R
11338	U2AF2	22889	KIAA0907	R
11338	U2AF2	23451	SF3B1	L
11338	U2AF2	26511	CHIC2	R
11338	U2AF2	55145	THAP1	R
11338	U2AF2	55660	FNBP3	L
11338	U2AF2	151871	DPPA2	R
11338	U2AF2	222389	C10orf30	R
11338	U2AF2	541468	C1orf190	R
11340	EXOSC8	22803	XRN2	L
11340	EXOSC8	23608	MKRN1	L
11340	EXOSC8	26019	UPF2	L
11340	EXOSC8	27257	LSM1	L
11340	EXOSC8	29109	FHOD1	L
11340	EXOSC8	51013	EXOSC1	L
11340	EXOSC8	51690	LSM7	L
11340	EXOSC8	54464	XRN1	L
11340	EXOSC8	56915	EXOSC5	L
11340	EXOSC8	118460	EXOSC6	L

11345	GABARAPL2	23192	ATG4B	S
11345	GABARAPL2	23786	BCL2L13	R
11345	GABARAPL2	79876	UBE1DC1	R
11345	GABARAPL2	90678	LRSAM1	S
13682	(null)	57062	DDX24	S
19241	(null)	55791	C1orf103	S
19241	(null)	84966	IGSF21	S
20924	(null)	29115	HCNGP	S
20924	(null)	51003	MED31	S
20924	(null)	51759	C9orf78	S
20924	(null)	52432	(null)	S
20924	(null)	55827	IQWD1	S
20924	(null)	56902	LOC56902	S
20924	(null)	57562	KIAA1377	S
22796	COG2	25839	COG4	L
22796	COG2	83548	COG3	L
22800	RRAS2	83593	RASSF5	L
22803	XRN2	23256	SCFD1	L
22803	XRN2	23435	TARDBP	L
22803	XRN2	25976	TIPARP	L
22803	XRN2	26019	UPF2	L
22803	XRN2	27258	LSM3	L
22803	XRN2	27304	MOCS3	L
22803	XRN2	51386	EIF3S6IP	L
22803	XRN2	54472	TOLLIP	L
22806	ZNFN1A3	25942	SIN3A	L
22806	ZNFN1A3	64375	ZNFN1A4	L
22806	ZNFN1A3	64376	ZNFN1A5	L
22807	ZNFN1A2	64375	ZNFN1A4	L
22807	ZNFN1A2	64376	ZNFN1A5	L
22808	MRAS	51735	RAPGEF6	L
22808	MRAS	83593	RASSF5	L
22809	ATF5	27185	DISC1	L
22809	ATF5	55509	SNFT	L
22820	COPG	23433	RHOQ	L
22820	COPG	26958	COPG2	L
22822	PHLDA1	83755	KRTAP4-12	R
22823	MTF2	25865	PRKD2	L
22827	SIAHBP1	29115	HCNGP	R
22827	SIAHBP1	84988	PPP1R16A	S
22827	SIAHBP1	118426	LOH12CR1	R
22839	DLGAP4	84152	PPP1R1B	S
22841	RAB11FIP2	57111	RAB25	L
22841	RAB11FIP2	84440	RAB11FIP4	L
22841	RAB11FIP2	85021	REPS1	L
22859	LPHN1	50944	SHANK1	L
22861	NALP1	58484	CARD12	L
22882	ZHX2	23051	ZHX3	L
22893	BAHD1	57596	KIAA1446	R
22893	BAHD1	83755	KRTAP4-12	R
22894	KIAA1008	28989	AD-003	L
22899	ARHGEF15	25843	PREI3	R
22899	ARHGEF15	79096	MGC4707	R
22905	EPN2	26994	RNF11	L
22911	WDR47	55743	CHFR	S
22913	RALY	284403	WDR62	S
22914	KLRK1	79465	ULBP3	L
22926	ATF6	58487	ZF	L
22927	HABP4	118924	C10orf4	S
22929	SEPHS1	54978	C2orf18	S
22929	SEPHS1	84966	IGSF21	S
22934	RPIA	51534	C6orf55	R
22934	RPIA	55093	C8orf32	R
22934	RPIA	60491	NIF3L1	R
22934	RPIA	84708	LNX	R
22938	SNW1	55805	LRP2BP	L
22938	SNW1	84164	ASCC2	S

22941	SHANK2	23266	LPHN2	L
22943	DKK1	83999	KREMEN1	L
22948	CCT5	54464	XRN1	L
22948	CCT5	79735	TBC1D17	S
22954	TRIM32	29979	UBQLN1	R
22955	SCMH1	25843	PREI3	S
22955	SCMH1	81488	GRINL1A	S
22974	TPX2	284169	(null)	S
22976	PAXIP1	127557	ZBTB8	R
22978	NT5C2	29922	NME7	R
22978	NT5C2	79050	NOC4L	R
22978	NT5C2	79817	MOBKL2B	R
22978	NT5C2	79873	NUDT18	R
22981	KIAA0980	23270	TSPYL4	R
22981	KIAA0980	26150	RIBC2	R
22981	KIAA0980	27238	GPKOW	R
22981	KIAA0980	27301	APEX2	R
22981	KIAA0980	51266	CLEC1B	R
22981	KIAA0980	51562	MBIP	R
22981	KIAA0980	51760	SYT17	R
22981	KIAA0980	55388	MCM10	R
22981	KIAA0980	55758	RCOR3	R
22981	KIAA0980	58500	ZNF250	R
22981	KIAA0980	79088	ZNF426	R
22981	KIAA0980	79571	GCC1	R
22981	KIAA0980	80125	FLJ32855	R
22981	KIAA0980	80851	SH3BP5L	R
22981	KIAA0980	81576	MGC10471	R
22981	KIAA0980	84445	LZTS2	R
22981	KIAA0980	84516	DCTN5	R
22981	KIAA0980	90678	LRSAM1	S
22981	KIAA0980	170082	MGC17403	R
22981	KIAA0980	196441	MGC23401	R
22981	KIAA0980	220082	NURIT	R
22981	KIAA0980	284058	LOC284058	R
22985	ACIN1	55295	FLJ11078	S
22985	ACIN1	55324	ABCF3	S
22985	ACIN1	84280	BTBD10	S
22992	FBXL11	57473	GM632	L
22995	Cep152	23136	EPB41L3	L
22999	RIMS1	25837	RAB26	L
22999	RIMS1	26059	CAST1	L
23002	DAAM1	55660	FNBP3	L
23013	SPEN	53615	MBD3	L
23014	FBXO21	85445	CNTNAP4	L
23016	EXOSC7	23404	EXOSC2	L
23016	EXOSC7	51013	EXOSC1	L
23016	EXOSC7	54512	EXOSC4	L
23016	EXOSC7	118460	EXOSC6	L
23020	ASCC3L1	84466	MEGF10	L
23025	UNC13A	23136	EPB41L3	L
23028	AOF2	51317	PHF21A	L
23028	AOF2	60492	MDS025	S
23028	AOF2	84164	ASCC2	S
23030	JMJD2B	84246	TRG20	S
23031	MAST3	85445	CNTNAP4	L
23032	USP33	54606	DDX56	S
23054	NCOA6	63925	ZNF335	L
23059	CLUAP1	51550	CINP	R
23062	GGA2	23621	BACE1	L
23062	GGA2	51324	SPG21	R
23062	GGA2	54812	AFTIPHILIN	L
23063	KIAA0261	54464	XRN1	L
23085	RAB6IP2	51560	RAB6B	L
23089	PEG10	57473	GM632	L
23095	KIF1B	90627	STARD13	L
23099	ZNF297B	51224	TCEB3B	R

23099	ZNF297B	55388	MCM10	R
23099	ZNF297B	55885	LMO3	R
23099	ZNF297B	84708	LNK	R
23099	ZNF297B	147687	ZNF417	R
23111	SPG20	64750	SMURF2	L
23136	EPB41L3	23705	IGSF4	L
23136	EPB41L3	26047	CNTNAP2	L
23136	EPB41L3	51562	MBIP	R
23136	EPB41L3	84966	IGSF21	S
23139	MAST2	27148	STK36	L
23141	KIAA0692	57473	GM632	L
23145	KIAA0543	23331	KIAA1043	L
23145	KIAA0543	57485	ATXN7L1	L
23154	NCDN	54910	SEMA4C	L
23162	MAPK8IP3	60626	RIC8A	S
23163	GGA3	26994	RNF11	L
23163	GGA3	54812	AFTIPHILIN	L
23172	KIAA0157	64750	SMURF2	L
23192	ATG4B	79686	C14orf139	S
23192	ATG4B	81631	MAP1LC3B	S
23199	KIAA0182	55758	RCOR3	R
23199	KIAA0182	79873	NUDT18	R
23199	KIAA0182	84060	DKFZP564O0523	S
23199	KIAA0182	118460	EXOSC6	L
23204	ARL6IP	51763	SKIP	R
23204	ARL6IP	55294	FBXW7	S
23204	ARL6IP	84100	ARL6	L
23207	PLEKHM2	27173	SLC39A1	S
23209	MLC1	23604	DAPK2	L
23214	XPO6	23636	NUP62	R
23225	NUP210	56915	EXOSC5	L
23228	PLCL2	57453	DSCAML1	L
23236	PLCB1	54822	TRPM7	L
23243	ANKRD28	57473	GM632	L
23256	SCFD1	23326	USP22	S
23265	EXOC7	27339	PRPF19	R
23265	EXOC7	64400	FTS	S
23265	EXOC7	79036	MGC2749	R
23265	EXOC7	79882	FLJ11806	R
23265	EXOC7	83878	USHBP1	R
23265	EXOC7	84816	RTN4IP1	R
23265	EXOC7	90410	IFT20	R
23268	DNMBP	26999	CYFIP2	L
23268	DNMBP	51466	EVL	L
23281	KIAA0774	26150	RIBC2	R
23281	KIAA0774	55734	ZFP64	R
23281	KIAA0774	79027	ZNF655	R
23281	KIAA0774	127703	FLJ38984	R
23283	CSTF2T	29979	UBQLN1	R
23286	KIBRA	55791	C1orf103	S
23286	KIBRA	79577	CDC73	S
23286	KIBRA	203259	C9orf25	S
23299	BICD2	91754	NEK9	L
23301	EHBP1	30846	EHD2	L
23308	ICOSLG	29851	ICOS	L
23309	SIN3B	64375	ZNFN1A4	L
23321	TRIM2	140885	PTPNS1	R
23326	USP22	124995	MRPL10	S
23327	NEDD4L	26994	RNF11	L
23345	SYNE1	27185	DISC1	L
23352	RBAF600	55660	FNBP3	L
23360	FNBP4	55660	FNBP3	L
23385	NCSTN	23621	BACE1	L
23385	NCSTN	51107	APH1A	L
23385	NCSTN	55851	PSENNEN	L
23385	NCSTN	83464	APH1B	L
23396	PIP5K1C	83660	TLN2	L

23396	PIP5K1C	307255	(null)	S
23404	EXOSC2	54512	EXOSC4	L
23404	EXOSC2	79797	ZNF408	L
23405	DICER1	26523	EIF2C1	L
23405	DICER1	27161	EIF2C2	L
23405	DICER1	55124	PIWIL2	L
23411	SIRT1	23493	HEY2	L
23412	COMMD3	26152	ZNF337	S
23413	FREQ	113878	DTX2	R
23420	NOMO1	56926	NCLN	L
23421	ITGB3BP	23647	ARFIP2	R
23421	ITGB3BP	57062	DDX24	S
23426	GRIP1	25865	PRKD2	L
23433	RHOQ	23580	CDC42EP4	L
23433	RHOQ	50855	PARD6A	L
23433	RHOQ	57120	GOPC	L
23433	RHOQ	81704	DOCK8	L
23435	TARDBP	55968	NSFL1C	S
23450	SF3B3	79159	MGC3731	S
23451	SF3B1	51639	SF3B14	L
23462	HEY1	25865	PRKD2	L
23468	CBX5	51224	TCEB3B	R
23468	CBX5	78994	MGC3121	R
23474	ETHE1	51606	ATP6V1H	S
23474	ETHE1	55791	C1orf103	S
23474	ETHE1	84966	IGSF21	S
23475	QPRT	51684	SUFU	R
23475	QPRT	83755	KRTAP4-12	R
23476	BRD4	55660	FNBP3	L
23476	BRD4	55743	CHFR	S
23476	BRD4	79020	C7orf25	S
23478	SEC11L1	54978	C2orf18	S
23493	HEY2	25942	SIN3A	L
23495	TNFRSF13B	407977	TNFSF12-TNFSF13	L
23499	MACF1	55729	ATF7IP	L
23499	MACF1	79613	FLJ12688	L
23506	KIAA0240	57685	CACHD1	L
23517	SKIV2L2	26019	UPF2	L
23517	SKIV2L2	54464	XRN1	L
23517	SKIV2L2	118460	EXOSC6	L
23521	RPL13A	51280	GOLPH2	S
23521	RPL13A	84893	FBXO18	S
23523	CABIN1	25942	SIN3A	L
23534	TNPO3	64750	SMURF2	L
23542	MAPK8IP2	80824	DUSP16	L
23543	RBM9	63948	DMRTB1	R
23543	RBM9	84528	PEPP-2	R
23549	DNPEP	54507	TSRC1	R
23558	WBP2	55964	SEPT3	S
23569	PADI4	121504	HIST4H4	L
23578	(null)	59349	KLHL12	R
23578	(null)	79173	MGC11271	R
23578	(null)	85365	ALG2	L
23582	CCNDBP1	55713	ZNF334	R
23582	CCNDBP1	64965	MRPS9	S
23585	TMEM50A	55262	FLJ10925	S
23588	KLHDC2	29888	STRN4	S
23594	ORC6L	23595	ORC3L	L
23595	ORC3L	55388	MCM10	L
23598	ZNF278	83990	BRIP1	L
23613	PRKCBP1	29109	FHOD1	L
23617	TSSK2	60385	TSKS	L
23635	SSBP2	26525	IL1F5	R
23636	NUP62	26003	GORASP2	R
23636	NUP62	51019	CGI-116	R
23636	NUP62	53371	NUP54	R
23636	NUP62	55145	THAP1	R

23640	HSPBP1	55791	C1orf103	S
23641	LDOC1	26574	AATF	R
23641	LDOC1	27343	POLL	R
23641	LDOC1	54540	FLJ10404	R
23641	LDOC1	54552	GNL3L	R
23641	LDOC1	54906	C10orf18	R
23641	LDOC1	55211	DPPA4	R
23641	LDOC1	56242	ZNF253	L
23641	LDOC1	58500	ZNF250	R
23641	LDOC1	64376	ZNFN1A5	R
23641	LDOC1	79797	ZNF408	R
23641	LDOC1	84708	LNX	R
23641	LDOC1	121536	AEBP2	R
23644	RCD-8	167227	DCP2	L
23645	PPP1R15A	57473	GM632	L
23647	ARFIP2	84062	DTNBP1	R
23649	POLA2	51236	C8orf30A	S
23649	POLA2	55147	RBM23	S
23649	POLA2	57062	DDX24	S
23649	POLA2	64400	FTS	S
23649	POLA2	78987	CRELD1	S
23649	POLA2	83931	STK40	S
23649	POLA2	84164	ASCC2	S
23649	POLA2	84950	PRPF38A	S
23649	POLA2	92797	HELB	L
23649	POLA2	167227	DCP2	L
23649	POLA2	203259	C9orf25	S
23650	TRIM29	79571	GCC1	R
23650	TRIM29	80022	MYO15B	R
23650	TRIM29	80321	Cep70	R
23650	TRIM29	80705	TSGA10	R
23650	TRIM29	84445	LZTS2	R
23650	TRIM29	84766	MGC4266	R
23650	TRIM29	85302	FBF1	R
23658	LSM5	25804	LSM4	L
23658	LSM5	27257	LSM1	L
23658	LSM5	27258	LSM3	L
23658	LSM5	51690	LSM7	L
23658	LSM5	51691	LSM8	L
23658	LSM5	56915	EXOSC5	L
23658	LSM5	57819	LSM2	L
23673	STX12	27065	D4S234E	L
23705	IGSF4	55729	ATF7IP	L
23708	GSPT2	26986	PABPC1	L
23746	AIPL1	51667	NYREN18	L
23761	PISD	54505	DHX29	S
23761	PISD	221955	LOC221955	S
23774	BRD1	57473	GM632	L
23774	BRD1	57562	KIAA1377	S
24138	IFIT5	51669	TMEM66	S
24142	NAT6	375078	(null)	S
25782	RAB3GAP2	118460	EXOSC6	L
25788	RAD54B	26003	GORASP2	R
25788	RAD54B	26150	RIBC2	R
25788	RAD54B	51157	ZNF580	R
25788	RAD54B	79090	TRAPPC6A	R
25788	RAD54B	80022	MYO15B	R
25788	RAD54B	80125	FLJ32855	R
25788	RAD54B	84708	LNX	R
25788	RAD54B	170082	MGC17403	R
25804	LSM4	27257	LSM1	L
25804	LSM4	27258	LSM3	L
25804	LSM4	51690	LSM7	L
25804	LSM4	51691	LSM8	L
25804	LSM4	54464	XRN1	L
25804	LSM4	54477	PLEKHA5	L
25804	LSM4	57819	LSM2	L

25804	LSM4	84528	PEPP-2	L
25804	LSM4	201895	LOC201895	L
25816	TNFAIP8	29079	MED4	R
25824	PRDX5	60492	MDS025	S
25839	COG4	91949	COG7	L
25842	ASF1A	51160	VPS28	S
25843	PREI3	51003	MED31	S
25843	PREI3	51078	THAP4	S
25843	PREI3	55791	C1orf103	S
25843	PREI3	57498	KIDINS220	S
25843	PREI3	84246	TRG20	S
25843	PREI3	112398	EGLN2	S
25844	YIPF3	84272	YIPF4	R
25855	BRMS1	55791	C1orf103	S
25865	PRKD2	64689	GORASP1	L
25870	SUMF2	55294	FBXW7	S
25876	C20orf28	79666	PLEKHF2	R
25888	ZNF473	90933	TRIM41	R
25888	ZNF473	134353	LSM11	L
25890	ABI3BP	51225	ABI3	L
25897	RNF19	27175	TUBG2	L
25897	RNF19	51684	SUFU	L
25900	HOM-TES-103	138065	RNF183	R
25913	POT1	65057	ACD	RL
25915	DKFZP564J0123	27257	LSM1	L
25917	THUMPD3	51691	LSM8	L
25930	PTPN23	57062	DDX24	S
25934	NIPSNAP3A	51280	GOLPH2	S
25942	SIN3A	51564	HDAC7A	L
25942	SIN3A	51742	ARID4B	L
25942	SIN3A	64375	ZNFN1A4	L
25945	PVRL3	56288	PARD3	L
25979	DKFZp566O084	219541	MED19	S
25980	C20orf4	55837	C14orf11	R
26003	GORASP2	81628	TSC22D4	R
26017	FAM32A	55968	NSFL1C	S
26019	UPF2	27257	LSM1	L
26019	UPF2	28987	NOB1P	L
26019	UPF2	51013	EXOSC1	L
26019	UPF2	54464	XRN1	L
26019	UPF2	55802	DCP1A	L
26019	UPF2	65109	UPF3B	L
26019	UPF2	65110	UPF3A	L
26019	UPF2	79797	ZNF408	L
26019	UPF2	81631	MAP1LC3B	L
26019	UPF2	118460	EXOSC6	L
26019	UPF2	167227	DCP2	L
26019	UPF2	196513	DCP1B	L
26036	ZNF451	55660	FNBP3	L
26036	ZNF451	79753	SNIP1	L
26039	SS18L1	222546	RFXDC1	R
26059	CAST1	28964	GIT1	L
26060	APPL	55198	DIP13B	R
26061	HPCL2	116225	ZMYND19	R
26071	DKFZP564B147	29979	UBQLN1	R
26073	POLDIP2	84164	ASCC2	S
26086	GPSM1	83878	USHBP1	R
26086	GPSM1	339965	FLJ25770	R
26088	GGA1	26994	RNF11	L
26100	WIPI-2	29888	STRN4	S
26128	KIAA1279	27332	ZNF638	R
26128	KIAA1279	55264	C21orf77	R
26128	KIAA1279	79156	PLEKHF1	R
26128	KIAA1279	79959	C18orf9	R
26128	KIAA1279	93474	ZNF670	R
26136	TES	55740	ENAH	L
26146	TRAF3IP1	27185	DISC1	L

26150	RIBC2	29911	HOOK2	R
26150	RIBC2	29959	NRBP	R
26150	RIBC2	30008	EFEMP2	R
26150	RIBC2	51669	TMEM66	S
26150	RIBC2	56159	TEX11	R
26150	RIBC2	57596	KIAA1446	R
26150	RIBC2	64219	PJA1	S
26150	RIBC2	83878	USHBP1	R
26150	RIBC2	84705	GTPBP3	R
26151	NAT9	51631	LUC7L2	S
26151	NAT9	57562	KIAA1377	S
26152	ZNF337	374923	(null)	S
26155	NOC2L	55791	C1orf103	R
26160	SLB	89884	LHX4	L
26168	SENP3	55729	ATF7IP	L
26207	PITPNC1	57085	AGTRAP	R
26254	OPTC	55644	OSGEP	L
26258	PLDN	51019	CGI-116	R
26258	PLDN	55093	C8orf32	R
26258	PLDN	55109	AGGF1	R
26258	PLDN	79666	PLEKHF2	R
26258	PLDN	149371	EXOC8	R
26258	PLDN	220134	C18orf24	R
26258	PLDN	541468	C1orf190	R
26271	FBXO5	51343	FZR1	L
26276	VPS33B	63894	C14orf133	R
26277	TINF2	65057	ACD	L
26289	AK5	29888	STRN4	S
26289	AK5	55905	ZNF313	S
26289	AK5	64710	NUCKS1	S
26289	AK5	79034	C7orf26	S
26289	AK5	80128	TRIM46	S
26292	MYCBP	55701	FLJ10357	S
26292	MYCBP	57540	PTCHD2	S
26292	MYCBP	84073	MYCBPAP	L
26292	MYCBP	89876	C3orf15	L
26292	MYCBP	131034	CPNE4	L
26292	MYCBP	221184	CPNE2	L
26297	DELGEF	55770	SEC5L1	L
26353	HSPB8	27129	HSPB7	R
26354	GNL3	84164	ASCC2	S
26505	CNNM3	83755	KRTAP4-12	R
26508	HEYL	55729	ATF7IP	L
26508	HEYL	57473	GM632	L
26511	CHIC2	79666	PLEKHF2	R
26511	CHIC2	83755	KRTAP4-12	R
26511	CHIC2	117144	CATSPER1	R
26519	TIMM10	26520	TIMM9	L
26525	IL1F5	57473	GM632	L
26525	IL1F5	170463	SSBP4	R
26575	RGS17	28962	OSTM1	L
26580	BSCL2	55266	TMEM19	R
26580	BSCL2	55850	MDS032	R
26580	BSCL2	85027	NID67	R
26610	ELP4	55140	ELP3	L
26749	GAGE8	64396	GMCL1L	R
26762	HAVCR1	64218	SEMA4A	L
26960	NBEA	29888	STRN4	S
26986	PABPC1	51247	PAIP2	L
26986	PABPC1	51433	ANAPC5	L
26994	RNF11	27342	RABGEF1	L
26994	RNF11	29924	EPN1	L
26994	RNF11	29978	UBQLN2	L
26994	RNF11	51619	UBE2D4	L
26994	RNF11	54165	DCUN1D1	L
26994	RNF11	54476	TRIAD3	L
26994	RNF11	55040	EPN3	L

26994	RNF11	56893	UBQLN4	L
26994	RNF11	57154	SMURF1	L
26994	RNF11	64750	SMURF2	L
26994	RNF11	83932	C1orf124	L
26994	RNF11	84164	ASCC2	L
26994	RNF11	133957	LOC133957	L
26994	RNF11	146691	TOM1L2	L
26994	RNF11	165918	RNF168	L
27033	ZBTB32	84528	PEPP-2	R
27043	PELP1	222019	(null)	S
27063	ANKRD1	84665	MYPN	L
27067	STAU2	57562	KIAA1377	S
27072	VPS41	57473	GM632	L
27089	QP-C	81488	GRINL1A	S
27095	TRAPPC3	51693	HSPC176	R
27095	TRAPPC3	79090	TRAPPC6A	R
27111	SDCBP2	51538	PS1D	R
27111	SDCBP2	54458	DKFZp564J157	R
27111	SDCBP2	79169	C1orf35	R
27111	SDCBP2	92610	TIFA	R
27111	SDCBP2	151871	DPPA2	R
27111	SDCBP2	222389	C10orf30	R
27122	DKK3	162952	(null)	S
27127	SMC1L2	50511	SYCP3	L
27130	INVS	55662	HIF1AN	R
27130	INVS	57473	GM632	L
27148	STK36	51684	SUFU	L
27148	STK36	55755	CDK5RAP2	L
27158	NDOR1	54205	CYCS	L
27165	GLS2	30851	TAX1BP3	L
27185	DISC1	57731	SPTBN4	L
27185	DISC1	81565	NDEL1	L
27190	IL17B	55540	IL17RB	L
27229	76P	57144	PAK7	R
27229	76P	58490	C20orf77	R
27229	76P	79734	KCTD17	R
27229	76P	79991	OBFC1	R
27229	76P	83878	USHBP1	R
27229	76P	85302	FBF1	R
27229	76P	113675	SDSL	R
27229	76P	220082	NURIT	R
27232	GNMT	60491	NIF3L1	R
27232	GNMT	79666	PLEKHF2	R
27232	GNMT	79873	NUDT18	R
27247	HIRIP5	84273	C4orf14	S
27252	KLHL20	51631	LUC7L2	S
27252	KLHL20	55791	C1orf103	S
27252	KLHL20	57562	KIAA1377	S
27257	LSM1	27258	LSM3	L
27257	LSM1	51690	LSM7	L
27257	LSM1	54867	FLJ20254	L
27257	LSM1	55823	VPS11	L
27257	LSM1	57819	LSM2	L
27257	LSM1	79602	ADIPOR2	L
27257	LSM1	84908	FLJ14668	L
27257	LSM1	118460	EXOSC6	L
27258	LSM3	51690	LSM7	L
27258	LSM3	51691	LSM8	L
27258	LSM3	57819	LSM2	RSL
27258	LSM3	84967	LSM10	RL
27258	LSM3	90799	LOC90799	L
27301	APEX2	29911	HOOK2	R
27301	APEX2	30008	EFEMP2	R
27304	MOCS3	118460	EXOSC6	L
27309	ZNF330	79797	ZNF408	L
27316	RBMX	80125	FLJ32855	R
27316	RBMX	83640	MGC2560	R

27316	RBMX	84708	LNK	R
27316	RBMX	202559	KHDRBS2	R
27332	ZNF638	29911	HOOK2	R
27332	ZNF638	30008	EFEMP2	R
27332	ZNF638	83755	KRTAP4-12	R
27335	EIF3S12	51386	EIF3S6IP	R
27336	HTATSF1	57473	GM632	L
27342	RABGEF1	79036	MGC2749	R
27429	HTRA2	56616	DIABLO	L
27429	HTRA2	57448	BIRC6	L
28620	TRBV2	55791	C1orf103	S
28620	TRBV2	84966	IGSF21	S
28952	CCDC22	131034	CPNE4	L
28955	DEXI	51280	GOLPH2	S
28964	GIT1	29070	HSPC065	S
28964	GIT1	51593	ARS2	S
28964	GIT1	55339	WDR33	S
28964	GIT1	57062	DDX24	S
28964	GIT1	57761	TRIB3	S
28964	GIT1	65265	C8orf33	S
28964	GIT1	374923	(null)	S
28965	SLC27A6	51076	CUTC	S
28965	SLC27A6	80021	TMEM62	S
28986	MAGEH1	55755	CDK5RAP2	S
28986	MAGEH1	64112	MOAP1	R
28986	MAGEH1	266812	NAP1L5	S
28988	DBNL	63898	SH2D4A	R
28996	HIPK2	94241	TP53INP1	L
29058	C20orf30	252839	TMEM9	S
29068	BTBD15	64750	SMURF2	L
29079	MED4	55729	ATF7IP	L
29082	CHMP4A	51760	SYT17	R
29085	PHPT1	29947	DNMT3L	R
29085	PHPT1	84988	PPP1R16A	S
29102	RNASEN	57473	GM632	L
29107	NXT1	56000	NXF3	R
29108	PYCARD	58484	CARD12	L
29108	PYCARD	114548	CIAS1	L
29117	BRD7	55643	BTBD2	S
29760	BLNK	30011	SH3KBP1	L
29763	PACSIN3	29993	PACSIN1	L
29789	PTD004	84164	ASCC2	S
29789	PTD004	162952	(null)	S
29888	STRN4	51260	CXorf26	S
29888	STRN4	51295	SITPEC	S
29888	STRN4	79684	FLJ23342	S
29888	STRN4	79948	PRG2	S
29888	STRN4	92170	GTPBP7	S
29890	RBM15B	380423	(null)	S
29903	HSU79303	55791	C1orf103	S
29903	HSU79303	84060	DKFZP564O0523	S
29907	SNX15	51669	TMEM66	S
29911	HOOK2	55388	MCM10	R
29911	HOOK2	58500	ZNF250	R
29911	HOOK2	64400	FTS	R
29911	HOOK2	80125	FLJ32855	R
29922	NME7	84260	MGC10854	R
29924	EPN1	51003	MED31	S
29924	EPN1	57562	KIAA1377	S
29925	GMPPB	29926	GMPPA	R
29941	PKN3	79658	ARHGAP10	L
29946	SERTAD3	83878	USHBP1	R
29947	DNMT3L	51187	C15orf15	R
29949	IL19	53832	IL20RA	L
29950	SERTAD1	57542	KLHDC5	R
29952	DPP7	54464	XRN1	L
29959	NRBP	55791	C1orf103	S

29959	NRBP	81628	TSC22D4	R
29974	ACF	30000	TNPO2	L
29978	UBQLN2	55660	FNBP3	L
29979	UBQLN1	30008	EFEMP2	R
29979	UBQLN1	55374	PRO1580	R
29979	UBQLN1	55660	FNBP3	L
29979	UBQLN1	57542	KLHDC5	R
29979	UBQLN1	60626	RIC8A	R
29979	UBQLN1	125170	SMCR7	R
29990	PILRB	64092	SAMSN1	L
30008	EFEMP2	54557	SGTB	R
30008	EFEMP2	55367	LRDD	R
30008	EFEMP2	57088	PLSCR4	R
30008	EFEMP2	79088	ZNF426	R
30008	EFEMP2	79843	FLJ22746	R
30008	EFEMP2	84528	PEPP-2	R
30008	EFEMP2	84894	LRRN6A	R
30008	EFEMP2	114822	RHPN1	R
30008	EFEMP2	117144	CATSPER1	R
30061	SLC40A1	51280	GOLPH2	S
30818	CSEN	57126	CD177	R
50604	IL20	53832	IL20RA	L
50615	IL21R	59067	IL21	L
50616	IL22	116379	IL22RA2	L
50618	ITSN2	51691	LSM8	L
50618	ITSN2	56647	BCCIP	S
50618	ITSN2	57556	SEMA6A	L
50619	DEF6	57596	KIAA1446	R
50717	WDR42A	84705	GTPBP3	R
50855	PARD6A	56288	PARD3	L
51002	CGI-121	112858	TP53RK	R
51003	MED31	51236	C8orf30A	S
51003	MED31	55147	RBM23	S
51003	MED31	64129	TINAGL1	S
51003	MED31	79756	(null)	S
51003	MED31	80228	C7orf19	S
51003	MED31	80304	FLJ21945	S
51003	MED31	84164	ASCC2	S
51003	MED31	84878	ZNF499	S
51010	EXOSC3	51654	CDK5RAP1	L
51010	EXOSC3	54512	EXOSC4	L
51010	EXOSC3	56915	EXOSC5	L
51013	EXOSC1	54464	XRN1	L
51013	EXOSC1	54512	EXOSC4	L
51013	EXOSC1	56915	EXOSC5	L
51013	EXOSC1	118460	EXOSC6	L
51019	CGI-116	57326	PBXIP1	R
51053	GMNN	81620	CDT1	L
51064	(null)	55081	ESRRBL1	S
51073	MRPL4	57062	DDX24	S
51073	MRPL4	83755	KRTAP4-12	R
51074	MMRP19	79873	NUDT18	R
51074	MMRP19	84313	VPS25	R
51074	MMRP19	84708	LNX	R
51076	CUTC	51324	SPG21	R
51076	CUTC	55191	NADSYN1	R
51076	CUTC	60491	NIF3L1	R
51076	CUTC	79873	NUDT18	R
51076	CUTC	84164	ASCC2	S
51076	CUTC	84708	LNX	R
51079	NDUFA13	54464	XRN1	L
51079	NDUFA13	118460	EXOSC6	L
51107	APH1A	55851	PSENN	L
51124	IER3IP1	284615	ANKRD34	S
51127	TRIM17	56658	TRIM39	R
51133	KCTD3	51691	LSM8	L
51138	COPS4	51562	MBIP	R

51138	COPS4	79173	MGC11271	R
51138	COPS4	83878	USHBP1	R
51143	DNCLI1	79902	PCNT1	L
51150	SDF4	57473	GM632	L
51157	ZNF580	81628	TSC22D4	R
51171	DHRS10	55093	C8orf32	R
51171	DHRS10	79873	NUDT18	R
51176	LEF1	51588	PIAS4	L
51176	LEF1	60529	ALX4	L
51194	IPO11	84812	PLCD4	R
51199	NIN	51637	C14orf166	L
51205	ACP6	54978	C2orf18	S
51222	ZNF219	51684	SUFU	L
51224	TCEB3B	54937	FLJ20449	R
51224	TCEB3B	79036	MGC2749	R
51224	TCEB3B	80321	Cep70	R
51224	TCEB3B	83755	KRTAP4-12	R
51225	ABI3	80817	KIAA1712	R
51225	ABI3	84062	DTNBP1	R
51225	ABI3	220766	KIAA0470L	R
51236	C8orf30A	54802	TRIT1	S
51236	C8orf30A	55937	APOM	S
51236	C8orf30A	254863	MGC40107	S
51252	LOC51252	90678	LRSAM1	S
51260	CXorf26	84988	PPP1R16A	S
51268	PIPOX	57489	ODF2L	S
51280	GOLPH2	60528	ELAC2	S
51280	GOLPH2	60685	TEX27	S
51280	GOLPH2	79369	B3GNT4	S
51280	GOLPH2	79760	GEMIN7	S
51280	GOLPH2	80023	C20orf98	S
51280	GOLPH2	268490	(null)	S
51280	GOLPH2	339448	LOC339448	S
51282	SCAND1	54925	ZNF434	R
51282	SCAND1	55888	ZNF167	R
51319	RSRC1	57180	ACTR3B	S
51319	RSRC1	57819	LSM2	S
51324	SPG21	55122	C6orf166	R
51324	SPG21	56474	CTPS2	R
51324	SPG21	57142	RTN4	R
51324	SPG21	66036	MTMR9	R
51327	ERAF	80149	ZC3H12A	R
51327	ERAF	81488	GRINL1A	S
51329	ARL6IP4	84100	ARL6	L
51343	FZR1	79020	C7orf25	S
51361	HOOK1	58500	ZNF250	R
51364	ZMYND10	81628	TSC22D4	R
51375	SNX7	56159	TEX11	R
51388	CGI-37	55035	NOL8	L
51389	RWDD1	79873	NUDT18	R
51412	ACTL6B	57017	C16orf49	S
51421	AMOTL2	54474	KRT20	R
51421	AMOTL2	55110	FLJ10292	R
51421	AMOTL2	79571	GCC1	R
51426	POLK	51455	REV1L	L
51440	HPCAL4	113878	DTX2	R
51444	RNF138	154313	C6orf165	R
51466	EVL	57556	SEMA6A	L
51497	TH1L	79885	HDAC11	S
51497	TH1L	84978	FRMD5	S
51497	TH1L	284131	FLJ35220	S
51517	NCKIPSD	63948	DMRTB1	R
51534	C6orf55	51562	MBIP	R
51534	C6orf55	54550	EFCBP2	R
51534	C6orf55	59349	KLHL12	R
51534	C6orf55	151871	DPPA2	R
51534	C6orf55	253980	KCTD13	R

51545	ZNF581	83755	KRTAP4-12	R
51545	ZNF581	84445	LZTS2	R
51562	MBIP	55885	LMO3	R
51562	MBIP	57325	CSRP2BP	R
51562	MBIP	79666	PLEKHF2	R
51562	MBIP	80254	Cep63	R
51562	MBIP	81565	NDEL1	R
51562	MBIP	85359	DGCR6L	R
51585	PCF11	53981	CPSF2	L
51588	PIAS4	57473	GM632	L
51588	PIAS4	79753	SNIP1	L
51593	ARS2	222019	(null)	S
51594	NAG	93145	OLFM2	S
51604	PIGT	65110	UPF3A	S
51608	C7orf20	57562	KIAA1377	S
51608	C7orf20	90990	KIFC2	S
51608	C7orf20	254863	MGC40107	S
51608	C7orf20	337867	PHGDHL1	S
51617	HMP19	53407	STX18	S
51617	HMP19	54978	C2orf18	S
51617	HMP19	54985	HCFC1R1	S
51619	UBE2D4	55658	RNF126	R
51619	UBE2D4	56658	TRIM39	R
51619	UBE2D4	113878	DTX2	R
51631	LUC7L2	54819	ZCCHC10	S
51631	LUC7L2	55037	FLJ20758	S
51631	LUC7L2	55729	ATF7IP	L
51631	LUC7L2	55755	CDK5RAP2	S
51631	LUC7L2	56901	LOC56901	S
51631	LUC7L2	57562	KIAA1377	S
51631	LUC7L2	65990	C16orf24	S
51631	LUC7L2	79576	NKAP	S
51631	LUC7L2	79686	C14orf139	S
51631	LUC7L2	81631	MAP1LC3B	S
51631	LUC7L2	266812	NAP1L5	S
51631	LUC7L2	307255	(null)	S
51654	CDK5RAP1	56915	EXOSC5	L
51659	Pfs2	84296	SLD5	R
51669	TMEM66	230991	(null)	S
51678	MPP6	83658	DNCL2A	L
51684	SUFU	55663	ZNF446	R
51684	SUFU	55670	PEX26	R
51684	SUFU	57333	RCN3	R
51684	SUFU	58526	MID1IP1	R
51684	SUFU	92595	MGC13138	R
51684	SUFU	169792	GLIS3	R
51690	LSM7	51691	LSM8	L
51690	LSM7	57819	LSM2	L
51690	LSM7	118460	EXOSC6	L
51691	LSM8	55577	NAGK	L
51691	LSM8	55793	FAM63A	L
51691	LSM8	55802	DCP1A	L
51691	LSM8	57819	LSM2	L
51691	LSM8	79763	ISOC2	L
51691	LSM8	83706	URP2	L
51691	LSM8	91522	COL23A1	L
51691	LSM8	118460	EXOSC6	L
51691	LSM8	163702	IL28RA	L
51699	VPS29	118924	C10orf4	S
51699	VPS29	162952	(null)	S
51706	CYB5R1	54205	CYCS	L
51720	RAP80	83444	ZNHIT4	S
51726	DNAJB11	197131	UBR1	S
51729	WBP11	55322	FLJ11193	R
51729	WBP11	84816	RTN4IP1	R
51751	HIGD1B	81488	GRINL1A	S
51755	CRK7	55660	FNBP3	L

51760	SYT17	81628	TSC22D4	R
51762	RAB8B	117177	RAB3IP	L
51776	ZAK	163081	ZNF567	R
51780	JMJD1B	57473	GM632	L
53615	MBD3	54815	GATAD2A	L
53826	FXVD6	55142	C15orf25	S
53826	FXVD6	56927	GPR108	S
53826	FXVD6	60492	MDS025	S
53826	FXVD6	79939	SLC35E1	S
53826	FXVD6	84060	DKFZP564O0523	S
53904	MYO3A	81488	GRINL1A	S
54033	RBM11	84528	PEPP-2	R
54107	POLE3	54108	CHRAC1	L
54165	DCUN1D1	56658	TRIM39	R
54458	DKFZp564J157	57142	RTN4	S
54458	DKFZp564J157	59349	KLHL12	R
54458	DKFZp564J157	83755	KRTAP4-12	R
54461	FBXW5	83755	KRTAP4-12	R
54464	XRN1	55802	DCP1A	L
54464	XRN1	64847	SPATA20	L
54464	XRN1	65109	UPF3B	L
54464	XRN1	90113	LOC90113	L
54464	XRN1	118460	EXOSC6	L
54464	XRN1	196513	DCP1B	L
54472	TOLLIP	84528	PEPP-2	R
54474	KRT20	79095	C9orf16	R
54474	KRT20	79696	C14orf140	R
54474	KRT20	79882	FLJ11806	R
54474	KRT20	80347	COASY	R
54474	KRT20	84832	MGC12538	R
54474	KRT20	149371	EXOC8	R
54505	DHX29	79735	TBC1D17	S
54505	DHX29	80152	FLJ13111	S
54507	TSRC1	59277	NTN4	R
54507	TSRC1	65989	EGFL9	R
54507	TSRC1	83755	KRTAP4-12	R
54507	TSRC1	117144	CATSPER1	R
54512	EXOSC4	55144	LRR8D	L
54512	EXOSC4	55627	FLJ20297	L
54512	EXOSC4	81889	FAHD1	L
54512	EXOSC4	90480	GADD45GIP1	L
54512	EXOSC4	116461	C1orf19	L
54541	DDIT4	55791	C1orf103	S
54544	C1orf42	55791	C1orf103	S
54544	C1orf42	57562	KIAA1377	S
54544	C1orf42	84966	IGSF21	S
54550	EFCBP2	55093	C8orf32	R
54550	EFCBP2	55758	RCOR3	R
54550	EFCBP2	56159	TEX11	R
54550	EFCBP2	79050	NOC4L	R
54550	EFCBP2	79172	MGC11266	R
54550	EFCBP2	80125	FLJ32855	R
54550	EFCBP2	84708	LNK	R
54550	EFCBP2	85359	DGCR6L	R
54550	EFCBP2	85865	LOC85865	R
54550	EFCBP2	284058	LOC284058	R
54596	ECAT11	57473	GM632	L
54606	DDX56	79797	ZNF408	L
54622	ARFRP2	56850	GRIPAP1	S
54622	ARFRP2	60492	MDS025	S
54622	ARFRP2	65991	FUNDC2	S
54622	ARFRP2	197131	UBR1	S
54778	RNF111	64750	SMURF2	L
54819	ZCCHC10	55145	THAP1	R
54819	ZCCHC10	151871	DPPA2	R
54819	ZCCHC10	246329	STAC3	R
54822	TRPM7	140803	TRPM6	L

54857	GDPD2	118924	C10orf4	S
54857	GDPD2	284004	FLJ23825	S
54870	FLJ20259	55729	ATF7IP	L
54880	BCOR	131034	CPNE4	L
54880	BCOR	221184	CPNE2	L
54882	ANKHD1	81488	GRINL1A	S
54902	TTC19	65109	UPF3B	L
54903	FLJ20345	57062	DDX24	S
54908	FLJ20364	57562	KIAA1377	S
54925	ZNF434	55663	ZNF446	R
54925	ZNF434	55888	ZNF167	R
54927	CHCHD3	83755	KRTAP4-12	R
54936	ADPRHL2	118924	C10orf4	S
54936	ADPRHL2	162952	(null)	S
54936	ADPRHL2	284004	FLJ23825	S
54949	FLJ20487	60492	MDS025	S
54951	COMMD8	56901	LOC56901	S
54974	ICF45	55531	ELMOD1	R
54976	C20orf27	138046	LOC138046	R
54977	FLJ20551	79159	MGC3731	S
54977	FLJ20551	80345	ZNF435	S
54978	C2orf18	56901	LOC56901	S
54978	C2orf18	56984	TNFSF5IP1	S
54978	C2orf18	58475	MS4A7	S
54997	TSC	55297	FLJ11088	R
55004	FLJ20625	55324	ABCF3	S
55004	FLJ20625	60492	MDS025	S
55011	FLJ20643	81628	TSC22D4	R
55017	C14orf119	85444	LRRCC1	S
55023	PHIP	81551	STMN4	S
55035	NOL8	64121	RRAGC	L
55041	PLEKHB2	55729	ATF7IP	L
55041	PLEKHB2	380423	(null)	S
55062	WIPI49	79047	KCTD15	S
55068	FLJ10094	60491	NIF3L1	R
55068	FLJ10094	84708	LNX	R
55093	C8orf32	79077	XTP3TPA	R
55116	TMEM39B	162417	NAGS	S
55122	C6orf166	84708	LNX	R
55139	FLJ10415	80023	C20orf98	S
55145	THAP1	55342	STRBP	R
55145	THAP1	79169	C1orf35	R
55145	THAP1	79576	NKAP	R
55145	THAP1	79797	ZNF408	R
55145	THAP1	81488	GRINL1A	R
55145	THAP1	138046	LOC138046	R
55147	RBM23	57562	KIAA1377	S
55160	ARHGEF10L	362598	(null)	S
55191	NADSYN1	80022	MYO15B	R
55193	PB1	57473	GM632	L
55198	DIP13B	57403	RAB22A	R
55209	FLJ10707	151871	DPPA2	R
55211	DPPA4	151871	DPPA2	R
55227	LRRC1	55914	ERBB2IP	L
55227	LRRC1	57562	KIAA1377	S
55231	FLJ10786	147872	FLJ32658	R
55233	MOBK1B	79036	MGC2749	R
55252	ASXL2	55660	FNBP3	L
55269	PSPC1	55791	C1orf103	S
55274	PHF10	83746	L3MBTL2	R
55285	FLJ11016	138046	LOC138046	R
55294	FBXW7	73121	(null)	S
55294	FBXW7	84894	LRRN6A	S
55294	FBXW7	253714	C6orf167	S
55294	FBXW7	257218	SHPRH	S
55294	FBXW7	340390	KIAA1875	S
55308	DDX19A	57409	AD023	R

55322	FLJ11193	84337	ELOF1	R
55324	ABCF3	79939	SLC35E1	S
55324	ABCF3	84273	C4orf14	S
55324	ABCF3	114034	TOE1	S
55339	WDR33	84060	DKFZP564O0523	S
55388	MCM10	55722	Cep72	R
55388	MCM10	80321	Cep70	R
55388	MCM10	115106	CCDC5	L
55388	MCM10	127557	ZBTB8	R
55388	MCM10	151871	DPPA2	R
55509	SNFT	84699	CREB3L3	L
55509	SNFT	90993	CREB3L1	L
55509	SNFT	148327	CREB3L4	L
55540	IL17RB	64806	IL17E	L
55565	LOC55565	541468	C1orf190	R
55577	NAGK	84708	LNX	R
55577	NAGK	167227	DCP2	L
55577	NAGK	339965	FLJ25770	R
55596	ZCCHC8	55660	FBNP3	L
55603	FAM46A	56647	BCCIP	L
55603	FAM46A	112398	EGLN2	L
55611	OTUB1	79589	RNF128	L
55613	MTMR8	66036	MTMR9	R
55619	DOCK10	541468	C1orf190	R
55643	BTBD2	57473	GM632	L
55643	BTBD2	60492	MDS025	S
55643	BTBD2	84060	DKFZP564O0523	S
55643	BTBD2	84966	IGSF21	S
55643	BTBD2	197131	UBR1	S
55660	FBNP3	56893	UBQLN4	L
55660	FBNP3	57620	STIM2	L
55660	FBNP3	91010	FMNL3	L
55660	FBNP3	114793	FMNL2	L
55660	FBNP3	204851	HIPK1	L
55660	FBNP3	221935	SDK1	L
55661	DDX27	57473	GM632	L
55661	DDX27	84988	PPP1R16A	S
55662	HIF1AN	79754	ASB13	R
55662	HIF1AN	85302	FBF1	R
55662	HIF1AN	140462	ASB9	R
55663	ZNF446	80345	ZNF435	R
55663	ZNF446	84838	ZNF496	R
55663	ZNF446	85359	DGCR6L	R
55684	C9orf86	79173	MGC11271	R
55692	LUC7L	65990	C16orf24	S
55698	FLJ10324	84164	ASCC2	S
55698	FLJ10324	84528	PEPP-2	R
55698	FLJ10324	219541	MED19	S
55698	FLJ10324	380423	(null)	S
55700	RPRC1	84060	DKFZP564O0523	S
55722	Cep72	84708	LNX	R
55722	Cep72	147687	ZNF417	R
55726	C12orf11	79027	ZNF655	R
55729	ATF7IP	57724	KIAA1632	L
55729	ATF7IP	59348	ZNF350	L
55729	ATF7IP	60676	PAPPA2	L
55729	ATF7IP	63971	KIF13A	L
55729	ATF7IP	64420	SUSD1	L
55729	ATF7IP	79987	SVEP1	L
55729	ATF7IP	84245	MGC3207	L
55734	ZFP64	57596	KIAA1446	R
55737	VPS35	57473	GM632	L
55746	NUP133	57122	NUP107	L
55755	CDK5RAP2	57519	STARD9	S
55755	CDK5RAP2	59343	SENP2	S
55755	CDK5RAP2	84060	DKFZP564O0523	S
55758	RCOR3	80321	Cep70	R

55770	SEC5L1	149371	EXOC8	L
55791	C1orf103	56144	PCDHA4	S
55791	C1orf103	57664	PLEKHA4	S
55791	C1orf103	64968	MRPS6	S
55791	C1orf103	79756	(null)	S
55791	C1orf103	91653	BOC	S
55791	C1orf103	170961	ANKRD24	S
55791	C1orf103	284403	WDR62	S
55802	DCP1A	167227	DCP2	L
55813	C17orf40	79036	MGC2749	R
55813	C17orf40	84528	PEPP-2	R
55855	FAM45B	254863	MGC40107	S
55872	PBK	57562	KIAA1377	S
55885	LMO3	79036	MGC2749	R
55885	LMO3	79800	ALS2CR8	R
55885	LMO3	127557	ZBTB8	R
55885	LMO3	138046	LOC138046	R
55885	LMO3	220766	KIAA0470L	R
55885	LMO3	222546	RFXDC1	R
55888	ZNF167	170082	MGC17403	R
55906	KIAA1166	79036	MGC2749	R
55916	NXT2	56000	NXF3	RL
55916	NXT2	56001	NXF2	L
55957	F25965	56159	TEX11	R
56144	PCDHA4	60492	MDS025	S
56144	PCDHA4	84060	DKFZP564O0523	S
56144	PCDHA4	84966	IGSF21	S
56159	TEX11	56243	KIAA1217	R
56159	TEX11	57642	COL20A1	R
56159	TEX11	81628	TSC22D4	R
56159	TEX11	81888	HYI	R
56159	TEX11	84260	MGC10854	R
56159	TEX11	84330	ZNF414	R
56159	TEX11	114327	EFHC1	R
56159	TEX11	143379	C10orf82	R
56159	TEX11	151254	ALS2CR11	R
56159	TEX11	220136	CCDC11	R
56243	KIAA1217	56915	EXOSC5	R
56243	KIAA1217	79571	GCC1	R
56616	DIABLO	57448	BIRC6	L
56652	PEO1	64400	FTS	S
56652	PEO1	222019	(null)	S
56654	NPDC1	83755	KRTAP4-12	R
56658	TRIM39	80019	UBTD1	R
56658	TRIM39	84812	PLCD4	R
56674	TMEM9B	57062	DDX24	S
56901	LOC56901	79555	(null)	S
56901	LOC56901	81890	QTRT1	S
56901	LOC56901	197131	UBR1	S
56901	LOC56901	222019	(null)	S
56904	SH3GLB2	339965	FLJ25770	R
56906	THAP10	83755	KRTAP4-12	R
56906	THAP10	140735	Dlc2	R
56911	C21orf7	257397	TAB3	R
56915	EXOSC5	148156	ZNF558	L
56927	GPR108	90678	LRSAM1	S
56949	XAB2	57685	CACHD1	L
56952	PRTFDC1	60491	NIF3L1	R
56952	PRTFDC1	80308	FLAD1	R
56952	PRTFDC1	196483	FAM86A	R
56963	RGMA	84988	PPP1R16A	S
56992	KIF15	57562	KIAA1377	S
56992	KIF15	84557	MAP1LC3A	S
56998	CTNNBIP1	79656	C1orf165	R
57002	C7orf36	57562	KIAA1377	S
57017	C16orf49	57719	TMEM16H	S
57062	DDX24	374923	(null)	S

57088	PLSCR4	83755	KRTAP4-12	R
57095	C1orf128	79577	CDC73	S
57097	PARP11	84705	GTPBP3	R
57136	C20orf3	84695	LOXL3	S
57142	RTN4	79666	PLEKHF2	R
57144	PAK7	84445	LZTS2	R
57159	TRIM54	84675	TRIM55	L
57159	TRIM54	84676	TRIM63	L
57179	KIAA1191	79159	MGC3731	S
57192	MCOLN1	79939	SLC35E1	S
57326	PBXIP1	151871	DPPA2	R
57333	RCN3	57542	KLHDC5	R
57333	RCN3	158471	C9orf65	R
57333	RCN3	283987	C17orf28	R
57336	ZNF287	80021	TMEM62	S
57381	RHOJ	81704	DOCK8	L
57402	S100A14	140576	S100A16	R
57409	AD023	118460	EXOSC6	L
57418	WDR18	84273	C4orf14	S
57453	DSCAML1	260425	MAGI3	L
57473	GM632	58487	ZF	L
57473	GM632	60676	PAPPA2	L
57473	GM632	64855	C9orf88	L
57473	GM632	80351	TNKS2	L
57473	GM632	84445	LZTS2	L
57489	ODF2L	57562	KIAA1377	S
57498	KIDINS220	79577	CDC73	S
57542	KLHDC5	83878	USHBP1	R
57549	IGSF9	84164	ASCC2	S
57556	SEMA6A	57630	SH3MD2	L
57562	KIAA1377	64400	FTS	S
57562	KIAA1377	64968	MRPS6	S
57562	KIAA1377	79137	C2orf17	S
57562	KIAA1377	79641	FLJ22386	S
57562	KIAA1377	81488	GRINL1A	S
57562	KIAA1377	266812	NAP1L5	S
57591	MKL1	93649	MYOCD	L
57596	KIAA1446	58500	ZNF250	R
57596	KIAA1446	84080	C16orf48	R
57596	KIAA1446	117144	CATSPER1	R
57596	KIAA1446	147687	ZNF417	R
57596	KIAA1446	283987	C17orf28	R
57605	PITPNM2	131034	CPNE4	L
57610	RANBP10	57685	CACHD1	L
57610	RANBP10	80731	KIAA1679	L
57610	RANBP10	84466	MEGF10	L
57610	RANBP10	85445	CNTNAP4	L
57658	CALCOCO1	79735	TBC1D17	S
57670	KIAA1549	79577	CDC73	S
57761	TRIB3	84060	DKFZP564O0523	S
57787	MARK4	79803	HPS6	S
57799	RAB40C	114034	TOE1	S
57819	LSM2	79797	ZNF408	L
57862	ZNF410	81488	GRINL1A	S
58190	CTDSP1	83461	CDCA3	R
58477	SRPRB	80279	CDK5RAP3	S
58484	CARD12	64127	CARD15	L
58484	CARD12	147945	NALP4	L
58494	JAM2	83700	JAM3	L
58500	ZNF250	80817	KIAA1712	R
58500	ZNF250	83755	KRTAP4-12	R
58500	ZNF250	127557	ZBTB8	R
58500	ZNF250	151871	DPPA2	R
58513	EPS15L1	85439	STN2	L
58516	FAM60A	84705	GTPBP3	R
59349	KLHL12	80306	MED28	R
59349	KLHL12	84708	LNX	R

59349	KLHL12	124460	SLIC1	R
59350	LGR7	117579	RLN3	L
60313	GPBP1L1	79666	PLEKHF2	R
60490	PPCDC	80152	FLJ13111	S
60491	NIF3L1	63948	DMRTB1	R
60491	NIF3L1	79036	MGC2749	R
60491	NIF3L1	79077	XTP3TPA	R
60491	NIF3L1	79734	KCTD17	R
60491	NIF3L1	81628	TSC22D4	R
60491	NIF3L1	92610	TIFA	R
60491	NIF3L1	222389	C10orf30	R
60528	ELAC2	84164	ASCC2	S
60626	RIC8A	92285	ZNF585B	S
60684	FLJ12716	307255	(null)	S
64109	CRLF2	85480	TSLP	L
64112	MOAP1	151871	DPPA2	R
64219	PJA1	84164	ASCC2	S
64219	PJA1	126070	ZNF440	S
64225	ARL6IP2	84100	ARL6	L
64240	ABCG5	64241	ABCG8	L
64375	ZNFN1A4	64376	ZNFN1A5	L
64403	CDH24	84988	PPP1R16A	S
64746	ACBD3	64750	SMURF2	L
64750	SMURF2	135932	FLJ90586	L
64750	SMURF2	404093	CUEDC1	L
64753	NAG6	79797	ZNF408	L
64769	C1orf149	83746	L3MBTL2	R
64965	MRPS9	83759	RBM30	S
65220	NADK	79873	NUDT18	R
65220	NADK	84708	LNX	R
65264	FLJ13855	79666	PLEKHF2	R
65989	EGFL9	83755	KRTAP4-12	R
65991	FUNDC2	84164	ASCC2	S
73710	(null)	79020	C7orf25	S
78987	CRELD1	222019	(null)	S
78992	YIPF2	286451	YIPF6	R
79020	C7orf25	118924	C10orf4	S
79020	C7orf25	162952	(null)	S
79020	C7orf25	284004	FLJ23825	S
79027	ZNF655	83755	KRTAP4-12	R
79036	MGC2749	79873	NUDT18	R
79036	MGC2749	80125	FLJ32855	R
79036	MGC2749	80254	Cep63	R
79036	MGC2749	81631	MAP1LC3B	R
79036	MGC2749	84289	ING5	R
79036	MGC2749	84708	LNX	R
79036	MGC2749	84984	MGC14126	R
79036	MGC2749	90410	IFT20	R
79036	MGC2749	138065	RNF183	R
79036	MGC2749	164127	C1orf65	R
79036	MGC2749	220766	KIAA0470L	R
79050	NOC4L	81628	TSC22D4	R
79050	NOC4L	83878	USHBP1	R
79077	XTP3TPA	84273	C4orf14	S
79088	ZNF426	80321	Cep70	R
79088	ZNF426	83755	KRTAP4-12	R
79094	MGC4504	84528	PEPP-2	R
79096	MGC4707	84060	DKFZP564O0523	S
79142	PHF23	90678	LRSAM1	S
79159	MGC3731	150421	(null)	S
79172	MGC11266	220766	KIAA0470L	R
79173	MGC11271	148223	C19orf25	R
79187	FSD1	84988	PPP1R16A	S
79363	C1orf89	80199	FLJ22688	R
79434	(null)	93145	OLFM2	S
79571	GCC1	79869	FLJ12529	R
79571	GCC1	83878	USHBP1	R

79571	GCC1	85302	FBF1	R
79576	NKAP	80321	Cep70	R
79576	NKAP	220108	FLJ30707	R
79586	CHPF	118460	EXOSC6	L
79637	ARMC7	253980	KCTD13	R
79679	VTCN1	151888	BTLA	L
79686	C14orf139	84078	KBTBD7	S
79723	SUV39H2	288353	(null)	S
79734	KCTD17	79873	NUDT18	R
79734	KCTD17	84708	LNX	R
79734	KCTD17	201965	RWDD4A	R
79734	KCTD17	474354	LRRC18	R
79735	TBC1D17	84164	ASCC2	S
79753	SNIP1	84186	ZCCHC7	L
79753	SNIP1	204851	HIPK1	L
79756	(null)	84060	DKFZP564O0523	S
79760	GEMIN7	79833	GEMIN6	RL
79797	ZNF408	80321	Cep70	R
79797	ZNF408	83755	KRTAP4-12	R
79797	ZNF408	127557	ZBTB8	R
79797	ZNF408	138046	LOC138046	R
79801	SHCBP1	221302	C6orf113	R
79873	NUDT18	83755	KRTAP4-12	R
79873	NUDT18	92610	TIFA	R
79873	NUDT18	115704	EVI5L	R
79873	NUDT18	253980	KCTD13	R
79912	FLJ22028	139596	RP11-311P8.3	R
80022	MYO15B	127557	ZBTB8	R
80028	FBXL18	83755	KRTAP4-12	R
80125	FLJ32855	81628	TSC22D4	R
80125	FLJ32855	83878	USHBP1	R
80125	FLJ32855	127557	ZBTB8	R
80174	DRF1	83755	KRTAP4-12	R
80198	MUS81	146956	EME1	L
80254	Cep63	83878	USHBP1	R
80306	MED28	83878	USHBP1	R
80321	Cep70	84080	C16orf48	R
80321	Cep70	127557	ZBTB8	R
80321	Cep70	284058	LOC284058	R
80351	TNKS2	85456	TNKS1BP1	L
80723	TMEM22	116983	CENTB5	S
80764	THAP7	83755	KRTAP4-12	R
80764	THAP7	541468	C1orf190	R
80817	KIAA1712	220082	NURIT	R
81488	GRINL1A	83759	RBM30	S
81488	GRINL1A	112840	C14orf150	S
81605	C9orf74	84164	ASCC2	S
81620	CDT1	115106	CCDC5	L
81628	TSC22D4	84080	C16orf48	R
81628	TSC22D4	84708	LNX	R
81628	TSC22D4	122786	FRMD6	R
81628	TSC22D4	134510	UBLCP1	R
81628	TSC22D4	146849	FLJ32734	R
81631	MAP1LC3B	84078	KBTBD7	S
83552	MFRP	114902	C1QTNF5	L
83640	MGC2560	84528	PEPP-2	R
83755	KRTAP4-12	83897	KRTAP3-2	R
83755	KRTAP4-12	84707	BEX2	R
83755	KRTAP4-12	84708	LNX	R
83755	KRTAP4-12	84733	CBX2	R
83755	KRTAP4-12	84894	LRRN6A	R
83755	KRTAP4-12	90594	ZNF439	R
83755	KRTAP4-12	92595	MGC13138	R
83755	KRTAP4-12	117144	CATSPER1	R
83755	KRTAP4-12	126070	ZNF440	R
83755	KRTAP4-12	143684	FAM76B	R
83755	KRTAP4-12	147687	ZNF417	R

83755	KRTAP4-12	164127	C1orf65	R
83755	KRTAP4-12	164592	FLJ36046	R
83755	KRTAP4-12	286301	MGC42630	R
83755	KRTAP4-12	414157	C10orf62	R
83878	USHBP1	85302	FBF1	R
83878	USHBP1	89885	FATE1	R
83878	USHBP1	90060	JM11	R
83878	USHBP1	127703	FLJ38984	R
83878	USHBP1	143241	DYDC1	R
83878	USHBP1	149371	EXOC8	R
83878	USHBP1	284058	LOC284058	R
83988	NCALD	113878	DTX2	R
84026	(null)	114034	TOE1	S
84062	DTNBP1	85359	DGCR6L	R
84067	DKFZP566M1046	92840	C19orf32	R
84141	FLJ13391	222019	(null)	S
84224	AE2	116461	C1orf19	R
84277	WBSCR18	118460	EXOSC6	L
84289	ING5	89797	NAV2	R
84313	VPS25	84528	PEPP-2	R
84445	LZTS2	84528	PEPP-2	R
84528	PEPP-2	85302	FBF1	R
84528	PEPP-2	113878	DTX2	R
84528	PEPP-2	114823	LENG8	R
84528	PEPP-2	115572	FAM46B	R
84528	PEPP-2	129807	NEU4	R
84528	PEPP-2	169966	FAM46D	R
84661	LOC84661	143241	DYDC1	R
84675	TRIM55	84676	TRIM63	L
84680	PHACS	85302	FBF1	R
84699	CREB3L3	90993	CREB3L1	L
84699	CREB3L3	148327	CREB3L4	L
84708	LNX	92610	TIFA	R
84708	LNX	127557	ZBTB8	R
84708	LNX	253980	KCTD13	R
84708	LNX	286514	MAGEB18	R
84888	SPPL2A	92856	IMP4	L
84970	C1orf94	93487	C14orf32	R
84978	FRMD5	284169	(null)	S
84988	PPP1R16A	359845	MGC45871	S
85302	FBF1	90410	IFT20	R
85359	DGCR6L	283518	KCNRG	R
85439	STN2	127833	SYT2	L
89885	FATE1	138065	RNF183	R
90060	JM11	220766	KIAA0470L	R
90427	BMF	140735	Dic2	L
90933	TRIM41	127557	ZBTB8	R
90993	CREB3L1	148327	CREB3L4	L
91056	DKFZp761E198	283518	KCNRG	R
91544	UBXD5	154313	C6orf165	R
91754	NEK9	140609	NEK7	L
92822	ZFP276	127557	ZBTB8	R
93986	FOXP2	116113	FOXP4	L
112869	LOC112869	339965	FLJ25770	R
112950	MED8	124402	LOC124402	S
113878	DTX2	222546	RFXDC1	R
114088	TRIM9	158345	LOC158345	S
116225	ZMYND19	253980	KCTD13	R
116225	ZMYND19	284352	LOC284352	R
118460	EXOSC6	196513	DCP1B	L
121536	AEBP2	138046	LOC138046	R
127703	FLJ38984	220766	KIAA0470L	R
128240	APOA1BP	284169	(null)	S
138046	LOC138046	220766	KIAA0470L	R
148223	C19orf25	220766	KIAA0470L	R
153733	MGC39633	374618	TEX9	R
153733	MGC39633	541468	C1orf190	R

162952	(null)	196383	MGC7036	S
162952	(null)	234729	(null)	S
163702	IL28RA	282616	IL28A	L
163702	IL28RA	282617	IL28B	L
163702	IL28RA	282618	IL29	L
164127	C1orf65	541468	C1orf190	R
167227	DGP2	196513	DGP1B	L
170082	MGC17403	541468	C1orf190	R
196383	MGC7036	284004	FLJ23825	S
220134	C18orf24	256369	C14orf48	R
222389	C10orf30	284352	LOC284352	R