

Table S2

Entrez GeneID	Symbol	Glomeruli	Inner cortex	Outer cortex	Inner medulla	Outer medulla	Pap tips	Pelvis	RefSeq/GeneBank ID	Average Ab. Immune Response Signal Intensity	CV	Positive Ab. Signal Intensity across 18 pts (%)
9459	ARHGEF6	Y						Y	BC039856	64.06	1.01	100%
9463	PICK1								NM_012407	55.00	1.24	100%
11047	ADRM1								NM_007002	262.75	1.01	94%
9076	CLDN1						Y		NM_021101	54.94	1.20	94%
60491	NIF3L1							Y	BC007654	137.53	1.28	94%
8495	PPFIBP2							Y	NM_003621	532.67	1.54	94%
27245	AHDC1								BC002677	75.64	1.08	89%
2026	ENO2								NM_001975	36.47	1.12	89%
55847	CISD1			Y					NM_018464	54.06	1.14	89%
10231	DSCR1L1								BC038509	71.42	1.14	89%
6515	SLC2A3								NM_006931	77.08	1.16	89%
57834	CYP4F11		Y	Y					BC016853	46.25	1.21	89%
6428	SFRS3								BC000914	195.61	1.22	89%
11199	ANXA10							Y	BC007320	282.92	1.24	89%
9815	GIT2								NM_139201	56.44	1.27	89%
5191	PEX7			Y					BC031606	41.25	1.29	89%
6788	STK3								NM_006281	68.78	1.31	89%
2041	EPHA1								NM_005232	61.42	1.32	89%
9701	SAPS2								BC052995	130.28	1.32	89%
51444	RNF138								NM_016271	205.36	1.35	89%
139212	CXorf41								NM_173494	149.33	1.39	89%
6533	SLC6A6			Y					BC006252	151.06	1.44	89%
1500	CTNND1	Y							BC010501	590.69	1.48	89%
11275	KLHL2								NM_007246	37.75	1.48	89%
9240	PNMA1								BC039577	78.89	1.54	89%
6199	RPS6KB2								BC006106	55.36	1.55	89%
2184	FAH		Y	Y					NM_000137	156.19	1.60	89%
55172	C14orf104								BC011400	34.81	1.62	89%
83695	C12orf32								NM_031465	193.42	1.81	89%
23648	SSBP3								NM_018070	142.92	1.96	89%
9943	OXR1								BC008726	54.03	2.08	89%
6430	SFRS5			Y					BC018823	106.00	2.14	89%
6198	RPS6KB1								BC053365	157.72	2.28	89%
55109	AGGF1								BC029382	44.86	1.02	83%
23295	MGRN1								NM_015246	130.81	1.09	83%
5372	PMM1		Y	Y					BC010855	54.14	1.12	83%
8412	BCAR3								BC039895	161.81	1.13	83%
124491	TMEM170								NM_145254	37.44	1.13	83%
9276	COPB2								NM_004766	26.75	1.21	83%
5426	POLE								BC021559	58.78	1.21	83%
9179	AP4M1								NM_004722	31.67	1.23	83%
5859	QARS								BC016634	39.11	1.24	83%
10454	MAP3K7IP1								NM_006116	132.39	1.25	83%

50861	STMN3							Y	NM_015894	69.11	1.27	83%
2139	EYA2								BC008803	19.81	1.27	83%
286133	SCARA5							Y	BC033153	61.03	1.28	83%
135932	TMEM139								NM_153345	27.42	1.29	83%
84513	PPAPDC1B								BC033025	55.67	1.30	83%
140691	TRIM69								BC047945	53.08	1.31	83%
23558	WBP2								NM_012478	108.94	1.32	83%
4255	MGMT								NM_002412	98.69	1.32	83%
6747	SSR3								NM_007107	71.58	1.32	83%
159091	FAM122C								NM_138819	42.44	1.34	83%
3553	IL1B								NM_000576	82.39	1.34	83%
202051	LOC202051								BC050563	108.64	1.36	83%
387338	NSUN4								BC014441	77.33	1.36	83%
25970	SH2B1								BC010704	30.39	1.37	83%
10456	HAX1								NM_006118	79.78	1.38	83%
2823	GPM6A								BC044612	81.56	1.38	83%
10785	WDR4							Y	NM_033661	34.86	1.38	83%
389434	IYD		Y	Y					BC056253	28.50	1.39	83%
5218	PFTK1								NM_012395	78.22	1.40	83%
8563	THOC5								BC003615	47.03	1.42	83%
80262	C16orf70								NM_025187	44.69	1.42	83%
7443	VRK1								NM_003384	30.81	1.44	83%
51441	YTHDF2								BC002559	127.83	1.45	83%
4179	CD46								NM_153826	14.03	1.46	83%
10537	UBD								BC012472	83.47	1.46	83%
10455	PECI		Y	Y					NM_006117	140.19	1.49	83%
84545	MRPL43								BC052639	66.94	1.50	83%
11068	CYB561D2								NM_007022	18.83	1.51	83%
339487	ZBTB8OS								BC058843	60.72	1.52	83%
5770	PTPN1								NM_002827	47.39	1.54	83%
3241	HPCAL1							Y	NM_002149	38.17	1.54	83%
2130	EWSR1								BC000527	50.78	1.56	83%
9363	RAB33A								NM_004794	71.61	1.56	83%
10410	IFITM3								BC008417	51.14	1.57	83%
54985	HCFC1R1							Y	NM_001002018	119.81	1.57	83%
55781	RIOK2								BC000953	75.42	1.59	83%
55471	PRO1853								NM_144736	47.72	1.60	83%
56905	C15orf39								BC011379	51.86	1.61	83%
744	MPPED2								NM_001584	118.83	1.61	83%
10524	HTATIP								NM_006388	139.00	1.63	83%
28973	MRPS18B								NM_014046	75.42	1.63	83%
2299	FOXI1					Y			NM_144769	80.03	1.66	83%
133619	PRRC1								NM_130809	248.31	1.66	83%
2258	FGF13							Y	NM_033642	194.39	1.70	83%
1499	CTNNB1								BC058926	38.25	1.71	83%
114609	TIRAP								BC032474	34.72	1.71	83%
7347	UCHL3								NM_006002	154.31	1.72	83%
79882	ZC3H14								BC027607	111.89	1.73	83%
10428	CFDP1								NM_006324	55.92	1.73	83%
55198	APPL2								BC033731	35.61	1.76	83%
64073	C19orf33							Y	BC060319	53.61	1.76	83%
8624	DSCR2								NM_003720	63.31	1.77	83%

51018	RRP15							NM_016052	58.00	1.78	83%
55741	EDEM2							BC001371	47.33	1.81	83%
5435	POLR2F							NM_021974	16.81	1.82	83%
22926	ATF6							BC014969	134.69	1.85	83%
50945	TBX22							BC014194	25.81	1.89	83%
7867	MAPKAPK3							BC001662	35.17	1.90	83%
257144	GCET2					Y		NM_152785	92.00	1.91	83%
81627	C1orf25							BC045535	178.78	1.95	83%
11168	PSIP1							BC033817	26.97	1.96	83%
55803	CENTA2							BC033758	297.58	1.96	83%
10923	SUB1							BC010537	41.92	1.96	83%
8894	EIF2S2							BC007888	149.78	1.97	83%
5149	PDE6H							NM_006205	193.81	1.98	83%
64410	KLHL25							NM_022480	48.69	2.00	83%
9445	ITM2B							NM_021999	25.94	2.02	83%
64963	MRPS11							NM_022839	73.00	2.02	83%
2258	FGF13					Y		NM_033642	153.72	2.04	83%
5106	PCK2		Y	Y				BC001454	81.64	2.11	83%
6835	SURF2							NM_017503	192.64	2.16	83%
54550	EFCBP2		Y	Y				BC016979	152.69	2.17	83%
51534	C6orf55					Y		NM_016485	25.89	2.21	83%
8674	VAMP4							BC005974	18.31	2.28	83%
64221	ROBO3					Y		BC008623	115.08	2.32	83%
56905	C15orf39							BC011379	167.53	2.34	83%
2185	PTK2B					Y		NM_004103	55.14	2.80	83%
25807	RHBDD3							NM_012265	21.39	2.85	83%
3148	HMGB2							NM_002129	12.47	3.17	83%
54840	APTX							NM_017692	6.89	11.55	83%
10540	DCTN2							BC000718	6.11	15.33	83%
54436	SH3TC1							BC068094	43.97	1.13	78%
1495	CTNNA1							BC031262	38.78	1.16	78%
9475	ROCK2							NM_004850	66.58	1.20	78%
2766	GMPR					Y		NM_006877	55.39	1.21	78%
7867	MAPKAPK3							BC001662	86.22	1.22	78%
11190	CEP250							BC001433	57.58	1.23	78%
10351	ABCA8			Y			Y	BC047765	52.03	1.23	78%
4139	MARK1						Y	NM_018650	105.44	1.24	78%
65992	C20orf116							BC007957	32.75	1.25	78%
143471	PSMA8						Y	BC042820	54.39	1.25	78%
9470	EIF4E2							NM_004846	132.36	1.25	78%
221150	C13orf3						Y	BC048988	107.72	1.26	78%
11282	MGAT4B					Y		BC009464	48.89	1.26	78%
84654	SPZ1							NM_032567	46.39	1.27	78%
4950	OCLN					Y		BC029886	45.19	1.27	78%
1238	CCBP2							NM_001296	53.69	1.27	78%
93487	C14orf32			Y				NM_144578	122.78	1.28	78%
57708	MIER1							BC017423	41.81	1.28	78%
55602	CDKN2AIP							BC022270	26.31	1.29	78%
6769	STAC							BC020221	68.44	1.30	78%
9121	SLC16A5							NM_004695	45.42	1.31	78%
5104	SERPINA5		Y	Y				NM_000624	50.50	1.32	78%
210	ALAD		Y	Y				BC000977	50.36	1.32	78%

84612	PARD6B								BC060847	49.86	1.32	78%
7741	ZNF187								NM_152736	131.58	1.34	78%
3614	IMPDH1								NM_183243	30.47	1.34	78%
1457	CSNK2A1								BC011668	65.72	1.35	78%
10205	MPZL2					Y	Y		NM_005797	24.83	1.35	78%
9467	SH3BP5								NM_004844	29.33	1.35	78%
23483	TGDS								NM_014305	55.11	1.37	78%
3309	HSPA5								NM_005347	67.11	1.37	78%
5238	PGM3								BC001258	46.33	1.37	78%
54677	CROT								BC051874	30.19	1.39	78%
27071	DAPP1							Y	BC012924	40.33	1.40	78%
140462	ASB9		Y	Y					BC001244	81.81	1.41	78%
10325	RRAGB								BC034726	42.64	1.42	78%
80012	PHC3								BC022325	22.42	1.42	78%
84128	WDR75								NM_032168	48.94	1.43	78%
79777	ACBD4		Y	Y					BC041143	42.28	1.43	78%
397	ARHGDI3							Y	NM_001175	38.86	1.44	78%
4635	MYL4					Y	Y		NM_002476	40.89	1.44	78%
51316	PLAC8								NM_016619	74.69	1.45	78%
10476	ATP5H								NM_006356	31.47	1.45	78%
4869	NPM1								BC009623	72.64	1.46	78%
54093	SETD4								NM_001007258	48.14	1.46	78%
79767	ELMO3								NM_024712	42.56	1.48	78%
6396	SEC13			Y					NM_030673	45.97	1.48	78%
58505	DC2								NM_021227	44.36	1.48	78%
9801	MRPL19			Y					NM_014763	20.28	1.49	78%
90338	ZNF160								BC000807	85.22	1.49	78%
5892	RAD51L3								BC002723	32.39	1.50	78%
1193	CLIC2	Y							BC022305	64.97	1.50	78%
995	CDC25C							Y	NM_001790	177.06	1.51	78%
10445	MCRS1								NM_006337	81.69	1.52	78%
9514	GAL3ST1								BC014649	33.56	1.52	78%
9275	BCL7B								NM_001707	33.03	1.52	78%
124402	FAM100A								NM_145253	23.47	1.53	78%
51375	SNX7								NM_152238	46.28	1.53	78%
10616	RBCK1								BC015219	36.58	1.53	78%
1353	COX11			Y					BC005895	40.58	1.53	78%
55858	TMEM165								BC003545	45.50	1.53	78%
1280	COL2A1								BC007252	50.94	1.53	78%
10746	MAP3K2								NM_006609	86.19	1.54	78%
344	APOC2		Y	Y					NM_000483	28.42	1.54	78%
55311	ZNF444								BC021282	53.22	1.54	78%
57348	TTYH1								BC019358	51.14	1.54	78%
1478	CSTF2								NM_001325	73.11	1.55	78%
5888	RAD51								NM_133487	59.53	1.55	78%
7172	TPMT			Y					BC005339	15.36	1.57	78%
91419	XRCC6BP1								BC033881	14.14	1.57	78%
5048	PAFAH1B1								NM_000430	30.61	1.57	78%
9818	NUPL1								NM_014089	53.06	1.57	78%
55742	PARVA	Y							NM_018222	32.86	1.57	78%
114793	FMNL2								BC036492	56.42	1.58	78%
55529	TMEM55A								NM_018710	54.42	1.58	78%

83448	PUS7L							BC033621	213.19	1.58	78%
9158	FIBP							NM_004214	79.92	1.58	78%
10067	SCAMP3							NM_005698	39.42	1.58	78%
57678	GPAM							BC030783	56.42	1.59	78%
60343	FAM3A							BC008912	39.06	1.59	78%
118813	ZFYVE27							NM_144588	36.19	1.60	78%
93323	NY-SAR-48							BC010176	55.83	1.60	78%
78999	LRFN4							BC027475	26.56	1.60	78%
3047	HBG1							NM_000559	42.47	1.61	78%
55617	TASP1							BC025266	130.75	1.61	78%
51759	C9orf78							NM_016520	57.14	1.61	78%
25830	SULT4A1							BC022459	61.28	1.61	78%
378	ARF4							NM_001660	38.97	1.61	78%
6327	SCN2B							NM_004588	42.83	1.61	78%
10982	MAPRE2							NM_014268	40.75	1.62	78%
10261	IGSF6							BC017844	34.17	1.62	78%
8615	VDP							BC032654	70.03	1.62	78%
8187	ZNF239							BC026030	38.36	1.63	78%
2272	FHIT							NM_002012	29.28	1.63	78%
2257	FGF12					Y		BC022524	62.61	1.64	78%
10136	ELA3A							BC007028	66.11	1.64	78%
9221	NOLC1							BC006769	30.42	1.65	78%
79012	CAMKV							NM_024046	62.56	1.65	78%
9061	PAPSS1							BC011392	36.42	1.68	78%
79037	PVRIG							BC001129	28.94	1.69	78%
79958	DENND1C							BC033437	36.17	1.70	78%
539	ATP5O							NM_001697	88.08	1.71	78%
6293	VPS52							BC032108	116.94	1.71	78%
9925	ZBTB5							NM_014872	20.64	1.72	78%
10100	TSPAN2	Y						NM_005725	31.42	1.72	78%
1269	CNR2					Y		NM_001841	24.89	1.72	78%
9531	BAG3							NM_004281	56.94	1.72	78%
283643	C14orf80					Y		NM_173608	48.97	1.73	78%
2246	FGF1	Y	Y					NM_000800	52.50	1.73	78%
6616	SNAP25					Y	Y	NM_003081	168.39	1.74	78%
9446	GSTO1							NM_004832	154.44	1.74	78%
23034	SAMD4A					Y		BC057838	47.06	1.74	78%
6575	SLC20A2							NM_006749	32.06	1.75	78%
2887	GRB10							NM_001001550	32.72	1.75	78%
55147	RBM23							NM_018107	79.78	1.75	78%
5305	PIP5K2A	Y						NM_005028	38.67	1.75	78%
6812	STXBP1							BC015749	32.44	1.75	78%
25953	PNKD							NM_015488	37.33	1.76	78%
2571	GAD1							BC026349	56.00	1.76	78%
1454	CSNK1E							NM_001894	53.42	1.78	78%
57654	KIAA1530							BC021930	39.14	1.78	78%
2781	GNAZ							BC037333	22.86	1.79	78%
1579	CYP4A11		Y	Y				BC022851	29.86	1.79	78%
55266	TMEM19			Y				NM_018279	37.33	1.79	78%
23092	ARHGAP26							BC068555	58.61	1.80	78%
65008	MRPL1							NM_020236	211.08	1.80	78%
10558	SPTLC1							NM_178324	35.72	1.80	78%

56882	CDC42SE1							NM_020239	91.42	1.81	78%
7867	MAPKAPK3							BC001662	105.75	1.81	78%
64859	OBFC2A			Y				BC017114	28.75	1.81	78%
10278	EFS						Y	NM_032459	59.53	1.83	78%
255057	C19orf26							NM_152769	94.06	1.83	78%
28981	IFT81							NM_031473	26.11	1.84	78%
9212	AURKB						Y	BC000442	40.36	1.84	78%
9051	PSTPIP1						Y	NM_003978	99.08	1.85	78%
57568	SIPA1L2							BC013119	58.69	1.85	78%
1465	CSRP1							NM_004078	45.67	1.85	78%
7004	TEAD4							BC015497	67.22	1.85	78%
146705	C17orf56							NM_144679	173.44	1.85	78%
83549	UCK1							BC015547	37.92	1.87	78%
1026	CDKN1A							NM_078467	30.94	1.89	78%
23244	SCC-112							BC009650	81.97	1.89	78%
65259	C16orf28							NM_023076	33.19	1.89	78%
866	SERPINA6							BC056259	21.14	1.90	78%
7047	TGM4						Y	BC007003	28.33	1.90	78%
27042	C1orf107							BC022964	26.17	1.91	78%
85403	EAF1							NM_033083	30.97	1.91	78%
26523	EIF2C1							BC063275	48.11	1.93	78%
10900	RPIP8							NM_006695	102.06	1.93	78%
4869	NPM1							BC009623	113.11	1.95	78%
55650	PIGV							NM_017837	22.22	1.95	78%
8915	BCL10							BC053617	41.08	1.96	78%
65258	MPPE1							BC002877	27.89	1.96	78%
147798	TMC4							BC032477	56.94	1.97	78%
5756	TWF1							BC022344	88.81	1.97	78%
2029	ENSA							NM_004436	40.22	1.98	78%
229	ALDOB	Y	Y	Y				BC029399	47.94	1.98	78%
8519	IFITM1	Y						BC000897	49.53	1.98	78%
65008	MRPL1							NM_020236	46.19	2.00	78%
11069	RAPGEF4	Y						BC040183	13.69	2.02	78%
4593	MUSK							NM_005592	78.89	2.02	78%
84057	MND1						Y	NM_032117	100.72	2.03	78%
3065	HDAC1							NM_004964	33.61	2.03	78%
51343	FZR1			Y				BC013413	28.44	2.04	78%
28991	COMMD5							NM_014066	51.67	2.04	78%
22902	RUFY3							BC051716	156.94	2.04	78%
7345	UCHL1							NM_004181	174.67	2.06	78%
29968	PSAT1		Y	Y				BC016645	357.69	2.07	78%
533	ATP6V0B							BC005876	18.89	2.07	78%
29896	TRA2A							NM_013293	19.28	2.11	78%
10075	HUWE1							NM_031407	13.86	2.11	78%
256586	LYSMD2							BC022075	17.06	2.12	78%
9097	USP14							NM_005151	16.42	2.12	78%
1022	CDK7						Y	NM_001799	23.39	2.13	78%
5504	PPP1R2							NM_006241	40.14	2.15	78%
51765	RP6-213H19.1					Y	Y	NM_016542	106.89	2.16	78%
4953	ODC1							NM_002539	64.94	2.18	78%
57602	USP36							BC038983	22.97	2.19	78%
6748	SSR4							NM_006280	23.17	2.20	78%

92703	TMEM183A							BC013073	58.31	2.21	78%
54478	FAM64A						Y	BC013966	390.67	2.23	78%
5639	PRRG2							BC026032	19.69	2.24	78%
8870	IER3							NM_003897	183.92	2.25	78%
26063	DECR2		Y	Y				NM_020664	90.36	2.27	78%
493856	ZCD2							NM_001008388	29.97	2.28	78%
126282	TNFAIP8L1	Y		Y				NM_152362	48.19	2.30	78%
5478	PPIA							BC005982	57.50	2.32	78%
2077	ERF							BC022231	19.67	2.32	78%
4800	NFYA							BC039244	31.83	2.32	78%
84305	WIBG							NM_032345	229.72	2.32	78%
4688	NCF2						Y	BC001606	258.92	2.32	78%
9457	FHL5							BC021723	27.69	2.39	78%
6093	ROCK1	Y						NM_005406	58.22	2.39	78%
30968	STOML2							BC010152	108.61	2.40	78%
10783	NEK6			Y				BC012761	38.75	2.40	78%
6778	STAT6							BC005823	29.47	2.40	78%
5590	PRKCZ			Y				NM_002744	123.00	2.41	78%
339122	RAB43							NM_198490	19.81	2.41	78%
85300	ATCAY							NM_033064	226.03	2.44	78%
284	ANGPT1							BC029406	32.33	2.45	78%
131616	TMEM42							NM_144638	14.08	2.46	78%
55841	WWC3	Y						BC035601	59.00	2.47	78%
10458	BAIAP2	Y		Y				BC014020	159.25	2.61	78%
9139	CBFA2T2							BC015066	75.14	2.61	78%
11326	VSIG4						Y	NM_007268	10.42	2.67	78%
5613	PRKX							NM_005044	101.64	2.70	78%
55783	FLJ11171							BC034468	11.25	2.77	78%
83939	EIF2A							BC011885	114.25	2.78	78%
1382	CRABP2						Y	NM_001878	234.72	2.78	78%
57561	ARRDC3			Y				NM_020801	18.72	2.82	78%
5121	PCP4						Y	BC013791	63.22	2.83	78%
10726	NUDC							BC003132	98.42	2.91	78%
10959	TMED2							NM_006815	14.53	2.94	78%
10302	SNAPC5							BC014315	11.75	2.96	78%
56891	LGALS14						Y	BC022257	40.58	2.98	78%
64718	UNKL							BC011924	47.25	3.04	78%
50619	DEF6						Y	BC017504	8.78	3.07	78%
5563	PRKAA2							NM_006252	28.00	3.08	78%
201134	CCDC46							BC029524	77.58	3.15	78%
51105	PHF20L1							BC056413	11.33	3.17	78%
1760	DMPK							NM_004409	268.17	3.38	78%
54959	ODAM			Y				NM_017855	21.61	3.47	78%
5932	RBBP8							BC030590	27.97	3.63	78%
3980	LIG3							NM_013975	133.97	3.63	78%
23318	ZCCHC11							BC048301	57.64	3.87	78%
6118	RPA2							NM_002946	24.94	4.23	78%
5593	PRKG2							NM_006259	66.86	4.26	78%
84078	KBTBD7							NM_032138	19.33	4.84	78%
51651	PTRH2							NM_016077	11.53	5.32	78%
79734	KCTD17						Y	BC009961	32.39	5.84	78%
50619	DEF6						Y	BC017504	11.00	6.02	78%

8934	RAB7L1								NM_003929	10.58	6.83	78%
57162	PEL1								NM_020651	7.83	7.33	78%
4706	NDUFAB1								BC058920	8.47	8.04	78%
5693	PSMB5								BC057840	6.25	9.80	78%
144097	LOC144097								BC056402	20.17	11.41	78%
84720	PIGO								NM_152850	7.56	17.89	78%
3959	LGALS3BP								NM_005567	3.72	23.27	78%
5579	PRKCB1						Y		NM_002738	2.47	34.20	78%
51308	REEP2								NM_016606	1.44	88.69	78%
51374	C2orf28								BC011006	-2.72	-36.41	72%
79712	GTDC1							Y	BC061699	-3.75	-28.64	72%
121053	C12orf45								NM_152318	-9.50	-20.36	72%
64327	LMBR1								NM_022458	-25.92	-20.26	72%
515	ATP5F1								NM_001688	-7.19	-12.44	72%
23580	CDC42EP4								BC010451	-180.78	-4.93	72%
881	CCIN								NM_005893	43.69	1.19	72%
974	CD79B							Y	BC030210	49.14	1.22	72%
8448	DOC2A								BC041769	28.83	1.23	72%
80210	ARMC9								BC004514	228.72	1.24	72%
9529	BAG5								NM_004873	71.39	1.25	72%
4241	MFI2				Y	Y	Y		NM_033316	69.78	1.26	72%
23588	KLHDC2								NM_014315	34.25	1.26	72%
9111	NMI								BC021987	34.75	1.27	72%
90121	TSR2								NM_058163	168.14	1.29	72%
6901	TAZ								BC011515	51.69	1.30	72%
55510	DDX43								BC066938	141.36	1.30	72%
1211	CLTA								NM_001833	53.00	1.31	72%
84901	NFATC2IP								BC021551	64.22	1.31	72%
5791	PTPRE							Y	NM_006504	19.19	1.34	72%
84969	C20orf100	Y							NM_032883	17.92	1.34	72%
147685	C19orf18								NM_152474	61.28	1.34	72%
3664	IRF6							Y	NM_006147	48.00	1.34	72%
9982	FGFBP1						Y		NM_005130	32.39	1.34	72%
9570	GOSR2								BC009710	34.83	1.35	72%
160140	C11orf65								NM_152587	23.83	1.36	72%
11344	TWF2								NM_007284	122.14	1.37	72%
5747	PTK2								NM_153831	98.47	1.37	72%
56957	OTUD7B								BC020622	84.47	1.37	72%
79643	CHMP6								NM_024591	20.06	1.38	72%
23209	MLC1								BC028425	41.69	1.38	72%
673	BRAF								NM_004333	60.42	1.38	72%
25906	C11orf51								NM_014042	79.50	1.39	72%
10728	PTGES3								NM_006601	25.25	1.39	72%
5684	PSMA3								NM_002788	32.72	1.39	72%
2331	FMOD							Y	BC035281	32.08	1.40	72%
241	ALOX5AP							Y	NM_001629	48.75	1.40	72%
40	ACCN1								NM_001094	60.47	1.41	72%
79568	C2orf47								BC017959	54.44	1.42	72%
5601	MAPK9								BC032539	104.94	1.43	72%
7337	UBE3A								BC002582	106.14	1.43	72%
57045	TWSG1						Y		NM_020648	60.56	1.43	72%
4175	MCM6								NM_005915	115.31	1.44	72%

1788	DNMT3A							NM_175630	69.97	1.45	72%
83862	TMPIT			Y				BC051850	48.22	1.45	72%
84522	JAGN1							BC032101	84.19	1.45	72%
54457	TAF7L							BC043391	37.72	1.45	72%
83892	KCTD10							NM_031954	27.97	1.45	72%
5786	PTPRA							NM_080840	43.33	1.45	72%
57573	ZNF471							BC028227	38.17	1.45	72%
3613	IMPA2		Y	Y				NM_014214	57.19	1.46	72%
1956	EGFR							NP_005219	195.72	1.47	72%
5865	RAB3B							NM_002867	79.33	1.47	72%
5562	PRKAA1							NM_006251	132.69	1.47	72%
55754	TMEM30A							BC009006	90.75	1.48	72%
90529	C1orf201							NM_178122	35.06	1.48	72%
9489	PGS1							NM_024419	30.56	1.48	72%
7918	BAT4							NM_033177	28.42	1.48	72%
11183	MAP4K5							NM_006575	103.72	1.48	72%
10461	MERTK							NM_006343	49.33	1.48	72%
84632	AFAP1L2					Y		NM_001001936	88.97	1.49	72%
327	APEH							NM_001640	72.97	1.49	72%
10307	APBB3							BC013158	34.67	1.50	72%
8498	RANBP3							BC004349	32.39	1.50	72%
80011	NIP30							NM_024946	50.94	1.51	72%
23338	PHF15							BC004292	174.28	1.51	72%
79754	ASB13							BC012056	22.22	1.51	72%
55304	SPTLC3		Y	Y				NM_018327	37.67	1.52	72%
115825	WDFY2							NM_052950	33.72	1.53	72%
7416	VDAC1			Y				NM_003374	23.78	1.53	72%
3788	KCNS2							NM_020697	35.36	1.53	72%
51642	MRPL48							BC009764	30.36	1.54	72%
6856	SYPL1							NM_006754	60.67	1.54	72%
10193	RNF41		Y	Y				NM_005785	30.47	1.54	72%
199964	TMEM61					Y		BC029775	49.47	1.54	72%
84632	AFAP1L2					Y		NM_001001936	261.39	1.55	72%
9619	ABCG1					Y		BC029158	30.92	1.55	72%
112817	C10orf65		Y	Y				NM_138413	60.56	1.55	72%
4154	MBNL1							NM_021038	42.33	1.55	72%
8802	SUCLG1		Y	Y				BC000504	19.28	1.56	72%
10209	EIF1							NM_005801	66.31	1.56	72%
23197	UBXD8							BC014001	51.22	1.56	72%
22931	RAB18							NM_021252	64.33	1.56	72%
23089	PEG10					Y		NM_015068	52.78	1.56	72%
9344	TAOK2							NM_004783	76.11	1.56	72%
55339	WDR33					Y		BC013990	35.47	1.56	72%
440556	FLJ42875					Y		BC029785	30.78	1.57	72%
91574	FLJ38663							BC020885	42.36	1.57	72%
57728	WDR19							BC032578	32.83	1.57	72%
10607	TBL3							NM_006453	49.14	1.57	72%
3590	IL11RA							NM_004512	62.44	1.57	72%
7164	TPD52L1					Y		NM_001003396	71.92	1.57	72%
55239	OGFOD1							BC032919	21.86	1.58	72%
9776	KIAA0652							BC006191	34.42	1.58	72%
255119	C4orf22							NM_152770	86.67	1.58	72%

6734	SRPR								BC008077	55.56	1.59	72%
5440	POLR2K								NM_005034	31.06	1.59	72%
83450	LRRC48								BC050419	43.17	1.59	72%
6789	STK4							Y	NM_006282	78.56	1.59	72%
55324	ABCF3								BC009253	90.33	1.59	72%
94101	ORMDL1								NM_016467	83.89	1.60	72%
834	CASP1							Y	NM_033293	34.11	1.60	72%
8443	GNPAT								BC000450	24.58	1.60	72%
9802	DAZAP2								NM_014764	43.36	1.61	72%
375484	C5orf25								NM_198567	40.06	1.61	72%
284680	C1orf111								BC032957	30.08	1.61	72%
27258	LSM3								NM_014463	42.50	1.61	72%
50717	WDR42A				Y				BC013107	39.81	1.62	72%
5110	PCMT1								BC008748	22.94	1.62	72%
140767	NRSN1								BC023514	52.31	1.63	72%
55191	NADSYN1								BC003666	72.61	1.63	72%
2739	GLO1								BC001741	50.31	1.63	72%
10948	STARD3								NM_006804	52.22	1.63	72%
92714	ARRDC1							Y	NM_152285	19.47	1.64	72%
6253	RTN2								BC014244	79.86	1.64	72%
23583	SMUG1								BC000417	47.08	1.64	72%
7390	UROS								NM_000375	63.19	1.64	72%
823	CAPN1								BC015091	30.58	1.64	72%
56648	EIF5A2								NM_020390	13.78	1.64	72%
6398	SECTM1								NM_003004	43.94	1.64	72%
23543	RBM9								BC013115	49.28	1.64	72%
7551	ZNF3								BC008031	21.42	1.64	72%
8418	CMAH	Y							BC022302	48.56	1.65	72%
65264	UBE2Z								NM_023079	39.69	1.65	72%
51003	MED31								BC012539	38.39	1.65	72%
9636	ISG15	Y							BC009507	18.28	1.65	72%
23545	ATP6V0A2								BC022300	24.72	1.65	72%
84936	ZFYVE19								BC015738	60.14	1.66	72%
56270	WDR45L								NM_019613	18.22	1.66	72%
6717	SRI								NM_003130	36.83	1.66	72%
10010	TANK								NM_133484	110.22	1.67	72%
80317	ZNF306								NM_024493	70.86	1.67	72%
55207	ARL8B								NM_018184	57.89	1.68	72%
63874	ABHD4								NM_022060	40.69	1.68	72%
10069	C21orf6								NM_016940	62.56	1.68	72%
51647	FAM96B								NM_016062	186.31	1.68	72%
93627	MGC16169								NM_033115	30.47	1.69	72%
4209	MEF2D								BC054520	187.00	1.69	72%
144233	LOC144233								BC053560	179.47	1.69	72%
127733	UBXD3								NM_152376	100.92	1.69	72%
154881	KCTD7								BC042482	88.75	1.69	72%
3306	HSPA2				Y				BC036107	65.72	1.69	72%
51231	VRK3								NM_016440	111.53	1.70	72%
253725	FAM21C								BC006456	94.42	1.70	72%
2873	GPS1				Y				NM_212492	24.83	1.70	72%
2958	GTF2A2								NM_004492	43.72	1.70	72%
7001	PRDX2								NM_181738	91.11	1.70	72%

29903	CCDC106							BC000412	30.25	1.70	72%
143098	MPP7							BC038105	73.64	1.71	72%
22934	RPIA							NM_144563	75.69	1.71	72%
51324	SPG21							NM_016630	32.19	1.71	72%
23062	GGA2							BC000284	25.58	1.71	72%
11315	PARK7							NM_007262	62.83	1.71	72%
27285	TEKT2							NM_014466	52.92	1.72	72%
5704	PSMC4			Y				NM_153001	37.75	1.72	72%
79077	XTP3TPA							NM_024096	117.42	1.72	72%
55094	GPATCH1							NM_018025	112.28	1.73	72%
782	CACNB1					Y		NM_000723	45.11	1.73	72%
9060	PAPSS2							BC009894	67.64	1.73	72%
79092	CARD14							BC018142	43.97	1.74	72%
83988	NCALD			Y				BC009949	44.64	1.74	72%
112849	C14orf149		Y	Y				BC012131	29.92	1.74	72%
4602	MYB			Y				NM_005375	26.11	1.74	72%
50999	TMED5							BC016365	32.83	1.74	72%
2582	GALE		Y	Y				NM_000403	23.89	1.75	72%
7627	ZNF75A							BC051366	74.36	1.75	72%
29777	ABT1							NM_013375	224.00	1.75	72%
10081	PDCD7							BC016992	36.56	1.75	72%
142940	TRUB1							NM_139169	107.25	1.76	72%
271	AMPD2							NM_139156	48.31	1.76	72%
808	CALM3						Y	BC006182	12.78	1.76	72%
84916	CIRH1A		Y	Y				BC009348	233.28	1.76	72%
25855	BRMS1							NM_015399	31.33	1.77	72%
58529	MYOZ1	Y						NM_021245	27.06	1.77	72%
725	C4BPB						Y	BC005378	38.08	1.77	72%
55351	STK32B		Y					NM_018401	57.75	1.77	72%
80227	WDR71							BC006142	27.92	1.78	72%
10095	ARPC1B					Y	Y	NM_005720	50.00	1.78	72%
55272	IMP3							NM_018285	17.25	1.78	72%
10253	SPRY2							NM_005842	27.14	1.78	72%
51495	PTPLAD1							BC058912	60.97	1.78	72%
10673	TNFSF13B						Y	NM_006573	38.72	1.79	72%
79017	C7orf24							NM_024051	32.50	1.79	72%
79657	FLJ21908							BC056415	57.19	1.79	72%
11218	DDX20							BC011556	56.67	1.80	72%
1021	CDK6	Y						NM_001259	52.53	1.80	72%
54962	TIPIN							BC000870	41.61	1.80	72%
11060	WWP2						Y	BC000108	43.06	1.80	72%
84675	TRIM55							BC007750	39.67	1.81	72%
26750	RPS6KC1							NM_012424	61.08	1.81	72%
83887	TTLL2							BC047411	73.64	1.81	72%
79155	TNIP2							NM_024309	146.67	1.82	72%
275	AMT							BC007546	69.56	1.82	72%
51021	MRPS16							NM_016065	65.28	1.82	72%
4957	ODF2							NM_002540	54.33	1.82	72%
6398	SECTM1							NM_003004	36.44	1.82	72%
25804	LSM4							NM_012321	20.78	1.83	72%
3669	ISG20						Y	NM_002201	107.22	1.83	72%
81532	HCCA2							NM_053005	68.19	1.83	72%

51528	C14orf100							NM_016475	41.19	1.83	72%
10783	NEK6			Y				BC012761	33.64	1.84	72%
5829	PXN							BC052611	46.92	1.84	72%
57862	ZNF410							BC050683	27.14	1.84	72%
10232	MSLN					Y		BC003512	31.17	1.84	72%
158427	C9orf97							BC022958	30.06	1.84	72%
55319	FLJ11184							BC011842	92.22	1.85	72%
7375	USP4							NM_003363	24.33	1.85	72%
26043	UBXD7							BC047420	25.36	1.85	72%
1390	CREM					Y		BC017117	30.28	1.85	72%
2039	EPB49							BC006318	35.64	1.86	72%
219402	MTIF3							NM_152912	33.81	1.86	72%
10455	PECI		Y	Y				NM_006117	29.61	1.87	72%
10267	RAMP1							NM_005855	79.67	1.87	72%
1153	CIRBP							NM_001280	97.42	1.87	72%
652968	LOC652968							BC021927	30.28	1.87	72%
28981	IFT81							NM_031473	94.61	1.87	72%
5375	PMP2							NM_002677	38.39	1.87	72%
1727	CYB5R3							NM_000398	28.78	1.87	72%
3094	HINT1							NM_005340	45.28	1.87	72%
9764	KIAA0513							BC030280	36.83	1.87	72%
730092	LOC730092	Y					Y	NM_145237	50.14	1.88	72%
5594	MAPK1							NM_002745	34.75	1.89	72%
462	SERPINC1							BC022309	24.72	1.89	72%
84817	TXNL5							NM_032731	94.94	1.89	72%
81573	ANKRD13C	Y		Y				BC028840	39.31	1.90	72%
7866	IFRD2							BC001327	54.25	1.90	72%
3614	IMPDH1							NM_183243	75.83	1.90	72%
3338	DNAJC4							BC044584	39.33	1.90	72%
1106	CHD2							BC007347	60.14	1.90	72%
200576	PIP5K3							NM_152671	13.00	1.91	72%
3364	HUS1							NM_004507	48.86	1.91	72%
133874	LOC133874							BC030767	15.28	1.93	72%
5270	SERPINE2						Y	NM_006216	24.25	1.93	72%
51322	WAC							BC010356	28.72	1.93	72%
595	CCND1							NM_053056	32.03	1.93	72%
124401	ANKS3							BC050387	46.39	1.93	72%
6209	RPS15						Y	NM_001018	81.22	1.93	72%
57117	INTS12							NM_020395	34.17	1.94	72%
1022	CDK7						Y	NM_001799	16.31	1.94	72%
51252	LOC51252						Y	BC038583	40.83	1.94	72%
124790	HEXIM2			Y				NM_144608	73.94	1.94	72%
5691	PSMB3							NM_002795	59.47	1.94	72%
8314	BAP1							NM_004656	100.42	1.95	72%
51776	ZAK						Y	NM_016653	64.00	1.95	72%
64089	SNX16							NM_022133	19.92	1.95	72%
130026	ICA1L					Y	Y	NM_138468	49.69	1.95	72%
64081	PBLD		Y	Y				BC009738	41.19	1.96	72%
53944	CSNK1G1							BC017236	26.64	1.96	72%
55647	RAB20							NM_017817	28.97	1.97	72%
55020	FLJ20699		Y	Y				BC018918	30.92	1.97	72%
51567	TTRAP			Y				NM_016614	29.03	1.97	72%

4618	MYF6							NM_002469	50.69	1.97	72%
7060	THBS4							BC050456	30.08	1.98	72%
11245	GPR176							NM_007223	53.72	1.98	72%
90203	SNX21							BC019823	43.86	1.98	72%
11329	STK38							NM_007271	24.92	1.98	72%
868	CBLB	Y						BC032851	124.53	1.99	72%
8544	PIR						Y	NM_003662	96.86	1.99	72%
113510	HEL308							BC011863	32.22	1.99	72%
23154	NCDN							NM_014284	18.17	1.99	72%
8773	SNAP23							NM_003825	15.94	1.99	72%
10542	HBXIP							NM_006402	42.08	2.00	72%
84946	LTV1							NM_032860	42.61	2.00	72%
84934	C12orf52							NM_032848	28.69	2.00	72%
6642	SNX1							NM_003099	50.31	2.01	72%
5763	PTMS					Y		BC017025	49.42	2.01	72%
6733	SRPK2							NM_182692	193.25	2.01	72%
114897	C1QTNF1							NM_030968	18.28	2.01	72%
2113	ETS1							BC017314	23.44	2.01	72%
8449	DHX16							BC008825	32.61	2.01	72%
5210	PFKFB4					Y		NM_004567	40.89	2.02	72%
2824	GPM6B							NM_001001996	61.56	2.02	72%
8650	NUMB							BC033824	10.25	2.02	72%
5829	PXN							BC052611	67.89	2.02	72%
57179	KIAA1191			Y				NM_020444	358.56	2.02	72%
9748	SLK							NM_014720	136.94	2.03	72%
81544	GDPD5							BC020203	50.08	2.03	72%
56931	DUS3L			Y				NM_020175	53.78	2.03	72%
51239	ANKRD39							NM_016466	44.83	2.03	72%
28974	C19orf53							NM_014047	139.92	2.03	72%
9528	TMEM59						Y	BC003106	28.56	2.04	72%
85409	NKD2						Y	BC012176	58.44	2.04	72%
80013	C10orf97					Y		BC020605	42.39	2.04	72%
130074	LOC130074							NM_001009993	60.42	2.05	72%
7298	TYMS							NM_001071	32.19	2.05	72%
27128	PSCD4						Y	NM_013385	59.19	2.05	72%
7296	TXNRD1							BC018122	54.22	2.06	72%
2775	GNAO1							BC030027	30.17	2.06	72%
121536	AEBP2							NM_153207	151.03	2.07	72%
8100	IFT88							BC030776	16.94	2.07	72%
1859	DYRK1A							NM_001396	23.61	2.07	72%
5272	SERPINB9	Y						NM_004155	27.86	2.07	72%
91937	TIMD4							NM_138379	14.83	2.07	72%
8445	DYRK2						Y	NM_003583	41.53	2.07	72%
23673	STX12							NM_177424	31.36	2.08	72%
2961	GTF2E2							NM_002095	43.17	2.08	72%
64094	SMOC2						Y	BC047583	34.22	2.08	72%
4355	MPP2							BC030287	28.14	2.08	72%
23678	SGK3							NM_013257	30.00	2.08	72%
51372	CCDC72							NM_015933	54.56	2.08	72%
1942	EFNA1							BC032698	36.78	2.09	72%
51095	TRNT1						Y	NM_016000	72.94	2.10	72%
9577	BRE							NM_199191	24.67	2.10	72%

7076	TIMP1							Y	NM_003254	23.58	2.10	72%
8672	EIF4G3								BC030578	22.47	2.10	72%
29957	SLC25A24								BC029377	30.53	2.10	72%
2978	GUCA1A								BC031663	37.75	2.10	72%
115752	DIS3L								NM_133375	31.53	2.11	72%
79629	OCEL1								NM_024578	27.67	2.11	72%
1456	CSNK1G3								NM_004384	36.81	2.11	72%
5058	PAK1								BC050377	18.75	2.11	72%
5965	RECQL								BC001052	88.97	2.11	72%
9455	HOMER2								BC012109	50.67	2.12	72%
51389	RWDD1								BC015802	32.83	2.12	72%
64225	ARL6IP2			Y					BC053508	29.17	2.12	72%
51386	EIF3S6IP								NM_016091	21.39	2.13	72%
4493	MT1E		Y	Y					BC009699	15.03	2.13	72%
5433	POLR2D								BC010427	63.25	2.13	72%
8801	SUCLG2			Y					NM_003848	130.61	2.14	72%
94015	TTYH2							Y	BC004233	36.61	2.15	72%
54097	FAM3B								BC057829	20.44	2.15	72%
80007	C10orf88								BC032645	51.11	2.15	72%
57189	KIAA1147			Y					BC012493	23.97	2.16	72%
84108	PCGF6							Y	BC007602	64.83	2.16	72%
171546	C14orf147							Y	NM_138288	27.11	2.17	72%
81887	LAS1L								BC019302	26.58	2.18	72%
3029	HAGH		Y	Y					NM_005326	18.47	2.18	72%
35	ACADS		Y	Y					BC025963	29.11	2.18	72%
51397	COMMD10								NM_016144	10.00	2.18	72%
6566	SLC16A1			Y					BC026317	33.39	2.19	72%
8560	DEGS1								BC000961	40.72	2.20	72%
55048	VPS37C								NM_017966	21.19	2.20	72%
5910	RAP1GDS1								NM_021159	19.78	2.20	72%
58490	C20orf77								BC033629	68.31	2.21	72%
29993	PACSIN1								NM_020804	31.50	2.21	72%
3766	KCNJ10		Y				Y		BC034036	25.14	2.22	72%
4294	MAP3K10								NM_002446	159.86	2.22	72%
128414	C20orf58			Y					NM_152864	21.39	2.22	72%
9655	SOCS5								BC032862	17.36	2.22	72%
23367	LARP1								BC033856	190.22	2.23	72%
6242	RTKN			Y					NM_033046	140.44	2.23	72%
57136	C20orf3								NM_020531	31.97	2.24	72%
54065	C21orf51								BC015596	10.25	2.24	72%
25987	TSKU								BC020975	16.44	2.24	72%
79019	CENPM							Y	NM_024053	48.00	2.24	72%
10558	SPTLC1								NM_178324	29.22	2.25	72%
2117	ETV3							Y	NM_005240	27.36	2.25	72%
51116	MRPS2								NM_016034	46.53	2.26	72%
4276	MICA	Y							BC016929	39.92	2.26	72%
54802	TRIT1								BC010741	18.94	2.26	72%
26355	C3orf28								BC010896	19.36	2.27	72%
64792	RABL5								NM_022777	32.61	2.27	72%
9196	KCNAB3								NM_004732	191.36	2.28	72%
144699	FBXL14								NM_152441	18.56	2.28	72%
8318	CDC45L								NM_003504	37.58	2.28	72%

6715	SRD5A1							NM_001047	30.53	2.29	72%
65977	PLEKHA3							BC044567	39.61	2.29	72%
11082	ESM1	Y	Y	Y				BC011989	20.64	2.30	72%
10400	PEMT							BC000557	33.31	2.30	72%
494143	CHAC2							BC019239	50.00	2.30	72%
5866	RAB3IL1			Y				NM_013401	56.78	2.30	72%
5530	PPP3CA							BC025714	16.00	2.32	72%
28513	CDH19							BC015877	13.08	2.32	72%
1018	CDK3							NM_001258	12.28	2.33	72%
129446	CMYA3							BC022888	26.25	2.34	72%
6819	SULT1C1		Y	Y				NM_001056	26.19	2.35	72%
11252	PACSIN2							BC008037	120.08	2.35	72%
7718	ZNF165							NM_003447	24.47	2.35	72%
5957	RCVRN							NM_002903	41.25	2.36	72%
79706	PRKRIP1							BC014298	41.72	2.36	72%
23710	GABARAPL1							NM_031412	168.92	2.37	72%
9667	SAFB2		Y	Y				BC025279	26.19	2.37	72%
331	BIRC4		Y	Y				NM_001167	145.31	2.38	72%
26155	NOC2L							BC003555	114.22	2.38	72%
55120	FANCL							BC054517	27.58	2.38	72%
23205	ACSBG1							BC009289	28.17	2.38	72%
9128	PRPF4							NM_004697	24.17	2.39	72%
3087	HHEX	Y					Y	BC014336	27.86	2.39	72%
79132	LGP2							BC014949	157.50	2.39	72%
23398	PPWD1							NM_015342	22.75	2.40	72%
26073	POLDIP2							NM_015584	60.64	2.41	72%
90933	TRIM41							BC009762	96.56	2.42	72%
57120	GOPC							BC009553	6.89	2.42	72%
64223	GBL							NM_022372	15.72	2.44	72%
27245	AHDC1							BC002677	40.72	2.45	72%
10327	AKR1A1		Y	Y				NM_153326	33.69	2.45	72%
10982	MAPRE2							NM_014268	23.17	2.45	72%
5890	RAD51L1							BC030219	49.33	2.45	72%
2584	GALK1							NM_000154	23.11	2.46	72%
5590	PRKCZ			Y				NM_002744	103.92	2.47	72%
57097	PARP11							BC031073	44.00	2.48	72%
2152	F3	Y					Y	NM_001993	16.22	2.48	72%
91647	ATPAF2							NM_145691	46.44	2.48	72%
115024	NT5C3L							NM_052935	31.81	2.49	72%
23429	RYBP							BC014959	100.47	2.50	72%
129787	TMEM18							BC032379	22.58	2.52	72%
54969	C4orf27							NM_017867	10.33	2.52	72%
29121	CLEC2D						Y	BC019883	30.75	2.52	72%
10623	POLR3C							BC004424	31.47	2.53	72%
23450	SF3B3							BC000463	13.19	2.53	72%
10083	USH1C		Y	Y				BC016057	18.92	2.54	72%
7763	ZFAND5							NM_006007	12.58	2.57	72%
7027	TFDP1							NM_007111	29.19	2.57	72%
23107	MRPS27							BC030521	45.11	2.57	72%
56940	DUSP22					Y		NM_020185	14.42	2.58	72%
64802	NMNAT1							NM_022787	43.72	2.58	72%
4109	MAGEA10							NM_021048	31.28	2.58	72%

399	RHOH								NM_004310	49.25	2.58	72%
9397	NMT2								BC006376	48.67	2.59	72%
92181	UBTD2								NM_152277	20.14	2.60	72%
4176	MCM7								BC009398	71.19	2.61	72%
1487	CTBP1								BC053320	19.89	2.62	72%
8522	GAS7								BC001152	28.28	2.62	72%
4237	MFAP2					Y	Y		NM_002403	16.50	2.62	72%
112817	C10orf65		Y	Y					NM_138413	21.61	2.63	72%
55651	NOLA2								NM_017838	164.72	2.64	72%
1070	CETN3								BC005383	15.25	2.64	72%
94274	PPP1R14A						Y		NM_033256	17.58	2.65	72%
5481	PPID								NM_005038	89.75	2.68	72%
5876	RABGGTB								NM_004582	62.81	2.69	72%
22911	WDR47								BC034964	45.61	2.69	72%
29920	PYCR2								NM_013328	16.58	2.70	72%
51633	OTUD6B								BC029760	45.50	2.72	72%
3932	LCK					Y	Y		BC013200	27.50	2.72	72%
2810	SFN								NM_006142	46.64	2.72	72%
80146	UXS1								BC009819	16.11	2.74	72%
3217	HOXB7								NM_004502	16.25	2.75	72%
117247	SLC16A10			Y					BC017968	27.72	2.75	72%
56952	PRTFDC1						Y		NM_020200	20.22	2.77	72%
8417	STX7								BC011975	28.33	2.78	72%
245711	SPDYA								NM_182756	23.00	2.78	72%
11014	KDEL2								NM_006854	30.64	2.79	72%
7170	TPM3								BC008407	23.89	2.80	72%
8208	CHAF1B								NM_005441	156.33	2.81	72%
51538	ZCCHC17								NM_016505	52.42	2.81	72%
10402	ST3GAL6	Y							NM_006100	17.19	2.82	72%
124220	LOC124220								NM_145252	20.44	2.82	72%
84542	KIAA1841								NM_032506	28.89	2.83	72%
5236	PGM1								NM_002633	27.06	2.83	72%
2632	GBE1								BC012098	15.64	2.85	72%
2030	SLC29A1								NM_004955	25.33	2.85	72%
1579	CYP4A11		Y	Y					BC022851	18.11	2.86	72%
79648	MCPH1								BC030702	32.17	2.88	72%
54859	TMEM103								BC000623	9.22	2.91	72%
5478	PPIA								BC005982	35.81	2.92	72%
10620	ARID3B								BC060824	40.50	2.93	72%
1032	CDKN2D								NM_001800	26.08	2.93	72%
2065	ERBB3		Y	Y			Y		BC002706	11.47	2.96	72%
10963	STIP1								NM_006819	101.03	2.98	72%
6199	RPS6KB2								BC006106	75.31	3.03	72%
1891	ECH1								BC011792	124.94	3.03	72%
199	AIF1	Y							NM_001623	12.72	3.03	72%
57157	PHTF2								BC032334	31.89	3.04	72%
55287	TMEM40								BC020658	42.11	3.08	72%
85480	TSLP						Y	Y	NM_138551	133.00	3.10	72%
768	CA9								NM_001216	42.92	3.10	72%
957	ENTPD5		Y	Y					BC020966	21.75	3.11	72%
219557	MGC26647								NM_152706	16.58	3.13	72%
200316	APOBEC3F							Y	BC038808	31.31	3.14	72%

51108	METTL9			Y					NM_016025	41.78	3.15	72%
6905	TBCE								NM_003193	41.67	3.17	72%
8550	MAPKAPK5								NM_003668	11.42	3.18	72%
55890	GPRC5C								BC004925	11.06	3.19	72%
401466	C8orf59								BC032347	53.19	3.20	72%
23313	C22orf9						Y		BC053595	22.47	3.22	72%
55701	FLJ10357	Y							BC000084	73.94	3.23	72%
23406	COTL1			Y					NM_021149	64.86	3.26	72%
23682	RAB38							Y	NM_022337	50.17	3.28	72%
8031	NCOA4								BC012736	78.56	3.33	72%
84866	TMEM25								BC051841	24.92	3.41	72%
9694	TTC35								NM_014673	16.50	3.43	72%
55907	CMAS								BC016609	309.11	3.46	72%
9873	FCHSD2	Y							BC010394	28.17	3.49	72%
5859	QARS								BC016634	8.64	3.50	72%
129880	BBS5								BC044593	15.92	3.52	72%
80333	KCNIP4							Y	NM_025221	62.36	3.53	72%
2048	EPHB2								NM_004442	28.81	3.53	72%
726	CAPN5								NM_004055	538.67	3.55	72%
9832	JAKMIP2							Y	NM_014790	20.11	3.61	72%
3669	ISG20							Y	NM_002201	18.78	3.61	72%
3005	H1F0				Y	Y	Y		BC029046	33.89	3.65	72%
84261	FBXW9								NM_032301	21.31	3.67	72%
55696	RBM22								NM_018047	41.89	3.70	72%
9367	RAB9A								NM_004251	265.86	3.77	72%
8428	STK24								NM_003576	15.28	3.80	72%
348235	FAM33A								BC017873	14.67	3.81	72%
56915	EXOSC5							Y	BC007742	54.33	3.81	72%
5928	RBBP4								NM_005610	56.72	3.82	72%
56900	C1orf119								NM_020141	22.67	4.01	72%
55118	CRTAC1							Y	BC034245	59.17	4.04	72%
122616	C14orf79								NM_174891	24.03	4.25	72%
219902	TMEM136							Y	NM_174926	13.00	4.27	72%
1620	DBC1								BC021560	17.92	4.27	72%
8725	C19orf2								BC026184	19.00	4.28	72%
29995	LMCD1								NM_014583	142.67	4.29	72%
6512	SLC1A7								BC000651	11.67	4.34	72%
4774	NFIA							Y	NM_005595	80.69	4.39	72%
6141	RPL18							Y	NM_000979	20.19	4.45	72%
27152	INTU								BC051698	13.67	4.50	72%
125170	SMCR7								NM_139162	8.22	4.53	72%
9399	STOML1								NM_004809	20.17	4.69	72%
23304	UBR2								BC064512	16.31	4.73	72%
123036	MTAC2D1								NM_152332	19.81	4.85	72%
23237	ARC								NM_015193	7.67	4.96	72%
7320	UBE2B								NM_003337	4.22	5.24	72%
153579	BTNL9	Y							BC062459	24.72	5.34	72%
759	CA1								NM_001738	8.94	5.41	72%
9482	STX8								NM_004853	19.44	5.53	72%
54853	WDR55								NM_017706	12.97	5.81	72%
51710	ZNF44								BC032246	20.56	5.83	72%
284273	ZADH2								NM_175907	20.86	6.17	72%

56	ACRV1							Y	NM_001612	45.72	6.21	72%
6098	ROS1								NM_002944	38.64	6.41	72%
54801	FAM29A								BC010632	26.25	6.61	72%
11278	KLF12								NM_007249	8.58	6.68	72%
3516	RBPSUH								NM_203284	114.86	6.68	72%
27301	APEX2								NM_014481	109.44	6.97	72%
2962	GTF2F1								BC000120	10.42	7.12	72%
3337	DNAJB1								NM_006145	14.61	7.14	72%
221476	PI16							Y	BC035634	10.47	7.26	72%
2868	GRK4								NM_182982	26.03	7.34	72%
399665	FAM102A							Y	NM_203305	59.50	7.36	72%
10426	TUBGCP3								BC007763	7.75	7.69	72%
115416	C7orf30								NM_138446	2.08	8.06	72%
23157	Sep6								NM_145802	11.61	8.39	72%
54778	RNF111								BC010369	102.50	8.79	72%
3958	LGALS3							Y	BC001120	11.50	8.95	72%
9862	THRAP4								NM_014815	15.39	9.76	72%
7205	TRIP6								BC002680	4.72	10.25	72%
486	FXYD2		Y	Y					NM_001680	4.39	10.31	72%
56658	TRIM39								NM_172016	6.33	10.72	72%
143241	DYDC1								NM_138812	12.50	10.89	72%
5510	PPP1R7								BC012397	4.83	10.97	72%
57408	LRTM1								BC040732	4.75	13.01	72%
57110	HRASLS								BC048095	5.22	20.10	72%
25920	COBRA1								BC011892	3.31	21.61	72%
1615	DARS								NM_001349	6.06	23.56	72%
55088	C10orf118								BC030557	3.72	32.09	72%
83461	CDCA3							Y	NM_031299	-0.25	-329.81	67%
9168	TMSB10							Y	NM_021103	-0.69	-102.01	67%
25956	SEC31B								BC044569	-2.81	-72.79	67%
1017	CDK2								BC003065	-5.89	-55.79	67%
23552	CCRK								BC002655	-3.00	-43.19	67%
10538	BATF							Y	NM_006399	-5.86	-29.62	67%
10240	MRPS31								BC022045	-1.97	-28.93	67%
9342	SNAP29		Y	Y					NM_004782	-13.72	-18.66	67%
55103	RALGPS2								NM_152663	-12.33	-18.45	67%
56910	STARD7								BC007894	-3.53	-18.37	67%
84288	EFCAB2								NM_032328	-4.06	-17.98	67%
1965	EIF2S1								NM_004094	-8.28	-16.66	67%
4361	MRE11A		Y						BC005241	-4.03	-15.74	67%
6647	SOD1								NM_000454	-15.39	-13.88	67%
5777	PTPN6								NM_080548	-10.17	-10.75	67%
51377	UCHL5								BC025369	-25.86	-8.58	67%
813	CALU								NM_001219	-89.19	-7.37	67%
117156	SCGB3A2							Y	NM_054023	-34.44	-6.94	67%
6017	RLBP1								NM_000326	-24.36	-5.01	67%
10078	TSSC4								BC050616	-49.83	-4.43	67%
4832	NME3								BC000250	47.08	1.15	67%
92597	MOBKL1A								NM_173468	18.69	1.28	67%
7083	TK1							Y	BC007872	79.86	1.31	67%
80824	DUSP16								BC042101	31.08	1.34	67%
51334	PRR16							Y	BC038838	62.19	1.37	67%

5567	PRKACB							BC035058	53.14	1.37	67%
10383	TUBB2C		Y	Y				BC029529	51.06	1.37	67%
10059	DNM1L							BC024590	56.75	1.38	67%
57704	GBA2							NM_020944	69.03	1.41	67%
269	AMHR2						Y	NM_020547	20.58	1.43	67%
2239	GPC4							NM_001448	40.36	1.44	67%
257364	SH3PX3							NM_153271	72.50	1.44	67%
54793	KCTD9							NM_017634	43.03	1.46	67%
133957	CCDC127							NM_145265	52.39	1.47	67%
8382	NME5							NM_003551	30.58	1.47	67%
7264	TSTA3							NM_003313	43.06	1.48	67%
4801	NFYB							NM_006166	74.67	1.48	67%
89891	WDR34							NM_052844	48.92	1.48	67%
10121	ACTR1A							NM_005736	38.67	1.48	67%
79364	ZXDC			Y				BC002940	31.89	1.49	67%
2004	ELK3	Y						BC017371	74.64	1.49	67%
3055	HCK							BC014435	85.47	1.49	67%
9263	STK17A							NM_004760	132.81	1.49	67%
4837	NNMT						Y	NM_006169	52.75	1.50	67%
83719	YPEL3							NM_031477	41.92	1.50	67%
2623	GATA1							BC009797	82.97	1.50	67%
6850	SYK	Y						NM_003177	74.36	1.50	67%
351	APP							NM_000484	20.78	1.51	67%
7352	UCP3							BC008392	35.61	1.51	67%
79731	NARS2							NM_024678	33.17	1.51	67%
55031	USP47							BC000226	77.25	1.52	67%
695	BTK						Y	NM_000061	111.14	1.52	67%
393	ARHGAP4						Y	BC052303	138.33	1.52	67%
57509	MTUS1							BC033842	55.19	1.52	67%
2625	GATA3						Y	BC006793	21.81	1.52	67%
1469	CST1						Y	NM_001898	19.94	1.52	67%
4212	MEIS2							NM_170676	88.89	1.53	67%
2260	FGFR1							NM_015850	25.72	1.54	67%
7048	TGFBR2							NM_003242	425.64	1.54	67%
54952	TRSPAP1							NM_017846	104.19	1.55	67%
57614	KIAA1468							NM_020854	92.83	1.55	67%
4675	NAP1L3							BC034954	225.47	1.56	67%
8774	NAPG						Y	BC001889	22.78	1.58	67%
7264	TSTA3							NM_003313	40.00	1.59	67%
79039	DDX54							BC001132	50.33	1.59	67%
29083	GTPBP8							BC010137	25.31	1.59	67%
65991	FUNDC2							NM_023934	32.75	1.59	67%
55033	FKBP14							NM_017946	38.00	1.60	67%
10103	TSPAN1							NM_005727	16.61	1.60	67%
377	ARF3							NM_001659	20.47	1.60	67%
529	ATP6V1E1			Y				NM_001696	17.69	1.60	67%
27040	LAT							BC011563	37.00	1.60	67%
283197	C11orf64							NM_174939	43.28	1.60	67%
4920	ROR2						Y	NM_004560	55.11	1.61	67%
2043	EPHA4							NM_004438	65.36	1.62	67%
6916	TBXAS1	Y						BC041157	32.69	1.63	67%
23085	ERC1							BC005065	48.17	1.63	67%

81618	ITM2C							BC002424	29.81	1.63	67%
215	ABCD1							NM_000033	31.17	1.63	67%
55017	C14orf119							NM_017924	73.69	1.63	67%
56269	IRGC							NM_019612	57.75	1.63	67%
11197	WIF1							BC018037	38.28	1.63	67%
51207	DUSP13							NM_016364	38.06	1.64	67%
400713	LOC400713	Y						BC058819	24.78	1.64	67%
79142	PHF23							BC002509	34.28	1.64	67%
96459	FNIP1							BC001956	17.44	1.64	67%
5203	PFDN4							NM_002623	34.75	1.64	67%
65117	RSRC2							BC067773	124.67	1.64	67%
4915	NTRK2		Y			Y		NM_001007097	27.64	1.65	67%
51760	SYT17							BC004518	20.25	1.65	67%
27020	NPTN							BC030773	15.42	1.65	67%
11158	RABL2B							BC024281	54.81	1.65	67%
56647	BCCIP							BC009771	57.47	1.65	67%
57002	C7orf36							BC022043	30.92	1.65	67%
25771	TBC1D22A							NM_014346	39.94	1.66	67%
25880	TMEM186							BC015912	46.06	1.66	67%
55531	ELMOD1							BC028725	34.14	1.67	67%
5193	PEX12						Y	NM_000286	28.03	1.67	67%
25817	FAM19A5						Y	NM_015381	17.58	1.67	67%
51272	BET1L							NM_016526	49.33	1.67	67%
26227	PHGDH							NM_006623	42.44	1.67	67%
51111	SUV420H1							BC012933	31.75	1.68	67%
4240	MFGE8							BC003610	51.86	1.68	67%
11136	SLC7A9		Y	Y				NM_014270	26.42	1.68	67%
25901	CCDC28A							BC000758	27.53	1.69	67%
4507	MTAP						Y	BC018625	37.61	1.69	67%
3265	HRAS							BC006499	25.06	1.70	67%
26228	BRDG1					Y		NM_012108	35.61	1.70	67%
5565	PRKAB2						Y	BC053610	27.53	1.70	67%
79886	C9orf82							BC014658	46.83	1.70	67%
65094	JMJD4							BC011928	32.58	1.70	67%
22929	SEPHS1							NM_012247	19.64	1.70	67%
5733	PTGER3		Y	Y		Y		BC024229	22.22	1.70	67%
10856	RUVBL2							NM_006666	25.36	1.70	67%
129285	CCDC128			Y				BC040721	35.39	1.70	67%
11034	DSTN						Y	NM_006870	14.50	1.71	67%
150280	HORMAD2							NM_152510	32.94	1.71	67%
54760	PCSK4							NM_017573	36.89	1.71	67%
51110	LACTB2		Y	Y				BC000878	20.69	1.71	67%
90488	C12orf23							NM_152261	69.89	1.71	67%
51081	MRPS7							NM_015971	93.92	1.71	67%
27294	DHDH		Y	Y				NM_014475	29.69	1.72	67%
58191	CXCL16							NM_022059	38.36	1.73	67%
4134	MAP4							BC051843	71.33	1.73	67%
27349	MCAT		Y	Y				BC042195	19.78	1.73	67%
3646	EIF3S6						Y	BC005944	20.92	1.73	67%
4258	MGST2							NM_002413	53.75	1.73	67%
79823	C2orf34							BC029359	68.31	1.73	67%
53343	NUDT9							NM_024047	20.36	1.73	67%

10331	B3GNT3						Y		BC066876	53.69	1.74	67%
84317	CCDC115								BC006429	16.92	1.74	67%
29950	SERTAD1								BC002670	17.69	1.74	67%
56475	RPRM								NM_019845	28.36	1.75	67%
90293	KLHL13								NM_033495	41.25	1.75	67%
11201	POLI								BC032662	23.11	1.75	67%
83640	FAM103A1								NM_031452	41.50	1.75	67%
51076	CUTC								BC021105	43.42	1.75	67%
2067	ERCC1						Y		NM_001983	30.61	1.76	67%
341032	C11orf53								NM_198498	20.72	1.76	67%
5984	RFC4								NM_002916	28.50	1.76	67%
57118	CAMK1D								NM_153498	64.75	1.77	67%
83657	DYNLRB2								BC054892	108.28	1.77	67%
1995	ELAVL3								BC014144	18.50	1.77	67%
221443	C6orf130								NM_145063	169.06	1.77	67%
89941	RHOT2								NM_138769	51.31	1.78	67%
2739	GLO1								BC001741	76.17	1.78	67%
6888	TALDO1								NM_006755	37.81	1.78	67%
83607	AMMECR1L								NM_031445	30.25	1.78	67%
23564	DDAH2								NM_013974	49.97	1.78	67%
113251	LARP4			Y					BC063479	44.86	1.78	67%
114884	OSBPL10			Y					BC003168	60.06	1.78	67%
148581	UBE2U								NM_152489	19.92	1.78	67%
51256	TBC1D7								NM_016495	38.56	1.79	67%
57396	CLK4		Y	Y					NM_020666	133.86	1.79	67%
2185	PTK2B						Y		NM_004103	64.28	1.79	67%
5606	MAP2K3								NM_002756	64.42	1.79	67%
79415	C17orf62								BC003595	42.17	1.79	67%
51313	C4orf18	Y						Y	NM_016613	30.58	1.80	67%
29880	ALG5								NM_013338	23.67	1.80	67%
9267	PSCD1								NM_004762	58.50	1.80	67%
5579	PRKCB1						Y		NM_002738	92.75	1.80	67%
2342	FNTB								NM_002028	30.50	1.81	67%
27010	TPK1								BC068460	26.75	1.81	67%
1106	CHD2								BC007347	104.19	1.81	67%
2079	ERH								NM_004450	56.67	1.81	67%
23603	CORO1C							Y	NM_014325	56.31	1.82	67%
55664	CDC37L1								BC014133	27.06	1.82	67%
89848	FCHSD1								BC047016	54.86	1.82	67%
5438	POLR2I								NM_006233	27.89	1.82	67%
338382	RAB7B								BC007382	80.69	1.83	67%
91734	IDI2								NM_033261	39.33	1.83	67%
118812	C10orf83			Y					NM_178832	138.53	1.83	67%
64130	LIN7B								NM_022165	36.14	1.83	67%
55303	GIMAP4	Y							NM_018326	49.89	1.83	67%
1803	DPP4			Y					NM_001935	44.64	1.83	67%
51079	NDUFA13								BC009189	46.03	1.83	67%
648	BMI1								NM_005180	17.94	1.84	67%
51329	ARL6IP4								NM_016638	28.67	1.84	67%
2932	GSK3B								NM_002093	28.14	1.84	67%
11171	STRAP								BC000162	21.58	1.84	67%
54956	PARP16								BC031074	73.64	1.84	67%

9709	HERPUD1							NM_014685	19.14	1.84	67%
2193	FARSLA							NM_004461	47.00	1.85	67%
114818	KLHL29	Y						BC015667	39.25	1.85	67%
113251	LARP4			Y				BC063479	73.31	1.85	67%
4296	MAP3K11							NM_002419	176.78	1.85	67%
51747	CROP							BC056409	92.78	1.85	67%
6128	RPL6						Y	NM_000970	78.36	1.86	67%
84153	RNASEH2C							NM_032193	27.06	1.86	67%
57687	KIAA1576							BC033537	42.92	1.86	67%
1021	CDK6	Y						NM_001259	50.92	1.86	67%
5522	PPP2R2C						Y	BC032954	29.53	1.87	67%
9949	AMMECR1							BC060813	183.03	1.87	67%
4176	MCM7							BC009398	32.06	1.87	67%
64928	MRPL14							NM_032111	29.06	1.87	67%
84959	STS-1					Y	Y	NM_032873	44.17	1.88	67%
27295	PDLIM3						Y	BC001017	24.78	1.88	67%
55286	C4orf19							BC037906	57.64	1.88	67%
4109	MAGEA10							NM_021048	19.33	1.88	67%
10994	ILVBL							NM_176826	28.14	1.88	67%
55285	RBM41							BC006986	25.00	1.88	67%
8645	KCNK5							BC060793	37.47	1.88	67%
2873	GPS1			Y				NM_212492	52.47	1.89	67%
5601	MAPK9							BC032539	41.89	1.89	67%
760	CA2			Y				NM_000067	18.58	1.89	67%
128308	MRPL55							BC052806	72.19	1.89	67%
11155	LDB3		Y	Y				BC010929	38.61	1.89	67%
3190	HNRPK							NM_002140	117.33	1.89	67%
377677	CA13	Y	Y					BC052602	28.44	1.90	67%
5141	PDE4A							NM_006202	22.64	1.90	67%
55669	MFN1							NM_033540	18.97	1.90	67%
27445	PCLO							BC001304	27.28	1.90	67%
55092	TMEM51							BC005177	26.50	1.90	67%
84168	ANTXR1						Y	NM_018153	42.67	1.90	67%
3050	HBZ	Y					Y	NM_005332	20.50	1.91	67%
221302	C6orf113							BC016879	102.36	1.91	67%
257203	DSCR9							BC029827	24.58	1.91	67%
79805	VASH2						Y	NM_024749	165.06	1.92	67%
10755	GIPC1							BC004226	24.44	1.92	67%
5672	PSG4							BC008405	46.00	1.92	67%
1528	CYB5A							BC015182	18.78	1.93	67%
1983	EIF5	Y						BC032866	31.92	1.93	67%
840	CASP7							BC015799	23.00	1.93	67%
149563	C1orf64			Y				NM_178840	18.92	1.93	67%
3956	LGALS1						Y	NM_002305	39.83	1.93	67%
2054	STX2							NM_001980	65.97	1.93	67%
11345	GABARAPL2							NM_007285	32.08	1.93	67%
10884	MRPS30							BC002460	32.92	1.94	67%
126119	JOSD2							NM_138334	47.17	1.94	67%
2923	PDIA3							NM_005313	34.36	1.94	67%
3028	HSD17B10							BC008708	45.56	1.94	67%
9368	SLC9A3R1	Y	Y	Y				NM_004252	39.39	1.95	67%
91608	RASL10B							BC041133	28.89	1.95	67%

5599	MAPK8								NM_002750	40.64	1.95	67%
9218	VAPA								NM_003574	28.75	1.95	67%
5683	PSMA2								NM_002787	20.06	1.96	67%
23105	FSTL4								BC024300	30.72	1.96	67%
5289	PIK3C3								NM_002647	23.92	1.96	67%
1459	CSNK2A2								NM_001896	83.14	1.96	67%
4794	NFKBIE								BC011676	40.31	1.96	67%
4151	MB	Y							NM_005368	60.61	1.97	67%
84255	SLC37A3								BC046567	28.14	1.98	67%
5723	PSPH								NM_004577	23.42	1.98	67%
7010	TEK	Y							NM_000459	26.89	1.98	67%
23421	ITGB3BP						Y		BC014385	27.00	1.98	67%
2596	GAP43						Y		NM_002045	51.06	1.99	67%
66005	CHID1								BC000001	16.00	1.99	67%
158787	RIBC1								BC036767	39.75	1.99	67%
55930	MYO5C								BC064841	45.86	1.99	67%
7589	ZSCAN21								NM_145914	39.33	1.99	67%
83879	CDCA7						Y		NM_145810	50.44	1.99	67%
9087	TMSB4Y								NM_004202	24.58	1.99	67%
5026	P2RX5								NM_002561	23.17	2.00	67%
283229	EFCAB4A								BC033196	59.14	2.00	67%
3963	LGALS7								NM_002307	16.25	2.00	67%
9212	AURKB						Y		BC000442	67.94	2.00	67%
2205	FCER1A	Y							NM_002001	25.83	2.01	67%
7272	TTK						Y		NM_003318	96.39	2.01	67%
56986	DTWD1					Y			NM_020234	104.75	2.01	67%
7980	TFPI2								NM_006528	59.94	2.01	67%
146223	CMTM4			Y					NM_178818	67.64	2.01	67%
2869	GRK5	Y					Y		NM_005308	34.14	2.01	67%
9321	TRIP11								BC002656	17.25	2.02	67%
5568	PRKACG								NM_002732	19.44	2.02	67%
55504	TNFRSF19			Y					NM_148957	26.33	2.02	67%
1845	DUSP3			Y					NM_004090	69.75	2.02	67%
9261	MAPKAPK2								NM_004759	154.86	2.03	67%
10421	CD2BP2								NM_006110	81.33	2.03	67%
51524	TMEM138								NM_016464	42.94	2.03	67%
79188	TMEM43								BC011719	28.50	2.03	67%
8724	SNX3								NM_003795	36.72	2.04	67%
6135	RPL11						Y		NM_000975	19.08	2.04	67%
2274	FHL2						Y		NM_001450	35.31	2.04	67%
5606	MAP2K3								NM_002756	30.92	2.04	67%
6198	RPS6KB1								BC053365	29.94	2.04	67%
1266	CNN3								NM_001839	62.33	2.04	67%
85458	DIXDC1						Y		BC033034	238.72	2.05	67%
4869	NPM1								BC009623	47.14	2.05	67%
8394	PIP5K1A								BC007833	24.22	2.05	67%
51160	VPS28								NM_016208	18.83	2.05	67%
83853	ROPN1L						Y		BC014607	18.86	2.05	67%
51161	C3orf18								NM_016210	37.47	2.05	67%
22797	TFEC		Y	Y					BC029891	22.81	2.06	67%
11216	AKAP10								NM_007202	27.28	2.06	67%
26508	HEYL								NM_014571	38.22	2.06	67%

3422	IDI1							NM_004508	24.56	2.06	67%
10437	IFI30							NM_006332	28.89	2.06	67%
10781	ZNF266							BC017407	39.33	2.06	67%
1642	DDB1							BC011686	16.86	2.06	67%
119504	C10orf104							NM_173473	31.92	2.06	67%
6278	S100A7							NM_002963	57.56	2.07	67%
57707	KIAA1609							BC060844	100.28	2.08	67%
761	CA3							NM_005181	35.44	2.08	67%
22836	RHOBTB3							NM_014899	22.33	2.08	67%
26002	MOXD1					Y		BC018756	23.28	2.09	67%
4716	NDUFB10							NM_004548	29.36	2.09	67%
10469	TIMM44							NM_006351	54.08	2.09	67%
4780	NFE2L2							NM_006164	61.03	2.09	67%
113402	SFT2D1							NM_145169	30.17	2.09	67%
10993	SDS							BC020750	57.11	2.09	67%
57521	KIAA1303							BC064515	30.42	2.09	67%
22858	ICK							NM_014920	22.31	2.10	67%
9765	ZFYVE16							BC030808	271.67	2.10	67%
5684	PSMA3							NM_002788	61.75	2.10	67%
51652	VPS24							NM_016079	35.81	2.11	67%
66037	BOLL					Y		NM_033030	33.47	2.11	67%
27238	GPKOW							NM_015698	42.89	2.11	67%
55139	ANKZF1							BC000238	64.53	2.11	67%
126328	NDUFA11							NM_175614	32.69	2.11	67%
1267	CNP							BC028040	187.06	2.12	67%
10410	IFITM3							BC008417	28.64	2.12	67%
2252	FGF7					Y		NM_002009	32.31	2.13	67%
255877	BCL6B							BC059404	30.53	2.13	67%
7170	TPM3							BC008407	28.31	2.13	67%
10809	STARD10							BC007919	26.06	2.13	67%
2625	GATA3					Y		BC006793	20.92	2.13	67%
3276	PRMT1							BC019268	30.39	2.13	67%
81790	RNF170							BC032393	50.06	2.14	67%
51267	CLEC1A	Y						NM_016511	17.58	2.14	67%
10879	SMR3B							NM_006685	31.75	2.14	67%
51533	PHF7							NM_016483	94.89	2.15	67%
24140	FTSJ1							NM_012280	72.36	2.15	67%
51131	PHF11							BC017212	128.78	2.15	67%
5201	PFDN1							NM_002622	37.03	2.15	67%
6001	RGS10					Y		NM_001005339	16.17	2.16	67%
84248	FYTDD1							BC035006	31.14	2.16	67%
26984	SEC22A							NM_012430	27.50	2.16	67%
80176	SPSB1							NM_025106	26.00	2.16	67%
5901	RAN							NM_006325	19.69	2.16	67%
56894	AGPAT3		Y	Y				BC004219	30.69	2.17	67%
57456	KIAA1143							BC016790	128.64	2.17	67%
2875	GPT		Y					NM_005309	81.92	2.17	67%
4609	MYC					Y		BC000141	22.56	2.17	67%
4188	MDF1					Y		NM_005586	13.97	2.17	67%
148867	SLC30A7							NM_133496	43.53	2.17	67%
3663	IRF5							NM_032643	29.78	2.17	67%
810	CALML3		Y	Y				NM_005185	23.75	2.17	67%

80010	RMI1								BC039999	22.28	2.19	67%
55684	C9orf86								BC002945	16.42	2.19	67%
285533	RNF175							Y	NM_173662	27.72	2.19	67%
64769	C1orf149								NM_022756	20.92	2.19	67%
1025	CDK9								BC001968	17.50	2.19	67%
836	CASP3							Y	NM_004346	31.03	2.19	67%
5547	PRCP								NM_005040	16.81	2.20	67%
10762	NUP50								NM_007172	35.06	2.20	67%
7169	TPM2							Y	BC011776	17.56	2.20	67%
10295	BCKDK								BC007363	44.36	2.20	67%
116541	MRPL54								NM_172251	24.64	2.21	67%
93380	TMEM32								NM_173470	13.67	2.21	67%
84154	BXDC1								BC035314	56.50	2.21	67%
23001	WDFY3								NM_178585	19.58	2.21	67%
9217	VAPB								NM_004738	24.64	2.22	67%
5330	PLCB2						Y	Y	BC009009	20.08	2.22	67%
81839	VANGL1								NM_138959	27.47	2.22	67%
6256	RXRA								NM_002957	26.83	2.22	67%
10928	RALBP1						Y		NM_006788	53.22	2.22	67%
151188	ARL6IP6								NM_152522	34.17	2.23	67%
2355	FOSL2						Y		NM_005253	99.03	2.23	67%
1021	CDK6	Y							NM_001259	90.50	2.23	67%
11040	PIM2							Y	BC018111	94.39	2.23	67%
1445	CSK								NM_004383	204.53	2.24	67%
1466	CSRP2								NM_001321	37.64	2.24	67%
9448	MAP4K4								NM_004834	21.36	2.24	67%
25973	PARS2								BC007956	59.64	2.25	67%
80195	C10orf57								NM_025125	23.17	2.25	67%
29914	UBIAD1								NM_013319	14.25	2.25	67%
10072	DPP3								BC001446	12.78	2.25	67%
25842	ASF1A								NM_014034	21.44	2.25	67%
54903	MKS1								BC010061	28.61	2.25	67%
51699	VPS29								BC032462	28.78	2.26	67%
55821	ALLC		Y	Y					BC029652	24.25	2.26	67%
57407	NMRAL1								NM_020677	54.11	2.26	67%
112399	EGLN3							Y	NM_022073	23.56	2.26	67%
8526	DGKE	Y							BC022297	11.28	2.26	67%
55773	TBC1D23								BC020955	18.86	2.26	67%
5550	PREP								BC030636	88.81	2.27	67%
10874	NMU								NM_006681	43.81	2.27	67%
2799	GNS								NM_002076	38.58	2.28	67%
221458	KIF6							Y	NM_145027	37.31	2.28	67%
8463	TEAD2								BC051301	20.78	2.28	67%
115024	NT5C3L								NM_052935	29.94	2.29	67%
53917	RAB24								BC021263	65.39	2.30	67%
9156	EXO1							Y	NM_130398	149.83	2.30	67%
2972	BRF1								BC016743	21.03	2.31	67%
13	AADAC							Y	NM_001086	26.50	2.31	67%
10286	BCAS2								NM_005872	22.03	2.31	67%
1019	CDK4								NM_000075	61.31	2.31	67%
8605	PLA2G4C	Y							BC017956	30.14	2.31	67%
23633	KPNA6								NM_012316	30.92	2.31	67%

3939	LDHA							NM_005566	15.56	2.32	67%
9649	RALGPS1							BC032372	53.97	2.32	67%
220002	CYBASC3							NM_153611	23.58	2.32	67%
9567	GTPBP1							NM_004286	23.22	2.33	67%
22932	POMZP3							BC017101	30.08	2.33	67%
7866	IFRD2							BC001327	38.53	2.33	67%
54458	PRR13							NM_018457	39.56	2.34	67%
6629	SNRPB2							NM_003092	33.47	2.34	67%
1613	DAPK3							NM_001348	91.11	2.35	67%
10013	HDAC6		Y	Y				BC011498	27.81	2.35	67%
10671	DCTN6							NM_006571	28.89	2.35	67%
55692	LUC7L							NM_018032	32.47	2.36	67%
221336	C6orf65					Y		BC022988	59.39	2.36	67%
57222	ERGIC1							BC012766	89.78	2.36	67%
2874	GPS2							NM_004489	21.75	2.37	67%
5720	PSME1							NM_006263	30.39	2.37	67%
5271	SERPINB8					Y		BC034528	91.61	2.37	67%
51440	HPCAL4		Y	Y				BC030827	23.67	2.37	67%
2066	ERBB4		Y	Y				NM_005235	28.36	2.37	67%
196441	CCDC131							NM_144982	82.11	2.38	67%
64417	C5orf28					Y		NM_022483	12.36	2.38	67%
6945	MLX							NM_198204	32.56	2.38	67%
63940	GPSM3					Y		NM_022107	15.25	2.39	67%
84072	HORMAD1					Y		NM_032132	20.17	2.39	67%
4336	MOBP					Y		BC022471	18.56	2.39	67%
963	CD53					Y		BC040693	11.00	2.39	67%
10618	TGOLN2			Y				BC008461	33.58	2.39	67%
51058	ZNF691							BC000157	22.53	2.40	67%
79183	C20orf121							NM_024331	26.33	2.40	67%
51703	ACSL5					Y		NM_016234	47.69	2.41	67%
2277	FIGF					Y		NM_004469	16.33	2.41	67%
79730	NSUN7							NM_024677	22.94	2.41	67%
10617	STAMBP							NM_006463	20.42	2.41	67%
30834	ZNRD1							NM_014596	41.58	2.41	67%
27296	C20orf10							NM_014477	31.92	2.42	67%
7450	VWF					Y		BC022258	27.64	2.42	67%
1018	CDK3							NM_001258	39.00	2.42	67%
55140	ELP3							NM_018091	17.89	2.42	67%
167227	DCP2					Y		BC064593	191.19	2.43	67%
1452	CSNK1A1							NM_001892	19.86	2.43	67%
28970	C11orf54		Y	Y				BC007110	27.69	2.43	67%
4704	NDUFA9							NM_005002	76.58	2.44	67%
1747	DLX3							NM_005220	40.97	2.44	67%
7465	WEE1					Y		NM_003390	373.36	2.44	67%
10691	GMEB1							NM_024482	20.92	2.44	67%
25928	SOSTDC1					Y		NM_015464	27.47	2.45	67%
79133	C20orf7							BC005984	22.08	2.45	67%
11033	CENTA1							NM_006869	25.69	2.45	67%
11091	WDR5							NM_017588	177.64	2.45	67%
29979	UBQLN1							NM_053067	33.72	2.46	67%
4191	MDH2							BC001917	16.36	2.46	67%
56911	C21orf7					Y		BC008567	39.50	2.46	67%

80700	UBXD1							BC007414	23.89	2.46	67%
5685	PSMA4							NM_002789	28.94	2.46	67%
29089	UBE2T						Y	NM_014176	56.83	2.47	67%
51605	CGI-09							NM_015939	308.42	2.47	67%
5064	PALM		Y	Y				BC032449	57.00	2.48	67%
55520	ELAC1							NM_018696	14.17	2.49	67%
57489	ODF2L							BC009779	22.86	2.50	67%
7434	VIPR2							NM_003382	15.64	2.50	67%
1910	EDNRB						Y	NM_000115	17.36	2.51	67%
140706	C20orf160	Y						BC032455	9.03	2.52	67%
9702	CEP57							BC039711	30.86	2.52	67%
6302	TSPAN31							NM_005981	24.78	2.52	67%
4286	MITF							BC026961	37.33	2.53	67%
7586	ZKSCAN1							BC022378	17.22	2.53	67%
57146	TMEM159							NM_020422	27.39	2.54	67%
23532	PRAME							BC039731	22.92	2.54	67%
10124	ARL4A							NM_005738	62.33	2.54	67%
55668	C14orf118							BC058032	29.50	2.54	67%
10006	ABI1							BC024254	55.69	2.54	67%
1397	CRIP2							NM_001312	25.17	2.54	67%
10254	STAM2						Y	BC028740	15.94	2.54	67%
148738	HFE2							BC017926	21.97	2.55	67%
23450	SF3B3							BC000463	58.42	2.55	67%
84867	PTPN5							NM_032781	53.67	2.55	67%
10614	HEXIM1							NM_006460	48.61	2.55	67%
172	AFG3L1							BC021245	30.42	2.57	67%
283337	ZNF740							BC053557	193.47	2.57	67%
9054	NFS1			Y				NM_021100	26.25	2.57	67%
11065	UBE2C						Y	NM_007019	28.72	2.57	67%
6591	SNAI2							NM_003068	13.00	2.58	67%
79672	FN3KRP							NM_024619	17.67	2.60	67%
1123	CHN1						Y	BC011393	17.28	2.60	67%
56063	C1orf91							BC004885	16.28	2.60	67%
59342	SCPEP1							BC010078	15.58	2.60	67%
54937	SOHLH2						Y	BC025383	24.67	2.60	67%
213	ALB			Y				NM_000477	11.47	2.60	67%
2665	GDI2							NM_001494	10.33	2.61	67%
115727	RASGRP4						Y	NM_170603	15.78	2.61	67%
23481	PES1							NM_014303	29.17	2.61	67%
57696	DDX55							BC035911	20.94	2.61	67%
5859	QARS							BC016634	38.11	2.63	67%
3615	IMPDH2						Y	BC006124	26.06	2.63	67%
51203	NUSAP1						Y	NM_018454	95.64	2.64	67%
928	CD9							NM_001769	27.33	2.64	67%
8798	DYRK4							NM_003845	26.33	2.65	67%
404220	C6orf201		Y	Y				NM_206834	138.06	2.65	67%
60685	ZFAND3							NM_021943	123.81	2.65	67%
51031	C17orf25							BC015848	310.31	2.65	67%
8609	KLF7	Y						BC012919	23.25	2.65	67%
10578	GNLY	Y					Y	NM_006433	89.03	2.66	67%
10134	BCAP31			Y				BC014323	15.75	2.66	67%
83596	BCL2L12							BC007724	11.69	2.67	67%

3606	IL18							NM_001562	12.11	2.67	67%
79081	C11orf48							NM_024099	30.92	2.68	67%
83591	THAP2							NM_031435	33.25	2.68	67%
10146	G3BP1							NM_198395	28.19	2.69	67%
10001	MED6							BC004106	17.31	2.69	67%
2647	BLOC1S1			Y				BC066340	14.92	2.70	67%
3840	KPNA4							BC016754	12.97	2.70	67%
54518	APBB1IP						Y	BC035636	93.47	2.71	67%
51078	THAP4							BC000247	20.53	2.71	67%
26060	APPL1							NM_012096	14.97	2.71	67%
8576	STK16							NM_003691	99.44	2.71	67%
57379	AICDA							NM_020661	54.31	2.73	67%
3845	KRAS							BC013572	15.64	2.73	67%
11069	RAPGEF4	Y						BC040183	18.08	2.73	67%
135138	PACRG		Y					BC030642	29.33	2.74	67%
5603	MAPK13					Y		NM_002754	21.92	2.74	67%
63935	C20orf67							NM_022104	40.42	2.74	67%
54664	TMEM106B							BC039741	32.06	2.75	67%
7936	RDBP							NM_002904	92.53	2.75	67%
5358	PLS3							NM_005032	16.72	2.76	67%
79960	PHF17			Y				NM_024900	40.17	2.76	67%
255762	C16orf65							NM_173806	13.06	2.76	67%
6856	SYPL1							NM_006754	18.67	2.77	67%
28989	C9orf32							BC001396	45.39	2.77	67%
51527	C14orf129							BC004818	6.89	2.79	67%
26262	TSPAN17							BC010405	27.81	2.79	67%
26135	SERBP1							NM_015640	20.00	2.79	67%
5717	PSMD11							NM_002815	27.14	2.80	67%
90273	CEACAM21							BC012001	12.14	2.81	67%
25926	NOL11							BC001726	26.69	2.81	67%
4212	MEIS2							NM_170676	22.89	2.82	67%
1407	CRY1							BC030519	12.03	2.82	67%
2882	GPX7							NM_015696	17.06	2.84	67%
10049	DNAJB6							BC000177	15.58	2.84	67%
10551	AGR2						Y	NM_006408	42.53	2.86	67%
54585	LZTFL1							NM_020347	26.78	2.86	67%
4152	MBD1							BC033242	33.81	2.87	67%
92747	C20orf114							BC008429	21.72	2.87	67%
5554	PRH1							BC064553	206.25	2.87	67%
6319	SCD						Y	BC005807	53.19	2.88	67%
8036	SHOC2							NM_007373	28.11	2.88	67%
6613	SUMO2							NM_006937	54.36	2.89	67%
25953	PNKD							NM_015488	16.00	2.89	67%
79736	C17orf42							BC009025	15.22	2.91	67%
2990	GUSB		Y	Y				NM_000181	15.50	2.91	67%
6414	SEPP1							BC046152	10.86	2.92	67%
5805	PTS							NM_000317	27.00	2.96	67%
6432	SFRS7							BC000997	24.36	2.97	67%
80306	MED28							BC011936	17.06	2.98	67%
2633	GBP1						Y	NM_002053	15.61	2.98	67%
6160	RPL31						Y	NM_000993	139.28	2.99	67%
23530	NNT			Y				BC032370	30.36	2.99	67%

55323	LARP6							NM_018357	15.61	3.00	67%
6500	SKP1A							NM_170679	9.47	3.01	67%
762	CA4		Y	Y				BC057792	9.86	3.01	67%
23379	KIAA0947							BC004902	17.11	3.03	67%
79810	PTCD2							NM_024754	25.81	3.05	67%
158234	RG9MTD3	Y						BC057774	22.92	3.05	67%
3598	IL13RA2	Y						BC020739	13.22	3.06	67%
83543	C9orf58							BC021253	143.08	3.08	67%
5315	PKM2							BC035198	52.72	3.08	67%
84263	HSDL2							NM_032303	12.39	3.09	67%
128486	C20orf142							BC029662	14.72	3.10	67%
338692	ANKRD13D							BC044239	28.33	3.10	67%
3838	KPNA2							BC053343	23.75	3.10	67%
57410	SCYL1							BC009967	18.08	3.11	67%
10555	AGPAT2							BC000026	18.14	3.12	67%
131965	METTL6							NM_152396	20.39	3.13	67%
2752	GLUL							BC031964	24.92	3.15	67%
10084	PQBP1							NM_005710	11.28	3.15	67%
2037	EPB41L2							BC034718	16.83	3.17	67%
91543	RSAD2							BC017969	22.31	3.18	67%
54514	DDX4							BC047455	46.97	3.20	67%
2065	ERBB3		Y	Y		Y		BC002706	13.47	3.21	67%
302	ANXA2					Y	Y	BC023990	28.42	3.21	67%
5165	PDK3			Y				NM_005391	14.94	3.22	67%
132851	SPATA4							BC029428	24.06	3.23	67%
81855	SFXN3			Y				NM_030971	20.64	3.24	67%
2997	GYS1							NM_002103	20.89	3.25	67%
3801	KIFC3							NM_005550	74.25	3.26	67%
79574	EPS8L3					Y		BC012926	26.31	3.26	67%
9962	SLC23A2							BC013112	15.28	3.26	67%
55778	C14orf131							BC006222	40.89	3.27	67%
383	ARG1						Y	NM_000045	67.36	3.28	67%
55589	BMP2K							NM_017593	13.28	3.28	67%
57689	LRRC4C							NM_020929	32.69	3.28	67%
9450	LY86						Y	NM_004271	14.39	3.29	67%
2491	CENPI					Y	Y	BC012462	14.97	3.29	67%
11020	RABL4							BC000566	9.92	3.31	67%
11001	SLC27A2		Y	Y				BC057770	208.47	3.31	67%
9125	RQCD1							BC007102	54.50	3.31	67%
55117	SLC6A15						Y	BC022253	30.06	3.32	67%
259282	FAM44A							BC016987	20.89	3.32	67%
53405	CLIC5	Y	Y	Y				BC035968	12.00	3.33	67%
11235	PDCD10							NM_007217	29.78	3.35	67%
84908	FLJ14668							BC014975	26.81	3.35	67%
10331	B3GNT3						Y	BC066876	17.61	3.36	67%
140680	C20orf96							BC051762	25.31	3.38	67%
157	ADRBK2	Y					Y	NM_005160	92.47	3.42	67%
97	ACYP1							BC035568	22.53	3.44	67%
63943	FKBP1							NM_022110	13.25	3.44	67%
57180	ACTR3B							NM_020445	22.61	3.45	67%
6789	STK4						Y	NM_006282	444.64	3.45	67%
115677	NOSTRIN	Y						NM_052946	16.61	3.45	67%

6934	TCF7L2							BC032656	9.33	3.46	67%
92691	TMEM169							NM_138390	15.58	3.47	67%
7357	UGCG							NM_003358	14.47	3.47	67%
26502	NARF						Y	BC016440	12.75	3.52	67%
7341	SUMO1							NM_003352	216.17	3.53	67%
7378	UPP1							BC047030	15.33	3.53	67%
9885	OSBPL2							NM_144498	8.94	3.54	67%
9686	VGLL4							NM_014667	20.14	3.58	67%
84936	ZFYVE19							BC015738	17.33	3.59	67%
93100	NAPRT1			Y				BC032466	6.86	3.60	67%
653820	LOC653820						Y	BC046199	16.22	3.60	67%
51016	C14orf122							NM_016049	17.31	3.63	67%
10494	STK25							NM_006374	73.58	3.63	67%
23046	KIF21B						Y	BC052964	10.89	3.64	67%
54487	DGCR8							NM_022720	22.28	3.64	67%
274	BIN1							BC004101	14.25	3.65	67%
3937	LCP2						Y	NM_005565	17.00	3.66	67%
54708	Mar5							NM_017824	16.72	3.67	67%
7283	TUBG1							NM_001070	27.36	3.67	67%
64419	MTMR14							BC035690	24.81	3.67	67%
9522	SCAMP1							NM_004866	18.58	3.83	67%
7091	TLE4						Y	BC059405	74.67	3.83	67%
5866	RAB3IL1			Y				NM_013401	42.33	3.85	67%
54504	CPVL							NM_031311	17.86	3.85	67%
1456	CSNK1G3							NM_004384	63.03	3.88	67%
55038	CDCA4							BC025263	13.08	3.90	67%
51329	ARL6IP4							NM_016638	85.72	3.90	67%
64220	STRA6			Y			Y	NM_022369	23.31	3.90	67%
8293	SERF1A							BC021174	16.64	3.97	67%
26270	FBXO6							NM_018438	15.31	4.02	67%
6520	SLC3A2		Y	Y				NM_002394	13.47	4.04	67%
2170	FABP3		Y	Y				NM_004102	324.50	4.12	67%
2932	GSK3B							NM_002093	17.78	4.14	67%
27347	STK39						Y	NM_013233	32.22	4.17	67%
950	SCARB2							NM_005506	22.75	4.19	67%
253980	KCTD13							NM_178863	7.17	4.19	67%
161247	LOC161247							BC042179	13.39	4.31	67%
3385	ICAM3							BC058903	21.67	4.31	67%
4116	MAGOH							NM_002370	12.19	4.33	67%
6945	MLX							NM_198204	5.72	4.34	67%
57464	FAM40B		Y	Y				BC019064	16.69	4.37	67%
6434	SFRS10							NM_004593	13.00	4.37	67%
54978	C2orf18			Y				NM_017877	15.42	4.38	67%
369	ARAF							BC007514	34.89	4.39	67%
55281	TMEM140							BC020942	9.11	4.39	67%
51588	PIAS4							BC010047	15.00	4.41	67%
51458	RHCG			Y				NM_016321	16.14	4.45	67%
11257	TP53AP1							NM_007233	19.86	4.56	67%
51390	AIG1			Y				BC025278	8.39	4.57	67%
7167	TPI1							BC017917	40.92	4.60	67%
381	ARF5							NM_001662	8.31	4.60	67%
9045	RPL14						Y	BC009294	15.03	4.63	67%

832	CAPZB							BC008095	8.86	4.65	67%
79848	CSPP1			Y				NM_024790	23.75	4.72	67%
85026	C9orf37						Y	BC011781	14.39	4.74	67%
55752	Sep11	Y						NM_018243	27.50	4.77	67%
348487	C1orf117	Y	Y	Y				NM_182623	22.72	4.82	67%
8476	CDC42BPA	Y						NM_003607	48.19	4.86	67%
23213	SULF1	Y					Y	BC012997	69.31	4.86	67%
11336	EXOC3						Y	BC001511	6.86	4.94	67%
5478	PPIA							BC005982	21.53	4.94	67%
5347	PLK1						Y	NM_005030	7.94	4.97	67%
5296	PIK3R2							BC014170	15.61	4.98	67%
83989	C5orf21		Y					NM_032042	13.72	5.07	67%
80233	C17orf70							NM_025161	10.28	5.10	67%
6224	RPS20						Y	NM_001023	37.47	5.11	67%
80184	CEP290							BC008641	8.11	5.21	67%
1396	CRIP1							NM_001311	19.97	5.30	67%
8644	AKR1C3						Y	NM_003739	4.64	5.33	67%
2625	GATA3						Y	BC006793	13.08	5.49	67%
965	CD58							BC005930	11.25	5.62	67%
25939	SAMHD1						Y	BC036450	8.06	5.65	67%
81611	ANP32E							NM_030920	14.78	5.67	67%
3003	GZMK						Y	NM_002104	15.42	5.74	67%
3704	ITPA							NM_033453	8.72	5.84	67%
5095	PCCA							NM_000282	7.28	5.87	67%
9839	ZEB2						Y	BC060819	12.08	5.97	67%
58155	PTBP2							BC016582	10.69	6.00	67%
10949	HNRPA0							NM_006805	6.53	6.04	67%
80146	UXS1							BC009819	11.78	6.07	67%
399669	MGC35402							BC046449	10.22	6.10	67%
246330	PELI3							BC021256	12.72	6.11	67%
114879	OSBPL5							BC032646	13.19	6.20	67%
51274	KLF3							BC051687	10.92	6.45	67%
3208	HPCA			Y				NM_002143	10.11	6.54	67%
25873	RPL36							NM_015414	29.89	6.65	67%
25901	CCDC28A							BC000758	9.44	6.83	67%
9024	BRSK2							BC024291	20.78	6.88	67%
116113	FOXP4							BC052803	11.00	6.95	67%
23029	RBM34							NM_015014	17.64	7.31	67%
9540	TP53I3							NM_004881	24.19	7.43	67%
10573	MRPL28							BC000507	14.86	7.72	67%
4642	MYO1D							BC030602	5.86	7.76	67%
7289	TULP3							BC032587	11.75	7.80	67%
219670	C10orf63							NM_145010	8.92	8.01	67%
6457	SH3GL3				Y		Y	BC042864	12.42	8.35	67%
5468	PPARG						Y	NM_015869	6.50	8.40	67%
7181	NR2C1							BC040141	8.47	8.45	67%
10591	C6orf108		Y	Y				NM_006443	14.89	8.47	67%
10549	PRDX4							NM_006406	5.58	8.50	67%
79171	MGC10433							BC031682	23.08	8.59	67%
2976	GTF3C2							BC020981	21.86	8.65	67%
57727	NCOA5							BC056872	6.78	9.27	67%
9045	RPL14						Y	BC009294	8.56	10.23	67%

7538	ZFP36							NM_003407	4.42	10.83	67%
23187	PHLDB1					Y		BC013031	8.14	10.89	67%
3171	FOXA3					Y		NM_004497	12.78	11.46	67%
218	ALDH3A1						Y	BC008892	5.58	11.96	67%
149499	C1orf92							BC033790	15.14	12.12	67%
2207	FCER1G						Y	BC033872	9.03	12.39	67%
5092	PCBD1							NM_000281	4.25	13.43	67%
11266	DUSP12							NM_007240	15.75	14.40	67%
6988	TCTA							NM_022171	3.81	14.41	67%
23623	RUSC1							BC001045	4.00	15.00	67%
64073	C19orf33						Y	BC060319	4.94	17.91	67%
81542	TXNDC1							NM_030755	2.72	18.31	67%
55246	CCDC25							NM_018246	1.81	21.82	67%
5824	PEX19							NM_002857	3.42	26.15	67%
79596	C13orf7							NM_024546	2.22	40.12	67%
85397	RGS8							NM_033345	0.53	130.07	67%
4023	LPL							BC011353	0.08	897.97	67%
2131	EXT1							BC001174	-0.31	-398.28	61%
6541	SLC7A1					Y		NM_003045	-0.31	-295.32	61%
3600	IL15							NM_000585	-1.00	-138.60	61%
219541	MED19							NM_153450	-0.58	-124.70	61%
137695	TMEM68							BC020835	-1.50	-78.43	61%
7555	CNBP							BC000288	-2.94	-72.82	61%
537	ATP6AP1							NM_001183	-2.89	-53.23	61%
866	SERPINA6							BC056259	-1.50	-42.80	61%
4696	NDUFA3							NM_004542	-1.72	-36.50	61%
1476	CSTB							NM_000100	-1.47	-33.86	61%
6337	SCNN1A							BC062613	-3.14	-31.66	61%
655	BMP7	Y						BC004248	-2.03	-29.63	61%
79719	FLJ11506							BC058886	-4.69	-29.00	61%
755	C21orf2							BC031300	-7.42	-28.69	61%
54769	DIRAS2							NM_017594	-2.69	-25.93	61%
2644	GCHFR		Y					NM_005258	-3.08	-24.09	61%
10618	TGOLN2		Y					BC008461	-15.17	-22.07	61%
158399	ZNF483					Y		BC065738	-8.42	-18.78	61%
4752	NEK3							NM_002498	-27.28	-18.49	61%
7317	UBE1							NM_003334	-8.75	-18.20	61%
8976	WASL							BC052955	-13.44	-16.43	61%
27013	C2orf24							NM_015680	-6.00	-15.34	61%
8087	FXR1							BC028983	-6.44	-13.94	61%
10817	FRS3							NM_006653	-8.86	-12.02	61%
10827	C5orf3							BC011414	-16.19	-11.01	61%
9787	DLG7					Y	Y	BC016276	-31.61	-10.74	61%
10190	TXNDC9							BC024223	-8.83	-9.99	61%
51593	ARS2							BC000082	-11.03	-9.72	61%
7525	YES1							NM_005433	-24.17	-9.02	61%
9266	PSCD2							BC038713	-24.61	-8.63	61%
4232	MEST						Y	NM_002402	-21.69	-7.81	61%
5345	SERPINF2		Y	Y				BC031592	-15.86	-6.85	61%
9910	RABGAP1L							BC012094	-44.17	-6.10	61%
23639	LRRC6							NM_012472	-30.81	-5.81	61%
10078	TSSC4							BC050616	-86.53	-5.66	61%

57149	LYRM1								NM_020424	-58.28	-5.62	61%
9071	CLDN10								NM_006984	-31.83	-5.35	61%
4709	NDUFB3								NM_002491	-39.14	-4.92	61%
3113	HLA-DPA1								BC009956	-74.39	-4.78	61%
54014	BRWD1								NM_001007246	-38.94	-4.47	61%
84266	ALKBH7								NM_032306	-29.03	-4.30	61%
79090	TRAPPC6A								BC001907	-197.39	-4.29	61%
1068	CETN1								NM_004066	-95.97	-3.94	61%
673	BRAF								NM_004333	157.64	1.37	61%
27065	D4S234E		Y	Y					NM_014392	39.42	1.40	61%
128637	TBC1D20								NM_144628	71.11	1.45	61%
2049	EPHB3								NM_004443	63.97	1.45	61%
10881	ACTL7A					Y			NM_006687	43.06	1.49	61%
2947	GSTM3								BC008790	36.00	1.52	61%
5771	PTPN2								NM_080423	41.89	1.53	61%
89978	ATPBD4								NM_080650	33.28	1.55	61%
283507	LOC283507								BC020814	31.97	1.58	61%
3574	IL7								NM_000880	33.03	1.58	61%
26301	GBGT1								BC032499	53.72	1.59	61%
7265	TTC1								BC000942	42.17	1.60	61%
208	AKT2					Y			NM_001626	149.03	1.60	61%
92949	ADAMTSL1						Y		BC030262	40.72	1.60	61%
2335	FN1						Y		BC005858	285.14	1.60	61%
29066	ZC3H7A								BC012575	100.94	1.61	61%
10658	CUGBP1								BC031079	42.36	1.62	61%
64760	RAI16								BC012865	43.00	1.62	61%
8721	EDF1								NM_003792	30.39	1.63	61%
140545	RNF32								BC028120	52.56	1.63	61%
4209	MEF2D								BC054520	56.69	1.63	61%
57817	HAMP						Y		NM_021175	36.83	1.63	61%
10244	RABEPK								BC047023	53.67	1.66	61%
57107	PDSS2			Y					NM_020381	84.19	1.66	61%
6602	SMARCD1								BC009368	40.72	1.66	61%
8807	IL18RAP								NM_003853	28.89	1.67	61%
54947	AYTL1								NM_017839	49.75	1.68	61%
4005	LMO2	Y							NM_005574	38.33	1.69	61%
79828	METTL8								NM_024770	50.28	1.69	61%
80896	NPL		Y	Y					BC058003	23.69	1.70	61%
90693	CCDC126								NM_138771	102.67	1.70	61%
9144	SYNGR2								NM_004710	24.97	1.72	61%
9409	PEX16								NM_004813	33.25	1.72	61%
2213	FCGR2B						Y		NM_004001	30.31	1.72	61%
79571	GCC1								BC008902	41.94	1.74	61%
3189	HNRPH3								NM_021644	40.08	1.74	61%
6419	SETMAR								BC011635	31.08	1.75	61%
9322	TRIP10								NM_004240	46.39	1.75	61%
23339	VPS39								NM_015289	24.83	1.75	61%
79068	FTO								BC001284	28.94	1.76	61%
9167	COX7A2L								NM_004718	23.72	1.76	61%
6733	SRPK2								NM_182692	45.39	1.76	61%
9404	LPXN						Y		NM_004811	38.58	1.76	61%
153562	MARVELD2					Y			BC033689	31.86	1.78	61%

6888	TALDO1								NM_006755	32.06	1.79	61%
144715	RAD9B								BC068031	47.64	1.80	61%
55228	FLJ10781								BC051688	48.61	1.80	61%
4599	MX1		Y	Y					NM_002462	53.08	1.80	61%
51629	SLC25A39								NM_016016	29.14	1.81	61%
220972	Mar8								NM_145021	34.42	1.81	61%
1200	TPP1								BC014863	26.39	1.81	61%
6788	STK3								NM_006281	26.81	1.81	61%
622	BDH1								NM_004051	22.89	1.81	61%
9576	SPAG6								BC030585	25.03	1.81	61%
5687	PSMA6								NM_002791	20.03	1.82	61%
54946	SLC41A3								NM_001008485	33.50	1.82	61%
80228	TMEM142B								NM_032831	39.56	1.82	61%
5217	PFN2								BC018049	30.89	1.83	61%
116135	LRRRC3B						Y		BC040656	93.75	1.83	61%
11017	RY1								NM_006857	33.53	1.83	61%
54681	PH-4								NM_177938	19.67	1.83	61%
79056	PRRG4				Y				NM_024081	42.69	1.84	61%
5570	PKIB			Y			Y		NM_181795	38.72	1.84	61%
8618	CADPS						Y		BC015754	38.28	1.84	61%
51506	UFC1								BC005187	24.33	1.84	61%
51194	IPO11								NM_016338	21.39	1.84	61%
23646	PLD3								BC036327	72.03	1.85	61%
55072	RNF31								BC017376	39.58	1.85	61%
11212	PROSC								NM_007198	35.69	1.86	61%
493753	MGC52110								BC047722	80.39	1.87	61%
93974	ATPIF1								NM_178191	26.00	1.87	61%
7329	UBE2I								NM_003345	37.72	1.87	61%
150160	CESK1								NM_014406	41.22	1.87	61%
105	ADARB2								BC047443	47.69	1.87	61%
64976	MRPL40								NM_003776	42.33	1.87	61%
1164	CKS2								NM_001827	55.75	1.87	61%
80851	SH3BP5L								NM_030645	52.81	1.87	61%
55466	DNAJA4						Y		BC031044	31.31	1.87	61%
79618	HMBOX1	Y							BC009259	35.39	1.88	61%
84942	WDR73								BC063392	60.83	1.88	61%
51338	MS4A4A						Y		NM_148975	55.75	1.88	61%
140732	SPAG4L								NM_080675	27.39	1.88	61%
2876	GPX1								BC000742	29.86	1.88	61%
2959	GTF2B								BC020597	20.72	1.89	61%
10328	COX4NB								NM_006067	42.14	1.90	61%
144193	AMDHD1		Y	Y					NM_152435	50.58	1.90	61%
8522	GAS7								BC001152	25.69	1.90	61%
4354	MPP1								NM_002436	182.36	1.91	61%
83890	SPATA9								BC047333	34.39	1.91	61%
10573	MRPL28								BC000507	30.42	1.91	61%
1856	DVL2								NM_004422	25.81	1.91	61%
26470	SEZ6L2	Y							BC000567	30.44	1.92	61%
705	BYSL						Y		BC007340	66.28	1.92	61%
2173	FABP7						Y		NM_001446	68.72	1.92	61%
2921	CXCL3								BC016308	30.22	1.93	61%
4686	NCBP1								NM_002486	18.94	1.93	61%

84129	ACAD11			Y				NM_032169	24.06	1.93	61%
9410	WDR57							BC001494	35.89	1.93	61%
10087	COL4A3BP							NM_031361	22.39	1.93	61%
92346	C1orf105							NM_139240	43.25	1.94	61%
29887	SNX10						Y	NM_013322	71.72	1.94	61%
79763	ISOC2		Y	Y				BC017344	45.08	1.94	61%
28954	REM1							NM_014012	108.64	1.94	61%
8573	CASK							NM_003688	46.44	1.95	61%
8407	TAGLN2							BC002616	34.86	1.95	61%
51074	APIP							BC009077	73.61	1.95	61%
219833	C11orf45							NM_145013	25.39	1.96	61%
1938	EEF2							NM_001961	37.72	1.96	61%
8674	VAMP4							BC005974	33.61	1.96	61%
140465	MYL6B							NM_002475	26.31	1.96	61%
83546	RTBDN							NM_031429	21.92	1.97	61%
4184	SMCP							NM_030663	20.53	1.97	61%
8548	BLZF1							NM_003666	37.28	1.97	61%
259	AMBP			Y				NM_001633	24.19	1.97	61%
1849	DUSP7							BC019107	21.39	1.97	61%
793	CALB1		Y	Y				NM_004929	32.69	1.97	61%
1073	CFL2						Y	NM_021914	28.14	1.97	61%
7276	TTR	Y		Y				NM_000371	39.69	1.98	61%
9522	SCAMP1							NM_004866	35.44	1.98	61%
9315	C5orf13			Y				NM_004772	57.69	1.98	61%
4521	NUDT1						Y	NM_198949	36.75	1.99	61%
9592	IER2					Y		NM_004907	21.83	1.99	61%
9246	UBE2L6							NM_004223	19.39	1.99	61%
116225	ZMYND19							NM_138462	12.89	1.99	61%
55609	SUHW3							NM_017666	14.75	2.00	61%
81932	HDHD3							NM_031219	23.61	2.00	61%
23609	MKRN2							BC015715	43.47	2.01	61%
7035	TFPI							BC015514	34.33	2.01	61%
1647	GADD45A							NM_001924	24.94	2.01	61%
91942	NDUFA12L							NM_174889	14.06	2.02	61%
55691	FRMD4A							BC018891	26.03	2.02	61%
11117	EMILIN1							BC007530	39.03	2.03	61%
9554	SEC22B							NM_004892	22.14	2.03	61%
219844	HYLS1			Y				BC015047	53.75	2.04	61%
84923	FAM104A							NM_032837	50.97	2.04	61%
26284	ERAL1							NM_005702	17.11	2.04	61%
998	CDC42							NM_001791	20.47	2.04	61%
9452	ITM2A							NM_004867	40.42	2.05	61%
54973	CPSF3L							NM_017871	29.61	2.05	61%
92715	WDR85							BC040173	47.31	2.05	61%
5359	PLSCR1						Y	NM_021105	29.94	2.05	61%
10066	SCAMP2						Y	NM_005697	22.67	2.06	61%
11200	CHEK2							BC004207	44.19	2.06	61%
2332	FMR1							BC038998	17.69	2.06	61%
51626	DYNC2LI1							BC006969	56.33	2.06	61%
63948	DMRTB1							BC029566	60.50	2.06	61%
414	ARSD							BC020229	29.72	2.07	61%
23475	QPRT			Y				BC010033	55.78	2.07	61%

144423	GLT1D1								BC043528	37.78	2.07	61%
3159	HMGA1								NM_145899	12.06	2.07	61%
81607	PVRL4							Y	BC010423	16.69	2.07	61%
23554	TSPAN12							Y	BC031265	29.67	2.07	61%
828	CAPS								NM_080590	43.06	2.07	61%
116540	MRPL53								NM_053050	28.78	2.07	61%
1408	CRY2								NM_021117	107.28	2.07	61%
85415	RHPN2								NM_033103	29.00	2.08	61%
23172	KIAA0157								NM_032182	22.78	2.08	61%
79874	RABEP2								BC058900	41.44	2.08	61%
54868	TMEM104								BC037278	26.36	2.08	61%
51561	IL23A								NM_016584	78.64	2.08	61%
6793	STK10								NM_005990	29.25	2.09	61%
79871	C1orf82								BC039014	15.14	2.09	61%
50808	AK3								NM_016282	20.69	2.09	61%
10806	SDCCAG8								BC032454	66.44	2.10	61%
4063	LY9							Y	BC064485	24.39	2.10	61%
55924	C1orf183								NM_019099	39.42	2.10	61%
51646	YPEL5								NM_016061	21.78	2.10	61%
9454	HOMER3								NM_004838	26.17	2.10	61%
224	ALDH3A2			Y					BC002430	21.44	2.11	61%
2707	GJB3							Y Y	NM_024009	21.42	2.11	61%
5638	PRRG1					Y			BC060833	24.36	2.11	61%
7052	TGM2	Y							BC003551	48.61	2.11	61%
90326	THAP3					Y			BC022081	28.69	2.11	61%
8569	MKNK1								BC002755	100.33	2.12	61%
9141	PDCD5								NM_004708	110.47	2.12	61%
92715	WDR85								BC040173	25.11	2.12	61%
10298	PAK4								NM_005884	32.64	2.12	61%
4899	NRF1								NM_005011	157.94	2.12	61%
64407	RGS18								NM_130782	25.42	2.13	61%
253782	LASS6	Y							BC030800	30.50	2.13	61%
93099	DMKN								NM_033317	27.81	2.13	61%
5029	P2RY2								BC028135	19.25	2.13	61%
2108	ETFA			Y					NM_000126	32.17	2.13	61%
386618	KCTD4								BC018063	23.67	2.13	61%
57795	FAM5B								NM_021165	36.42	2.13	61%
84264	HAGHL								BC015008	48.72	2.13	61%
8601	RGS20								NM_003702	40.81	2.13	61%
221150	C13orf3							Y	BC048988	32.17	2.14	61%
6252	RTN1								NM_206852	14.58	2.14	61%
83983	TSSK6								NM_032037	25.69	2.14	61%
1358	CPA2								BC007009	42.17	2.14	61%
4713	NDUFB7								NM_004146	35.28	2.15	61%
2242	FES								NM_002005	24.22	2.15	61%
55502	HES6								NM_018645	12.33	2.15	61%
3658	IREB2								BC017880	25.39	2.16	61%
8674	VAMP4								BC005974	20.00	2.16	61%
7051	TGM1								NM_000359	15.53	2.16	61%
5585	PKN1								NM_002741	49.83	2.16	61%
9440	CRSP6								BC021101	17.36	2.17	61%
3903	LAIR1							Y	NM_002287	17.64	2.18	61%

10043	TOM1								BC046151	48.97	2.18	61%
9235	IL32		Y	Y					BC018782	12.39	2.18	61%
9946	CRYZL1								BC013155	17.56	2.18	61%
25876	C2orf28								NM_015417	13.47	2.18	61%
5970	RELA								BC011603	40.42	2.19	61%
79022	TMEM106C								NM_024056	21.08	2.19	61%
8886	DDX18								BC003360	85.03	2.19	61%
57504	MTA3								NM_020744	33.36	2.19	61%
586	BCAT1					Y	Y		BC033864	34.08	2.19	61%
57118	CAMK1D								NM_153498	17.81	2.20	61%
83595	SOX7	Y							NM_031439	26.03	2.20	61%
124583	CANT1	Y							NM_138793	14.69	2.20	61%
83873	GPR61								NM_031936	16.39	2.20	61%
6041	RNASEL								NM_021133	46.00	2.21	61%
3419	IDH3A								NM_005530	20.28	2.21	61%
83661	MS4A8B	Y					Y		BC022895	36.39	2.21	61%
427	ASAH1								NM_177924	36.28	2.21	61%
54581	SCAND2								NM_033640	24.00	2.21	61%
117145	THEM4								NM_053055	32.33	2.21	61%
2512	FTL		Y	Y					BC013928	36.17	2.21	61%
65992	C2orf116								BC007957	26.08	2.21	61%
10237	SLC35B1								BC011888	29.75	2.21	61%
79752	ZFAND1								BC022251	23.83	2.21	61%
5362	PLXNA2	Y							BC032125	29.39	2.21	61%
29080	CCDC59								BC020647	67.17	2.21	61%
5152	PDE9A								BC009047	48.56	2.22	61%
8908	GYG2								BC023152	41.58	2.22	61%
3782	KCNN3					Y			BC042147	32.22	2.22	61%
6445	SGCG						Y		NM_000231	23.11	2.22	61%
1025	CDK9								BC001968	14.64	2.23	61%
122953	JDP2						Y		NM_130469	20.50	2.23	61%
8621	CDC2L5								BC001274	18.53	2.24	61%
79370	BCL2L14								NM_138722	42.33	2.24	61%
57152	SLURP1								NM_020427	26.67	2.24	61%
58488	PCTP								BC012084	20.08	2.24	61%
4351	MPI								NM_002435	13.86	2.24	61%
5304	PIP								NM_002652	36.39	2.24	61%
1432	MAPK14								NM_139012	16.81	2.25	61%
58478	ENOPH1								NM_021204	9.25	2.25	61%
140691	TRIM69								BC047945	36.08	2.25	61%
388962	BOLA3								BC042036	44.67	2.25	61%
57415	C3orf14					Y	Y		NM_020685	20.25	2.25	61%
85021	REPS1								BC021211	43.58	2.25	61%
79053	ALG8								NM_024079	18.42	2.26	61%
65083	NOL6								BC008298	20.25	2.26	61%
10318	TNIP1								BC014008	37.39	2.27	61%
1783	DYNC1LI2								BC025959	11.39	2.27	61%
54149	C21orf91								BC015468	27.53	2.27	61%
170261	ZCCHC12						Y		BC036572	26.25	2.27	61%
3122	HLA-DRA								BC032350	16.00	2.27	61%
84722	PSRC1								NM_032636	39.67	2.28	61%
6318	SERPINB4								NM_002974	26.58	2.28	61%

29068	ZBTB44								BC050723	30.69	2.28	61%
7171	TPM4						Y		BC002827	17.61	2.28	61%
5063	PAK3							Y	NM_002578	126.08	2.28	61%
10944	C11orf58								NM_014267	163.17	2.29	61%
5598	MAPK7							Y	NM_002749	270.14	2.29	61%
4939	OAS2	Y						Y	BC049215	46.64	2.31	61%
11200	CHEK2								BC004207	6.78	2.31	61%
11092	C9orf9								NM_018956	68.47	2.31	61%
1729	DIAPH1								BC007411	35.81	2.31	61%
25898	RCHY1								BC047393	33.83	2.31	61%
65062	ALS2CR4								BC029611	331.00	2.32	61%
201163	FLCN								BC015725	74.78	2.32	61%
4300	MLLT3								BC036089	23.03	2.32	61%
814	CAMK4							Y	NM_001744	26.11	2.33	61%
8440	NCK2								BC000103	106.44	2.33	61%
6699	SPRR1B							Y	BC056240	22.58	2.33	61%
23175	LPIN1								BC030537	71.53	2.33	61%
7802	DNALI1								BC046117	57.28	2.33	61%
4674	NAP1L2								BC026325	33.64	2.33	61%
9014	TAF1B								BC018137	24.78	2.33	61%
54431	DNAJC10								BC034713	29.44	2.34	61%
137835	TMEM71							Y	BC062592	27.36	2.34	61%
11336	EXOC3					Y			BC001511	30.47	2.34	61%
26505	CNNM3								BC007199	54.83	2.35	61%
57658	CALCOCO1								NM_020898	59.61	2.35	61%
29097	CNIH4								NM_014184	17.44	2.35	61%
10665	C6orf10								BC034774	93.25	2.35	61%
2639	GCDH		Y	Y					NM_000159	20.25	2.35	61%
51144	HSD17B12								BC012536	32.69	2.35	61%
51019	CCDC53								BC010889	43.42	2.35	61%
200185	KRTCAP2								NM_173852	20.58	2.35	61%
84309	NUDT16L1								NM_032349	75.64	2.35	61%
207	AKT1								BC000479	79.61	2.36	61%
873	CBR1								NM_001757	13.31	2.36	61%
55591	VEZT								BC064939	36.69	2.36	61%
6675	UAP1			Y					NM_003115	43.97	2.36	61%
9709	HERPUD1								NM_014685	36.39	2.36	61%
54764	ZRANB1								BC048281	25.50	2.36	61%
9741	LAPTM4A								NM_014713	29.39	2.37	61%
56997	CABC1								NM_020247	23.64	2.37	61%
138199	C9orf41								NM_152420	136.86	2.38	61%
119	ADD2							Y	BC065525	158.42	2.38	61%
1337	COX6A1								NM_004373	23.81	2.38	61%
135	ADORA2A							Y	NM_000675	28.08	2.38	61%
79656	C1orf165								BC011804	19.36	2.38	61%
10159	ATP6AP2			Y					BC010395	23.92	2.38	61%
745	C11orf9								BC004938	18.53	2.38	61%
5082	PDCL								BC017227	18.50	2.39	61%
6780	STAU1								BC050432	31.14	2.39	61%
6626	SNRPA								NM_004596	30.17	2.39	61%
5675	PSG6								BC020652	35.19	2.39	61%
9796	PHYHIP	Y							NM_014759	45.86	2.40	61%

9086	EIF1AY							BC005248	198.06	2.40	61%
23179	RGL1	Y		Y				NM_015149	13.64	2.40	61%
635	BHMT		Y	Y				BC012616	35.92	2.40	61%
3550	IK							BC013005	21.06	2.40	61%
140290	TCP10L							NM_144659	12.92	2.40	61%
9948	WDR1							NM_017491	32.75	2.40	61%
11269	DDX19B							NM_007242	34.03	2.41	61%
57406	ABHD6		Y	Y				NM_020676	29.89	2.41	61%
53354	PANK1		Y	Y				BC026296	17.36	2.41	61%
54968	TMEM70							NM_017866	24.14	2.41	61%
51202	DDX47							NM_016355	457.69	2.41	61%
113457	TUBA3D							BC057810	36.81	2.41	61%
11335	CBX3							BC000954	28.64	2.41	61%
54494	C11orf71							NM_019021	46.56	2.42	61%
3028	HSD17B10							BC008708	33.31	2.42	61%
130026	ICA1L					Y	Y	NM_138468	20.94	2.42	61%
64065	PERP						Y	NM_022121	15.42	2.43	61%
57404	CYP20A1							BC033752	25.78	2.43	61%
80014	WWC2							BC017957	56.72	2.43	61%
64768	IPPK							NM_022755	19.92	2.43	61%
23543	RBM9							BC013115	17.94	2.44	61%
10320	IKZF1			Y			Y	BC018349	49.67	2.44	61%
8479	HIRIP3							NM_003609	36.94	2.44	61%
27072	VPS41							BC044851	23.08	2.44	61%
10880	ACTL7B							NM_006686	16.81	2.44	61%
6281	S100A10							NM_002966	20.00	2.45	61%
81617	CAB39L						Y	BC010993	46.69	2.45	61%
158248	TTC16							BC031281	71.36	2.46	61%
25865	PRKD2							NM_016457	94.33	2.46	61%
2776	GNAQ							NM_002072	26.19	2.46	61%
2803	GOLGA4							BC050444	46.97	2.46	61%
4287	ATXN3							BC033711	134.94	2.46	61%
91	ACVR1B			Y				NM_020328	28.81	2.47	61%
5979	RET							NM_020975	110.83	2.47	61%
1543	CYP1A1					Y	Y	NM_000499	23.50	2.47	61%
10730	YME1L1							NM_139313	23.56	2.47	61%
57763	ANKRA2							NM_023039	67.97	2.47	61%
1612	DAPK1							NM_004938	18.11	2.47	61%
55795	PCID2							BC016614	22.14	2.48	61%
3884	KRT33B							NM_002279	16.08	2.48	61%
1912	PHC2							BC028396	25.75	2.49	61%
116441	TM4SF18	Y		Y				NM_138786	29.06	2.49	61%
6117	RPA1							NM_002945	94.19	2.49	61%
11083	DIDO1							BC000770	25.42	2.49	61%
339122	RAB43							NM_198490	31.97	2.49	61%
3047	HBG1							NM_000559	21.00	2.50	61%
10296	MAEA							BC006470	21.28	2.50	61%
199746	U2AF1L4							NM_144987	13.92	2.50	61%
64850	AGXT2L1		Y	Y				NM_031279	110.69	2.50	61%
6878	TAF6							NM_005641	45.06	2.51	61%
2585	GALK2		Y	Y				NM_002044	27.64	2.51	61%
7172	TPMT			Y				BC005339	24.42	2.52	61%

6156	RPL30							Y	NM_000989	168.86	2.52	61%
901	CCNG2								BC032518	29.92	2.52	61%
6790	AURKA								NM_003600	28.75	2.52	61%
51426	POLK								BC050718	30.64	2.52	61%
152007	C9orf19							Y	BC017918	25.94	2.52	61%
93081	C13orf27								NM_138779	62.31	2.53	61%
9607	CARTPT								NM_004291	10.67	2.54	61%
23139	MAST2								NM_015112	26.17	2.54	61%
54943	C21orf55								BC029509	23.31	2.54	61%
406	ARNTL								NM_001178	44.11	2.55	61%
26298	EHF							Y	NM_012153	30.22	2.55	61%
153241	CCDC100								BC040527	23.42	2.55	61%
4143	MAT1A								BC018359	30.67	2.55	61%
671	BPI								BC040955	21.08	2.55	61%
4608	MYBPH								NM_004997	40.22	2.55	61%
3620	INDO								NM_002164	84.17	2.56	61%
138311	FAM69B								NM_152421	27.03	2.56	61%
1453	CSNK1D								NM_139062	22.00	2.56	61%
2542	SLC37A4		Y	Y					NM_001467	10.58	2.57	61%
146456	TMED6		Y	Y					NM_144676	16.44	2.57	61%
8468	FKBP6							Y	BC036817	24.39	2.57	61%
9616	RNF7								NM_014245	37.56	2.58	61%
3512	IGJ							Y	NM_144646	56.03	2.58	61%
8893	EIF2B5								NM_003907	73.94	2.59	61%
4086	SMAD1							Y	NM_005900	33.92	2.59	61%
6297	SALL2								BC024245	20.42	2.59	61%
7179	TPTE								BC028719	9.00	2.60	61%
2787	GNG5								NM_005274	30.44	2.60	61%
483	ATP1B3							Y	NM_001679	26.39	2.60	61%
27316	RBMX								BC006550	49.69	2.60	61%
95	ACY1		Y	Y					NM_000666	30.94	2.60	61%
7529	YWHAB								BC010352	22.61	2.61	61%
92305	TMEM129								NM_138385	16.25	2.61	61%
196477	C12orf12								NM_152638	53.17	2.61	61%
2044	EPHA5								NM_004439	79.00	2.61	61%
6843	VAMP1								BC023286	37.69	2.62	61%
4439	MSH5								BC041031	13.75	2.62	61%
84064	HDHD2								NM_032124	16.50	2.63	61%
5602	MAPK10								NM_002753	19.64	2.63	61%
1984	EIF5A								NM_001970	12.75	2.63	61%
282966	C10orf53								NM_182554	16.69	2.63	61%
2321	FLT1	Y							NM_002019	160.39	2.64	61%
51474	LIMA1								BC001247	23.69	2.64	61%
128	ADH5								BC014665	30.94	2.64	61%
115908	CTHRC1							Y	NM_138455	23.03	2.64	61%
6167	RPL37								NM_000997	38.03	2.64	61%
10425	ARIH2								NM_006321	15.00	2.65	61%
4259	MGST3								NM_004528	19.00	2.65	61%
2771	GNAI2								NM_002070	46.08	2.66	61%
29965	C16orf5			Y					BC002882	18.89	2.66	61%
84164	ASCC2							Y	NM_032204	12.36	2.67	61%
112487	C14orf126								NM_080664	22.14	2.67	61%

6347	CCL2						Y	NM_002982	68.67	2.67	61%		
54478	FAM64A						Y	BC013966	136.89	2.68	61%		
54988	FLJ20581		Y	Y				BC016703	25.75	2.68	61%		
80777	CYB5B						Y	NM_030579	13.53	2.69	61%		
130013	ACMSD		Y	Y				NM_138326	14.64	2.69	61%		
80347	COASY							BC020985	103.89	2.69	61%		
6795	AURKC							NM_003160	144.22	2.69	61%		
9921	RNF10							NM_014868	123.56	2.69	61%		
79695	GALNT12						Y	Y	BC013945	18.11	2.69	61%	
2197	FAU							Y	NM_001997	34.25	2.69	61%	
79047	KCTD15								NM_024076	125.97	2.70	61%	
54518	APBB1IP							Y	BC035636	79.86	2.70	61%	
64764	CREB3L2								BC063666	10.81	2.70	61%	
136895	C7orf31								BC043269	16.81	2.70	61%	
26258	PLDN								NM_012388	25.00	2.70	61%	
25972	UNC50								NM_014044	77.00	2.70	61%	
9209	LRRFIP2								NM_017724	20.36	2.71	61%	
255520	ELMOD2								NM_153702	31.72	2.71	61%	
25840	METTL7A			Y					NM_014033	22.06	2.71	61%	
10947	AP3M2								BC056398	11.31	2.71	61%	
328	APEX1							Y	NM_001641	17.22	2.72	61%	
80267	EDEM3								BC016464	39.92	2.72	61%	
246778	IL27								BC062422	40.31	2.72	61%	
7186	TRAF2								NM_021138	65.97	2.72	61%	
2014	EMP3								NM_001425	15.06	2.73	61%	
51148	CEECAM1								BC011811	16.11	2.73	61%	
26515	FXC1								BC011014	14.67	2.73	61%	
23014	FBXO21			Y					BC042333	57.89	2.73	61%	
7184	HSP90B1								BC009195	18.94	2.73	61%	
5607	MAP2K5								BC008838	18.14	2.73	61%	
771	CA12		Y	Y					BC001012	30.11	2.74	61%	
5743	PTGS2							Y	NM_000963	21.75	2.74	61%	
10681	GNB5								NM_006578	15.58	2.74	61%	
4793	NFKBIB								NM_002503	16.47	2.75	61%	
9519	TBPL1								BC000381	316.36	2.75	61%	
128977	LOC128977								NM_173793	13.83	2.76	61%	
60313	GPBP1L1								NM_021639	114.92	2.76	61%	
54995	OXSM								NM_017897	19.19	2.77	61%	
9929	JOSD1								NM_014876	26.17	2.77	61%	
135886	WBSCR28								BC030643	19.83	2.77	61%	
51166	AADAT								BC031068	63.56	2.77	61%	
10363	HMG20A								NM_018200	16.94	2.77	61%	
84432	PROK1								BC025399	24.25	2.78	61%	
1318	SLC31A2								NM_001860	14.00	2.78	61%	
27241	BBS9								BC032715	16.72	2.79	61%	
65999	LRRRC61							Y	Y	NM_023942	22.25	2.79	61%
338382	RAB7B								BC007382	79.33	2.80	61%	
51501	C11orf73								NM_016401	16.17	2.80	61%	
10211	FLOT1								NM_005803	27.31	2.80	61%	
10055	SAE1								Y	NM_005500	17.97	2.81	61%
51503	HSPC148								BC040946	471.39	2.81	61%	
347735	SERINC2								BC017085	30.22	2.81	61%	

9128	PRPF4								NM_004697	7.67	2.81	61%
1635	DCTD								BC001286	34.78	2.82	61%
23462	HEY1					Y			BC001873	13.75	2.83	61%
55737	VPS35							Y	BC010362	25.78	2.83	61%
27063	ANKRD1								BC018667	23.22	2.83	61%
51759	C9orf78								NM_016520	128.17	2.83	61%
55746	NUP133								BC020107	17.56	2.83	61%
6885	MAP3K7								NM_003188	14.47	2.83	61%
27130	INVS								BC006370	31.64	2.84	61%
26065	LSM14A								BC016842	31.42	2.84	61%
956	ENTPD3							Y	BC029869	12.97	2.84	61%
9589	WTAP								NM_004906	11.33	2.85	61%
8569	MKNK1								BC002755	12.19	2.87	61%
23074	KIAA0701								BC014891	28.94	2.87	61%
9140	ATG12								BC012266	34.92	2.89	61%
79590	MRPL24								NM_024540	27.56	2.91	61%
6197	RPS6KA3								NM_004586	17.92	2.91	61%
1163	CKS1B								NM_001826	37.56	2.91	61%
3839	KPNA3								BC017355	34.83	2.91	61%
55214	LEPREL1								BC005029	29.47	2.92	61%
4141	MARS								NM_004990	18.92	2.92	61%
2819	GPD1		Y	Y					NM_005276	24.03	2.93	61%
51398	C19orf56								NM_016145	30.17	2.93	61%
124808	CCDC43								BC047776	11.42	2.94	61%
9659	PDE4DIP							Y	BC025406	108.00	2.95	61%
1385	CREB1								NM_134442	14.28	2.95	61%
3382	ICA1								BC005922	15.89	2.95	61%
79849	PDZD3	Y	Y	Y					NM_024791	20.97	2.96	61%
81608	FIP1L1								BC017724	93.69	2.97	61%
6790	AURKA								NM_003600	40.97	2.98	61%
10477	UBE2E3								NM_006357	17.17	2.98	61%
92675	HARS2								BC045167	94.81	2.99	61%
9649	RALGPS1								BC032372	11.69	2.99	61%
8674	VAMP4								BC005974	50.75	3.01	61%
6169	RPL38								NM_000999	21.58	3.01	61%
81606	LBH							Y	BC012373	43.28	3.02	61%
2268	FGR								NM_005248	13.78	3.02	61%
5105	PCK1		Y	Y					NM_002591	25.47	3.02	61%
29781	NCAPH2								NM_014551	42.25	3.03	61%
4216	MAP3K4								NM_005922	18.44	3.04	61%
138065	RNF183	Y							NM_145051	13.92	3.05	61%
114904	C1QTNF6								NM_031910	62.94	3.05	61%
10435	CDC42EP2							Y	NM_006779	118.67	3.05	61%
1846	DUSP4							Y Y	NM_001394	16.86	3.05	61%
375341	C3orf62								BC061697	15.42	3.06	61%
158471	PRUNE2				Y				NM_138818	26.11	3.06	61%
7373	COL14A1								BC014640	27.14	3.06	61%
8780	RIOK3								NM_003831	11.61	3.06	61%
51277	RBJ								NM_016544	50.50	3.09	61%
662	BNIP1								BC010959	12.75	3.10	61%
8048	CSRP3								NM_003476	32.69	3.10	61%
83606	C22orf13		Y	Y					BC070109	50.72	3.11	61%

5000	ORC4L							BC014847	28.78	3.11	61%
117177	RAB3IP							BC015548	12.53	3.11	61%
217	ALDH2		Y	Y				NM_000690	16.61	3.12	61%
8677	STX10							BC017237	27.53	3.12	61%
55014	STX17							BC051790	15.31	3.12	61%
26576	SRPK3							NM_014370	70.39	3.13	61%
10436	EMG1						Y	BC055314	12.94	3.13	61%
9252	RPS6KA5						Y	NM_004755	57.39	3.13	61%
28231	SLCO4A1						Y	BC025345	111.58	3.13	61%
958	CD40	Y					Y	NM_001250	11.47	3.13	61%
55778	C14orf131							BC006222	34.22	3.14	61%
8574	AKR7A2		Y	Y				BC010852	33.89	3.15	61%
8942	KYNU			Y			Y	BC000879	33.72	3.16	61%
2987	GUK1							NM_000858	38.00	3.18	61%
151393	FAM82A							BC024243	18.86	3.18	61%
84303	CHCHD6							NM_032343	23.33	3.18	61%
23408	SIRT5						Y	NM_012241	45.83	3.19	61%
83450	LRRC48							BC050419	26.19	3.20	61%
26135	SERBP1							NM_015640	168.75	3.21	61%
94081	SFXN1							BC020517	17.50	3.21	61%
6903	TBCC							NM_003192	54.69	3.21	61%
2267	FGL1						Y	BC007047	10.14	3.21	61%
26097	C1orf77							BC002733	63.50	3.21	61%
84310	MGC11257							NM_032350	240.97	3.21	61%
23048	FBNP1	Y					Y	BC009262	12.36	3.22	61%
83787	ARMC10							BC003586	13.22	3.23	61%
875	CBS						Y	NM_000071	22.11	3.23	61%
3964	LGALS8							BC014452	29.33	3.24	61%
130827	TMEM182						Y	BC020898	14.11	3.24	61%
7597	ZBTB25							NM_006977	31.97	3.25	61%
3151	HMG2							NM_005517	527.39	3.25	61%
2027	ENO3						Y	BC017249	16.14	3.25	61%
4350	MPG							BC014991	50.11	3.25	61%
9559	VPS26A							NM_004896	12.39	3.25	61%
51008	ASCC1							BC012291	32.31	3.26	61%
8894	EIF2S2							BC007888	62.89	3.26	61%
143686	SESN3						Y	BC017296	12.78	3.27	61%
23265	EXOC7							BC015165	19.36	3.27	61%
5993	RFX5							NM_000449	20.72	3.27	61%
1009	CDH11						Y	BC013609	13.61	3.28	61%
55905	ZNF313							NM_018683	42.94	3.28	61%
80705	TSGA10							BC028366	54.31	3.28	61%
1861	TOR1A							BC014484	29.31	3.28	61%
64518	TEKT3							BC031688	14.61	3.28	61%
51365	PLA1A	Y						BC047703	15.83	3.29	61%
81618	ITM2C							BC002424	20.72	3.29	61%
51142	CHCHD2							NM_016139	18.47	3.30	61%
4828	NMB							BC007407	11.89	3.31	61%
573	BAG1						Y	BC014774	12.64	3.31	61%
10589	DRAP1							NM_006442	10.33	3.31	61%
5899	RALB							NM_002881	109.31	3.32	61%
4477	MSMB						Y	NM_002443	16.81	3.32	61%

8796	SCEL							BC047536	80.89	3.34	61%
25875	LETMD1							BC000395	8.33	3.35	61%
51186	WBP5							NM_016303	19.19	3.36	61%
56853	BRUNOL4							BC001946	18.97	3.37	61%
84173	RBED1							NM_032213	14.19	3.39	61%
55347	ABHD10		Y	Y				NM_018394	15.17	3.41	61%
4879	NPPB							NM_002521	12.56	3.41	61%
2999	GZMH	Y					Y	NM_033423	16.56	3.43	61%
64428	NARFL							NM_022493	15.03	3.43	61%
11267	SNF8							NM_007241	11.03	3.44	61%
8613	PPAP2B	Y						BC009196	16.28	3.45	61%
6607	SMN2							NM_017411	15.56	3.46	61%
79640	CTA-216E10.6							NM_024588	18.03	3.46	61%
6885	MAP3K7							NM_003188	25.64	3.46	61%
788	SLC25A20							NM_000387	16.28	3.47	61%
5562	PRKAA1							NM_006251	10.19	3.47	61%
79646	PANK3							NM_024594	15.56	3.48	61%
57488	FAM62B					Y		BC013957	23.44	3.48	61%
59286	UBL5							NM_024292	36.06	3.48	61%
63827	BCAN						Y	BC010117	11.28	3.50	61%
7167	TPI1							BC017917	60.42	3.51	61%
5580	PRKCD						Y	NM_006254	19.17	3.51	61%
5582	PRKCG							NM_002739	13.39	3.53	61%
151531	UPP2		Y	Y				BC033529	17.06	3.54	61%
51068	NMD3							NM_015938	9.28	3.54	61%
8161	COIL							NM_004645	170.78	3.55	61%
3198	HOXA1						Y	NM_005522	73.22	3.55	61%
10768	AHCYL1			Y				BC016942	30.53	3.58	61%
326625	MMAB							NM_052845	79.28	3.58	61%
3646	EIF3S6						Y	BC005944	18.00	3.59	61%
5635	PRPSAP1							BC009012	19.94	3.59	61%
10285	SMNDC1							BC011234	28.56	3.60	61%
2305	FOXM1							BC006192	43.56	3.60	61%
9094	UNC119							NM_005148	75.94	3.60	61%
6949	TCOF1							NM_001008657	40.00	3.61	61%
10085	EDIL3							BC053656	35.11	3.61	61%
283899	CCDC95							NM_173618	87.36	3.61	61%
10218	ANGPTL7							NM_021146	14.28	3.63	61%
50810	HDFGRP3							NM_016073	13.17	3.63	61%
118	ADD1							BC013393	26.94	3.65	61%
29956	LASS2			Y				BC010032	12.64	3.65	61%
8444	DYRK3							NM_003582	76.22	3.65	61%
54884	RETSAT			Y				BC011418	14.36	3.66	61%
64100	ELSPBP1							NM_022142	14.83	3.68	61%
83732	RIOK1							BC006104	15.86	3.68	61%
54555	DDX49							BC000979	25.58	3.69	61%
9073	CLDN8							NM_199328	15.56	3.70	61%
10492	SYNCRIP							BC040844	24.97	3.70	61%
91612	CHURC1							BC020550	12.14	3.71	61%
92840	REEP6		Y	Y				BC008201	8.58	3.71	61%
4103	MAGEA4							NM_002362	17.08	3.72	61%
23210	JMJD6							BC066654	47.83	3.74	61%

5499	PPP1CA								NM_002708	9.72	3.75	61%
10857	PGRMC1								NM_006667	55.28	3.76	61%
10914	PAPOLA								NM_032632	53.08	3.78	61%
661	POLR3D								NM_001722	52.47	3.78	61%
201254	STRA13						Y		BC009571	34.58	3.80	61%
2353	FOS								NM_005252	20.22	3.82	61%
79663	HSPBAP1								NM_024610	17.47	3.84	61%
8800	PEX11A								NM_003847	25.97	3.84	61%
6385	SDC4								BC030805	8.81	3.88	61%
6928	TCF2								NM_000458	11.39	3.88	61%
5414	Sep4	Y							NM_004574	181.86	3.89	61%
3603	IL16						Y		BC040272	11.08	3.89	61%
55236	UBE1L2								BC031637	18.03	3.89	61%
286	ANK1								BC030957	22.33	3.91	61%
3281	HSBP1								NM_001537	25.06	3.92	61%
10298	PAK4								NM_005884	9.08	3.92	61%
55705	IPO9								BC003604	24.97	3.92	61%
55215	KIAA1794								BC004277	3.81	3.92	61%
6777	STAT5B								BC020868	23.08	3.93	61%
1360	CPB1								NM_001871	16.86	3.93	61%
114876	OSBPL1A								BC041563	11.92	3.95	61%
8848	TSC22D1	Y							NM_006022	12.33	3.95	61%
114907	FBXO32								BC024030	18.92	3.97	61%
10988	METAP2						Y		NM_006838	30.17	3.99	61%
57414	RHBDD2								BC006234	13.81	3.99	61%
2047	EPHB1		Y	Y					NM_004441	15.56	4.00	61%
127018	LYPLAL1			Y					NM_138794	13.17	4.01	61%
153339	TMEM167								NM_174909	5.72	4.03	61%
137492	VPS37A								BC022363	14.53	4.04	61%
5747	PTK2								NM_153831	29.58	4.05	61%
6203	RPS9						Y		NM_001013	22.53	4.06	61%
54107	POLE3								BC003166	52.81	4.06	61%
55038	CDCA4								BC025263	13.94	4.08	61%
2709	GJB5						Y		NM_005268	21.89	4.09	61%
27350	APOBEC3C						Y		BC011739	14.42	4.12	61%
10933	MORF4L1								NM_006791	18.94	4.12	61%
5366	PMAIP1								BC032663	9.25	4.14	61%
26207	PITPNC1								NM_181671	5.94	4.15	61%
3185	HNRPF						Y		NM_004966	115.64	4.17	61%
123263	MTFMT								NM_139242	10.53	4.18	61%
5879	RAC1								BC004247	9.72	4.18	61%
9499	MYOT								NM_006790	16.00	4.20	61%
6714	SRC								NM_005417	14.64	4.23	61%
29916	SNX11								NM_013323	3.92	4.24	61%
81887	LAS1L								BC019302	15.03	4.25	61%
5264	PHYH		Y	Y					NM_006214	9.17	4.27	61%
3964	LGALS8								BC014452	16.44	4.27	61%
8878	SQSTM1						Y		NM_003900	18.61	4.30	61%
51077	FCF1								BC022361	26.47	4.30	61%
5834	PYGB								NM_002862	16.89	4.33	61%
84319	C3orf26								NM_032359	13.44	4.33	61%
4088	SMAD3						Y		NM_005902	15.42	4.34	61%

85363	TRIM5								BC021258	9.64	4.35	61%
55090	MED9								NM_018019	20.00	4.35	61%
2132	EXT2								NM_000401	12.28	4.41	61%
23632	CA14								NM_012113	11.72	4.47	61%
51286	CEND1								NM_016564	13.53	4.53	61%
84545	MRPL43								BC052639	8.89	4.54	61%
974	CD79B						Y		BC030210	10.53	4.57	61%
4515	MTCP1								NM_014221	14.03	4.57	61%
28966	SNX24			Y					NM_014035	10.39	4.57	61%
7013	TERF1								BC029378	45.56	4.61	61%
7009	TEGT			Y					BC000916	12.92	4.61	61%
11103	KRR1						Y		BC016778	74.03	4.68	61%
328	APEX1						Y		NM_001641	21.78	4.72	61%
1453	CSNK1D								NM_139062	8.47	4.81	61%
9	NAT1								BC047666	9.44	4.84	61%
112950	MED8								NM_052877	34.42	4.85	61%
8832	CD84								NM_003874	22.86	4.93	61%
80201	HKDC1								BC021278	20.39	4.96	61%
54474	KRT20						Y		NM_019010	4.33	5.02	61%
440	ASNS								NM_001673	10.69	5.07	61%
4771	NF2								BC020257	9.00	5.11	61%
83988	NCALD			Y					BC009949	9.58	5.24	61%
23635	SSBP2								BC017020	13.64	5.36	61%
8851	CDK5R1						Y		NM_003885	22.83	5.41	61%
56922	MCCC1								NM_020166	10.33	5.42	61%
2123	EVI2A						Y		BC035572	22.67	5.43	61%
55450	CAMK2N1			Y					BC020630	6.00	5.44	61%
57035	C1orf63								NM_020317	18.83	5.48	61%
79847	TMEM180								BC057787	7.36	5.54	61%
55789	DEPDC1B		Y	Y					BC010904	7.25	5.62	61%
4921	DDR2						Y		NM_006182	38.08	5.67	61%
84861	KLHL22								NM_032775	8.78	5.70	61%
56986	DTWD1						Y		NM_020234	10.75	5.84	61%
10555	AGPAT2								BC000026	13.19	5.90	61%
8260	ARD1A								NM_003491	7.36	5.92	61%
10864	SLC22A7	Y	Y						NM_153320	29.83	5.96	61%
1432	MAPK14								NM_139012	14.58	5.98	61%
1672	DEFB1		Y	Y					NM_005218	7.03	6.01	61%
72	ACTG2						Y		NM_001615	11.67	6.02	61%
25849	DKFZP564O0823						Y		BC013294	17.06	6.05	61%
2742	GLRA2								BC032864	17.11	6.11	61%
26010	DNAPTP6								BC018736	12.28	6.14	61%
5689	PSMB1								NM_002793	3.61	6.27	61%
5603	MAPK13						Y		NM_002754	22.17	6.30	61%
51528	C14orf100								NM_016475	10.75	6.31	61%
5912	RAP2B						Y		BC012362	3.75	6.45	61%
4998	ORC1L								NM_004153	15.92	6.51	61%
127435	PODN						Y		BC030608	10.92	6.54	61%
6609	SMPD1								BC041164	14.89	6.58	61%
7032	TFF2								NM_005423	10.50	6.89	61%
3308	HSPA4								BC002526	10.08	6.90	61%
11127	KIF3A								NM_007054	43.72	6.92	61%

23743	BHMT2	Y	Y	Y					NM_017614	5.83	7.04	61%
9265	PSCD3								NM_004227	4.11	7.15	61%
443	ASPA								NM_000049	16.42	7.21	61%
1316	KLF6								BC004301	12.33	7.29	61%
2039	EPB49								BC006318	17.39	7.74	61%
2022	ENG	Y							BC014271	13.56	7.75	61%
26225	ARL5A								NM_012097	18.03	7.80	61%
249	ALPL		Y	Y					BC021289	8.33	7.98	61%
2806	GOT2								BC000525	11.94	8.08	61%
54965	PIGX								NM_017861	8.97	8.11	61%
83719	YPEL3								NM_031477	9.00	8.21	61%
84418	C5orf32								BC023982	12.42	8.24	61%
64429	ZDHHC6	Y							BC007213	3.47	8.40	61%
91703	ACY3		Y	Y					NM_080658	15.72	8.46	61%
2273	FHL1						Y		NM_001449	79.28	8.51	61%
6503	SLA	Y							NM_006748	6.19	8.81	61%
84693	MCEE								NM_032601	5.03	8.90	61%
7850	IL1R2								NM_004633	3.33	9.03	61%
805	CALM2								BC008437	8.03	9.06	61%
203286	ANKS6	Y							BC064367	12.94	9.38	61%
114883	OSBPL9								NM_148904	5.86	10.76	61%
54861	SNRK								NM_017719	8.69	10.78	61%
1397	CRIP2								NM_001312	7.89	11.32	61%
221002	RASGEF1A					Y			NM_145313	3.19	12.01	61%
64853	C1orf80								BC015535	5.08	12.13	61%
273	AMPH					Y			BC034376	20.19	12.54	61%
90523	C6orf142						Y		BC009010	11.72	12.91	61%
56895	AGPAT4					Y			NM_020133	35.72	13.22	61%
57102	C12orf4								NM_020374	1.64	13.25	61%
57097	PARP11								BC031073	8.11	13.46	61%
5705	PSMC5								NM_002805	5.31	13.51	61%
92105	INTS4								NM_033547	3.47	13.88	61%
4327	MMP19						Y		NM_002429	7.61	13.97	61%
51004	COQ6								BC014181	6.03	14.13	61%
55166	CENPQ								NM_018132	2.25	14.24	61%
11162	NUDT6								NM_007083	4.28	15.77	61%
56941	C3orf37								BC010125	2.81	15.82	61%
23184	MESDC2								BC012746	9.11	16.35	61%
123228	SENP8								NM_145204	23.97	18.17	61%
81027	TUBB1								NM_030773	1.83	18.69	61%
6102	RP2								BC043348	1.69	18.94	61%
10946	SF3A3								NM_006802	2.39	20.50	61%
4171	MCM2								NM_004526	2.11	21.55	61%
3052	HCCS			Y					NM_005333	5.17	21.67	61%
6404	SELPLG						Y		NM_003006	3.44	24.07	61%
8490	RGS5								NM_003617	2.39	24.62	61%
1326	MAP3K8								NM_005204	2.14	27.15	61%
50488	MINK1								NM_015716	8.00	41.09	61%
57449	PLEKHG5								BC042606	1.42	43.01	61%
8877	SPHK1								NM_021972	0.39	79.40	61%
81034	SLC25A32								NM_030780	1.47	81.52	61%
9146	HGS								NM_004712	7.81	81.73	61%

9343	EFTUD2							BC002360	1.06	94.38	61%
79442	LRRC2	Y						NM_024750	0.33	250.82	61%
118812	C10orf83			Y				NM_178832	-0.03	4211.26	56%
977	CD151							NM_004357	-0.42	-207.56	56%
2947	GSTM3							BC008790	-0.53	-202.03	56%
2983	GUCY1B3							BC047620	-1.78	-183.18	56%
2844	GPR21							NM_005294	-0.36	-109.00	56%
55284	UBE2W							BC010900	-0.81	-103.28	56%
26292	MYCBP							BC008686	-1.08	-61.24	56%
2780	GNAT2							NM_005272	-1.50	-60.73	56%
1794	DOCK2						Y	BC016996	-2.00	-45.08	56%
5155	PDGFB	Y						NM_002608	-5.28	-41.12	56%
833	CARS						Y	BC002880	-6.97	-34.19	56%
1021	CDK6	Y						NM_001259	-2.06	-34.11	56%
6279	S100A8							NM_002964	-1.36	-30.63	56%
23548	TTC33							NM_012382	-2.00	-29.75	56%
255426	RASGEF1C							BC057759	-3.53	-25.59	56%
5276	SERPINI2	Y						NM_006217	-2.44	-22.21	56%
10313	RTN3						Y	NM_006054	-2.25	-21.34	56%
1831	TSC22D3							NM_004089	-3.61	-21.18	56%
26225	ARL5A							NM_012097	-2.14	-20.38	56%
5018	OXA1L							BC001669	-10.06	-20.25	56%
120224	TMEM45B							NM_138788	-2.75	-19.76	56%
6301	SARS							BC009390	-4.22	-18.97	56%
51451	LCMT1							BC001214	-2.08	-18.73	56%
55851	PSENIEN							NM_172341	-4.64	-15.96	56%
55888	ZNF167							BC010555	-5.81	-14.61	56%
54443	ANLN						Y	BC034692	-4.03	-13.86	56%
135114	HINT3							BC015732	-7.03	-13.64	56%
5359	PLSCR1						Y	NM_021105	-12.56	-12.53	56%
3927	LASP1						Y	BC007560	-9.00	-12.20	56%
27163	ASAH1							NM_014435	-17.33	-11.63	56%
10623	POLR3C							BC004424	-10.31	-11.32	56%
9653	HS2ST1							BC025990	-4.64	-10.48	56%
203569	PAGE2							BC054022	-4.86	-8.89	56%
3038	HAS3						Y	NM_138612	-14.25	-8.84	56%
197	AHSG							NM_001622	-33.86	-8.80	56%
3430	IFI35							NM_005533	-5.17	-8.59	56%
154	ADRB2						Y	NM_000024	-22.31	-8.00	56%
25999	CLIP3	Y					Y	BC014486	-16.25	-7.59	56%
124152	IQCK						Y	NM_153208	-12.53	-7.46	56%
3145	HMBS							NM_000190	-26.86	-7.12	56%
8406	SRPX						Y	NM_006307	-10.53	-6.98	56%
2222	FDFT1							BC009251	-9.67	-6.78	56%
6309	SC5DL							BC012333	-22.97	-6.20	56%
51184	ATPBD1C							NM_016301	-30.44	-6.05	56%
51265	CDKL3							NM_016508	-29.08	-5.69	56%
25885	POLR1A							BC017115	-29.67	-5.53	56%
10797	MTHFD2						Y	BC017054	-49.22	-5.52	56%
9341	VAMP3							NM_004781	-35.78	-5.38	56%
9130	FAM50A							NM_004699	-37.22	-5.36	56%
27018	NGFRAP1							NM_014380	-14.61	-4.91	56%

28970	C11orf54		Y	Y				BC007110	-63.67	-4.84	56%
134265	AFAP1L1	Y						BC040723	-24.00	-4.79	56%
1043	CD52						Y	NM_001803	-42.61	-4.76	56%
60686	C14orf93							BC014299	-105.89	-4.74	56%
54908	CCDC99						Y	NM_017785	-129.92	-4.74	56%
55003	PAK1IP1							BC010907	-250.61	-4.53	56%
89927	C16orf45		Y					BC023603	-34.61	-4.36	56%
27254	CSDC2		Y	Y				NM_014460	-12.53	-4.31	56%
7045	TGFBI					Y	Y	NM_000358	-17.97	-4.25	56%
9589	WTAP							NM_004906	-150.03	-4.21	56%
27148	STK36							NM_015690	-103.58	-3.74	56%
404672	GTF2H5		Y	Y				BC060317	-209.19	-3.45	56%
80724	ACAD10							BC015056	-291.78	-3.19	56%
5000	ORC4L							BC014847	-143.11	-2.96	56%
3561	IL2RG						Y	NM_000206	29.89	1.42	56%
57380	MRS2L			Y				BC001028	51.72	1.45	56%
11100	HNRPUL1							BC004242	36.64	1.47	56%
4163	MCC							NM_002387	90.64	1.58	56%
9249	DHRS3					Y		NM_004753	23.64	1.60	56%
28976	ACAD9							BC001817	36.08	1.63	56%
3718	JAK3						Y	NM_000215	93.61	1.66	56%
54851	ANKRD49							NM_017704	35.97	1.66	56%
54940	OCIAD1							NM_017830	20.86	1.67	56%
65264	UBE2Z							NM_023079	18.39	1.67	56%
6511	SLC1A6							BC028721	42.50	1.68	56%
55677	IWS1							BC017012	57.78	1.68	56%
9075	CLDN2		Y	Y				NM_020384	31.78	1.70	56%
57699	CPNE5						Y	BC053872	35.72	1.70	56%
25797	QPCT					Y	Y	NM_012413	31.14	1.70	56%
8879	SGPL1					Y		BC052991	28.72	1.70	56%
3833	KIFC1							BC000712	65.72	1.71	56%
51321	AMZ2							BC050709	47.78	1.73	56%
3643	INSR		Y	Y				NM_000208	57.22	1.74	56%
117155	CATSPER2							NM_054020	34.78	1.75	56%
5053	PAH		Y	Y				BC026251	43.03	1.76	56%
60343	FAM3A							BC008912	20.50	1.77	56%
7965	JTV1							NM_006303	39.50	1.78	56%
2947	GSTM3							BC008790	39.72	1.80	56%
84549	RBM13							NM_032509	37.50	1.81	56%
80790	CMIP							BC038113	36.72	1.82	56%
1459	CSNK2A2							NM_001896	25.31	1.83	56%
2947	GSTM3							BC008790	36.42	1.85	56%
25903	OLFML2B						Y	BC047472	37.69	1.85	56%
6342	SCP2							NM_001007098	29.78	1.86	56%
115123	Mar3						Y	NM_178450	39.89	1.86	56%
116224	FAM122A							NM_138333	85.44	1.86	56%
369	ARAF							BC007514	42.75	1.87	56%
51185	CRBN							NM_016302	32.94	1.87	56%
64168	EFCBP1							BC016340	14.72	1.88	56%
54872	PIGG							BC000937	27.11	1.89	56%
7371	UCK2					Y	Y	BC002906	21.75	1.89	56%
131601	GPR175							BC017058	22.39	1.89	56%

883	CCBL1							BC013069	37.56	1.89	56%
65110	UPF3A							BC023569	38.47	1.90	56%
84100	ARL6							NM_032146	42.19	1.94	56%
4632	MYL1							NM_079422	29.89	1.94	56%
54602	NDFIP2					Y		BC026126	23.28	1.95	56%
326624	RAB37							NM_175738	57.86	1.95	56%
4811	NID1						Y	BC045606	12.72	1.97	56%
145447	C14orf29							NM_181533	26.69	1.97	56%
25	ABL1							NM_005157	47.22	1.99	56%
1163	CKS1B							NM_001826	41.56	2.00	56%
79026	AHNAK	Y						NM_024060	36.75	2.00	56%
221294	NT5DC1		Y	Y				NM_152729	25.69	2.00	56%
90459	THEX1						Y	NM_153332	319.03	2.01	56%
51256	TBC1D7							NM_016495	17.67	2.01	56%
80196	RNF34							NM_025126	126.17	2.02	56%
5825	ABCD3			Y				BC009712	21.39	2.02	56%
23413	FREQ							NM_014286	24.81	2.03	56%
5833	PCYT2		Y	Y				NM_002861	43.36	2.05	56%
79701	FLJ22222							BC009297	19.81	2.05	56%
79691	QTRTD1							NM_024638	36.53	2.06	56%
255919	C16orf69							NM_153261	41.92	2.06	56%
55170	PRMT6							NM_018137	20.00	2.07	56%
8892	EIF2B2						Y	NM_014239	24.86	2.07	56%
55660	PRPF40A							BC027178	15.97	2.07	56%
29789	GTPBP9							BC012842	18.00	2.08	56%
8835	SOCS2							NM_003877	30.17	2.08	56%
6094	ROM1	Y						NM_000327	45.78	2.08	56%
4597	MVD							NM_002461	63.50	2.09	56%
4214	MAP3K1							XM_042066	13.58	2.09	56%
7050	TGIF1							NM_003244	20.17	2.09	56%
3772	KCNJ15		Y	Y				NM_002243	18.92	2.10	56%
2719	GPC3							BC035972	25.75	2.11	56%
2670	GFAP							NM_002055	51.50	2.11	56%
79188	TMEM43							BC011719	35.19	2.12	56%
362	AQP5							NM_001651	25.58	2.12	56%
1429	CRYZ			Y				NM_001889	62.42	2.12	56%
5333	PLCD1							NM_006225	20.78	2.13	56%
317671	RFESD							NM_173362	42.58	2.13	56%
25865	PRKD2							NM_016457	22.61	2.13	56%
57143	ADCK1							BC058906	25.17	2.13	56%
1874	E2F4							NM_001950	44.97	2.13	56%
23705	CADM1					Y		BC047021	39.53	2.13	56%
9623	TCL1B						Y	BC051000	44.19	2.14	56%
83590	TMUB1							NM_031434	39.31	2.14	56%
84649	DGAT2						Y	NM_032564	18.03	2.14	56%
4154	MBNL1							NM_021038	19.06	2.15	56%
10972	TMED10							NM_006827	36.53	2.15	56%
3267	HRB							BC030592	87.72	2.16	56%
5025	P2RX4							BC033826	15.28	2.16	56%
10695	TNRC5							NM_006586	24.72	2.16	56%
2104	ESRRG							BC064700	22.61	2.17	56%
9572	NR1D1						Y	BC056148	24.31	2.17	56%

3156	HMGCR								BC033692	26.44	2.17	56%
2705	GJB1								NM_000166	38.44	2.17	56%
8666	EIF3S4								BC000733	81.42	2.18	56%
6322	SCML1								NM_006746	30.36	2.18	56%
55611	OTUB1								BC010368	15.67	2.18	56%
1198	CLK3								BC002555	58.03	2.19	56%
51205	ACP6							Y	NM_016361	16.14	2.19	56%
5160	PDHA1								NM_000284	27.64	2.19	56%
51248	PDZD11								NM_016484	29.03	2.20	56%
56893	UBQLN4								BC006410	22.61	2.20	56%
1152	CKB								NM_001823	27.56	2.20	56%
1198	CLK3								BC002555	73.97	2.22	56%
80273	GRPEL1								NM_025196	27.50	2.22	56%
11284	PNKP								NM_007254	25.64	2.22	56%
7417	VDAC2						Y		BC012883	22.69	2.22	56%
8767	RIPK2								NM_003821	25.61	2.22	56%
859	CAV3								NM_001234	23.33	2.22	56%
115827	RAB3C								NM_138453	48.11	2.23	56%
4782	NFIC								BC012120	14.89	2.24	56%
875	CBS						Y		NM_000071	20.36	2.24	56%
987	LRBA								BC012535	27.89	2.25	56%
64400	AKTIP								NM_022476	24.42	2.25	56%
23604	DAPK2	Y							NM_014326	20.61	2.25	56%
79614	C5orf23	Y	Y	Y					NM_024563	28.75	2.26	56%
5597	MAPK6								NM_002748	33.06	2.26	56%
8776	MTMR1								BC011250	46.06	2.26	56%
301	ANXA1								NM_000700	28.92	2.26	56%
54898	ELOVL2								BC060809	9.39	2.26	56%
195814	RDHE2								BC037219	22.75	2.26	56%
10486	CAP2							Y	NM_006366	18.00	2.26	56%
121665	UNQ1887								BC025781	23.36	2.26	56%
5592	PRKG1	Y						Y	BC062688	12.72	2.27	56%
27252	KLHL20								BC005253	40.72	2.27	56%
5128	PCTK2								BC033005	15.44	2.27	56%
23178	PASK								NM_015148	52.00	2.27	56%
54970	TTC12								NM_017868	47.81	2.27	56%
10144	FAM13A1								BC063126	24.31	2.28	56%
7421	VDR				Y				NM_000376	12.61	2.29	56%
54994	C20orf11								BC032120	24.56	2.29	56%
57787	MARK4								NM_031417	98.94	2.30	56%
51338	MS4A4A							Y	NM_148975	74.75	2.30	56%
84696	ABHD1								BC039576	28.00	2.30	56%
23204	ARL6IP1								NM_015161	28.31	2.30	56%
10244	RABEPK								BC047023	34.28	2.31	56%
10238	WDR68								NM_005828	37.25	2.31	56%
57104	PNPLA2								NM_020376	41.97	2.31	56%
27306	PGDS							Y	NM_014485	50.92	2.31	56%
55002	TMCO3								BC012564	20.86	2.31	56%
84517	ARPM1								BC007289	21.33	2.32	56%
6237	RRAS		Y	Y					NM_006270	24.36	2.32	56%
445	ASS1		Y	Y					NM_054012	27.44	2.32	56%
8733	GPA1								NM_003801	20.36	2.32	56%

58528	RRAGD		Y					BC003088	14.83	2.32	56%
147906	DACT3						Y	BC034052	35.50	2.33	56%
5535	PPP3R2							NM_147180	24.94	2.33	56%
84326	MGC13114							BC007207	18.39	2.33	56%
55240	STEAP3						Y	BC042150	32.39	2.33	56%
84498	FAM120B							NM_032448	50.86	2.34	56%
2319	FLOT2							NM_004475	17.44	2.34	56%
51566	ARMCX3							NM_016607	21.19	2.34	56%
90826	LOC90826							BC021250	19.33	2.34	56%
8503	PIK3R3							BC021622	18.33	2.34	56%
6252	RTN1							NM_206852	32.78	2.34	56%
8522	GAS7							BC001152	42.19	2.34	56%
84545	MRPL43							BC052639	18.81	2.35	56%
8623	ASMTL							BC010089	25.33	2.35	56%
51074	APIP							BC009077	18.92	2.36	56%
23468	CBX5							NM_012117	37.53	2.36	56%
59	ACTA2						Y	NM_001613	29.56	2.37	56%
55848	C9orf46							BC008212	41.69	2.37	56%
54953	C1orf27							BC003397	29.11	2.37	56%
11051	NUDT21							NM_007006	36.53	2.37	56%
8723	SNX4		Y					NM_003794	15.97	2.37	56%
9205	ZMYM5							BC007048	22.83	2.38	56%
51373	MRPS17							BC054031	67.39	2.38	56%
84930	MASTL							NM_032844	28.89	2.38	56%
55132	LARP2					Y		BC030516	48.50	2.38	56%
8530	CST7						Y	NM_003650	13.94	2.39	56%
56287	GKN1							NM_019617	27.06	2.39	56%
11021	RAB35							NM_006861	73.94	2.39	56%
64795	RMND5A							NM_022780	10.81	2.39	56%
140700	SAMD10							NM_080621	54.00	2.41	56%
348487	C1orf117	Y	Y	Y				NM_182623	71.53	2.41	56%
84277	WBSCR18							BC005056	46.67	2.41	56%
1158	CKM							BC007462	40.03	2.41	56%
55835	CENPJ							BC024209	23.17	2.41	56%
203	AK1							BC001116	23.50	2.41	56%
115708	C14orf172							BC010167	21.67	2.42	56%
85465	SELI							BC021229	28.19	2.42	56%
83593	RASSF5						Y	NM_182665	25.58	2.42	56%
23527	CENTB2							BC060767	22.72	2.42	56%
7355	SLC35A2							BC035747	23.08	2.43	56%
343035	RD3							NM_183059	37.47	2.44	56%
56947	C2orf33							BC000797	43.92	2.44	56%
203259	C9orf25							BC041009	37.86	2.44	56%
80347	COASY							BC020985	69.06	2.46	56%
10424	PGRMC2							NM_006320	30.56	2.46	56%
514	ATP5E							NM_006886	15.44	2.46	56%
55142	CEP27							NM_018097	28.92	2.47	56%
5587	PRKD1							NM_002742	20.08	2.48	56%
3033	HADH		Y	Y				BC000306	42.14	2.48	56%
83478	ARHGAP24							BC047918	20.56	2.49	56%
7030	TFE3							NM_006521	57.56	2.49	56%
6948	TCN2		Y	Y				BC011239	13.42	2.49	56%

150290	DUSP18								BC028724	38.97	2.50	56%
57142	RTN4								NM_007008	60.33	2.50	56%
162427	LOC162427								NM_178126	25.19	2.52	56%
3300	DNAJB2								BC047056	24.06	2.52	56%
51086	TNNI3K								NM_015978	22.72	2.52	56%
1723	DHODH								NM_001361	14.39	2.52	56%
26751	SH3YL1								BC008375	93.47	2.53	56%
51107	APH1A								BC001230	15.72	2.53	56%
7318	UBE1L	Y							NM_003335	28.14	2.53	56%
712	C1QA						Y		NM_015991	18.58	2.53	56%
8612	PPAP2C						Y		NM_003712	10.58	2.53	56%
9731	KIAA0562								BC050721	27.64	2.54	56%
81629	TSSK3								NM_052841	27.94	2.54	56%
10769	PLK2								BC013879	31.47	2.55	56%
28951	TRIB2								NM_021643	32.92	2.56	56%
6223	RPS19						Y		NM_001022	145.56	2.56	56%
3055	HCK								BC014435	19.81	2.57	56%
9356	SLC22A6	Y	Y	Y					NM_153276	40.75	2.57	56%
150483	TEKT4								NM_144705	11.47	2.58	56%
9262	STK17B						Y		NM_004226	41.92	2.59	56%
28951	TRIB2								NM_021643	20.75	2.60	56%
64116	SLC39A8		Y						NM_022154	20.92	2.60	56%
705	BYSL						Y		BC007340	21.25	2.60	56%
10516	FBLN5								NM_006329	35.86	2.60	56%
9519	TBPL1								BC000381	23.00	2.61	56%
10585	POMT1								BC065268	15.44	2.61	56%
389336	MGC23985								BC021680	19.44	2.61	56%
57471	KIAA1189								BC026345	12.14	2.61	56%
5756	TWF1								BC022344	26.56	2.62	56%
84881	RPUSD4								BC014131	13.17	2.63	56%
286343	C9orf150								BC036923	44.44	2.63	56%
2252	FGF7						Y		NM_002009	17.14	2.63	56%
58495	OVOL2								BC006148	17.31	2.63	56%
28973	MRPS18B								NM_014046	30.47	2.64	56%
56852	RAD18						Y		NM_020165	18.06	2.64	56%
7534	YWHAZ								NM_003406	13.81	2.65	56%
4720	NDUFS2								NM_004550	16.47	2.65	56%
4236	MFAP1								NM_005926	61.11	2.65	56%
55061	SUSD4				Y	Y			BC004888	13.64	2.65	56%
90624	LYRM7								BC022429	103.92	2.66	56%
64781	CERK		Y	Y					NM_182661	14.31	2.66	56%
84545	MRPL43								BC052639	35.22	2.66	56%
7104	TM4SF4								NM_004617	12.72	2.66	56%
118980	SFXN2			Y			Y		NM_178858	19.86	2.66	56%
3015	H2AFZ								NM_002106	18.69	2.66	56%
51022	GLRX2								BC028113	28.75	2.67	56%
2512	FTL		Y	Y					BC013928	46.47	2.67	56%
5468	PPARG						Y		NM_015869	24.25	2.68	56%
3290	HSD11B1								NM_005525	15.14	2.68	56%
55193	PB1								BC015323	21.75	2.68	56%
308	ANXA5								NM_001154	19.08	2.69	56%
3702	ITK						Y		NM_005546	40.58	2.69	56%

23760	PITPNB								BC031427	25.81	2.70	56%
396	ARHGDI A								NM_004309	31.78	2.71	56%
64924	SLC30A5								NM_024055	23.06	2.71	56%
23259	DDHD2								BC010504	18.33	2.71	56%
2045	EPHA7								NM_004440	124.25	2.71	56%
23650	TRIM29					Y	Y		NM_012101	34.83	2.71	56%
64799	IQCH								BC031041	24.72	2.71	56%
11322	TMC6					Y			BC007766	28.39	2.72	56%
64771	C6orf106								NM_022758	28.94	2.72	56%
11120	BTN2A1								NM_078476	13.06	2.73	56%
5906	RAP1A						Y		NM_002884	15.75	2.73	56%
23119	HIC2	Y							BC009207	20.75	2.73	56%
1117	CHI3L2						Y		BC011460	18.67	2.74	56%
6449	SGTA								NM_003021	14.83	2.74	56%
26273	FBXO3								NM_012175	59.89	2.74	56%
54981	C9orf95								NM_017881	15.72	2.74	56%
919	CD247						Y		BC025703	39.36	2.74	56%
2553	GABPB2					Y			NM_005254	24.47	2.74	56%
8814	CDKL1								NM_004196	54.50	2.74	56%
115106	CCDC5								NM_138443	14.67	2.75	56%
23555	TSPAN15								NM_012339	17.06	2.75	56%
53834	FGFRL1								BC013955	28.69	2.76	56%
2050	EPHB4								NM_004444	13.94	2.76	56%
51755	CRKRS								NM_016507	26.64	2.76	56%
8738	CRADD								NM_003805	24.69	2.77	56%
90871	C9orf123								BC009510	19.72	2.77	56%
9617	MTRF1								BC027731	29.42	2.78	56%
83707	TRPT1								NM_031472	29.81	2.79	56%
51535	PPHLN1								BC039832	25.50	2.79	56%
9412	SURB7								NM_004264	16.14	2.79	56%
63899	NSUN3								BC020602	11.03	2.80	56%
230	ALDOC								NM_005165	23.58	2.81	56%
7353	UFD1L								NM_005659	17.17	2.81	56%
3150	HMG N1								NM_004965	14.47	2.81	56%
5429	POLH								BC015742	25.94	2.81	56%
56650	CLDND1								NM_019895	11.06	2.82	56%
60496	AASDHPPT								NM_015423	25.11	2.83	56%
220164	DOK6								BC019045	30.25	2.83	56%
5083	PAX9								NM_006194	21.50	2.83	56%
10464	C13orf24								BC051911	25.03	2.84	56%
5970	RELA								BC011603	39.86	2.84	56%
91050	DKFZp761B107								BC067735	191.69	2.85	56%
6283	S100A12	Y							NM_005621	18.72	2.85	56%
123803	NTAN1						Y		NM_173474	33.14	2.85	56%
55744	C7orf44								BC001743	15.44	2.86	56%
5032	P2RY11								BC009877	13.86	2.87	56%
2940	GSTA3	Y	Y	Y					BC020619	21.97	2.87	56%
113277	TMEM106A		Y	Y					NM_145041	17.81	2.87	56%
6517	SLC2A4								NM_001042	10.86	2.88	56%
64077	LHPP								BC007324	24.69	2.88	56%
192286	HIGD2A								NM_138820	29.03	2.88	56%
214	ALCAM								BC057809	27.67	2.88	56%

168090	C6orf118								NM_144980	34.86	2.90	56%
5015	OTX2								NM_021728	27.89	2.90	56%
89927	C16orf45		Y						BC023603	10.89	2.90	56%
64092	SAMSN1					Y	Y		BC029112	18.86	2.90	56%
493869	LOC493869					Y	Y		BC029424	11.31	2.90	56%
3257	HPS1								BC000175	21.69	2.91	56%
284942	MGC70863								BC010172	14.56	2.92	56%
8846	ALKBH1								BC025787	18.28	2.93	56%
148113	CILP2								BC034926	16.61	2.93	56%
6809	STX3								NM_004177	20.61	2.94	56%
84333	PCGF5								NM_032373	29.72	2.95	56%
2907	GRINA			Y					BC041788	11.78	2.96	56%
2157	F8	Y							NM_019863	8.44	2.96	56%
10951	CBX1								NM_006807	49.67	2.97	56%
203328	SUSD3		Y	Y					NM_145006	27.19	3.00	56%
1796	DOK1								NM_001381	40.50	3.00	56%
55211	DPPA4								NM_018189	23.64	3.00	56%
64135	IFIH1								BC046208	35.64	3.00	56%
54552	GNL3L								NM_019067	19.47	3.01	56%
11161	C14orf1								NM_007176	23.64	3.01	56%
79446	WDR25								NM_024515	15.36	3.01	56%
54842	FLJ20160								BC050537	16.67	3.02	56%
254427	C10orf47								BC017269	18.36	3.02	56%
79608	RIC3		Y						NM_024557	17.33	3.03	56%
25945	PVRL3								BC017572	16.78	3.03	56%
4194	MDM4								BC067299	9.81	3.04	56%
57595	PDZD4								BC002606	48.64	3.05	56%
23647	ARFIP2								NM_012402	35.92	3.05	56%
80270	HSD3B7								NM_025193	15.50	3.05	56%
1399	CRKL								NM_005207	65.17	3.08	56%
5049	PAFAH1B2								NM_002572	22.06	3.08	56%
3659	IRF1								NM_002198	14.31	3.08	56%
26751	SH3YL1								BC008375	16.33	3.09	56%
8985	PLOD3								NM_001084	21.83	3.09	56%
140609	NEK7	Y							NM_133494	198.31	3.10	56%
55147	RBM23								NM_018107	116.75	3.10	56%
8078	USP5								BC005139	20.97	3.10	56%
90480	GADD45GIP1								BC013039	23.75	3.10	56%
3692	ITGB4BP								NM_181468	15.33	3.11	56%
51000	SLC35B3					Y			NM_015948	22.44	3.11	56%
334	APLP2								BC004371	19.72	3.12	56%
57226	LYRM2								NM_020466	12.19	3.12	56%
79982	DNAJB14								BC022248	10.61	3.12	56%
84196	USP48						Y		BC013567	12.67	3.12	56%
11066	U1SNRNPBP								BC054034	17.33	3.13	56%
51031	C17orf25								BC015848	49.67	3.13	56%
23406	COTL1			Y					NM_021149	57.44	3.14	56%
10907	TXNL4A								NM_006701	87.08	3.14	56%
55218	EXDL2								NM_018199	9.61	3.14	56%
51318	MRPL35								BC020651	18.06	3.14	56%
152110	NEK10								BC045758	17.53	3.14	56%
27128	PSCD4						Y		NM_013385	15.83	3.15	56%

567	B2M	Y						BC032589	8.36	3.16	56%
84457	PHYHIPL					Y		NM_032439	13.08	3.18	56%
9194	SLC16A7					Y		BC030693	20.14	3.20	56%
1455	CSNK1G2							BC020972	36.67	3.20	56%
5581	PRKCE	Y		Y				NM_005400	15.92	3.20	56%
54332	GDAP1							BC024939	22.28	3.21	56%
7458	EIF4H							NM_031992	18.47	3.22	56%
11333	PDAP1							NM_014891	24.11	3.22	56%
50855	PARD6A							BC015626	22.28	3.23	56%
494143	CHAC2							BC019239	10.33	3.23	56%
64792	RABL5							NM_022777	11.64	3.23	56%
1195	CLK1							NM_004071	12.64	3.25	56%
1288	COL4A6							BC070203	17.06	3.25	56%
23464	GCAT		Y					BC014457	19.36	3.26	56%
51719	CAB39							NM_016289	26.61	3.28	56%
10352	WARS2							BC044575	12.36	3.29	56%
51300	C3orf1							BC012341	14.00	3.30	56%
78990	OTUB2						Y	BC009615	20.31	3.30	56%
127700	C1orf102							NM_145047	25.14	3.30	56%
25966	C21orf25						Y	BC062323	28.89	3.31	56%
6541	SLC7A1					Y		NM_003045	30.75	3.31	56%
84366	PRAC							BC030950	15.86	3.32	56%
10598	AHSA1							NM_012111	30.78	3.32	56%
3628	INPP1							NM_002194	11.19	3.33	56%
84196	USP48						Y	BC013567	81.86	3.34	56%
714	C1QC						Y	BC009016	29.53	3.35	56%
79712	GTDC1						Y	BC061699	12.86	3.37	56%
114792	KLHL32							BC031830	7.64	3.38	56%
79576	NKAP							BC015354	18.58	3.41	56%
313	AOAH							NM_001637	10.06	3.42	56%
113510	HEL308							BC011863	48.17	3.46	56%
6891	TAP2	Y						BC002751	9.58	3.47	56%
27074	LAMP3						Y	BC032940	9.72	3.47	56%
8601	RGS20							NM_003702	13.36	3.49	56%
3158	HMGCS2							NM_005518	22.06	3.50	56%
6916	TBXAS1	Y						BC041157	11.22	3.51	56%
8402	SLC25A11							NM_003562	14.28	3.53	56%
4931	NVL							BC012105	20.53	3.53	56%
51306	C5orf5							BC056887	10.14	3.54	56%
64755	C16orf58							BC009308	6.89	3.54	56%
9027	NAT8		Y	Y				BC012626	28.58	3.54	56%
896	CCND3							NM_001760	12.25	3.55	56%
497661	LOC497661							BC022357	12.64	3.56	56%
65018	PINK1							NM_032409	12.58	3.57	56%
2662	GDF10							BC028237	11.78	3.58	56%
5199	CFP	Y					Y	NM_002621	28.19	3.58	56%
153769	SH3RF2						Y	BC031650	20.94	3.59	56%
51076	CUTC							BC021105	19.53	3.59	56%
29842	TFCP2L1							NM_014553	30.78	3.62	56%
25870	SUMF2							BC015600	17.47	3.63	56%
9138	ARHGEF1							BC005155	15.75	3.63	56%
440275	EIF2AK4							BC009350	18.97	3.64	56%

56943	ENY2							NM_020189	18.97	3.64	56%
55346	TCP11L1							NM_018393	23.72	3.64	56%
5991	RFX3							NM_134428	11.89	3.65	56%
64771	C6orf106							NM_022758	12.00	3.65	56%
4486	MST1R					Y		NM_002447	11.42	3.65	56%
65125	WNK1		Y	Y				BC021121	21.94	3.66	56%
4598	MVK							NM_000431	19.81	3.66	56%
134492	NUDCD2							NM_145266	13.22	3.67	56%
54206	ERRF1							NM_018948	10.97	3.67	56%
9933	KIAA0020							NM_014878	19.06	3.67	56%
9917	FAM20B							NM_014864	15.42	3.68	56%
55069	C7orf42							BC010519	14.00	3.68	56%
116138	KLHDC3							BC041793	8.89	3.69	56%
25999	CLIP3	Y					Y	BC014486	17.19	3.69	56%
27338	UBE2S							BC004236	11.75	3.70	56%
9170	EDG4							NM_004720	12.14	3.70	56%
10602	CDC42EP3	Y						NM_006449	43.78	3.71	56%
84248	FYTTD1							BC035006	12.97	3.71	56%
5573	PRKAR1A							NM_002734	32.83	3.75	56%
7572	ZNF24							BC003566	56.25	3.75	56%
972	CD74							BC024272	10.92	3.76	56%
55876	GSDML					Y	Y	BC025682	45.92	3.83	56%
6341	SCO1							NM_004589	21.17	3.84	56%
5567	PRKACB							BC035058	11.39	3.86	56%
64432	MRPS25			Y				NM_022497	20.03	3.86	56%
79092	CARD14							BC018142	12.00	3.86	56%
10450	PPIE							NM_006112	8.11	3.87	56%
658	BMPR1B					Y		NM_001203	14.64	3.87	56%
79144	C20orf149						Y	NM_024299	5.19	3.90	56%
93661	CAPZA3							BC016745	11.64	3.91	56%
374354	NHLRC2							BC032598	7.94	3.91	56%
3386	ICAM4							NM_001544	19.06	3.93	56%
6732	SRPK1							NM_003137	12.67	3.95	56%
5129	PCTK3							BC011526	13.61	3.98	56%
79618	HMBOX1	Y						BC009259	104.22	4.00	56%
55256	ADI1			Y				BC001467	13.44	4.01	56%
3551	IKBKB							BC006231	7.22	4.02	56%
9798	KIAA0174							BC004359	14.86	4.04	56%
6282	S100A11					Y	Y	NM_005620	33.03	4.04	56%
48	ACO1		Y	Y				NM_002197	28.58	4.06	56%
59343	SENP2							NM_021627	42.28	4.06	56%
7371	UCK2					Y	Y	BC002906	36.53	4.08	56%
5995	RGR						Y	BC008094	17.25	4.10	56%
79969	C6orf134							BC006105	47.58	4.11	56%
5096	PCCB							BC013768	9.03	4.11	56%
382	ARF6							NM_001663	41.89	4.11	56%
65997	RASL11B							NM_023940	69.19	4.12	56%
4205	MEF2A							BC013437	129.33	4.14	56%
29883	CNOT7							BC007315	13.78	4.18	56%
10367	CBARA1			Y				BC004190	13.75	4.20	56%
56683	C21orf59							NM_021254	61.11	4.20	56%
83692	CD99L2							BC025729	13.03	4.21	56%

133	ADM			Y				NM_001124	19.50	4.23	56%
94101	ORMDL1							NM_016467	13.81	4.26	56%
4134	MAP4							BC051843	23.97	4.32	56%
9445	ITM2B							NM_021999	6.78	4.34	56%
57161	PELI2							NM_021255	16.14	4.34	56%
10	NAT2							BC015878	7.03	4.34	56%
64798	DEPDC6							BC024746	6.92	4.35	56%
57171	DOLPP1							BC040152	15.42	4.36	56%
3251	HPRT1							BC000578	17.56	4.37	56%
141	ADPRH							NM_001125	22.08	4.38	56%
83758	RBP5		Y	Y				NM_031491	16.92	4.41	56%
4595	MUTYH							BC003178	18.22	4.42	56%
84236	RHBDD1							BC027900	11.58	4.45	56%
7570	ZNF22							BC010642	10.61	4.58	56%
8775	NAPA							NM_003827	7.64	4.58	56%
83698	CALN1							NM_031468	9.58	4.58	56%
55179	FAIM							NM_018147	15.08	4.60	56%
2893	GRIA4							BC045546	11.97	4.65	56%
147339	C1orf25							NM_145055	21.39	4.65	56%
7288	TULP2							BC026070	24.00	4.68	56%
7633	ZNF79							NM_007135	16.33	4.71	56%
1106	CHD2							BC007347	9.97	4.71	56%
10712	C1orf2							BC017262	14.22	4.72	56%
7325	UBE2E2							NM_152653	12.06	4.73	56%
149428	BNIP1							NM_138278	10.36	4.73	56%
51399	TRAPPC4							NM_016146	24.14	4.75	56%
10226	M6PRBP1							BC007566	18.08	4.76	56%
117245	HRASLS5			Y				BC034222	8.42	4.76	56%
55843	ARHGAP15						Y	BC038976	92.00	4.78	56%
29844	TFPT							NM_013342	24.92	4.80	56%
11143	MYST2							NM_007067	7.94	4.81	56%
1027	CDKN1B							NM_004064	14.22	4.84	56%
60370	AVPI1					Y		BC000877	19.86	4.85	56%
84062	DTNBP1						Y	NM_032122	11.00	4.86	56%
89853	FAM125B						Y	BC028675	7.83	4.87	56%
93517	HSPC105							NM_145168	10.33	4.88	56%
2118	ETV4			Y				BC007242	17.89	4.88	56%
8031	NCOA4							BC012736	8.03	4.90	56%
203068	TUBB							NM_178014	6.64	4.94	56%
405	ARNT							BC060838	11.53	4.98	56%
81539	SLC38A1						Y	BC010620	12.64	5.04	56%
6251	RSU1							NM_012425	26.08	5.05	56%
79074	C2orf49							NM_024093	8.50	5.08	56%
11098	PRSS23							NM_007173	8.03	5.10	56%
283431	GAS2L3			Y				NM_174942	10.58	5.14	56%
9406	ZRANB2							BC039814	57.39	5.15	56%
11309	SLCO2B1		Y	Y			Y	NM_007256	21.56	5.17	56%
10385	BTN2A2							NM_006995	12.42	5.20	56%
10068	IL18BP	Y						BC044215	9.94	5.22	56%
8986	RPS6KA4							NM_003942	18.14	5.28	56%
56959	C9orf102							BC022957	10.44	5.28	56%
23291	FBXW11							BC026213	11.33	5.30	56%

25816	TNFAIP8						Y	BC007014	7.28	5.31	56%
23023	TMCC1						Y	BC039859	11.28	5.40	56%
5473	PPBP							NM_002704	6.08	5.49	56%
1070	CETN3							BC005383	21.00	5.51	56%
55937	APOM		Y	Y				NM_019101	9.39	5.52	56%
90843	TCEAL8							BC035573	7.25	5.54	56%
9444	QKI	Y						NM_006775	46.14	5.55	56%
55168	MRPS18A							NM_018135	5.69	5.56	56%
91807	MLCK							NM_182493	24.11	5.58	56%
26985	AP3M1							NM_012095	11.56	5.63	56%
1643	DDB2							NM_000107	7.31	5.64	56%
284119	PTRF						Y	NM_012232	17.03	5.77	56%
9047	SH2D2A						Y	NM_003975	16.97	5.78	56%
894	CCND2						Y	NM_001759	16.14	5.87	56%
5261	PHKG2							BC002541	5.97	5.91	56%
2551	GABPA							BC035031	6.31	6.04	56%
79159	NOL12							NM_024313	10.31	6.04	56%
57404	CYP20A1							BC033752	12.17	6.12	56%
10459	MAD2L2							BC015244	8.86	6.19	56%
24141	C20orf103						Y	NM_012261	10.28	6.24	56%
51250	C6orf203							NM_016487	5.75	6.25	56%
116254	C6orf72							NM_138785	12.31	6.31	56%
2786	GNG4							NM_004485	4.47	6.33	56%
254268	C1orf62							NM_152763	10.58	6.34	56%
26578	OSTF1							NM_012383	13.06	6.34	56%
92399	MRRF							NM_138777	6.33	6.36	56%
57447	NDRG2							BC010458	7.47	6.38	56%
5894	RAF1							NM_002880	13.53	6.40	56%
51421	AMOTL2							BC011454	14.28	6.43	56%
253260	RICTOR							BC029608	16.08	6.43	56%
283232	TMEM80							NM_174940	4.67	6.46	56%
64098	PARVG						Y	NM_022141	20.08	6.47	56%
7803	PTP4A1							NM_003463	20.08	6.48	56%
4257	MGST1		Y	Y			Y	NM_145792	9.06	6.49	56%
10165	SLC25A13							NM_014251	15.89	6.60	56%
51676	ASB2							NM_016150	11.22	6.61	56%
81704	DOCK8							BC019102	8.58	6.63	56%
92906	HNRPLL						Y	BC008217	9.53	6.79	56%
27297	RCP9							BC040107	4.72	6.90	56%
55320	C14orf106							BC051885	61.06	6.91	56%
30815	ST6GALNAC6							NM_013443	8.83	7.10	56%
28227	PPP2R3B							NM_199326	12.39	7.11	56%
9659	PDE4DIP						Y	BC025406	6.47	7.26	56%
689	BTF3						Y	NM_001207	6.06	7.43	56%
4601	MXI1							NM_130439	21.08	7.46	56%
25895	FAM119B		Y	Y				BC016395	10.00	7.48	56%
3948	LDHC							NM_002301	34.64	7.54	56%
3795	KHK		Y	Y				BC006233	14.56	7.58	56%
1312	COMT							NM_000754	4.89	7.60	56%
4286	MITF							BC026961	5.86	7.63	56%
56681	SAR1A							NM_020150	7.86	7.67	56%
29114	TAGLN3						Y	BC015329	18.50	7.81	56%

6159	RPL29						Y	NM_000992	8.14	8.17	56%
6003	RGS13						Y	NM_002927	6.61	8.34	56%
130951	LOC130951							BC014602	3.14	8.41	56%
51507	C2orf43							BC002769	7.92	8.42	56%
55540	IL17RB		Y	Y				BC000980	7.33	8.48	56%
10964	IFI44L	Y						BC015932	6.22	8.61	56%
2593	GAMT							BC017936	9.08	8.89	56%
26017	FAM32A							NM_014077	5.06	8.98	56%
80763	C12orf39							NM_030572	7.72	9.08	56%
55039	TRMT12							BC011713	6.81	9.17	56%
254263	CNIH2							NM_182553	4.69	9.25	56%
90139	TSPAN18			Y				BC019342	13.06	9.25	56%
131831	C3orf44							NM_152394	10.03	9.28	56%
79158	GNPTAB			Y				NM_024312	4.11	9.53	56%
10541	ANP32B							NM_006401	6.39	9.70	56%
10935	PRDX3							BC008435	13.25	9.71	56%
154075	SAMD3							NM_152552	4.69	9.91	56%
84902	CCDC123							BC012783	6.36	9.99	56%
6790	AURKA							NM_003600	6.58	10.01	56%
7374	UNG							NM_003362	3.72	10.02	56%
6923	TCEB2							NM_007108	7.42	10.04	56%
554203	LOC554203							BC029480	7.50	10.11	56%
10301	DLEU1							BC020692	3.86	10.19	56%
8858	PROZ		Y	Y				NM_003891	4.58	10.35	56%
79666	PLEKHF2			Y				NM_024613	6.97	10.35	56%
6999	TDO2							NM_005651	4.44	10.49	56%
203286	ANKS6	Y						BC064367	3.97	10.67	56%
148252	DIRAS1							NM_145173	3.11	11.10	56%
3898	LAD1						Y	NM_005558	4.83	11.22	56%
55783	FLJ11171							BC034468	5.06	11.26	56%
79169	C1orf35							NM_024319	5.25	11.75	56%
159963	SLC5A12		Y	Y				NM_178498	3.64	12.17	56%
3146	HMGB1							NM_002128	7.72	12.18	56%
5156	PDGFRA						Y	BC015186	3.19	12.57	56%
10966	RAB40B			Y				NM_006822	2.47	12.70	56%
51367	POP5							NM_015918	15.00	12.80	56%
26147	PHF19							BC022374	4.58	13.12	56%
6442	SGCA						Y	NM_000023	6.97	13.47	56%
7072	TIA1							BC015944	9.00	13.48	56%
83987	CCDC8							BC025243	11.89	13.72	56%
29982	NRBF2							BC011707	9.56	14.00	56%
6941	TCF19							BC002493	3.17	14.28	56%
10742	RAI2							BC027937	5.75	14.44	56%
11340	EXOSC8							NM_181503	6.67	14.99	56%
10221	TRIB1							NM_025195	2.89	15.75	56%
386759	MGC9913							BC008651	2.42	16.52	56%
6284	S100A13						Y	NM_005979	22.19	18.32	56%
10808	HSPH1						Y	NM_006644	5.22	19.26	56%
5469	PPARBP							BC060758	3.33	19.27	56%
55634	ZNF673							BC012569	4.06	19.95	56%
79864	C11orf63							BC009820	4.00	20.76	56%
5501	PPP1CC							NM_002710	3.56	21.13	56%

10717	AP4B1						Y		BC014146	2.72	22.79	56%
26586	CKAP2								BC010901	4.58	24.10	56%
140461	ASB8								BC001321	3.36	25.47	56%
23594	ORC6L								NM_014321	2.08	25.73	56%
57182	ANKRD50						Y		BC024725	1.69	27.38	56%
196483	FAM86A								BC010084	0.61	29.19	56%
29110	TBK1								NM_013254	1.50	55.03	56%
56898	BDH2		Y	Y					NM_020139	0.89	87.31	56%
23168	RTF1								NM_015138	4.06	124.31	56%
136895	C7orf31								BC043269	0.42	378.45	56%
26100	WIPI2								NM_015610	0.06	976.44	56%
56941	C3orf37								BC010125	-0.14	-171.89	50%
124773	C17orf64								NM_181707	-0.78	-159.80	50%
51710	ZNF44								BC032246	-1.00	-61.61	50%
6181	RPLP2								NM_001004	-1.14	-54.65	50%
10553	HTATIP2								BC015358	-2.67	-44.10	50%
1611	DAP								NM_004394	-3.42	-41.99	50%
5175	PECAM1	Y							NM_000442	-0.89	-40.41	50%
25949	SYF2								NM_015484	-1.61	-40.04	50%
3821	KLRC1						Y		BC053840	-1.28	-40.02	50%
255104	TMCO4								BC053600	-5.92	-34.97	50%
4869	NPM1								BC009623	-1.11	-31.68	50%
133690	CAPSL								NM_144647	-2.64	-26.25	50%
3936	LCP1						Y		NM_002298	-2.39	-24.68	50%
7126	TNFAIP1								NM_021137	-1.75	-22.34	50%
7903	ST8SIA4						Y		BC027866	-1.50	-21.89	50%
10067	SCAMP3								NM_005698	-2.89	-19.23	50%
23498	HAAO		Y	Y					BC029510	-2.92	-16.11	50%
80895	ILKAP								NM_030768	-2.81	-14.75	50%
9473	C1orf38						Y		BC031655	-8.64	-13.99	50%
5886	RAD23A								NM_005053	-4.67	-13.76	50%
83937	RASSF4		Y	Y					NM_032023	-24.33	-13.69	50%
7991	TUSC3						Y		NM_178234	-6.03	-13.66	50%
79696	C14orf140								BC004259	-7.47	-13.66	50%
9360	PPIG								BC001555	-3.28	-13.39	50%
54984	PINX1								BC015479	-6.25	-12.73	50%
51377	UCHL5								BC025369	-4.11	-12.51	50%
84992	PIGY								NM_032906	-50.67	-12.46	50%
9124	PDLIM1								NM_020992	-15.78	-11.86	50%
150094	SNF1LK						Y		BC038504	-7.19	-11.68	50%
51002	TPRKB								NM_016058	-12.75	-10.59	50%
79084	WDR77						Y		NM_024102	-5.36	-10.07	50%
4678	NASP								NM_002482	-6.36	-10.04	50%
10783	NEK6			Y					BC012761	-13.83	-9.67	50%
1020	CDK5		Y	Y					NM_004935	-75.31	-9.50	50%
366	AQP9	Y							NM_020980	-14.42	-8.58	50%
221079	ARL5B								NM_178815	-7.78	-8.18	50%
29063	ZCCHC4								BC016914	-11.94	-8.09	50%
11107	PRDM5								BC066942	-31.11	-7.73	50%
92	ACVR2A								NM_001616	-161.50	-7.63	50%
204962	SLC44A5								NM_152697	-65.11	-6.93	50%
8192	CLPP								NM_006012	-51.50	-6.78	50%

57403	RAB22A							NM_020673	-54.28	-6.68	50%
126823	KARCA1							BC022077	-19.06	-6.47	50%
201965	RWDD4A							NM_152682	-59.72	-6.38	50%
116442	RAB39B							NM_171998	-8.94	-6.05	50%
117155	CATSPER2							NM_054020	-25.39	-6.00	50%
146542	ZNF688							NM_145271	-14.92	-5.86	50%
90317	ZNF616					Y		NM_178523	-13.31	-5.85	50%
10524	HTATIP							NM_006388	-51.03	-5.43	50%
7319	UBE2A							BC010175	-8.58	-5.29	50%
93	ACVR2B							NM_001106	-156.64	-5.10	50%
83931	STK40			Y				NM_032017	-20.69	-4.83	50%
286257	C9orf142							NM_183241	-109.61	-4.12	50%
84068	SLC10A7							BC023288	-85.31	-4.07	50%
118426	LOH12CR1							NM_058169	-229.31	-4.00	50%
5936	RBM4							BC021120	-13.31	-3.89	50%
1600	DAB1							BC067446	-97.94	-3.88	50%
6013	RLN1							NM_006911	56.92	1.82	50%
824	CAPN2							BC021303	38.78	1.88	50%
11040	PIM2					Y		BC018111	37.89	1.88	50%
6392	SDHD							NM_003002	68.94	1.93	50%
7301	TYRO3	Y						NM_006293	76.92	1.98	50%
4199	ME1					Y	Y	NM_002395	59.08	2.01	50%
51626	DYNC2LI1							BC006969	40.56	2.03	50%
55850	MDS032							BC006005	23.69	2.03	50%
11200	CHEK2							BC004207	52.39	2.04	50%
10000	AKT3							NM_005465	36.25	2.07	50%
9406	ZRANB2							BC039814	89.64	2.08	50%
2617	GARS							BC007722	40.19	2.10	50%
3026	HABP2		Y	Y				BC031412	24.97	2.11	50%
79733	E2F8							BC028244	126.19	2.12	50%
5696	PSMB8							NM_004159	45.78	2.13	50%
8676	STX11	Y						NM_003764	40.25	2.14	50%
54926	UBE2R2							NM_017811	32.61	2.14	50%
6888	TALDO1							NM_006755	49.47	2.14	50%
79947	DHDDS			Y				BC004117	23.92	2.16	50%
142679	DUSP19							NM_080876	50.56	2.16	50%
151056	PLB1							BC042674	23.53	2.19	50%
948	CD36						Y	BC008406	31.03	2.21	50%
6342	SCP2							NM_001007098	16.28	2.22	50%
85477	SCIN							BC021090	16.50	2.24	50%
2769	GNA15						Y	NM_002068	22.33	2.24	50%
112495	C6orf51							NM_138408	18.36	2.24	50%
51026	GOLT1B							NM_016072	21.08	2.27	50%
5176	SERPINF1						Y	BC000522	17.03	2.27	50%
60526	C2orf43							NM_021925	86.92	2.31	50%
113675	SDSL			Y				NM_138432	29.39	2.31	50%
51699	VPS29							BC032462	18.19	2.31	50%
27044	SND1							BC017180	49.06	2.32	50%
5125	PCSK5						Y	NM_006200	22.19	2.32	50%
29889	GNL2							BC009250	55.94	2.32	50%
80122	YSK4							BC034417	25.81	2.32	50%
23640	HSPBP1							BC002373	22.97	2.32	50%

4117	MAK							NM_005906	21.39	2.33	50%
84321	THOC3							NM_032361	29.75	2.34	50%
637	BID						Y	BC036364	24.39	2.35	50%
535	ATP6V0A1							BC032398	36.25	2.36	50%
213	ALB			Y				NM_000477	92.08	2.38	50%
2241	FER							NM_005246	18.75	2.38	50%
63893	UBE2O							BC022237	55.47	2.38	50%
1394	CRHR1							NM_004382	35.14	2.39	50%
8999	CDKL2							NM_003948	25.75	2.39	50%
5478	PPIA							BC005982	17.31	2.39	50%
51099	ABHD5							NM_016006	48.39	2.40	50%
2101	ESRRA							NM_004451	18.11	2.40	50%
83734	ATG10							NM_031482	18.53	2.42	50%
1908	EDN3							BC053866	41.22	2.43	50%
255394	TCP11L2							NM_152772	72.89	2.44	50%
3422	IDI1							NM_004508	14.75	2.44	50%
54681	PH-4							NM_177938	30.94	2.46	50%
53347	UBASH3A						Y	BC028138	19.78	2.46	50%
845	CASQ2							BC022288	11.58	2.47	50%
1339	COX6A2							NM_005205	34.50	2.48	50%
387	RHOA							NM_001664	34.83	2.48	50%
80017	C14orf159							BC009182	29.42	2.48	50%
3957	LGALS2		Y	Y				NM_006498	10.86	2.48	50%
9817	KEAP1							NM_012289	30.17	2.48	50%
54820	NDE1						Y	NM_017668	22.03	2.49	50%
998	CDC42							NM_001791	26.56	2.49	50%
151516	SASP							BC031997	36.39	2.49	50%
6274	S100A3							NM_002960	21.72	2.49	50%
5184	PEPD		Y	Y				BC004305	20.08	2.50	50%
51582	AZIN1						Y	NM_015878	20.17	2.52	50%
8623	ASMTL							BC010089	22.61	2.52	50%
122060	SLAIN1							NM_144595	28.58	2.53	50%
285381	DPH3			Y				BC010181	21.47	2.53	50%
5977	DPF2							BC014889	48.97	2.53	50%
91010	FMNL3							BC033181	17.22	2.54	50%
29034	PRO0132							BC020670	34.78	2.54	50%
25932	CLIC4		Y	Y				NM_013943	28.92	2.54	50%
5468	PPARG						Y	NM_015869	22.06	2.55	50%
7535	ZAP70						Y	BC039039	62.44	2.56	50%
85479	DNAJC5B							NM_033105	16.17	2.57	50%
54541	DDIT4					Y	Y	NM_019058	16.14	2.58	50%
55849	ALG13							NM_018466	55.61	2.58	50%
80153	EDC3							NM_025083	91.17	2.61	50%
8836	GGH		Y	Y				NM_003878	13.69	2.62	50%
8082	SSPN						Y	NM_005086	19.67	2.63	50%
123879	DCUN1D3							NM_173475	12.94	2.64	50%
1787	TRDMT1		Y	Y				BC047733	17.89	2.65	50%
11260	XPOT							BC020569	17.78	2.65	50%
6446	SGK	Y						NM_005627	24.69	2.66	50%
5050	PAFAH1B3							BC007863	15.31	2.66	50%
55163	PNPO		Y	Y				NM_018129	28.36	2.67	50%
10345	TRDN						Y	BC070290	35.94	2.67	50%

4217	MAP3K5							Y	NM_005923	17.08	2.67	50%
81502	HM13								BC008959	30.36	2.67	50%
695	BTK							Y	NM_000061	29.92	2.67	50%
1030	CDKN2B						Y	Y	NM_004936	26.50	2.68	50%
196394	AMN1								NM_207337	47.97	2.71	50%
54531	MIER2								BC028203	38.17	2.71	50%
1365	CLDN3								NM_001306	12.94	2.71	50%
54927	CHCHD3	Y							NM_017812	27.11	2.72	50%
373	TRIM23								NM_001656	25.44	2.73	50%
3688	ITGB1								NM_002211	37.44	2.73	50%
133584	EGFLAM								NM_182801	20.06	2.73	50%
7746	ZNF193								NM_006299	97.11	2.74	50%
64216	TFB2M								BC003383	22.92	2.74	50%
51098	IFT52								BC039831	27.69	2.75	50%
54165	DCUN1D1								BC009478	20.47	2.75	50%
5126	PCSK2								BC040546	27.83	2.77	50%
2674	GFRA1			Y					NM_145793	20.89	2.78	50%
58477	SRPRB								NM_021203	19.50	2.79	50%
3622	ING2								NM_001564	15.69	2.79	50%
10102	TSMF								NM_005726	13.75	2.80	50%
2286	FKBP2								NM_004470	14.50	2.81	50%
171546	C14orf147							Y	NM_138288	16.47	2.81	50%
51728	POLR3K								NM_016310	34.94	2.81	50%
48	ACO1		Y	Y					NM_002197	20.17	2.82	50%
206338	FLJ90650							Y	BC045809	16.22	2.84	50%
83636	C19orf12			Y					NM_031448	16.72	2.85	50%
1004	CDH6		Y	Y					BC000019	39.36	2.86	50%
9948	WDR1								NM_017491	18.75	2.88	50%
2870	GRK6								NM_002082	125.33	2.89	50%
653423	SPAG11A								BC058833	11.83	2.89	50%
9235	IL32		Y	Y					BC018782	27.19	2.91	50%
8424	BBOX1		Y	Y					NM_003986	26.19	2.91	50%
10899	JTB								NM_006694	14.97	2.92	50%
50852	TRAT1							Y	NM_016388	19.64	2.93	50%
9200	PTPLA							Y	NM_014241	16.61	2.95	50%
54433	NOLA1								NM_018983	19.17	2.96	50%
151647	FAM19A4								NM_182522	8.72	2.96	50%
253827	MSRB3	Y						Y	BC040053	16.64	2.97	50%
5029	P2RY2								BC028135	15.64	2.97	50%
140462	ASB9		Y	Y					BC001244	27.39	2.98	50%
79020	C7orf25								BC000769	17.89	2.98	50%
2078	ERG	Y							NM_182918	14.39	2.99	50%
4524	MTHFR			Y					BC018766	11.64	3.00	50%
326624	RAB37								NM_175738	35.39	3.00	50%
254295	PHYHD1								BC053853	10.72	3.01	50%
340061	TMEM173								NM_198282	18.19	3.01	50%
130916	MTERFD2	Y							BC053533	10.97	3.01	50%
1632	DCI								BC009631	15.83	3.02	50%
2815	GP9								BC030229	20.94	3.02	50%
4638	MYLK	Y						Y	NM_005965	13.97	3.02	50%
26354	GNL3							Y	NM_014366	10.31	3.03	50%
338094	C1orf179	Y	Y	Y					BC015993	13.28	3.03	50%

10096	ACTR3							BC044590	12.47	3.04	50%
27250	PDCD4							BC026104	23.00	3.04	50%
4707	NDUFB1							NM_004545	25.78	3.05	50%
5055	SERPINB2						Y	BC012609	14.89	3.05	50%
57393	TMEM27		Y	Y				NM_020665	16.50	3.06	50%
23534	TNPO3							BC068530	19.06	3.09	50%
10807	SDCCAG3							NM_006643	14.86	3.09	50%
1893	ECM1	Y						BC023505	32.28	3.12	50%
339221	ENPP7							NM_178543	20.11	3.12	50%
1026	CDKN1A							NM_078467	15.75	3.12	50%
5406	PNLIP						Y	NM_000936	11.17	3.13	50%
65220	NADK							BC001709	35.97	3.15	50%
3283	HSD3B1		Y	Y				BC031999	24.19	3.15	50%
28987	NOB1						Y	NM_014062	126.61	3.15	50%
10923	SUB1							BC010537	13.25	3.16	50%
51693	TRAPPC2L							BC017440	22.47	3.17	50%
23759	PPIL2							NM_148176	11.72	3.17	50%
80765	STARD5							NM_181900	40.56	3.19	50%
3148	HMGB2							NM_002129	11.53	3.19	50%
51053	GMNN							NM_015895	8.33	3.21	50%
56888	KCMF1	Y						BC000178	15.47	3.21	50%
257019	FRMD3	Y		Y				BC023560	13.61	3.21	50%
2950	GSTP1						Y	BC010915	24.78	3.24	50%
6519	SLC3A1		Y	Y				NM_000341	14.75	3.24	50%
5862	RAB2A							NM_002865	16.56	3.24	50%
328	APEX1						Y	NM_001641	24.31	3.25	50%
58515	SELK							BC013162	19.78	3.26	50%
11104	KATNA1		Y	Y				BC050428	23.72	3.27	50%
51009	DERL2							NM_016041	10.72	3.28	50%
23410	SIRT3							NM_012239	15.25	3.28	50%
10636	RGS14							NM_006480	7.83	3.29	50%
51083	GAL							NM_015973	18.86	3.29	50%
54602	NDFIP2						Y	BC026126	10.22	3.29	50%
51005	AMDHD2							NM_015944	21.47	3.30	50%
55037	PTCD3							NM_017952	25.08	3.30	50%
6782	STCH							NM_006948	22.36	3.33	50%
953	ENTPD1						Y Y	BC047664	11.86	3.33	50%
54165	DCUN1D1							BC009478	20.53	3.35	50%
7941	PLA2G7						Y	NM_005084	30.61	3.36	50%
11258	DCTN3							NM_024348	17.36	3.38	50%
50862	RNF141							NM_016422	63.08	3.38	50%
6500	SKP1A							NM_170679	14.42	3.39	50%
219738	C1orf35							NM_145306	19.83	3.39	50%
84335	AKT1S1		Y	Y				BC015562	14.67	3.39	50%
50515	CHST11						Y	NM_018413	12.33	3.40	50%
11325	DDX42							BC015505	81.11	3.41	50%
5023	P2RX1						Y	NM_002558	7.44	3.42	50%
3543	IGLL1						Y	NM_020070	11.00	3.43	50%
54	ACP5							NM_001611	10.22	3.44	50%
6252	RTN1							NM_206852	9.03	3.44	50%
8209	C21orf33		Y	Y				NM_004649	32.61	3.48	50%
1263	PLK3	Y						NM_004073	43.31	3.51	50%

2642	GCGR							NM_000160	15.56	3.51	50%
9578	CDC42BPB							NM_006035	11.92	3.51	50%
658	BMPR1B					Y		NM_001203	48.72	3.53	50%
22822	PHLDA1							BC018929	92.97	3.53	50%
8715	NOL4							BC000313	19.39	3.53	50%
6554	SLC10A1							NM_003049	13.06	3.53	50%
374969	CCDC23							BC029427	19.89	3.54	50%
157807	MGC34646					Y		NM_173519	36.28	3.55	50%
29978	UBQLN2							NM_013444	25.64	3.55	50%
128153	SPATA17							NM_138796	14.72	3.55	50%
10635	RAD51AP1							NM_006479	13.92	3.57	50%
23683	PRKD3							NM_005813	15.19	3.58	50%
1073	CFL2					Y		NM_021914	10.94	3.59	50%
85458	DIXDC1					Y		BC033034	26.64	3.62	50%
5939	RBMS2							NM_002898	14.89	3.63	50%
3248	HPGD	Y					Y	NM_000860	14.67	3.64	50%
55268	ECHDC2			Y				BC044574	38.25	3.65	50%
92344	SCYL1BP1							BC064945	36.67	3.65	50%
3093	HIP2							NM_005339	10.69	3.66	50%
9099	USP2		Y					BC041366	26.67	3.67	50%
29	ABR							NM_021962	22.08	3.68	50%
2920	CXCL2							NM_002089	23.00	3.68	50%
124801	LSM12							BC044587	13.56	3.69	50%
133308	LOC133308						Y	NM_178833	18.19	3.72	50%
151126	ZNF533		Y				Y	BC038422	17.03	3.74	50%
29101	SSU72							NM_014188	19.81	3.74	50%
2202	EFEMP1							NM_004105	13.36	3.77	50%
10200	MPHOSPH6						Y	NM_005792	10.06	3.79	50%
84680	PHACS							BC020197	24.00	3.80	50%
54554	WDR5B							NM_019069	22.19	3.80	50%
28951	TRIB2							NM_021643	24.58	3.87	50%
143471	PSMA8						Y	BC042820	24.92	3.88	50%
4711	NDUFB5							NM_002492	34.64	3.89	50%
5533	PPP3CC							NM_005605	13.31	3.91	50%
55544	RBM38							NM_017495	18.53	3.92	50%
5536	PPP5C							NM_006247	19.08	3.92	50%
6885	MAP3K7							NM_003188	9.58	3.92	50%
22916	NCBP2							NM_007362	18.39	3.94	50%
93979	CPA5							BC039362	9.64	3.99	50%
1622	DBI			Y				NM_020548	18.42	4.04	50%
1756	DMD						Y	NM_004016	13.47	4.05	50%
987	LRBA							BC012535	17.61	4.06	50%
4067	LYN							NM_002350	12.61	4.06	50%
9958	USP15							BC020688	10.08	4.07	50%
57698	KIAA1598						Y	NM_018330	14.50	4.08	50%
5407	PNLIPRP1							BC025784	24.53	4.08	50%
968	CD68						Y	BC015557	23.42	4.09	50%
29841	GRHL1						Y	BC067519	11.00	4.10	50%
2872	MKNK2							NM_017572	13.11	4.13	50%
51100	SH3GLB1							NM_016009	15.78	4.16	50%
84002	B3GNT5							NM_032047	12.53	4.24	50%
84280	BTBD10							BC017072	31.19	4.25	50%

65123	INTS3								BC025254	12.06	4.27	50%
64793	CCDC21								BC019902	15.31	4.27	50%
51322	WAC								BC010356	46.72	4.27	50%
3376	IARS								BC008318	13.86	4.32	50%
660	BMX								NM_001721	13.22	4.44	50%
3068	HDGF								NM_004494	16.03	4.47	50%
8337	HIST2H2AA3								NM_003516	10.47	4.48	50%
219928	MRGPRF	Y						Y	BC016964	9.92	4.57	50%
10098	TSPAN5						Y		NM_005723	11.53	4.61	50%
51167	CYB5R4								NM_016230	8.50	4.64	50%
2968	GTF2H4								NM_001517	12.53	4.64	50%
7122	CLDN5	Y							NM_003277	7.39	4.68	50%
98	ACYP2								NM_138448	20.67	4.73	50%
84851	TRIM52								NM_032765	8.78	4.76	50%
84572	GNPTG								BC014592	12.14	4.86	50%
10776	ARPP-19								NM_006628	9.14	4.86	50%
6836	SURF4								NM_033161	8.19	4.89	50%
983	CDC2								NM_001786	14.81	4.95	50%
25788	RAD54B								BC033710	10.69	4.97	50%
3312	HSPA8								NM_006597	5.72	5.01	50%
23358	USP24								BC029660	10.83	5.06	50%
84455	KIAA1799								BC015814	4.94	5.08	50%
10474	TADA3L								NM_133480	20.22	5.10	50%
10950	BTG3								BC011957	11.64	5.11	50%
83544	DNAL1								NM_031427	5.58	5.19	50%
4331	MNAT1								NM_002431	38.39	5.23	50%
8303	SNN								NM_003498	8.19	5.26	50%
117177	RAB3IP								BC015548	8.11	5.29	50%
3340	NDST1								BC012888	8.75	5.32	50%
2280	FKBP1A								NM_000801	8.72	5.32	50%
414061	HCG3		Y	Y					BC024013	9.03	5.58	50%
10771	ZMYND11								BC034784	11.36	5.61	50%
117583	PARD3B								BC012984	8.75	5.63	50%
375484	C5orf25								NM_198567	12.58	5.65	50%
84641	HIATL1								BC021093	11.28	5.68	50%
25864	ABHD14A		Y						NM_015407	14.47	5.79	50%
25926	NOL11								BC001726	10.33	5.81	50%
3660	IRF2								BC015803	10.72	5.91	50%
6396	SEC13				Y				NM_030673	9.19	5.97	50%
6540	SLC6A13		Y	Y					BC020867	18.69	6.00	50%
8760	CDS2								NM_003818	9.69	6.06	50%
5437	POLR2H								NM_006232	4.81	6.12	50%
6217	RPS16							Y	NM_001020	10.00	6.15	50%
3984	LIMK1						Y		NM_002314	12.86	6.20	50%
11158	RABL2B								BC024281	7.53	6.30	50%
151903	CCDC12								NM_144716	22.39	6.30	50%
53615	MBD3								BC043619	20.14	6.35	50%
5586	PKN2								NM_006256	7.50	6.35	50%
2618	GART								NM_175085	11.11	6.45	50%
506	ATP5B								NM_001686	3.36	6.62	50%
115817	DHRS1								BC014057	8.14	6.64	50%
54925	ZNF434								BC002859	15.89	6.81	50%

1641	DCX								NM_178152	9.72	6.83	50%
55145	THAP1								NM_018105	8.97	7.06	50%
9733	SART3								BC041638	8.56	7.08	50%
54978	C2orf18			Y					NM_017877	15.36	7.29	50%
6772	STAT1								BC002704	7.50	7.30	50%
81831	NETO2								BC012381	9.22	7.49	50%
5612	PRKRIR								BC021992	6.86	7.54	50%
3964	LGALS8								BC014452	6.53	7.65	50%
4689	NCF4						Y		NM_013416	11.72	7.99	50%
10574	CCT7								NM_006429	7.31	8.13	50%
57010	CABP4								BC033167	5.19	8.49	50%
9270	ITGB1BP1					Y			BC012264	6.72	8.50	50%
28511	NKIRAS2								NM_017595	28.69	8.54	50%
84529	C15orf41								NM_032499	6.58	8.80	50%
29085	PHPT1								NM_014172	6.08	8.88	50%
79947	DHDDS			Y					BC004117	7.50	9.15	50%
7124	TNF								NM_000594	24.08	9.43	50%
79669	C3orf52						Y		BC017064	3.64	9.48	50%
8019	BRD3								BC032124	6.61	9.53	50%
112609	C6orf117								BC039855	7.22	9.53	50%
10611	PDLIM5								BC008741	13.17	9.76	50%
1556	CYP2B7P1			Y					BC041174	3.81	9.78	50%
125	ADH1B						Y	Y	BC033009	6.42	9.81	50%
9910	RABGAP1L								BC012094	5.53	9.92	50%
1195	CLK1								NM_004071	6.78	9.93	50%
90379	LOC90379								NM_138353	3.22	9.94	50%
79912	FLJ22028								NM_024854	5.89	10.00	50%
3791	KDR								NM_002253	3.92	10.31	50%
79007	DBNDD1								NM_024043	4.44	10.46	50%
10480	PCID1								NM_006360	3.83	10.47	50%
64840	PORCN								BC019080	2.94	10.59	50%
2534	FYN	Y						Y	NM_002037	7.25	10.62	50%
644	BLVRA								BC005902	3.47	11.09	50%
11313	LYPLA2								NM_007260	7.94	11.19	50%
79823	C2orf34								BC029359	3.72	12.08	50%
51552	RAB14								NM_016322	2.56	12.29	50%
30008	EFEMP2								BC010456	3.25	12.70	50%
9529	BAG5								NM_004873	8.14	13.13	50%
1750	DLX6								BC069363	4.19	13.41	50%
55332	DRAM								NM_018370	4.64	13.49	50%
9338	TCEAL1								BC000809	7.67	13.84	50%
660	BMX								NM_001721	4.03	15.48	50%
134147	CMBL		Y	Y					NM_138809	5.08	15.95	50%
57826	RAP2C								BC003403	4.25	16.42	50%
6482	ST3GAL1			Y					NM_173344	2.97	17.35	50%
55273	TMEM100							Y	BC010128	3.39	18.15	50%
2051	EPHB6							Y	NM_004445	1.50	18.81	50%
10813	UTP14A								BC001149	4.67	25.32	50%
7922	SLC39A7								BC000645	3.11	25.37	50%
51478	HSD17B7								NM_016371	1.00	26.90	50%
65979	PHACTR4	Y							BC021247	3.86	29.51	50%
1992	SERPINB1								BC009015	1.61	30.49	50%

1357	CPA1							BC005279	1.25	31.51	50%
6660	SOX5						Y	BC060773	9.69	37.75	50%
64173	SPATA1							BC064144	0.72	38.12	50%
5361	PLXNA1							BC032432	0.75	39.88	50%
1491	CTH							NM_001902	5.17	40.67	50%
8266	UBL4A							BC043346	1.61	53.95	50%
8621	CDC2L5							BC001274	0.72	66.99	50%
2730	GCLM							NM_002061	0.83	78.38	50%
84315	MON1A							BC047022	0.78	84.28	50%
122970	ACOT4			Y				BC031799	0.39	104.54	50%
10242	KCNMB2		Y					NM_005832	0.33	107.67	50%
58493	C9orf80							NM_021218	0.67	119.98	50%
65993	MRPS34							NM_023936	0.72	147.77	50%
158427	C9orf97							BC022958	0.42	174.28	50%
6206	RPS12						Y	NM_001016	0.06	375.44	50%
161514	TBC1D21							NM_153356	-0.47	-228.16	44%
27086	FOXP1						Y	BC005055	-0.42	-160.95	44%
10140	TOB1							NM_005749	-0.58	-90.72	44%
9978	RBX1							NM_014248	-1.42	-71.78	44%
8895	CPNE3							BC036242	-0.78	-62.66	44%
4710	NDUFB4							NM_004547	-0.39	-59.61	44%
80381	CD276							BC011578	-2.08	-34.32	44%
7360	UGP2			Y				BC002954	-2.81	-31.67	44%
64118	DUS1L							NM_022156	-1.00	-27.66	44%
432	ASGR1						Y	NM_001671	-2.78	-25.05	44%
311	ANXA11							NM_001157	-2.44	-23.95	44%
51283	BFAR			Y				NM_016561	-2.69	-21.71	44%
8935	SKAP2							NM_003930	-2.08	-18.22	44%
84294	C8orf53							BC005955	-9.31	-16.82	44%
5537	PPP6C							NM_002721	-2.86	-15.87	44%
1956	EGFR							NP_005219	-4.06	-14.90	44%
51778	MYOZ2							NM_016599	-3.53	-14.77	44%
54957	TXNL4B							NM_017853	-4.25	-14.49	44%
4656	MYOG							NM_002479	-12.42	-13.54	44%
26276	VPS33B							NM_018668	-2.67	-13.18	44%
165100	MGC35154							NM_152614	-5.86	-12.94	44%
1297	COL9A1							BC015409	-21.19	-9.34	44%
26286	ARFGAP3							NM_014570	-7.36	-9.09	44%
5511	PPP1R8							NM_014110	-7.69	-8.79	44%
285282	RABL3							NM_173825	-19.11	-8.53	44%
7518	XRCC4							BC005259	-5.61	-8.47	44%
57132	CHMP1B						Y	NM_020412	-5.08	-7.70	44%
55621	TRMT1							BC018302	-19.08	-7.47	44%
1641	DCX							NM_178152	-43.81	-7.36	44%
6907	TBL1X							BC032708	-23.69	-6.93	44%
55333	SYNJ2BP							BC007704	-6.31	-6.52	44%
1676	DFFA							NM_004401	-8.03	-6.47	44%
25911	RP11-529I10.4							BC031695	-10.53	-6.18	44%
25852	ARMC8							BC013424	-7.22	-5.96	44%
1558	CYP2C8			Y				BC020596	-33.53	-5.71	44%
80723	TMEM22							BC000111	-10.08	-5.62	44%
56985	C17orf48							BC001294	-60.22	-5.27	44%

6227	RPS21						Y	BC018140	-53.39	-5.25	44%
56829	ZC3HAV1							NM_024625	-15.33	-4.84	44%
3098	HK1						Y	BC008730	-44.11	-4.73	44%
29110	TBK1							NM_013254	-92.42	-4.13	44%
57460	PPM1H							BC040177	-216.36	-4.09	44%
3646	EIF3S6						Y	BC005944	-157.42	-3.86	44%
2954	GSTZ1		Y	Y				NM_145870	-125.42	-3.05	44%
51368	TEX264							NM_015926	-18.72	-2.97	44%
79598	LRRIQ2							NM_024548	37.39	2.18	44%
25953	PNKD							NM_015488	16.17	2.29	44%
51056	LAP3							BC006199	24.89	2.35	44%
9641	IKBKE							NM_014002	16.39	2.36	44%
140459	ASB6							NM_177999	15.67	2.42	44%
4792	NFKBIA							NM_020529	13.81	2.47	44%
10581	IFITM2	Y						BC009696	31.03	2.50	44%
9501	RPH3AL							BC005153	74.89	2.52	44%
10981	RAB32							NM_006834	40.75	2.53	44%
29941	PKN3							NM_013355	24.06	2.53	44%
302	ANXA2					Y	Y	BC023990	20.47	2.59	44%
5592	PRKG1	Y					Y	BC062688	28.81	2.61	44%
5281	PIGF							NM_173074	28.19	2.65	44%
10248	POP7							BC001430	31.19	2.66	44%
51263	MRPL30							NM_145212	16.39	2.68	44%
204	AK2							NM_001625	30.14	2.69	44%
29927	SEC61A1							BC002951	28.81	2.71	44%
9976	CLEC2B						Y	BC005254	17.89	2.73	44%
55568	GALNT10			Y				BC007224	27.42	2.75	44%
6648	SOD2							BC016934	23.72	2.76	44%
27010	TPK1							BC068460	19.39	2.80	44%
9915	ARNT2							BC036099	37.39	2.81	44%
254295	PHYHD1							BC053853	21.58	2.83	44%
128240	APOA1BP							BC056917	18.25	2.86	44%
10842	C7orf16							NM_006658	76.03	2.86	44%
79870	BAALC							NM_024812	10.94	2.91	44%
4343	MOV10							NM_020963	26.06	2.94	44%
283377	SPRYD4							BC020844	14.83	2.94	44%
55572	FOXRED1							BC013902	11.17	2.94	44%
8431	NROB2							NM_021969	8.75	2.95	44%
79887	FLJ22662						Y	BC000909	15.78	2.99	44%
55751	TMEM34							BC046128	15.67	2.99	44%
309	ANXA6						Y	BC017046	33.33	3.00	44%
9093	DNAJA3							NM_005147	17.11	3.01	44%
8851	CDK5R1						Y	NM_003885	8.81	3.03	44%
9043	SPAG9							BC007524	34.78	3.04	44%
51573	MIR16							NM_016641	50.89	3.05	44%
466	ATF1							NM_005171	23.25	3.06	44%
84314	TMEM107							NM_032354	13.72	3.11	44%
11285	B4GALT7							NM_007255	15.47	3.13	44%
94107	MGC14327							NM_053045	16.25	3.14	44%
54555	DDX49							BC000979	40.42	3.16	44%
51128	SAR1B							NM_016103	25.64	3.17	44%
50865	HEBP1							NM_015987	22.50	3.17	44%

440193	KIAA1509							Y	BC028565	47.72	3.18	44%
10577	NPC2								NM_006432	14.03	3.22	44%
5908	RAP1B								NM_015646	17.06	3.23	44%
83659	TEKT1								NM_053285	34.78	3.31	44%
83648	C8orf13								BC048214	13.39	3.34	44%
51204	CCDC44								NM_016360	17.14	3.37	44%
2948	GSTM4								NM_000850	10.00	3.42	44%
51188	SS18L2								NM_016305	12.22	3.44	44%
85450	KIAA1754	Y							NM_033397	13.92	3.51	44%
10533	ATG7								BC000091	18.58	3.52	44%
9400	RECQL5							Y	BC016911	14.31	3.56	44%
5127	PCTK1								BC001048	31.17	3.60	44%
201163	FLCN								BC015725	18.25	3.65	44%
57696	DDX55								BC035911	37.03	3.71	44%
5725	PTBP1								NM_031991	31.78	3.74	44%
5058	PAK1								BC050377	12.61	3.77	44%
1735	DIO3								BC017717	12.67	3.78	44%
51103	NDUFAF1								NM_016013	18.89	3.79	44%
254251	LCORL								BC037322	12.64	3.84	44%
348840	LOC348840								NM_182631	22.00	3.90	44%
283635	C14orf24								NM_173607	36.83	3.95	44%
125875	CLDND2								NM_152353	9.47	3.97	44%
10063	COX17								NM_005694	20.33	4.02	44%
84870	RSPO3						Y	Y	NM_032784	19.69	4.03	44%
255101	CCDC108								NM_152389	13.83	4.04	44%
51604	PIGT								NM_015937	7.94	4.20	44%
147372	CCBE1								BC046645	14.47	4.26	44%
54986	ULK4			Y					BC014794	10.89	4.32	44%
359	AQP2							Y	NM_000486	16.11	4.32	44%
23612	PHLDA3								NM_012396	8.67	4.34	44%
10769	PLK2								BC013879	20.92	4.39	44%
56927	GPR108	Y							BC007862	12.56	4.39	44%
27079	RPUSD2								BC016967	28.28	4.40	44%
902	CCNH								NM_001239	8.89	4.41	44%
79098	C1orf116							Y	NM_023938	11.81	4.43	44%
2047	EPHB1		Y	Y					NM_004441	19.39	4.43	44%
54432	YIPF1								BC009674	9.50	4.47	44%
29106	SCG3							Y	BC014539	9.56	4.50	44%
8895	CPNE3								BC036242	12.33	4.54	44%
4099	MAG								BC053347	14.58	4.56	44%
4282	MIF								NM_002415	8.08	4.62	44%
2036	EPB41L1								NM_177996	49.33	4.63	44%
55328	C10orf59								BC005364	20.39	4.65	44%
51705	EMCN	Y							BC017781	44.28	4.66	44%
201516	ZSCAN4								NM_152677	12.36	4.71	44%
9991	ROD1							Y	BC044585	13.19	4.79	44%
28972	SPCS1								BC000884	7.94	4.80	44%
3053	SERPIND1								BC035028	8.92	4.83	44%
2825	GPR1								BC058005	8.39	4.85	44%
9638	FEZ1								NM_005103	8.61	4.85	44%
57863	CADM3							Y	BC033819	7.69	4.87	44%
11226	GALNT6								BC035822	8.36	4.89	44%

80169	C17orf68								NM_025099	6.72	4.96	44%
11133	KPTN								BC009249	6.31	5.00	44%
6882	TAF11								NM_005643	8.56	5.09	44%
55364	IMPACT								NM_018439	10.44	5.10	44%
51762	RAB8B						Y		NM_016530	14.28	5.16	44%
220042	FLJ25416						Y		NM_145018	11.17	5.17	44%
65082	VPS33A								NM_022916	17.00	5.18	44%
27012	KCNV1								BC028739	8.28	5.23	44%
79665	DHX40								BC024187	21.11	5.32	44%
84950	PRPF38A								NM_032284	16.00	5.43	44%
5208	PFKFB2		Y	Y					NM_006212	10.31	5.59	44%
583	BBS2								BC014140	11.44	5.64	44%
219899	TBCEL								NM_152715	9.11	5.65	44%
25979	DHRS7B								NM_015510	9.75	5.70	44%
64838	FNDC4						Y		NM_022823	8.86	5.93	44%
7023	TFAP4								NM_003223	11.47	5.94	44%
56901	NDUFA4L2						Y		NM_020142	13.89	6.01	44%
10439	OLFM1						Y		NM_058199	9.44	6.14	44%
6603	SMARCD2	Y							BC018953	7.11	6.27	44%
4814	NINJ1								NM_004148	8.69	6.34	44%
8434	RECK	Y					Y		BC060806	7.50	6.40	44%
196410	METTL7B								NM_152637	10.89	6.43	44%
1459	CSNK2A2								NM_001896	2.89	6.55	44%
8896	BUD31								NM_003910	11.81	6.62	44%
81544	GDPD5								BC020203	7.69	6.63	44%
257019	FRMD3	Y		Y					BC023560	6.11	6.65	44%
5356	PLRG1								BC020786	9.64	6.66	44%
145264	SERPINA12						Y		NM_173850	12.92	6.67	44%
23111	SPG20								BC047083	14.14	6.67	44%
4013	LOH11CR2A								BC001234	10.00	6.83	44%
8536	CAMK1								NM_003656	9.61	7.05	44%
8027	STAM								BC030586	37.00	7.12	44%
57018	CCNL1								BC038394	8.03	7.21	44%
134288	TMEM174	Y	Y	Y					NM_153217	7.56	7.25	44%
9985	REC8L1						Y		BC010887	5.67	7.30	44%
255394	TCP11L2								NM_152772	7.50	7.33	44%
1725	DHPS								NM_001930	13.28	7.47	44%
7076	TIMP1						Y		NM_003254	12.36	7.54	44%
22907	DHX30								BC014237	4.33	7.59	44%
22954	TRIM32								BC003154	13.44	7.66	44%
5692	PSMB4								NM_002796	7.53	7.70	44%
23406	COTL1			Y					NM_021149	21.83	7.72	44%
55916	NXT2								BC014888	7.31	8.38	44%
132001	C3orf31								NM_138807	9.58	8.59	44%
8878	SQSTM1						Y		NM_003900	7.92	8.70	44%
27249	C2orf25								BC000932	8.33	8.82	44%
56954	NIT2		Y	Y					BC020620	15.56	9.17	44%
78990	OTUB2						Y		BC009615	3.64	9.29	44%
207	AKT1								BC000479	3.75	9.58	44%
22818	COPZ1								NM_016057	25.53	9.99	44%
50813	COPS7A								NM_016319	4.53	10.06	44%
55143	CDC48								BC001651	3.92	10.72	44%

533	ATP6V0B							BC005876	4.31	11.67	44%
55244	FLJ10847		Y	Y				BC058882	4.28	11.90	44%
9886	RHOBTB1		Y	Y				NM_014836	3.58	13.50	44%
10061	ABCF2							NM_007189	4.25	14.50	44%
8894	EIF2S2							BC007888	4.56	15.18	44%
25828	TXN2			Y				NM_012473	3.11	15.24	44%
51155	HN1					Y		NM_016185	5.28	17.05	44%
80152	CENPT							BC015202	2.92	19.11	44%
7320	UBE2B							NM_003337	2.67	19.36	44%
23589	CARHSP1							BC003366	3.44	20.22	44%
3263	HPX							BC005395	2.94	25.58	44%
253769	WDR27							BC040606	1.75	30.09	44%
81614	NIPA2							NM_030922	1.53	52.55	44%
10544	PROCR							BC014451	0.81	77.43	44%
1994	ELAVL1							BC003376	0.61	82.23	44%
5519	PPP2R1B			Y			Y	BC027596	0.53	86.44	44%
54495	TXNDC10							BC032325	0.22	183.38	44%
27338	UBE2S							BC004236	0.19	188.76	44%
403	ARL3							NM_004311	0.39	202.01	44%
369	ARAF							BC007514	0.14	246.69	44%
55	ACPP		Y					BC008493	0.06	446.86	44%
51706	CYB5R1							BC018732	-0.17	-224.21	39%
290	ANPEP		Y	Y				NM_001150	-0.61	-216.58	39%
79027	ZNF655						Y	NM_024061	-0.86	-51.86	39%
156	ADRBK1							NM_001619	-1.19	-43.57	39%
10978	CLP1							NM_006831	-4.03	-30.09	39%
51806	CALML5						Y	BC039172	-2.75	-25.89	39%
11011	TLK2							NM_006852	-8.64	-19.05	39%
27125	AFF4					Y		BC025700	-4.67	-14.36	39%
10652	YKT6							NM_006555	-2.75	-12.16	39%
114885	OSBPL11							NM_022776	-1.89	-8.18	39%
9255	SCYE1						Y	BC014051	-9.58	-8.15	39%
1020	CDK5		Y	Y				NM_004935	-15.94	-7.36	39%
8631	SKAP1							BC047870	-11.06	-7.28	39%
27173	SLC39A1							NM_014437	-11.81	-6.72	39%
1119	CHKA							NM_001277	-11.17	-5.44	39%
10635	RAD51AP1							NM_006479	-23.56	-5.11	39%
1848	DUSP6							NM_001946	-30.47	-4.95	39%
55293	UEVLD							BC011011	-101.00	-4.26	39%
51377	UCHL5							BC025369	-26.61	-4.24	39%
5653	KLK6	Y		Y				NM_002774	-27.67	-3.07	39%
22872	SEC31A			Y				BC047883	27.50	2.22	39%
53944	CSNK1G1							BC017236	20.75	2.64	39%
1513	CTSK							NM_000396	35.47	2.75	39%
10572	SIVA1							NM_021709	26.67	2.82	39%
55269	PSPC1							NM_018282	19.28	2.82	39%
9099	USP2		Y					BC041366	33.39	3.01	39%
84807	TA-NFKBH							BC006273	24.19	3.10	39%
8872	CDC123							BC001600	18.47	3.17	39%
79689	STEAP4						Y	BC020600	25.11	3.23	39%
2752	GLUL							BC031964	57.50	3.28	39%
152926	PPM1K							NM_152542	17.72	3.37	39%

3945	LDHB		Y					NM_002300	25.83	3.52	39%
6416	MAP2K4							NM_003010	10.08	3.55	39%
7001	PRDX2							NM_181738	15.97	3.67	39%
55655	NLRP2							BC039269	11.97	3.71	39%
56063	C1orf91							BC004885	12.36	3.93	39%
151525	WDSUB1							BC029520	11.61	3.99	39%
84900	TMEM118							BC011878	14.06	4.43	39%
54886	RP11-35N6.1		Y	Y				BC022465	15.94	4.46	39%
27161	EIF2C2							BC007633	10.61	4.53	39%
183	AGT		Y	Y			Y	BC011519	8.72	4.97	39%
5368	PNOC							NM_006228	10.42	5.05	39%
29028	ATAD2					Y	Y	BC019909	16.22	5.13	39%
54867	FLJ20254							NM_017727	11.56	5.34	39%
148223	C19orf25							BC018441	25.39	5.38	39%
1797	DOM3Z							NM_005510	12.64	5.40	39%
2773	GNAI3							NM_006496	5.17	5.47	39%
131540	ZDHHC19							BC034801	12.97	5.77	39%
9364	RAB28							BC035054	14.44	5.80	39%
1155	TBCB							BC005969	22.53	6.01	39%
379	ARL4D							BC000043	11.39	6.11	39%
9481	SLC25A27							BC033091	5.22	6.22	39%
7727	ZNF174							BC000876	10.17	6.30	39%
80128	TRIM46							BC069568	10.69	6.30	39%
9759	HDAC4							BC039904	6.47	6.51	39%
48	ACO1		Y	Y				NM_002197	5.00	6.58	39%
5292	PIM1							NM_002648	8.31	7.07	39%
5316	PKNOX1							NM_004571	5.89	8.31	39%
65975	STK33							BC031231	15.97	8.81	39%
2701	GJA4	Y						BC027889	8.36	9.31	39%
219333	USP12						Y	NM_182488	3.78	9.52	39%
51673	CGI-38	Y						BC000691	5.64	10.58	39%
9525	VPS4B							NM_004869	3.69	14.40	39%
79663	HSPBAP1							NM_024610	3.94	17.55	39%
3958	LGALS3						Y	BC001120	2.81	17.59	39%
143187	VTI1A	Y						NM_145206	4.69	18.80	39%
23500	DAAM2	Y						BC047575	1.42	26.38	39%
3856	KRT8							BC008200	3.53	28.90	39%
58485	TRAPPC1							NM_021210	0.67	43.27	39%
1969	EPHA2						Y	NM_004431	0.00	#DIV/0!	39%
9324	HMG3			Y				NM_138730	-8.92	-4.71	33%
55784	MCTP2							BC025708	-21.72	-3.00	33%
7168	TPM1						Y	BC053545	87.72	4.22	33%
10263	CDK2AP2							NM_005851	23.58	4.49	33%
5527	PPP2R5C							NM_178588	6.11	4.69	33%
2810	SFN							NM_006142	16.81	5.04	33%
26003	GORASP2							BC001408	14.94	5.08	33%
5173	PDYN							NM_024411	9.67	5.67	33%
57019	CIAPIN1							BC002568	15.47	9.42	33%