

Supplemental Table 1. Cell lines used in this study.

<u>Cell line</u>	<u>Kinesin-5i EC₅₀ (nM)</u>	<u>MIN/CIN status</u>	<u>Reference pool</u>
LS123	138		HCT116
CaCo2	111	CIN ^a	DLD1
NCI-H716-1	100		LS1034
LS1034	89	CIN ^b	SW620
SW1463	79		SW837
HT29	77	CIN ^a	SW480
WiDr	77	CIN	SW48
SW480	76	CIN ^a	HCT-15
SW948	71		LS174T
SW837	69	CIN ^a	HT29
COLO201	58		
RKO-E6	52		
SW403	49		
DLD1	47	MIN ^a	
HCT-8	45		
COLO205	45		
COLO320DM	41		
HCT-15	41	MIN ^b	
HeLa	40		
SW48	38	MIN ^a	
SNU-C2B	36		
LoVo	36	MIN ^b	
RKO	35	MIN ^a	
SW620	33		
CCD841CoTr	27		
HCT116	23	MIN ^b	
RKO-AS45-1	22		

^aCahill, DP, et al., 1998., ^bGayet, J, et al., 2001.

Supplemental Table 2. Kinesin-5i enhancer genes from siRNA screens

Gene	Accession	Chr 20q	Confirmed by deconvolution	siRNA sequence
ALS2CR2	AF116618			GAAACAGAGGGACUACAAATT GAUAUCCAAUGGGCUAUAATT CUGAUGUUUCCUUGUCAUATT
AMFR	NM_001144			GAAUUCGUCGGCACAAGAATT GAGGACUGCUCAUGUGAUUTT CUUCGUGUGGGUUCUAGUATT
ARFRP1	NM_003224	Yes	No	GUCUUUGUGGGACAAGUAUTT CCACCACCGUGGGCCUAAATT CUGAUCUUGCCUUGAGGAATT
ARPC3	NM_005719			GAUAGGACCUUGAUUAUUAATT CCCAGCAAGUGGUGGACUUTT

ATP6V1B2	NM_001693			GCAAGAGACUGGACUGAGATT GGGAGAAACGGCUCGAUUATT CGGUUAAUGAAGUCUGCUATT CCCUCACUAUCACGGUUAATT
AURKA	NM_003600	Yes	Yes	GCACAAAAGCUUGUCUCCATT CCUCCCUAUUCAGAAAGCUTT CACCCAAAAGAGCAAGCAGTT GCUCUAAAAGUGUUUUUATT GCACCACUUGGAACAGUUUTT GGAGUUCUUUGCUAUGAAUTT CAGUUUAUAGAGAACUUCATT GAAUCAGCUAGCAAACAGUTT CAGCAAUUUCCUUGUCAGATT
AURKA_7926 AURKA_9476 AURKA_2471 CCND3	NM_001760			CCCUCUGUGCUACAGAUUATT GCCUGGGUGCCUGCUCCAUTT CUGGUCCUAGGGAAGCUCATT CUGCUAAGCCCGGCUCACATT CAUUCGUGGGCUUCACCUATT CCUUCUAUGCUGAGUCCUUTT CAGAUCAAAUUACUCAUUATT GCCAGUCA AUGUCGUCAAUTT CGUGCAGACUUUCAGCAUUTT CCGAUUGGAUCUUUCUAAATT CUCAGAGACUGAUAGAAGATT CAGAGUGGCCGAUUGGAUCTT CAGUUUCUGUGAUACCAAATT CAGUCAGAACUAUUUGAUATT CCGGUCCUCAGAAUACGAATT GGGUAGAAGCGGUAAUUAATT GGUGCUAUCACAUCUAUAUTT GCCCAACAAUGGUGGCUAUTT AUCUGUAUGCGGAACCUCATT GCUGUUGGAUGGAGGUGUUTT GCCCCGCAGAGGACAGUAATT CAGUUUCUCAUUGAGGUAGTT CAUCAUCUCUGCUACCCAATT GUCUGACUCUGAGGCGACATT CAGAGUCAUGGACAUGUUATT CCCACAAAGGCCCUUGUUATT GGGAACAUCUCCUUGUCAUTT GCCAGAAGGUCUUCACCAATT CCGGACUUGGCAGGCAAUUTT GGACUAAACGGGACGUGUATT CGGUCUACAUGAUCAAUATT CGCUCUUCGUGUACCGUUTT CAUCCUAUCUCAGCUACAATT CUACGCUUAUGAAACCAAATT GAUAGAUUCUUCAAUGAUATT GAUGUUGUGACAGAAUGUATT UCAGUUAUCACAGUACUGAAAU
CDC42BPG	NM_017525			
CDC45L	NM_003504			
DDX50	NM_024045			
DLG7	NM_014750			
DYRK2	NM_006482			
ESR2	NM_001437			
FANCG	NM_004629			
FLJ20035	NM_017631			
FURIN	NM_002569			
FZD2	NM_001466			
GRK4	NM_005307			
hsa_miR_101				

hsa_miR_200c				CAUCAUUACCCGGCAGUAAUAU
hsa_miR_345				CCUGGACUAGGAGUCAGGAU
HSPCA	NM_005348			CGGAGGAUCUCCCUCUAAATT
				CCCAGUUGAUGUCAUUGAUTT
ITSN1	NM_003024			GCUUAGAAGUGAUCUAUAUTT
				CACAUUGACCGCGUCUAUATT
				GGAGUCUUCCCUUCUAACUTT
KCNA7	NM_031886			GGCAAUUAUCAAUAGUCATT
				CGGGUGGACUCCCAUUUCATT
				CCGUCAUUGUCUCCAAUUUTT
KINESIN-5	NM_004523			CACUGUGGGUGGCAAGAUATT
KIF13B	NM_015254			CUGGAUCGUAAGAAGGCAGTT
				GACACACAUUCCUGUUAUATT
				GUAUGCAGGUCAAGAUAUUTT
KIF15	NM_020242			GCUUGAGAGUCUUGGAAUATT
				GGGACCAUCUGAAUCUGAUTT
				GCAGUUGCGUGAAAUGGAATT
LBR	NM_002296			CGUUUGCUCUCAGAAUUAATT
				CUUGGUGUGGGUUCCCUUUTT
				GAGUUCACUUUAUUAUGAATT
				CGCUGAUUCUGAAGCCAUUTT
LMTK2	NM_014916			CCUCUCUGCCUAUCAGAUATT
				GUCAUCGCCGGCUAGAGAATT
				GGCAGACAGUGGCUACGAATT
LOC158301	AI338451			GUAUUACGAUCUGCUAGAATT
				GACUGUCUCUGGAGUUUAUTT
				CAUGCUCAGAGUAAACUAATT
MAST3	AB011133			GAGUUUGACCCUGAGGAAUTT
				GCGCCACGCUCCUGAAGAATT
				CUUGGAUAGUCCUCGGAAUTT
mmu_miR_380_3p				GAUGUGGACCAUACUACAAAAU
MSH3	NM_002439			GCCAGUUUGUGAACUAGAATT
				GCAAUAAUACCUGCUGUUATT
				GACAGGAGUUUAUGAUAGATT
MYBL2	NM_002466	Yes	Yes	GUCUCUGGCUCUUGACAUUTT
				GCCUCACCCUGUCAGGUAUTT
				CCAGAAACAUGCUGCGUUUTT
PAWR	NM_002583			CAGUUUCAGGCAGAUUAUATT
				GUGCUUAGAUGAGUACGAATT
				GAGACUGAUGCAAGAUAAATT
PCTK1	NM_033018			CCAACAUCGUUACGCUACATT
				CAGACAACCUUGUGGCACUTT
				CAGAGAUUGUGCACGAGGATT
PEPD	NM_000285			GGUUCUGCGCUAUACCAUUTT
				CUGCUAUGGUGUCAUCGAUTT
				GAGGUAAUGAAGGCUGUAATT
PKD2L2	NM_014386			AAGGUUAUGUCAUCUCUAUTT
				CACAUACUAUAAUGUACAATT
				CCAUUUACUUCAUCACUUUTT

PLK4	NM_014264			CUCCUUCUGUGGAUUCAAATT CAGACUACAUCAAACAGAATT CAGUAUAAGUGGUAGUUUATT
POLR2F	NM_021974			CCUGCCAGAUGGGAGCUAUTT CAGGCCAACCAGAAGCGAATT GCCAGGAGAAUGUCGAGAUTT
POLR2K	NM_005034			CUCUUCCCAUUUCUGAUUGTT CAUUUCUGAUUGUUGUAUATT CCUCCAAAGCAGCAACCAATT
PRPF4B	NM_176800			GAACUUACGAGAGGUGUUATT GCUAUGACUAUGGUAUAGATT CCUAGAUAAACGUUACAAUTT
PRPS2	NM_002765			CCUGCAUGCUUCUCAGAUATT CCACCAAAGUGUAUGCUAUTT CGGAUCACAUCAUCACCAUTT
RRM1	NM_001033			GACCAGCAGCUAAUCCAAUTT CUAGAUACUUUGGCUGCUGTT GAAGUUGGCUGAAGUCACUTT
SHC3	NM_016848			GACAGAGUCUUUGACAGUATT GAGACUCCUGGUCAGGAATT GACUGACUAUGUUGCAUAUTT
SLK	NM_014720			ACCAGAAUCUGAGAAUCCATT GACAGUGGAUCGAUAUCUUTT GGAUCGAUAUCUUUACAAGTT
SNF1LK2	NM_015191			GUCUCAACUGCAGGCCUAUTT GGCAAUCCUGUCUGCUGUTT CCAAUCAACUGGUCGUGAUTT
STAT3	NM_139276			GCCACUUUGGUGUUUCAUATT GAGUUGAAUUAUCAGCUUATT GGAGCUGUUUAGAAACUUATT
STK35	NM_080836			GCUCUUGAAAGAUUGUUUATT GGACCGGCCUGAUGCCUUUTT CUUUGAACUUGAAACCAGATT
STK36	NM_015690			CCCUGAAGUUCAUCCCAAATT CUGAGCCUGUGCCUAUUCATT GUGAUUCUGUUGCCUUGUATT
SULF2	NM_018837	Yes	No	CGGUGAAUCGGUUUCACUUTT GAGUGGGUCGGACUCCUUATT GAGGCAAGCUGCUACACAATT
TPX2	NM_012112	Yes	Yes	GAGAUUAAGUCAUGGUUUUATT GAGACAAUGUCACAAGUUATT CCGUGCCUGAGAAAGCAUATT
UBE2Q2	NM_173469			UUUAUUCAGUGGAACUCAUTT GUAUGGAACUUCUCACAAATT GACUCAAGGCAAGACCAUTT
UBE2U	NM_152489			CUCAUUUAGUGAUUACUACTT GCCUGUAAGUGAAGAUUAUGTT CUGAGAAGUGGAAUACAAATT
WNT2	NM_003391			CAUUGACUAUGGGAUCAAATT CCAUCCAGGUGGUCAUGAATT

Supplemental Table 3. Comparison of chromosomal location of chromosome 20 genes with the correlation between gene expression and Kinesin-5i responsiveness.

Accession	Gene Symbol	Start coordinate (Mbp)	Correlation of gene expression with log10(EC50) Kinesin-5i
Contig43129_RC	DEFB126	0.71198	0.038278016
Contig16788_RC	DEFB127	0.8743	-0.273213364
Contig39620_RC	DEFB129	1.57998	-0.100442801
Contig4467_RC	ZCCHC3	2.27661	-0.150111076
NM_006943	SOX12	2.54238	-0.31012838
NM_006462	RBCK1	3.36755	0.330783755
Contig40598		3.59975	-0.079608233
AF116909	TBC1D20	3.64125	-0.496615895
Contig48114_RC	TBC1D20	3.67127	-0.20058019
Contig45338_RC		4.09753	-0.279742391
NM_001895	CSNK2A1	4.11337	-0.263691256
NM_004609	TCF15	5.32638	-0.372314898
Contig63520_RC	SRXN1	5.75269	-0.540492733
Contig49782_RC	C20orf54	6.88724	0.184209726
Contig50329_RC	C20orf55	7.74455	0.213507849
NM_015985	ANGPT4	8.01298	-0.265893694
NM_006814	PSMF1	10.47244	-0.054978996
Contig27288_RC		11.00463	-0.141091114
NM_018354	C20orf46	11.09214	-0.076769339
NM_014723	SNPH	11.94959	-0.267626731
NM_015685	SDCBP2	12.38622	0.100232278
NM_000801	FKBP1A	12.97622	0.015149815
Contig42363_RC		13.06051	0.058414322
NM_016143	NSFL1C	13.70812	-0.114518393
NM_018839	NSFL1C	13.70812	-0.062809104
Contig28050_RC	SIRPD	14.80336	-0.1708154
NM_018556	SIRPG	15.57797	0.233249768
NM_004648	SIRPA	18.24081	-0.350198822
Contig39959_RC	PDYN	19.07405	-0.005108729
Contig13568_RC		20.30278	-0.132679379
Contig39647_RC		20.31754	-0.240784833
Contig39626_RC	STK35	20.76759	0.023533223
Contig18462_RC		21.36049	0.269447444
NM_003245	TGM3	22.24674	0.236911114
NM_003091	SNRPB	23.9028	-0.274837428
Contig40528_RC	ZNF343	24.10468	-0.446561482
NM_006392	NOL5A	25.81253	-0.557839625
NM_006899	IDH3B	25.87042	-0.339658771

AB037863	RP5-860F19.3	26.21523	-0.016267189
AF161343		26.25349	-0.200236258
NM_019609	CPXM1	27.22715	-0.470874191
Contig48118_RC	C20orf141	27.43861	-0.023672442
NM_002836	PTPRA	27.92829	0.001565356
Contig41232_RC		29.67401	0.239348823
NM_000915	OXT	30.00265	0.626513997
NM_014948	UBOX5	30.36219	0.093166703
Contig15703_RC		30.45131	-0.452434335
Contig45209_RC	FASTKD5	30.75166	-0.282967939
NM_014731		30.91272	0.129191369
Contig27645_RC		31.1744	0.033934453
AF026816	ITPA	31.38149	-0.093545307
Contig52940_RC	C20orf194	31.77953	-0.037762374
AL110249	C20orf194	31.79801	-0.055924266
NM_012070	ATRN	33.99675	-0.1159566
AL117415	ADAM33	35.96611	0.228314141
Contig53537_RC	SIGLEC1	36.15618	-0.387143101
Contig37198_RC	HSPA12B	36.81291	0.197733546
NM_017874	C20orf27	36.8216	-0.455821151
NM_015417	C20orf28	37.06151	-0.166527644
X05299	CENPB	37.12499	0.049597502
NM_004358	CDC25B	37.244	0.135650745
NM_018347	C20orf29	37.49202	-0.02607309
AB033097		37.83204	0.193711186
Contig22622_RC		38.04306	-0.319028147
Contig48643_RC		38.46598	-0.252435405
Contig64855_RC	PANK2	38.47373	0.031403936
Contig48480_RC		38.55962	-0.215088722
NM_007219	RNF24	38.61729	-0.1658038
NM_019025	SMOX	41.00356	-0.231537333
NM_000311	PRNP	46.15068	-0.1608168
NM_012409	PRND	46.50555	-0.37138866
AL137296	PRNT	46.59928	-0.116264305
NM_014737	RASSF2	47.08669	-0.161619032
Contig12727_RC		47.62032	-0.12357068
NM_005116	SLC23A2	47.81001	0.004617178
NM_014145	C20orf30	50.28488	0.044497543
NM_002592	PCNA	50.43599	-0.166566589
Y16521	CDS2	50.55481	0.192546122
Contig30392_RC		51.20956	0.220061801
Contig48722_RC		51.25909	-0.167381679
Contig38591_RC		53.60643	0.154734767
Contig34824_RC		54.02362	0.428342565
AL137476		54.24713	0.011962447
AB037855	RP5-1022P6.2	54.73086	0.129223957
Contig27878_RC	C20orf196	57.0166	0.166355066
NM_001819	CHGB	58.40167	0.073624512

NM_015939		58.66485	-0.262807907
Contig16394_RC		59.1944	-0.52898713
Contig31244_RC		59.27162	-0.328376318
NM_019095	CRLS1	59.34878	-0.031648563
NM_017671	C20orf42	60.03492	0.189144561
NM_001200	BMP2	66.96744	0.327211815
Contig48673	BMP2	67.07873	0.454267203
Contig21464_RC		67.11014	0.404478429
AL121739	HAO1	78.1163	0.341285796
AB032988	TXNDC13	79.06023	0.085005316
AB011153	PLCB1	80.60911	0.196689079
Contig19918_RC		84.63411	0.205979391
NM_000933	PLCB4	90.24931	0.107970044
Contig25072_RC	PLCB4	94.02893	0.0163001
NM_012261	C20orf103	94.4327	-0.056632997
AB033090	PAK7	94.66037	-0.103309046
NM_003081	SNAP25	101.47476	-0.111801758
NM_018848	MKKS	103.33832	-0.118001288
Contig34113_RC		104.33212	0.037847588
NM_000214	JAG1	105.66333	0.021782875
Contig27206_RC	JAG1	105.85124	-0.252204802
Contig40856_RC		106.92874	-0.102207432
Contig21439_RC		117.38635	-0.289434373
NM_014962	BTBD3	118.46564	-0.208449867
Contig15953_RC		128.63527	-0.195563419
Contig40691_RC		128.79183	-0.20768378
NM_018327	C20orf38	129.37846	0.354370078
Contig56735_RC	C20orf38	130.94102	0.195793167
Contig42882_RC	C20orf82	132.28458	0.047306646
NM_017714	TASP1	133.18036	0.079960643
NM_016649	C20orf6	136.42969	-0.469261056
Contig49219_RC	C20orf7	137.30184	-0.179400073
AL137678	C20orf50	137.78051	0.012289997
Contig23793_RC		141.77796	-0.414793232
NM_013281	FLRT3	142.52642	0.617409334
Contig26947_RC		156.8467	-0.099736693
Contig31913_RC	C20orf133	159.81415	0.557365234
Contig46709_RC	C20orf23	162.00749	-0.077756653
AK000142	C20orf23	163.07805	0.047288852
Contig15101_RC		165.18569	-0.010978023
NM_003092	SNRPB2	166.58628	-0.344166229
NM_020157	OTOR	166.77002	0.252446851
Contig34330_RC	OTOR	166.80421	-0.060717515
NM_002594	PCSK2	171.5563	0.054007345
NM_001195	BFSP1	174.2255	0.264494978
NM_006870	DSTN	174.98598	0.340894347
NM_004587	RRBP1	175.42744	0.239881387
Contig327_RC	RRBP1	175.47778	-0.028375859
Contig31391_RC		175.72122	0.216451722
Contig22408_RC	C20orf179	176.51412	-0.284520444

NM_014426	SNX5	178.70245	0.191912013
Contig43549_RC	SNX5	178.96341	-0.290228796
Contig53837_RC	C20orf72	179.19074	0.008434168
NM_021220	OVOL2	179.52795	0.144094356
AL079276	OVOL2	179.52905	0.21498145
Contig16239_RC		179.88194	-0.39155466
Contig56948_RC	CSRP2BP	181.13267	0.041605985
NM_003434	ZNF133	182.17156	0.201619674
Contig36307_RC		183.09739	-0.165745318
NM_018152	C20orf12	183.12014	0.045609601
NM_006466	POLR3F	183.96032	-0.286108354
NM_006606	RBBP9	184.15189	-0.484220314
Contig51485_RC	RBBP9	184.15189	-0.228985242
NM_006363	SEC23B	184.36187	0.089438073
NM_014162		187.17307	-0.033331894
Contig45772_RC		187.24239	0.172902739
Contig29207_RC		187.38383	-0.122454543
Contig50624_RC	C20orf79	187.42556	-0.161495732
Contig5607_RC		191.37779	0.058740657
NM_020689	SLC24A3	191.41289	-0.044401926
Contig49066_RC	SLC24A3	196.51098	0.26278388
Contig729_RC	RIN2	199.30416	0.376040117
NM_016100	NAT5	199.45936	0.002265154
Contig29047_RC		199.56481	0.214927008
NM_016652	CRNKL1	199.63012	-0.049311861
AL117439	C20orf26	199.85351	-0.417508793
Contig31592_RC		200.98824	-0.136822497
Contig13678_RC	C20orf26	202.88965	-0.163298754
NM_002196	INSM1	202.96764	0.240622455
Contig3474_RC		203.18203	0.223937369
AK002211	C20orf74	203.20855	0.254809332
Contig39664_RC	C20orf74	204.0008	0.174184327
NM_018474	C20orf19	210.54694	-0.018213283
Contig29613_RC		210.71995	-0.000893256
AL117539	C20orf19	211.60773	0.009453059
AF035314		211.66819	-0.357354288
NM_012255	XRN2	212.31941	-0.080647977
NM_002509	NKX2-2	214.39663	0.261929331
NM_006192	PAX1	216.34363	0.068613467
Contig48910_RC		216.46367	-0.167085243
Contig28452_RC		222.08868	-0.207049586
AB028021	FOXA2	225.10113	0.446347775
NM_001052	SSTR4	229.6412	-0.262883349
NM_000361	THBD	229.7427	-0.102139672
Contig61938_RC	THBD	229.7427	-0.238918869
NM_012072	CD93	230.07993	-0.22718314
Contig37241_RC		231.18507	-0.139342295
NM_013248	NXT1	232.79372	0.081751019
Contig12058_RC		232.8029	-0.001552566
Contig49484_RC	GZF1	233.0038	-0.139845194

Contig1619_RC	NAPB	233.03163	0.101969837
Contig26208_RC	CST11	233.79041	-0.288672749
NM_005492	CST8	234.19765	0.143720435
AL137625		234.45521	-0.128970852
Contig47230_RC	CST9L	234.93371	0.032478865
Contig32509_RC		235.5535	0.224753863
NM_000099	CST3	235.62293	0.553320203
NM_001899	CST4	236.14276	0.572743222
NM_001898	CST1	236.7619	0.318672972
NM_001322	CST2	237.52403	0.27469767
NM_001900	CST5	238.04571	0.393696304
Contig40440_RC		244.92839	-0.306911443
Contig54547_RC	C20orf39	245.94303	-0.30271849
NM_003650	CST7	248.77865	0.058761984
AF090935	C20orf3	248.91578	0.238517856
Contig56745_RC	ACSS1	249.34867	0.555320626
NM_014588	VSX1	250.04099	0.341928817
NM_001247	ENTPD6	251.24371	0.386718998
NM_002862	PYGB	251.76705	0.268279791
AL117442	ABHD12	252.28849	0.566986735
D80008	GINS1	253.36362	-0.123449377
	RP4-		
AB023197	691N24.1	253.81461	0.083962589
Contig44817_RC	NANP	255.42212	0.151557905
AL049942	ZNF337	256.02851	-0.150136356
	RP13-		
AL096727	401N8.2	257.02654	0.341292459
Contig46352_RC	C20orf91	260.1494	0.162748765
Contig22720_RC		261.15655	-0.155270818
Contig64392_RC	DEFB119	294.28628	-0.499951034
NM_014012	REM1	295.26765	-0.406741523
Contig39516_RC		296.21173	0.373837489
NM_002165	ID1	296.56752	0.059183641
Contig31153	COX4I2	296.9052	-0.21674313
NM_001191	BCL2L1	297.15923	0.158837102
Contig32556_RC	BCL2L1	297.74485	-0.221484764
AB024704	TPX2	297.90791	0.113298517
AK000652	C20orf57	298.99101	-0.043741304
Contig17675_RC		299.16555	0.020455955
Contig61267_RC	PDRG1	299.96429	0.355578827
Contig21409_RC	C20orf160	300.83242	0.026642703
NM_002110	HCK	301.03717	-0.263318332
NM_014742	TM9SF4	301.84475	0.752927004
Contig31201_RC	TM9SF4	302.18937	0.360019629
NM_002657	PLAGL2	302.43967	0.230183564
D80002	POFUT1	302.59359	0.463574878
NM_004798	KIF3B	303.29127	0.179655217
Contig23853_RC		304.14335	0.045825724
AB023195	ASXL1	304.80848	0.469265682
AL122043	C20orf112	304.94522	0.549355676

AL080086		305.01218	-0.352377602
Contig64390	COMMD7	307.54163	0.229311494
NM_006892	DNMT3B	308.13851	-0.242576445
NM_012325	MAPRE1	308.71434	0.546599862
Contig55248_RC		309.09392	-0.031692384
NM_016408	CDK5RAP1	314.10305	0.060421838
NM_016082	CDK5RAP1	314.10305	0.136969624
NM_003098	SNTA1	314.59423	-0.049315831
NM_005093	CBFA2T2	316.13831	0.566007073
Contig51872_RC	C20orf144	317.13793	0.147245079
M96577	E2F1	317.27149	0.166592705
NM_007238	PXMP4	317.58175	0.667675736
Contig11009_RC	PXMP4	317.69096	-0.290080303
Contig29397_RC		318.38923	0.301193652
Contig65439	CHMP4B	319.03584	0.492071002
Contig45814_RC		320.43979	0.243534402
NM_016732	RALY	320.45392	0.313903524
NM_007367	RALY	320.45392	0.375958576
Contig25736_RC		320.77388	0.398081037
AF116649		321.00239	-0.397536272
NM_003908	EIF2S2	321.39777	-0.019185436
NM_001672	ASIP	323.11831	0.173193544
NM_000687	AHCY	323.31736	0.40305014
AF038564	ITCH	324.6524	0.436636057
Contig25546_RC	ITCH	325.60437	0.387811179
NM_014183	DYNLRB1	325.67864	0.600092087
Contig57721_RC	CDC91L1	326.12007	0.365030288
AL137597	TP53INP2	327.61963	0.257823631
NM_014071	NCOA6	327.66239	0.372624473
NM_018677	ACSS2	329.28035	0.215131876
Contig43632_RC		329.41891	0.308982327
NM_000178	GSS	329.79897	0.099352908
AB040945	MYH7B	330.26866	0.010765058
AK000947	MYH7B	330.2913	0.038944329
AL096738	TRPC4AP	330.53875	0.306911041
NM_018217	EDEM2	331.6683	0.547303175
NM_006404	PROCR	332.23434	-0.127376069
NM_006690	MMP24	332.78116	0.279224903
Contig2512_RC		333.27572	-0.049393958
NM_002212	ITGB4BP	333.30138	0.400370037
NM_018244	C20orf44	333.53796	-0.235908122
Contig53187_RC	C20orf44	333.95327	0.402024116
NM_000557	GDF5	334.84562	-0.540306505
NM_007186	CEP250	335.06563	-0.036526283
Contig33602_RC	CEP250	335.68343	0.07452701
NM_015966	ERGIC3	335.93191	0.551262346
AF262992	SPAG4	336.67222	0.329213771
NM_003915	CPNE1	336.77381	0.541531099
AB018308	RBM12	337.01477	-0.283073773
NM_021100	NFS1	337.20024	0.179798927

AK001470	NFS1	337.20024	0.1535631
Contig33147_RC	C20orf52	337.50889	0.408369578
NM_004902	RBM39	337.54944	0.338583543
NM_016436	PHF20	338.23364	0.440536214
Contig20889_RC	PHF20	338.25888	0.294189998
AL137330	PHF20	339.92327	0.416475811
Contig49046_RC	SCAND1	340.05902	0.142917838
Contig65227		340.96961	0.323212883
AB002336	EPB41L1	342.06085	0.545687376
NM_015511	C20orf4	342.8786	0.129582206
NM_015951	C20orf4	342.91155	0.11633785
NM_014902	DLGAP4	343.57716	0.419915537
NM_006097	MYL9	346.0331	0.176622287
AF055012	TGIF2	346.54004	0.163224146
NM_018840	C20orf24	346.6758	0.610266301
AF112213	C20orf24	346.67587	0.526207592
Contig46796_RC	C20orf172	348.14298	0.218782148
Contig56909_RC	C20orf117	348.39262	-0.129585531
Contig40385_RC	C20orf117	348.45598	0.168825539
NM_015377	C20orf117	348.5257	0.03407121
NM_015474	SAMHD1	349.54058	0.131491032
NM_002895	RBL1	350.59592	-0.358682083
Contig22779_RC	C20orf132	351.90637	-0.055528615
NM_002951	RPN2	352.40887	0.624790237
Contig875_RC	MANBAL	353.78309	0.474545184
NM_005417	SRC	354.06501	0.069527292
NM_006698	BLCAP	355.79233	0.632867728
NM_005386	NNAT	355.8302	0.154134942
Contig50059_RC	CTNNBL1	357.94798	0.184511281
Contig29223_RC		358.50371	0.105180026
Contig50316_RC	C20orf102	360.06702	0.197477652
AB007866	KIAA0406	360.44837	0.156152601
AL117521	C20orf77	361.51918	0.39082203
NM_004613	TGM2	361.90278	0.397732181
	RP5-		
Contig20361_RC	1054A22.3	362.7429	0.018765168
NM_001725	BPI	363.65998	0.273923733
AF105067	LBP	364.08316	0.144351855
Contig28527_RC	C20orf198	365.12408	0.30966521
AB033045	KIAA1219	365.34872	0.310352487
Contig26811		366.29664	0.232704651
Contig17046_RC		366.43293	-0.126411625
Contig20913_RC	ACTR5	368.33802	0.003530441
Contig43923_RC		368.41807	0.104269503
AB020630	PPP1R16B	368.67761	-0.108318051
Contig56414_RC	DHX35	371.01028	0.175494344
Contig16347_RC		371.35867	-0.144411221
NM_005461	MAFB	387.47932	0.22072759
J03250	TOP1	390.90919	-0.05926909
NM_014134		390.9906	-0.260589419

Contig32995		391.09498	0.150909784
Contig26384_RC		391.34978	0.181431503
NM_002660	PLCG1	391.99574	-0.313404488
AB007855	ZHX3	392.44168	0.073762256
AL137580	EMILIN3	394.22019	-0.017775642
AB037756	CHD6	394.64657	0.478907718
Contig10455_RC		396.24559	0.362630226
NM_007050	PTPRT	401.34806	0.159386964
AL110214	SFRS6	415.23409	-0.048529929
NM_015478	L3MBTL	415.76487	0.096108058
AB014581	L3MBTL	415.90759	0.182684385
NM_016276	SGK2	416.2815	0.280475684
Contig37135_RC	SGK2	416.4981	0.206751171
NM_016004	IFT52	416.52992	0.463692049
NM_002466	MYBL2	417.29122	0.325486994
Contig45719_RC	C20orf100	421.31218	-0.436040979
NM_020433	JPH2	421.7375	0.480169858
Contig24576_RC	JPH2	421.73754	0.512891061
NM_016470	C20orf111	422.58549	0.463312572
Contig46477_RC	GDAP1L1	423.26589	-0.041236937
Contig51235_RC	C20orf142	423.64894	0.293403598
NM_000457	HNF4A	424.63337	0.263765451
Contig36321_RC		424.94254	0.334958515
AA669593_RC	C20orf121	425.53167	0.446348726
NM_006811	SERINC3	425.61314	0.676325948
NM_007066	PKIG	425.93849	-0.148381201
NM_000022	ADA	426.81577	-0.541990442
Contig38425_RC		427.56947	-0.01434459
NM_003881	WISP2	427.77298	-0.131747209
Contig29780_RC		428.10278	0.294147022
NM_003404	YWHAB	429.47757	0.567552299
NM_014052	YWHAB	429.68601	0.386847619
Contig9370_RC	C20orf119	429.98719	-0.160771648
NM_006809	TOMM34	430.04184	0.048094521
NM_006282	STK4	430.28533	-0.13273546
Contig25510_RC	STK4	430.49429	0.066957168
Contig50799_RC	STK4	431.4112	0.041829465
NM_002251	KCNS1	431.54364	-0.303454105
NM_002638	PI3	432.36911	0.213096687
NM_003007	SEMG1	432.69087	0.080876663
NM_003008	SEMG2	432.83423	-0.278803447
NM_003064	SLPI	433.14292	0.096042904
NM_003066	SLPI	433.15056	0.131232219
NM_003833	MATN4	433.555	-0.451888206
NM_014276	RBPSUHL	433.68904	-0.228441013
AB026048	RBPSUHL	433.68976	-0.106867776
NM_002999	SDC4	433.87344	0.362898431
Contig28615_RC	C20orf10	434.34616	0.164865212
NM_014477	C20orf10	434.35934	0.203850304
NM_018478	C20orf169	434.68274	0.304881293

NM_015937	PIGT	434.78137	0.566649874
NM_006103	WFDC2	435.31807	0.465888259
Contig58156_RC	DNTTIP1	438.54026	0.466729723
NM_007019	UBE2C	438.74661	0.499221842
NM_003279	TNNC2	438.85262	0.428217997
Contig30152_RC	SNX21	439.0332	-0.303439252
NM_005469	ACOT8	439.03767	0.663041683
Contig45320_RC	ZSWIM3	439.4066	0.628318236
Contig32718_RC	C20orf165	439.48531	0.474300728
NM_000308	PPGB	439.53612	0.490465829
NM_006227	PLTP	439.60803	0.573388927
Contig39085_RC	C20orf67	439.96805	-0.288813622
AL137473	C20orf67	440.07054	0.755324012
Contig47464_RC	ZNF335	440.10699	0.208250338
Contig42870_RC	ZNF335	440.30042	0.119069723
Contig45944_RC	ZNF335	440.33352	-0.180055716
NM_004994	MMP9	440.70953	-0.061288433
Contig49118_RC		441.50933	-0.254796663
NM_001250	CD40	441.80312	-0.393980836
AF035300	CDH22	442.35782	-0.115493872
NM_015945	SLC35C2	444.11584	0.448182329
NM_018102	ZNF334	445.63115	0.173177387
AF154121	SLC13A3	446.2046	0.073962865
NM_005244	EYA2	449.56915	-0.300262063
AB032951	PRKCBP1	452.7248	0.664853491
NM_018634	PRKCBP1	453.52764	0.483112603
AF144233	PRKCBP1	454.10287	0.397552595
Contig38763_RC	PRKCBP1	454.17961	0.445939113
NM_006534	NCOA3	455.64063	0.469553531
AB033073	SULF2	457.19062	0.189190825
Contig33236_RC		460.4554	-0.063422141
Contig20816_RC		464.04717	0.115312666
AB037836		466.74199	-0.147818954
Contig21787_RC		468.57532	-0.450942858
NM_006420	ARFGEF2	469.71833	0.595169469
NM_001316	CSE1L	470.96244	0.165892548
NM_004602	STAU1	471.63284	0.424705641
NM_017453	STAU1	471.63284	0.395474938
NM_017454	STAU1	471.63284	0.409910021
NM_017895	DDX27	472.6929	0.59782901
AB037825	ZNFX1	472.95847	0.284292805
Contig29707		474.18964	-0.116934163
NM_004975	KCNB1	474.21911	0.59069338
D38145	PTGIS	475.57416	0.342542616
NM_004776	B4GALT5	476.82891	0.035097694
AB023156	SLC9A8	478.62824	0.306023584
NM_006038	SPATA2	479.53337	0.582964891
NM_018683	ZNF313	479.8632	0.403923263
Contig15229_RC	ZNF313	479.89261	0.42285376
NM_005985	SNAI1	480.32933	-0.207401167

NM_003349		481.31069	0.109636591
AF155120		481.7368	0.586946
Contig14197_RC		482.15973	-0.084187736
NM_005194	CEBPB	482.40782	-0.019352368
NM_002827	PTPN1	485.60297	0.1773104
Contig41614_RC	PTPN1	486.31755	0.441231934
Contig52629_RC	C20orf175	486.36055	0.286329063
Contig44870	PARD6B	488.01794	0.365751682
Contig37562_RC	PARD6B	488.03318	0.292408934
NM_017843	BCAS4	488.44873	-0.281614797
Contig28909_RC		489.32123	-0.295927781
AB018327	ADNP	489.40289	0.186697875
Contig19877_RC		489.61489	0.065694676
NM_003859	DPM1	489.84811	0.396457666
Contig16143_RC	DPM1	489.87011	0.139842289
Contig26144_RC		489.9464	0.596816705
NM_014484	MOCS3	490.08769	-0.037254759
NM_002237	KCNG1	490.536	-0.47481708
Contig47221_RC		494.36908	0.239672199
NM_012340	NFATC2	494.41172	-0.335627345
U43342	NFATC2	494.4134	-0.24078112
AB014511	ATP9A	496.46723	0.724102413
NM_020436	SALL4	498.33991	0.580210111
AK001666	SALL4	498.34016	#N/A
Contig45107_RC	ZFP64	501.34433	-0.039049818
NM_018197	ZFP64	502.01226	0.47663853
Contig22550_RC		504.14404	0.330793349
Contig42103_RC	TSHZ2	513.06171	-0.135312794
Contig10865_RC	TSHZ2	515.37489	-0.013039522
NM_018692	TSHZ2	515.38901	0.174211625
Contig47308_RC	TSHZ2	515.40513	0.487594737
Contig45742		515.44515	0.172109076
NM_006526	ZNF217	516.17018	0.511540601
Contig26627_RC		516.37843	0.160057305
NM_003657	BCAS1	519.93923	0.223043242
NM_000782	CYP24A1	522.03394	0.022848069
Contig13724_RC		522.25121	-0.104216025
NM_002623	PFDN4	522.57908	0.169781191
NM_018431	DOK5	525.25672	-0.071466907
Contig16588_RC	CBLN4	540.05903	0.152340965
Contig28438_RC		541.11669	0.090896704
NM_019888	MC3R	542.57195	-0.332057521
Contig15196_RC		543.04461	-0.11319404
Contig34755_RC	C20orf108	543.68742	0.108320515
AL133555	C20orf108	543.75409	0.076470898
NM_003600	AURKA	543.77851	0.428420971
NM_003158	AURKA	543.77872	0.262202476
NM_001324	CSTF1	544.0098	0.510817455
NM_020356	C20orf32	544.2077	0.016115354
NM_016407	C20orf43	544.77091	0.529772027

Contig25700_RC	RP5-1153D9.3	545.41921	-0.405913931
NM_003222	TFAP2C	546.37764	-0.080691169
NM_001719	BMP7	551.78961	0.221418535
NM_012444	SPO11	553.38237	0.095577322
NM_003610	RAE1	553.59551	0.367625492
Contig25142_RC	RAE1	553.87266	0.145782407
X75315	RBM38	554.00125	-0.074714736
NM_002591	PCK1	555.69542	0.176248269
NM_020182	TMEPAI	556.56857	0.409398651
Contig1805_RC	TMEPAI	556.56859	0.380135412
Contig51433_RC	C20orf85	561.59453	-0.247994216
Contig52380		562.37402	0.240801453
Contig52382_RC		562.38647	0.277155441
NM_018498	PPP4R1L	562.4638	0.291171072
Contig10268_RC	PPP4R1L	562.55519	0.351193519
NM_020673	RAB22A	563.18176	0.602526005
AL049985	RAB22A	563.74142	0.248148006
NM_004738	VAPB	563.9765	0.664393103
Contig18780_RC		564.31937	0.322177274
Contig41692_RC	VAPB	564.54575	0.046619937
Contig57172_RC		564.58671	0.205754161
NM_003763	STX16	566.59733	0.203014879
Contig58430_RC	STX16	566.86534	0.505634259
Contig43192_RC		567.12385	0.001425698
Contig51087_RC	NPEPL1	567.22521	0.355066219
Contig30569_RC		567.82887	0.093969678
AJ251759		568.27368	-0.036696067
NM_016592	GNAS	568.48189	0.363534777
Contig27587_RC		568.85043	0.071707275
NM_000516	GNAS	569.00129	0.265835286
Contig44039_RC	GNAS	569.02542	0.249874446
Contig30072_RC	GNAS	569.06815	-0.037774942
Contig53674_RC	GNAS	569.16493	0.187857169
NM_016397	TH1L	569.89725	0.304727888
NM_001336	CTSZ	570.03635	0.341935033
Contig56697	TUBB1	570.33153	-0.247121507
NM_006886	ATP5E	570.37128	0.561785379
NM_016045	C20orf45	570.416	0.307710831
Contig15081_RC	C20orf174	572.64116	-0.142079681
NM_000114	EDN3	573.08893	0.187777381
NM_014258	SYCP2	578.72013	0.307434778
NM_006242	PPP1R3D	579.45286	0.620320384
AL137442	C20orf177	579.52596	0.40109748
Contig40177_RC	CDH26	580.21214	0.45790509
Contig21187_RC		580.5445	0.487774569
Contig44954_RC		580.919	0.07076371
Contig35542_RC		580.97144	0.379005573
Contig32990_RC		590.8758	-0.368524517
NM_001794	CDH4	592.60953	-0.337289714

NM_003185	TAF4	599.83249	0.4381195
Contig28035_RC	LSM14B	601.37296	-0.16666973
NM_016182	LSM14B	601.4313	0.565131251
NM_014054	LSM14B	601.4313	0.595684316
NM_002792	PSMA7	601.45185	0.562922546
AB014593	SS18L1	601.52245	0.327713824
AK001603	GTPBP5	602.01866	0.483761185
NM_007232	HRH3	602.23421	0.225889556
NM_014835	OSBPL2	602.46974	0.547934924
NM_007002	ADRM1	603.11421	0.499806325
AB011105	LAMA5	603.17609	0.525458808
Contig50324_RC		603.94754	0.201456363
NM_001024	RPS21	603.95515	0.379982009
X79563	RPS21	603.95568	0.370958535
Contig54187_RC	CABLES2	603.9708	0.601801567
Contig32979_RC	GATA5	604.72554	-0.075246215
Contig61890_RC		607.35601	-0.043126049
NM_016354	SLCO4A1	607.44241	0.250624448
NM_002531	NTSR1	608.10633	-0.173863629
NM_018270	C20orf20	608.98282	0.280804617
Contig21434_RC		609.02437	0.412301917
Contig16724_RC		609.0317	0.060036089
NM_007346	OGFR	609.06621	0.139582973
NM_001853	COL9A3	609.18831	0.074338057
NM_006602	TCFL5	609.42912	0.342170915
AL133063	DIDO1	609.79541	0.286321559
AB002331	DIDO1	609.89013	0.344482826
Contig21352_RC	DIDO1	610.0422	0.246590231
AK002127	DIDO1	610.06799	0.262468461
NM_017896	C20orf11	610.39885	0.186295347
Contig45932_RC		610.40952	-0.272964424
Contig1924_RC	C20orf11	610.49374	0.612502246
AL117533	C20orf51	611.36014	0.064602189
NM_017798	YTHDF1	612.97228	0.721667425
NM_018209	ARFGAP1	613.74609	0.427301757
AB040943	COL20A1	614.07809	0.409982837
NM_000744	CHRNA4	614.45108	-0.321003167
NM_004518	KCNQ2	615.08249	-0.410627373
AL080160		615.79727	0.194037703
NM_001958	EEF1A2	615.89809	0.060950186
NM_005975	PTK6	616.30221	0.39338052
NM_012384	GMEB2	616.89398	0.074806529
NM_015894	STMN3	617.41504	-0.034629023
NM_016434	RTEL1	617.6009	-0.010296841
AB029011	RTEL1	617.61199	-0.276169386
NM_003823	TNFRSF6B	617.98464	-0.0359076
NM_003224	ARFRP1	618.01252	0.517594635
Contig50920_RC	ZGPAT	618.37137	0.439319721
Contig2608	SLC2A4RG	618.44353	0.396505732
NM_017962		619.17392	-0.219233097

NM_003288	TPD52L2	619.67033	0.339398146
NM_017859	UCKL1	620.41631	0.295665321
AB033022		620.58501	0.223977887
Contig51339_RC	SAMD10	620.75912	0.497514288
NM_012469	PRPF6	620.82874	0.543916628
AL157500	PRR17	621.37459	-0.327529314
NM_003195	TCEA2	621.64453	0.02508796
NM_005873	RGS19	621.7498	0.011572131
NM_000913	OPRL1	621.81931	0.008529722
Contig33852_RC	OPRL1	622.01984	-0.18803874
NM_005286	NPBWR2	622.07627	0.144886898
NM_018257	PCMTD2	623.57564	0.223192308

Supplemental Table 4. siRNA viability screen in the presence and absence of Kinesin-5i.

Each row represents the data for a pool of 3 siRNAs targeting the gene of interest.

Gene Symbol	Sequence Code	%Viability no Kinesin-5i	Std Dev no Kinesin-5i	%Viability siRNA + 30nM Kinesin-5i	Std Dev siRNA + 30nM Kinesin-5i
	M15077	99.75	0.57	96.93	0.59
PLK1	NM_005030	7.77	0.8	8.26	1.13
TM2D2	NM_078473	87.71	3.84	84.28	14.79
KCNC4	NM_004978	67.47	1.94	48.92	3.73
ADCY6	NM_015270	112.54	4.9	126.26	8.52
ADCY5	AF497517	107.22	16.34	89.47	15.71
FBXW10	NM_031456	50.02	28.17	49.71	15.42
CDC2L6	NM_015076	122.33	1.5	129.89	22.23
HDAC10	NM_032019	88.88	5.39	96.39	1.76
EIF2AK4	AB037759	104.92	13.58	132.5	12.13
CATSPER2	NM_172095	56.24	12.24	71.29	4.78
IHH	L38517	73.87	4.32	90.48	5.94
ATRX	NM_138271	85.94	0.21	94.8	2.35
SLC30A5	NM_022902	97.91	2.54	96.07	7.55
MAPKAPK5	NM_139078	81.77	12.76	100.04	28.99
WHSC1	NM_133330	110.22	2.12	121.16	12.49
PTP4A2	NM_003479	76.18	0.29	58.19	2.43
ZUBR1	NM_020765	73.24	2.75	69.8	9.67
BCL2L14	NM_138723	109.57	11.58	124.18	0.98
FBXO24	NM_033506	52.48	1	74.97	16.13
ILK	AJ277481	111.03	9.95	125.2	4.88
NR4A2	NM_006186	84.25	8.23	90.97	5.64
TTBK1	AB058758	107.9	5.07	118.81	7.39
SKP1A	NM_170679	85.56	5.91	113.49	6.97
FBXW7	NM_033632	101.01	9.54	103.05	3.36
ICK	NM_014920	97.71	7.23	104.95	8.14
DDX17	NM_006386	107.24	4.09	101.05	1.9
NR1I2	NM_022002	104.78	14.08	103.23	0.05
DNMBP	AB023227	101.01	4.64	108.01	4.6
TRADD	NM_003789	81.51	9.27	74.97	3.65
PPP1R8	NM_014110	97.09	7.74	97.07	17.8
CTSB	NM_147780	59.27	7.98	72.13	7.93
STK19	NM_032454	105.16	5.9	75.27	21.88
DDX48	NM_014740	14.2	1.69	9.54	0.04
RAD51	NM_002875	83.56	2.35	97.63	2.13
RAD51L3	NM_002878	85.38	4.63	111.91	10.49

ACOT11	NM_015547	87.71	1.36	63.73	2.23
RAD52	NM_002879	91.98	4.59	95.25	2.94
STARD7	NM_020151	99.67	9.26	93.17	11.28
BZRP	NM_000714	103.8	3.23	138.05	11.9
VDR	NM_000376	94.05	3.64	93	3.33
	XM_292638	73.67	4.87	48.09	12.52
RAD1	NM_133377	63.06	0.12	85.68	31.17
ZAK	NM_016653	101.96	4.4	114.03	11.23
DICER1	NM_177438	95.92	0.35	118.16	1.27
TRPV1	NM_080706	103.95	11.64	75.42	11.19
UBE2J1	NM_016021	84.85	3	102.64	4.19
DNMT3B	NM_006892	92.93	6.85	93.73	2.77
ST3GAL3	NM_174963	76.54	4.37	75.39	12.12
DDX41	NM_016222	48.82	2	39.26	2.87
FBXO3	NM_012175	101.62	3.94	98.42	20.21
CAMK1D	NM_020397	105.5	9.94	121.17	1.35
FBXO4	NM_012176	65.86	2.06	67.57	3.31
PLEKHG4	AK024475	100.43	3.28	108.82	6.43
UCP3	NM_003356	75.54	5.59	62.78	6.66
PTPDC1	NM_152422	90.09	4.37	70.09	7.27
RAD17	NM_133339	79.59	2.38	99.54	5.42
HSPA4	AB023420	107.08	7.66	77.64	6.97
KCND3	NM_004980	31.55	1.93	29.81	3.48
NEDD4	D42055	97.44	2.56	119.5	22.38
POLD3	D26018	111.54	10.41	114	14.59
APEX1	NM_001641	84.63	0.82	87.8	14.44
PTPN2	NM_002828	111.64	3.41	118.74	7.08
FLJ31033	AK055595	50.1	0.41	60.6	7.38
MYLK	NM_053025	67.48	2.14	74.67	3.36
DDX50	NM_024045	77.43	8.55	32.36	8.26
DDX39	NM_005804	85.51	6.46	67.08	5.7
TREX1	BC002903	68.25	8.57	97.26	12.85
RAD50	NM_005732	104.45	10.39	102.95	11.66
HACE1	NM_020771	107.42	5.06	125.35	4.5
PTPRO	NM_030667	117.91	2.81	100.04	5.61
PMS2L4	D38500	83.1	9.17	91.75	13.19
MRE11A	NM_005591	106.3	0.82	120.49	4.75
SKIP	NM_016532	84.92	12.53	100.85	14.18
ANKK1	NM_178510	87.92	2.59	107.51	7.32
MAP4K4	NM_145686	103.58	9.57	127.91	6.86
ST8SIA4	NM_005668	93.16	6.66	108.67	14.39
XRCC4	NM_022406	97.75	2.54	104.95	16.25
FBXO10	AF176705	61.43	1.29	41.22	16.12
NR2E3	NM_014249	69.68	1.46	95.53	17.13

DLX4	NM_138281	54.93	6.7	83.31	10.23
NR6A1	NM_033334	71.28	4.04	103.28	21.73
DDX47	NM_016355	97.34	0.94	123.19	12.32
FGD2	NM_173558	90.02	6.53	70.51	9.68
KIAA2002	AB082533	66.12	4.76	96.75	4.67
PMS2L11	D38437	112.76	1.5	112.64	4.43
PAK7	NM_020341	77.3	3.08	97.91	7.24
APEG1	AB037718	113.25	8.15	101.21	7.56
POLR2J2	NM_145325	103.92	9.94	111.76	5.27
TTBK2	NM_173500	86.31	15.3	55.46	4.52
TRPV6	NM_018646	93.2	10.05	130.14	13.97
HDAC4	NM_006037	70.78	1.59	44.4	8.86
STK31	NM_031414	110.7	3.82	117.93	10.86
FBXO41	AB075820	110.61	5.97	115.85	14.4
FBXO27	NM_178820	108.42	3.92	104.9	18.27
PTPRA	NM_002836	94.99	2.55	116.86	12.08
PLEKHG2	AK024429	90.61	3.74	68.21	3.93
FBXO15	NM_152676	66.45	2.52	73.35	5.46
KCNH1	NM_172362	83.66	0.96	95.33	1.68
DDX46	NM_014829	85.09	7.18	92.35	24.42
OCRL	NM_000276	72.17	1.83	89.01	21.12
AKAP13	NM_006738	80.42	6.35	87.51	19.76
ZAP70	NM_001079	67.08	3.59	93.19	13.39
DDX31	NM_022779	99.77	0.68	123.93	3.02
HSPA8	NM_006597	67.7	1.45	87.42	2.49
KCNT1	AB037843	73.96	3.28	93.74	6.33
KCNQ4	NM_004700	100.04	6.76	91.71	10.28
TRAF4	NM_004295	110.62	18.8	135.5	13.88
OBSCN	AB046776	107.49	11.25	92.06	3.99
PTPRC	NM_002838	95.97	3.13	136.73	16.45
SMG1	NM_015092	86.66	6.7	82.71	9.14
PTPRD	NM_002839	113.24	8.51	128.67	12.91
BIN1	NM_139343	98.71	2.19	133.64	13.87
PMS2L11	U38980	67.83	1.18	65.06	4.08
NSD1	NM_022455	109.2	2.73	116.5	5.81
PAXIP1	NM_007349	113.07	5.74	115.41	15.42
DDX23	NM_004818	103.73	2.82	111.32	13.73
DDX49	NM_019070	85.9	0.2	75.61	4.14
MAP3K6	NM_004672	117.36	5.18	112.07	0.28
HECW2	AB037722	127.89	6.34	145.16	3.06
ITSN2	NM_006277	96.14	8.46	124.77	9.66
MAST3	AB011133	38.47	9.48	23.26	10.21
SNF1LK2	AB018324	76.66	4.81	102.73	10.56
BRD4	NM_058243	62.09	4.17	77.12	2.4

RIOK3	NM_003831	88.31	5.42	96.02	9.7
PPARD	NM_006238	91.48	6.93	131.85	31.02
PTP4A3	NM_032611	97.46	2.92	85.22	7.45
FBXO22	AK026282	105.24	7.43	118.08	13.42
HDAC9	NM_058176	104.17	2.21	123.57	12.42
CAMKK1	NM_172207	93.04	8.2	100.9	10.21
SLC25A37	NM_016612	99.2	4.65	136.41	8.11
IER3	NM_052815	94.67	1.49	125.69	10.74
HCN3	AB040968	65.39	7.95	77.64	10.71
YY1AP1	NM_139118	97.7	11.41	108.43	20.15
RORA	NM_134260	99.62	0.7	132.75	16.6
PTPRF	NM_002840	105.7	11.21	104.11	17.27
UBE3A	NM_000462	71.32	0.76	102.37	7.57
FBXO11	NM_025133	99.13	7.82	106.15	6.18
SCYL3	NM_020423	45.55	33.93	49.52	7.08
RASGRF2	AF023130	81.08	11.32	96.3	6.05
MAP3K7	NM_145331	73.39	1.13	97.71	0.03
RIOK1	NM_031480	70.58	7.15	70.69	2.9
PTPN7	NM_080588	96.13	1.01	138	14.48
FBXO22	NM_147188	65.8	6.31	89.05	1.95
KCNH7	NM_033272	106.15	5.11	123.25	12.08
RASGRF1	NM_002891	62.89	4.42	60.88	1.13
ARID4A	NM_002892	46.85	31.51	94.56	11.89
XRCC6BP1	NM_033276	96.22	0.66	93.09	2.81
MSH5	NM_025259	95.51	0.82	108.27	3.07
PDE5A	NM_001083	84.86	2.95	82.16	6.6
NR4A3	NM_173200	96.19	0.72	105.95	3.74
PTPRN2	NM_002847	97.17	6.49	136.94	22.45
PTPRR	NM_002849	105.51	5.4	109.68	4.61
KCNH2	NM_000238	103.53	16.19	94.09	16.99
ADCK4	BC013114	87.25	1.4	87.53	5.33
TERF1	NM_003218	114.76	13.91	129.24	16.52
WHSC1L1	NM_023034	102	12.06	115.92	1.05
PDE7A	NM_002603	100.68	3.19	103.03	5.79
UBE1	NM_003334	104.46	0.36	147.91	19.56
C14orf130	NM_175748	93.39	2.14	114.97	6.94
ST6GALNAC4	NM_014403	85.25	2.96	116.94	1.49
YME1L1	NM_139312	104.07	14.21	112.38	10.2
CXXC6	AF430147	105.92	4.06	121.3	2.91
TRPV4	NM_021625	113.06	2.26	141	23.56
BAT1	NM_004640	95.06	3.94	96.68	5.12
CACNA1A	NM_023035	94.19	10.28	109.26	7.17
INSRR	NM_014215	77.97	2.99	85.99	2.46
PLEKHG5	NM_020631	97.8	5.86	90.68	24.21

CSF3R	NM_156039	108.14	8.35	114.73	9.52
ADAR	NM_001111	87.19	12.09	79.64	4.55
BACE1	NM_012104	59.4	3.46	76.45	3.68
PTPRS	NM_002850	69.35	7.27	72.03	0.74
PSEN1	NM_000021	67.87	2.76	77.96	12.26
PTPRZ1	NM_002851	95.49	7.1	91.59	3.52
DYRK1B	NM_004714	56.3	1.3	48.69	7.61
BIRC7	NM_139317	49.82	0.6	60.98	10.01
CTDP1	NM_004715	52.38	7.54	68.62	13.44
KCNH5	NM_139318	100.6	10.71	126.57	6.87
PRPF4B	NM_003913	89.46	3.5	69.21	6.09
MINK1	NM_153827	79.45	9.09	84.21	3.86
ARHGEF7	NM_145735	90.39	0.65	55.85	0.95
DDX4	NM_024415	88.84	0.14	117.48	17.72
CAMK1D	NM_153498	88.89	6.67	95.62	1.24
PTPRT	NM_133170	100.18	4.45	104.81	27.22
ZA20D1	NM_020205	70.93	2.2	99.45	4.88
MAST1	AB023190	104.79	7.94	128.37	10.98
MARK2	NM_017490	103.32	3.13	103.58	2.98
GLI2	NM_030379	75.78	3.47	85.33	3.09
KIAA0446	AB007915	53.84	0.92	49.7	3.49
TREX1	NM_130384	93.98	6.8	69.15	7.84
FBXW11	NM_012300	81.96	1.23	91.32	16.88
STK32C	NM_173575	82	0.02	64.51	5.23
WWOX	NM_016373	104.22	10.23	101.17	0.83
RAD51L1	NM_133509	84.3	2.92	78.68	13.8
PTPN22	NM_015967	58.75	9.63	80.73	16.77
RAD51C	NM_058216	93.51	1.53	86.11	2.52
KCNC2	NM_139137	73.54	0.39	67.75	0.94
DDX51	NM_175066	70.99	0.43	67.97	2.28
TRAF3IP2	AF136408	94.56	0.87	114.21	3.43
FASTK	NM_006712	76.94	1.36	69.69	3.74
DDX42	NM_007372	68.48	1.08	67.55	7.49
FBXL5	NM_012161	100.19	13.48	112.56	4.96
FBXL6	NM_012162	93.58	5.57	105.45	2.71
MAP2K5	NM_145161	92.21	2.44	83.12	2.24
LIG3	NM_013975	81.37	0.6	90	5.25
ST6GAL1	NM_173216	100.7	9.21	138.47	11.52
HDAC8	NM_018486	93.9	3.96	121.25	20.14
KCNG4	NM_172347	94.34	4.36	103.47	13.88
KCNG3	NM_133329	114.8	1.1	123.72	12.83
KCNH3	AB033108	96.29	10.36	117.84	15.5
WNK2	NM_006648	85.05	5.39	112.78	14.83
KCNH6	NM_030779	83.89	7.99	86.64	8.13

UBR1	NM_174916	87.89	12.78	115.25	10.14
C9orf96	BC036504	68.89	11.71	97.67	10.08
SLC25A28	NM_031212	89.47	5.54	110.91	9.39
DDX52	NM_007010	97.07	3.67	104.08	1.34
CHEK1	NM_001274	104.16	2.76	75.57	2.61
RRM1	NM_001033	66.19	3.48	31.32	2.55
BRCA1	NM_007296	88.11	2.55	86.59	1.9
SENP7	NM_020654	106.07	0.03	123.71	14.24
SLFN5	NM_144975	94.27	9.19	84.76	8.75
HSPA1A	NM_005345	91	4.41	111.98	5.76
BRSK2	NM_003957	48.65	0.72	73.65	11.89
BIRC2	NM_001166	92.62	11.76	84.32	9.31
TRPA1	NM_007332	93.98	3.43	76.39	0.68
BIRC4	NM_001167	92.42	7.74	87.91	6.68
TOPORS	NM_005802	19.07	6.68	38.74	2.97
HSPA1B	NM_005346	96.49	1.98	136.31	2.17
RNF8	NM_003958	87.45	4.91	67.21	11.82
ERCC2	NM_000400	51.1	3.94	28.34	1.96
NR0B1	NM_000475	95.35	5.5	108.95	11.07
TPCN2	NM_139075	60.92	7.19	57.72	6.01
CIDEA	NM_001279	71.36	5.37	61.05	4.18
HSPA5	NM_005347	81.29	3.2	92.99	2.95
PNPT1	NM_033109	68.42	1.26	72.98	4.43
SOCS1	NM_003745	80.72	3.96	90.23	2.12
IRAK4	NM_016123	72.81	5.91	106.3	2.2
DLX1	NM_178120	104.83	2.46	117.58	4.1
SMPD3	NM_018667	75.86	4.96	78.15	8.04
RAD23B	NM_002874	84.14	5.42	109.5	10.22
DDX54	NM_024072	34.53	2.69	36.8	2.45
SMO	NM_005631	93.34	9.59	97.7	3.25
PHKG2	NM_000294	82.48	6.94	77.55	7.36
POLR1A	NM_015425	36.27	1.28	28.26	0.06
FLJ20433	NM_017820	81.59	6.88	93.16	11.3
RPS6KL1	NM_031464	117.2	1.06	135.56	1.67
SLC25A23	NM_024103	82.81	6.83	79.77	10.53
DDX27	NM_017895	89.69	28.53	93.55	1.35
NR1H2	NM_007121	62.6	2.91	109.37	7.09
SENP1	NM_014554	108.42	2.36	101.53	2.3
PDE11A	NM_016953	99.47	1.98	96.93	15.69
APEX2	NM_014481	94.61	3.83	71.76	1.98
CGI-69	NM_016016	71.66	10.28	66.6	8.46
TRPM5	NM_014555	63.38	14.72	36.65	1.78
EIF2AK1	NM_014413	91.31	12.04	73.52	0.03
STAMPB	NM_006463	53.02	0.8	53.57	2.15

MTCH1	NM_014341	76.33	0.18	87.12	4.91
HIPK3	NM_005734	76.76	9.7	68.74	10.72
GNRHR	NM_000406	82.12	6.49	90.95	1.22
KIAA1706	NM_030636	110.34	2.41	87.84	0.56
SCN4A	NM_000334	77.2	0.69	91.08	1.61
ARHGEF9	NM_015185	63.83	7.56	59.63	12.83
SCN5A	NM_000335	99.45	0.22	105.86	7.22
PARP4	NM_006437	63.34	1.96	67.43	4.07
PTCH	NM_000264	84.47	7.13	102.73	11.6
FTS	NM_022476	98.38	3.72	90.81	12.49
SHH	NM_000193	89.35	9.04	83.46	1.29
LATS1	NM_004690	81.37	2.73	106.91	10.11
DDX28	NM_018380	84.48	3.55	103.65	15.74
PKD2L2	NM_014386	76.28	4.61	40.75	5.43
DISP1	NM_032890	58.87	9.13	80.98	7.3
ITPR1	NM_002222	90.2	2.07	78.53	2
UBE2Q1	NM_017582	72.89	3.1	87.85	2.3
ITSN1	NM_003024	96.71	0.59	70.16	13.16
MTCH2	NM_014342	112.51	6.82	79.71	2.55
VCP	NM_007126	28.57	2.26	23.26	0.42
ARHGEF10	NM_014629	92.71	6.39	114.38	5.8
BCL10	NM_003921	76.83	1.91	89.7	4.4
MOCS3	NM_014484	98.47	9.51	108.09	5.23
PASK	NM_015148	90.06	2.76	89.94	0.79
POLR3F	NM_006466	79.46	4.03	79.95	7.95
MCF2L	NM_024979	108.29	8.76	103.28	7.2
MUSK	NM_005592	61.7	0.49	65.97	4.83
HERC1	NM_003922	107.09	0.55	112.52	2.6
ATG7	NM_006395	108.11	0.33	131.25	10.32
HSPA1L	NM_005527	109.53	3.87	114.6	15.17
CACNA1D	NM_000720	96.8	5.99	112.19	20.28
MCF2L2	NM_015078	97.79	6.64	110.69	1.83
KCNS1	NM_002251	78.15	2.03	64.88	1.44
TSSK1	NM_032028	68.74	6.03	62.64	0.87
ITPR3	NM_002224	84.13	9.11	99.14	2.27
PIN1	NM_006221	76.75	6.33	73.49	0.57
HSPA6	NM_002155	107.03	13.01	98.67	26.63
DDX58	NM_014314	58.47	1.95	68.1	13.06
SYNJ1	NM_003895	72.16	1.83	62	11.86
TRPC6	NM_004621	64.17	17.29	66.01	3.6
UBA2	NM_005499	84.56	17.36	96.8	0.23
UBE2D4	NM_015983	42.34	2.06	66.26	6.38
UBE1C	NM_003968	88.31	4.93	95.64	7.09
RNF7	NM_014245	72.4	2.6	84.78	4.63

UBE2M	NM_003969	71.83	8.91	86.2	12.08
ST6GALNAC6	NM_013443	96.23	5.69	117.19	2.69
ST3GAL5	NM_003896	74.87	5.99	85.1	1.19
NR5A2	NM_003822	71.2	0.05	69.32	6.51
AMPD3	NM_000480	102.37	7.6	72.03	5.49
TRIM24	NM_003852	93.95	0.1	107.3	7.83
GUCY2F	NM_001522	87.72	8.07	87.51	17.87
DDX21	NM_004728	53.06	2.08	65.99	1.26
PRSS15	NM_004793	116.78	13.02	143.75	0.18
IRAK3	NM_007199	112.05	6.15	130.77	10.87
HSPA4L	NM_014278	95.08	3.28	106.17	2.09
KCNS3	NM_002252	107.68	1.93	112.55	1.84
RAD9A	NM_004584	106.74	9.29	82.44	3.72
DDX1	NM_004939	116.61	2.47	119.94	0.54
PDE6A	NM_000440	67.77	13.27	71.15	9.38
CACNA1E	NM_000721	128.73	7.24	144.49	1.86
CSNK1G2	NM_001319	86.23	10.87	73.47	12.54
VPS4B	NM_004869	46.89	0.34	69.41	4.48
TPCN1	NM_017901	67.71	0.81	50.55	4.78
MCFP	NM_018843	99.2	8.08	78.64	5.69
TP53BP2	NM_005426	87.01	0.82	86.19	5.79
SYNJ2	NM_003898	109.69	7.55	74.24	2.99
PNLIPRP1	NM_006229	67.17	6.29	46.8	0.46
GEFT	NM_133483	65.91	3.41	70.32	6.57
UBE2T	NM_014176	63.2	0.07	59.53	2.73
CLCN7	NM_001287	65	0.85	90.92	1.52
XPC	NM_004628	69.77	0.28	71.99	0.85
MGC16169	NM_033115	103.45	7.28	118.11	12.41
UBE2J2	NM_058167	90.39	2.83	73.62	6.75
PRKAG2	NM_016203	100.32	5.91	102.29	3.6
FANCG	NM_004629	57.48	1.13	20.9	0.3
DPP7	NM_013379	57.31	1.83	84.64	3.08
BMSC-MCP	NM_032315	101.45	12.18	103.54	7.83
CA6	NM_001215	65.23	2.69	73.77	2.75
FBXO34	NM_017943	109.62	1.03	118.55	4.24
HUWE1	NM_031407	49.07	6.7	66.88	4.73
FBXL15	NM_024326	95.04	5.04	108.59	9.15
DDX20	NM_007204	114.29	6.7	136.99	22.48
MUS81	NM_025128	103.24	9.89	103.74	16.45
PIB5PA	NM_014422	94.65	1.57	110.15	4.97
SKIV2L2	NM_015360	111.6	7.24	98.21	10.78
LGP2	NM_024119	98.11	9.13	127.05	5.12
FANCE	NM_021922	105.01	1.09	98.23	11.92
TRIB2	NM_021643	100.5	0.65	57.26	50.93

FANCF	NM_022725	105.17	8.26	82.88	9.03
PPP3CC	NM_005605	98.9	7.6	82.82	5.09
SUFU	NM_016169	98.92	10.6	81.2	1.6
FBXO36	NM_174899	81.59	11.04	94.41	6.73
BCL2L13	NM_015367	66.4	9.47	47.11	5.09
POLR2D	NM_004805	42.84	5.24	20.71	10.26
DNASE1L3	NM_004944	121.14	1.14	138.55	0.57
RXRA	NM_002957	68.88	0.28	35.74	2.38
PIK3R4	NM_014602	56.42	36.39	112.95	5.37
NP	NM_000270	54.27	4.72	71.06	3.07
TRPM8	NM_024080	95.97	4.83	116.9	5.2
STAR	NM_000349	56.82	2.38	45.44	0.29
DDX19B	NM_007242	97.77	7.79	122.58	3.05
TRPM6	NM_017662	70.44	12.88	100.92	5.69
FLJ20551	NM_017875	95.17	4.73	103.58	8.24
MAP3K12	NM_006301	59.96	10.43	71.82	2.75
SARS	NM_006513	36.56	18.31	62.89	4.66
DDX59	NM_031306	73.03	10.01	101.28	1.24
SCN10A	NM_006514	114.08	6.09	149.9	24.14
SAE1	NM_005500	66.89	0.64	92.85	7.27
TESK2	NM_007170	98.89	2.75	124.5	8.15
TSSK6	NM_032037	113.12	1.9	145.77	3.84
HERC3	NM_014606	61.91	10.35	40.12	2.8
DDX3Y	NM_004660	76.74	3.02	86.74	1.14
BAG4	NM_004874	84.42	5.44	79.16	4.64
MCRS1	NM_006337	91.02	5.62	98.65	10.84
POLR1C	NM_004875	58.65	9.34	89.67	2.38
RAD21	NM_006265	34.59	4.84	43.03	3.6
ACAA1	NM_001607	35.9	2.59	26.91	2.02
PDK3	NM_005391	60.63	5.7	92.19	8.46
EI24	NM_004879	64.81	2.44	59.94	1.11
INPP5A	NM_005539	108.15	6.15	109.73	10.99
XRCC6	NM_001469	112.61	2.77	99.3	2.96
PMS2L1	NM_005394	52.69	6.05	47.55	1.33
POLR3K	NM_016310	69.22	0.95	71.71	4.63
PMS2L3	NM_005395	55.5	1	64.02	4.5
REV1L	NM_016316	71.04	9.48	81.61	7.06
MTA2	NM_004739	91.15	7.26	82.68	1.3
FANCD2	NM_033084	63.9	6.48	70.92	4.69
POLD2	NM_006230	82.02	2.98	87.01	1.64
ARHGEF6	NM_004840	112.53	2.79	128.55	5.5
HECW1	NM_015052	75.9	3.38	82.85	14.71
STARD5	NM_030574	81.11	6.77	77	15.27
BMP2K	NM_017593	54.29	4.73	62	3.31

KCNB2	NM_004770	99.21	20.03	100.72	27.93
POLR2H	NM_006232	57.31	0.73	57.23	1.61
DCLRE1C	NM_022487	147.18	3.79	163.93	15.26
XRCC2	NM_005431	47.33	3.92	54.5	7.82
ST8SIA1	NM_003034	103.93	7.65	115.14	14.89
POLR2I	NM_006233	43.91	0.95	44.85	8
KCNA3	NM_002232	106.72	6.73	115.09	0.09
TCF19	NM_007109	88.78	0.34	94.77	3.78
KCNA4	NM_002233	124.17	0.18	107.16	5.76
POLR2J	NM_006234	83.94	6.41	91.22	0.47
KCNA5	NM_002234	108.71	1.39	88.74	8.83
ALPK3	NM_020778	72.55	0.48	100.21	11.37
MDC1	NM_014641	61.73	4.68	26.49	14.29
HERC2	NM_004667	93.65	7.23	105.9	1
PNLIPRP2	NM_005396	97.63	5.84	109.98	0.12
SLC25A18	NM_031481	108.03	6.3	126.91	1.82
XPA	NM_000380	88.44	2.74	84.07	4.12
ITCH	NM_031483	115.98	13.09	108.08	9.65
NEK8	NM_178170	88.27	1.6	81.37	12.37
SCYL2	NM_017988	109.76	4.24	116.03	9.07
HNF4A	NM_000457	82.83	2.04	99.32	8.17
HSPCB	NM_007355	83.93	2.02	76.36	4.29
FBXL13	NM_145032	94.73	7.04	97.22	5.86
TEK	NM_000459	106.16	9	115.47	7.23
SMURF2	NM_022739	94.69	1.76	47.48	9.04
XRCC3	NM_005432	99.12	0.51	112.36	12.11
KCNA6	NM_002235	92.11	1.64	109.13	1.79
KCNF1	NM_002236	63	2.2	62.77	3.07
PTPN21	NM_007039	84.07	1.46	114.5	1.36
ESR2	NM_001437	77.51	12.08	37.09	7.6
ROR2	NM_004560	74.49	0.92	96.29	5.24
ESRRG	NM_001438	94.96	2.32	88.36	3.64
ARHGEF5	NM_005435	61.33	4.85	71.54	4.81
HEL308	NM_133636	126.12	2.34	119.74	6
APPBP1	NM_003905	71.65	0.57	81.49	9.15
CNGB1	NM_001297	100.25	2.28	99.74	3.93
UBE2Z	NM_023079	83.13	13.68	102.39	29.52
CNGA3	NM_001298	80.48	4.94	78.14	12.03
RDM1	NM_145654	96.78	0.94	106.83	8.7
SLC30A7	NM_133496	124.37	11.12	136.44	2.28
HERC6	NM_017912	78.42	2.95	71.93	8.79
PTK9L	NM_007284	78.44	9.6	79.44	7.87
PXK	NM_017771	96.05	6.03	101.97	4.11
SPHK2	NM_020126	43.37	3	59.84	2.98

FBXO30	NM_032145	96.92	10.29	79.17	24.06
TRPC4	NM_016179	113.85	21.7	90.32	6.99
ANGEL1	NM_015305	101.63	7.52	107.49	12.97
HSPB2	NM_001541	56.35	0.12	52.42	3.31
MARK4	NM_031417	29.57	1.05	18.95	0.01
FRAP1	NM_004958	84.57	9.98	81.72	6.33
RBBP4	NM_005610	86.44	3.92	88.63	4.76
MKI67	NM_002417	72.44	6.82	66	5.97
PMPCA	NM_015160	70.2	7.16	92.01	1.04
NR5A1	NM_004959	94.98	1.94	100.46	1.84
POLG2	NM_007215	94.55	10.11	88.19	21.53
PARP1	NM_001618	58.85	3.39	40.98	3.16
DLC1	NM_006094	71.72	14.41	84.06	0.65
KCNV2	NM_133497	110.99	2.34	99.91	3.8
STK16	NM_003691	105.95	7.43	129.87	8.64
ARHGEF3	NM_019555	122.89	7.1	107.14	0.29
MCF2	NM_005369	50.9	2.68	72.69	2.8
PSKH2	NM_033126	114.53	5.49	87.08	37.41
SLC25A5	NM_001152	87.71	1.16	110.08	16.17
UBXD8	NM_014613	62.98	7.55	89.84	8.73
PEA15	NM_003768	70.33	11.8	110.89	18.5
WNT6	NM_006522	106.27	3.22	129.17	9.97
TCOF1	NM_000356	72.86	3.35	86.7	3.33
POLK	NM_016218	96.27	0.8	85.12	6.62
PDE6B	NM_000283	45.5	3.65	67.56	4.12
STK32A	NM_145001	100.27	7.1	92.41	10.44
UBE2R2	NM_017811	68.82	5.4	89.94	0.76
UCP1	NM_021833	76.11	7.41	47.15	1.11
UTP11L	NM_016037	61.23	2.79	40.98	1.95
CXXC4	NM_025212	72.9	6.01	91.17	2.91
NR1D1	NM_021724	81.81	2	86.76	5.53
BRSK1	NM_032430	66.32	2.86	70.48	11.1
FBXO16	NM_172366	98.6	5.34	109.61	2.18
HERC5	NM_016323	92.2	7.94	87.3	6.44
SLC30A9	NM_006345	105.84	6.02	102.05	3.91
ALPK1	NM_025144	52.98	7.14	49.02	1.53
S100B	NM_006272	100.79	6.58	99.64	2.05
SLK	NM_014720	61.83	0.44	20.54	0.72
EDG1	NM_001400	110.7	15.19	127.54	5.18
BIRC6	NM_016252	68.3	15.45	38.61	36.02
RPS6KA4	NM_003942	115.4	8.15	116.36	7.45
HIPK2	NM_022740	98.02	6.2	99.55	3.62
PTPN18	NM_014369	60.64	6.39	89.96	8.56
STK33	NM_030906	99.42	1.22	92.97	0.53

PEX6	NM_000287	109.22	5.82	92.02	4.59
PLB1	NM_153021	99.42	12.69	81.29	0.57
TSSK4	NM_174944	88.73	8.86	114.11	5.35
PARP9	NM_031458	57.02	3.32	51.15	6.86
SPATA13	NM_153023	63.8	8.74	43.97	38.91
KATNAL1	NM_032116	92.27	4.19	106.88	39.1
TERF2	NM_005652	133.37	8.88	138.75	1.6
TRPM7	NM_017672	95.09	5.5	122.47	1.76
NR2F1	NM_005654	69.71	0.37	69.07	2.18
FBXL18	NM_024963	89.66	7.75	116.32	2.22
ST6GALNAC2	NM_006456	86.57	0.9	84.85	2.02
PREX1	NM_020820	78.45	0.44	104.07	1.64
NEDD4L	NM_015277	98.8	7.01	63.55	7.89
FGD4	NM_139241	102.02	0.2	109.59	0.32
ZFP36L1	NM_004926	104.79	1	100.48	2.95
KCNA10	NM_005549	118.34	6.83	142.3	0.84
NR2F2	NM_021005	112.81	5.65	128.24	9.67
ST3GAL4	NM_006278	94.59	6.34	104.94	5.06
STARD8	NM_014725	83.91	2.41	109.52	1.38
NOL3	NM_003946	86.39	0.59	105.94	2.74
CNOT6	NM_015455	10.13	0.8	6.41	0.78
HCN4	NM_005477	78.67	0.6	87.95	7.46
SCN2A2	NM_021007	52.26	1.63	48.41	2.58
KALRN	NM_003947	110.25	3.74	105.69	1.35
MLL4	NM_014727	69.59	0.06	69.9	9.44
SOCS2	NM_003877	110.33	5.73	89.34	7.65
MAK	NM_005906	93.33	12.47	86.94	1.1
THRB	NM_000461	95.63	8.47	107.95	4.73
TRIM28	NM_005762	56.04	10.29	74.18	20.31
CFLAR	NM_003879	56.5	6.93	58.22	4.13
TRPM1	NM_002420	101.2	8.03	86.99	49.97
KATNA1	NM_007044	109.66	6.88	136.56	3.38
TRAF1	NM_005658	79.69	0.4	102.85	7.47
TRIO	NM_007118	116.68	7.8	107.01	1.72
SPG7	NM_003119	74.73	5.56	100.07	5.39
SENP2	NM_021627	87.98	8.39	70.84	2.51
HYOU1	NM_006389	70.27	5.2	87.67	0.23
STARD6	NM_139171	101.55	6.95	102.43	3.35
TNK1	NM_003985	86.87	7.1	85.73	0.51
SCN8A	NM_014191	94.44	0.08	86.47	1.84
KCNK3	NM_002246	103.12	4.3	138.26	13.97
SCYL1	NM_020680	90.11	13.07	106.28	0.87
NRBP	NM_013392	97.59	1.17	83.36	6.28
KCNMA1	NM_002247	104.28	3.6	120.98	9.4

ADCY4	NM_139247	117.25	3.57	124.88	0.1
CACNA1B	NM_000718	69.55	2.85	28.82	2.02
HCN2	NM_001194	95.38	2.83	107.68	11.29
SLC25A29	NM_152333	84.73	2.75	80.05	7.14
BARD1	NM_000465	88.36	1.68	104.48	3.28
CCRN4L	NM_012118	78.33	6.78	57.97	10.66
PEX1	NM_000466	102.11	10.94	104.92	2.93
NR1H3	NM_005693	95.71	2.72	57.67	7.33
PKD2L1	NM_016112	121.68	6.98	110.7	3.62
FARP1	NM_005766	121.72	9.77	102.11	8.18
TRPV2	NM_016113	86.15	2.01	107.22	1.63
SMPD2	NM_003080	39	5.6	39.36	4.56
ARHGEF12	NM_015313	98.9	6.72	106.85	9.96
CDKL5	NM_003159	77.83	6.75	101.72	10.42
SPATA5L1	NM_024063	111.91	1.91	133.38	6.03
SLC30A2	NM_032513	22.83	3.3	14.07	0.43
ARHGEF18	NM_015318	97.62	1.21	129.96	11.67
BOK	NM_032515	81.35	7.77	94.89	2.57
LIPH	NM_139248	100.41	3.93	100.88	12.74
DNASE1L2	NM_001374	56.18	8.48	69.34	2.93
ACYP2	NM_138448	96.39	6.51	92.35	6.53
CACNA1C	NM_000719	76.99	9.62	71.55	1.29
NSF	NM_006178	66.48	2.8	73.24	2.93
DNMT1	NM_001379	87.96	14.3	71.15	12.75
DYRK4	NM_003845	50.96	10.36	51.14	2.01
ATCAY	NM_033064	78.33	19.58	73.98	5.91
LOC221955	NM_139179	103.35	8.74	122.57	2.32
TAOK2	NM_016151	91.77	4.87	116.51	5.33
SCN7A	NM_002976	88.31	10.68	97.53	5.82
SNF1LK	NM_173354	61.77	2.84	64.93	9.93
BIRC3	NM_001165	106.44	8.4	121.45	7.52
SLC30A6	NM_017964	113.47	6.49	100.91	7.53
SCN9A	NM_002977	81.33	2.28	99.65	2.74
PINK1	NM_032409	97.07	3.14	91.38	4.09
STK23	NM_014370	89.71	5.8	101.29	9.65
PDE7B	NM_018945	78.29	6.73	73.39	0.8
STK3	NM_006281	109.62	2.69	109.33	1.62
RFC5	NM_007370	76.59	4.29	64.34	14.34
FBXO28	NM_015176	106.94	0.33	111.55	6.34
BRD3	NM_007371	111.52	6.35	98	0.33
ARHGEF16	NM_014448	89.48	6.95	83.71	12.06
FARP2	NM_014808	84.16	4.7	78.98	6.95
SLC25A17	NM_006358	88.36	4.68	62.32	6.35
HSPH1	NM_006644	80.73	0.85	106.57	6.07

KCNV1	NM_014379	78.85	1.96	83.72	8.28
GEMIN5	NM_015465	95.59	7.8	109.82	17.69
RYR1	NM_000540	112.2	3.48	141.02	0.46
UBE2Q2	NM_173469	74.3	0.72	43.16	9.58
EIF4A1	NM_001416	66.31	1.68	78.99	3.19
PTPN23	NM_015466	85.78	4.01	92.69	11.27
PLK1	NM_005030	11.09	0.76	10.56	1.02
AURKA	NM_003600	45.68	2.61	6.67	0.7
MSH3	NM_002439	108.93	0.37	81.94	5.09
UBE2D1	NM_003338	104.08	1.45	117.97	2.58
AOAH	NM_001637	100.97	12.72	107.2	4.38
UBE2D2	NM_003339	96.77	3.99	71.95	0.87
INPPL1	NM_001567	104.61	9.19	93.36	5.47
MYBL2	NM_002466	85.89	2.63	49.03	2.15
SVEP1	NM_024500	93.28	5.62	98.16	1.07
NR2E1	NM_003269	104.16	5.49	120.14	1.26
SLC25A26	NM_173471	96.64	7.01	113.36	8.86
PNLIP	NM_000936	110.07	0.82	135.24	1.61
FBXO44	NM_033182	96.05	8.84	117.04	1.28
NGEF	NM_019850	95.47	6.01	115.98	17.34
KIAA0999	NM_025164	111.64	17.73	140.6	8.79
ALPK2	NM_052947	100.47	6.55	130.31	3.28
SGEF	NM_015595	100.67	4.48	81.57	5.65
POLRMT	NM_005035	92.53	2.28	91.9	10.93
FBXO8	NM_012180	123.36	10.96	132.02	6.68
PPARA	NM_005036	107.18	5.19	122.18	2.21
FKBP8	NM_012181	85.73	0.32	68.5	1.61
XRN2	NM_012255	111.41	2.69	134	9.88
CLCN4	NM_001830	96.09	0.53	104.09	5.98
KIAA0470	NM_014812	113.13	9.86	91.63	0.45
HECTD3	NM_024602	90.35	1.04	117.08	2.27
ST6GAL2	NM_032528	108.23	5.01	128.99	17.13
SLFN12	NM_018042	102.5	9.27	109.6	11.28
SLC25A32	NM_030780	112.24	8.24	131.41	6.89
VRK3	NM_016440	107.88	6.29	124.43	8.29
MCL1	NM_021960	114.42	1.33	112.57	8.57
AGGF1	NM_018046	96.29	9.66	123.22	0.67
UBE3C	NM_014671	93.16	6.2	117.35	14.27
NUAK1	NM_014840	104.74	10.33	121.04	0.86
CSNK1A1L	NM_145203	49.05	2.34	57.68	2.29
NUAK2	NM_030952	85.1	1.49	89.1	8.28
SENp8	NM_145204	110.76	11.1	113.6	12.38
SENp6	NM_015571	67.9	5	80.04	12.25
SPATA5	NM_145207	117.48	7.66	102.43	9.8

ROR1	NM_005012	108.59	5.13	125.89	5.94
PPID	NM_005038	119.39	2.38	118.53	3.17
CNNM1	NM_020348	106.65	11.02	96.22	0.7
TRIP13	NM_004237	99.02	0.72	99.18	4.49
ACVRL1	NM_000020	86.02	3.17	80.64	4.46
FBXW8	NM_153348	105.7	4.1	104.25	2.61
DCAMKL2	NM_152619	117.01	3.34	132.49	1.91
TRIP12	NM_004238	98.02	9.67	123.94	9.06
PPP1CA	NM_002708	102.78	8.42	108.58	20.23
MSH4	NM_002440	113.25	15.01	113.99	1.48
LMTK2	NM_014916	100.17	7.9	80.84	3.08
NR0B2	NM_021969	105.39	14.52	105.17	20.13
FBXL7	NM_012304	105.19	5.92	101.27	0.87
EXOSC5	NM_020158	95.58	9.05	109.65	2.75
LOC203427	NM_145305	96.33	4.64	104.67	16.09
SUV39H1	NM_003173	61.49	7.35	69.07	6.63
FAIM2	NM_012306	94.84	2.11	110.76	0.81
BCL2A1	NM_004049	104.8	5.04	108.26	3.15
FBXL4	NM_012160	84.25	1.85	74.76	4.51
TRPV3	NM_145068	98.16	2.19	107.56	17.36
ASCC3	NM_006828	28.8	7.05	33.52	10.39
STARD13	NM_052851	83.59	7.05	115.99	3.37
POLR2L	NM_021128	54.62	4.6	65.82	7.06
TPP2	NM_003291	109.5	9.04	124.01	11.42
EIF4EBP1	NM_004095	103.22	7.29	121.79	6.6
ACVR1C	NM_145259	115.07	13.6	95.67	8.01
CTSD	NM_001909	109.64	0.51	107.77	5
NR2C1	NM_003297	108.67	9.1	96.78	10.96
NR2C2	NM_003298	101.92	8.18	115.16	7.92
SNIP1	NM_024700	100.95	10.02	110.78	7.94
MARK3	NM_002376	99.34	6.7	107.32	2.24
BCKDK	NM_005881	92.87	1.66	104.91	6.75
KIAA0317	NM_014821	118.49	10.27	69.3	1.19
UBE2D3	NM_003340	76.58	3.33	56.98	10.38
DNASE1L1	NM_006730	96.33	0.56	96.31	10.58
PDK4	NM_002612	108.34	5.21	109.27	11.99
ERN2	NM_033266	97.62	6.04	116.1	16.31
CLCNKA	NM_004070	97.46	1.62	87.6	4.65
STARD3	NM_006804	98.84	0.77	100.51	1.43
UBE2E1	NM_003341	92.96	5.03	104.15	5.02
CACNA1G	NM_018896	70.76	7.64	79.15	12.98
UBE2G1	NM_003342	86.54	5.73	108.76	2.91
CLPX	NM_006660	104.93	6.89	113.85	17.11
PDE1A	NM_005019	78.1	1.44	93.94	9.01

FBXO39	NM_153230	111.08	8.33	123.49	5.8
PDPK1	NM_002613	48.35	1.43	63.61	8.14
ATAD3B	NM_031921	98.28	14.56	96.18	0.51
TTRAP	NM_016614	98.61	14.83	103.32	5.13
IKBKE	NM_014002	118.72	11.26	113.8	3.76
SCN1A	NM_006920	67.23	1.27	48.91	6.31
FAIM	NM_018147	74.78	0.9	101.05	15.64
SCN3A	NM_006922	96.27	7.55	99.18	9.18
SENP3	NM_015670	107.02	9.99	131.47	9.95
ADCK1	NM_020421	92.15	6.95	120.67	8.71
PDE10A	NM_006661	92.66	1.61	99.83	1.07
UBE2G2	NM_003343	86.84	7.94	96.13	10.21
MLL	NM_005933	114.18	8.58	105.52	9.1
FBXW2	NM_012164	109.9	4.72	109.05	3.34
SPHK1	NM_021972	81.38	1.14	89.88	6.2
UBE2H	NM_003344	108.83	6.99	95.43	3.88
ULK2	NM_014683	106.77	12.35	90.59	0.75
CNNM4	NM_020184	75.03	7.04	68.07	8.94
POLR2F	NM_021974	41.58	1.5	24.78	0.68
UBE2I	NM_003345	73.22	3.28	75.96	5.92
NET1	NM_005863	98.39	8.32	122.58	14.49
FBXO2	NM_012168	85.16	16.98	115.94	9.98
MLLT4	NM_005936	101.98	8.91	133.21	6.72
UBE2N	NM_003348	106.72	9.66	120.13	11.19
RAD18	NM_020165	82.77	5.23	112.19	13.83
APPL	NM_012096	93.97	10.67	119	8.22
ST3GAL2	NM_006927	107.04	13.44	115.97	4.81
SPAST	NM_014946	91.69	7	97.5	8.38
FBXW5	NM_018998	91.59	0.59	84	1.02
TRPM2	NM_003307	100.85	3.35	98.64	11.04
CARD8	NM_014959	97.12	3.62	108.28	7.61
ITPR2	NM_002223	99.4	0.83	119.22	3.25
UBE2F	NM_080678	111.56	6.01	123.5	1.71
ASAH1	NM_004315	83.74	1.92	85.96	1.66
POLR3D	NM_001722	95.2	1.32	91.12	2.42
PPP3CA	NM_000944	98.5	11.96	112.28	3.26
HSPA2	NM_021979	89.15	10.99	98.43	5.77
UBE3B	NM_130466	106.67	7.45	110.93	3.42
PDE3A	NM_000921	94.51	4.86	99.48	6.18
EPHA6	NM_173655	104.24	6.89	113.43	11.94
GUCY1B2	NM_004129	98.22	3.05	102.6	3.09
JDP2	NM_130469	104.14	6.78	85.66	2.32
PDE3B	NM_000922	58.14	2.46	64.3	6.59
PDE1C	NM_005020	93.68	2.37	105.67	2.02

PDE4C	NM_000923	98.11	8.42	75.03	9.06
PRKD2	NM_016457	85.6	5.5	95.41	0.92
PDE1B	NM_000924	83.72	0.66	75.94	0.53
ST6GALNAC5	NM_030965	82.03	0.88	120.05	1.67
MALT1	NM_006785	102.49	12.56	110.35	13.78
SMURF1	NM_020429	102.75	10.77	90.31	5.01
SLC25A25	NM_052901	108.5	4.61	112.35	8.2
KIAA1639	AB046859	88.85	3.41	56.08	1.52
CD38	NM_001775	87.22	2.24	104.82	3.53
BCL2L11	NM_138621	98.8	8.96	100.92	3.08
DHX36	NM_020865	80.49	4.4	89.63	3.24
BRDT	NM_001726	98.66	2.7	111.79	3.14
POLDIP2	NM_015584	102.59	7.6	101.9	8.44
GUCY1A2	NM_000855	107.7	4.32	113.47	8.24
UBE2L6	NM_004223	88.6	8.56	109.85	9.87
GUCY1A3	NM_000856	97.45	3.9	108.53	8.01
ARHGEF11	NM_014784	95.26	8.59	94.39	1.37
GUCY1B3	NM_000857	18.07	4.39	2.82	0.51
METAP2	NM_006838	102.8	1.95	102.64	9.83
TRPV5	NM_019841	68.7	7.57	70.57	4.23
LYK5	NM_153335	90.72	0.58	107.77	16.91
MCART1	NM_033412	65.29	11.46	88.58	6.89
UBE2V2	NM_003350	67.05	0.65	82.84	9.87
KCNQ5	NM_019842	68.78	8.42	78.54	3.91
ARHGEF17	NM_014786	97.08	0.15	128.82	22.48
VGCNL1	NM_052867	107.15	13.16	135.9	16.81
ORC1L	NM_004153	87.46	1.4	117.7	13.15
CECR1	NM_017424	112.23	5.56	124.51	8.94
WNT8A	NM_031933	105.32	8.4	107.58	2.51
FBXL10	NM_032590	84.89	4.28	92.77	1.53
EZH2	NM_152998	93.53	3.57	85.11	11.57
KSR	XM_290793	90.6	4.81	124.62	24.84
RAD54B	NM_012415	76.2	6.89	106.91	0.73
ACSL4	NM_022977	114.25	7.35	149.62	21.92
TANK	NM_004180	73.49	7.21	81.34	1.26
BIRC8	NM_033341	104.71	14.48	137.58	18.94
FBXO25	NM_012173	98.31	7.49	100.01	11.29
MGC34725	NM_173637	82.82	8.38	61.36	4.09
FGD5	NM_152536	98.05	5.38	100.73	6.24
WNK1	NM_018979	65.89	8.59	79.62	9.4
UCP2	NM_003355	109.68	10.53	118.27	2.93
PSKH1	NM_006742	47.76	1.46	52.81	8.11
UGCG	NM_003358	115.24	6.28	123.76	3.71
DHCR24	NM_014762	86.3	8.73	75.78	3.94

FBXO7	NM_012179	71.65	4.26	85.76	7.01
DHH	NM_021044	82.57	14.41	104.7	17.84
PTAFR	NM_000952	80.52	5.68	91.4	6.39
PDE4B	NM_002600	103.16	11.32	126.3	18.96
DNTT	NM_004088	83.2	6.13	109.24	14.06
TXNRD1	NM_003330	88.81	4.17	84.55	9.34
CLCN3	NM_001829	98.5	5.01	134.9	9.91
FBXO9	NM_012347	104.8	6.21	130.17	8.39
ARHGEF4	NM_015320	63.37	6.2	68.62	11.14
UHMK1	NM_175866	88.14	5.09	94.41	9.11
DDX43	NM_018665	106.45	4.84	92.7	1.59
PSMC4	NM_006503	41.92	1.44	50.63	6.64
PTPRE	NM_006504	103.66	11.32	133.25	4.8
PTPRU	NM_005704	84.5	10.55	102.73	9.04
UBR2	NM_015255	63.85	5.17	77.23	0.21
FBXL14	NM_152441	106.5	10.39	122.27	3.98
CBR1	NM_001757	80.31	3.9	107.6	14.04
HNF4G	NM_004133	126.77	16.04	147.1	17.83
DISP2	NM_033510	103.33	11.4	99.74	5.19
YWHAH	NM_003405	109.66	10.15	125.04	9.19
KCNK9	NM_016601	101.66	12.21	110.52	19.52
FBXO40	NM_016298	112.18	12.69	102.57	17.4
RBBP6	NM_006910	63.71	0.66	82.67	2.85
HSPA9B	NM_004134	51.23	7.44	61.44	5.56
CXXC5	NM_016463	68.32	2.8	64.39	1.7
HSPA14	NM_016299	78.29	2.54	91.67	12.74
PCTP	NM_021213	102.99	19.86	124.57	10.91
PDE8A	NM_002605	73.28	2.18	89.53	10.15
RORB	NM_006914	91.13	12.74	109.05	3.97
MAP3K9	AF251442	93.43	5.71	111.3	1.37
CDC42BPG	Y12337	70.38	3.83	77.19	1.24
LIMK2	NM_005569	98.58	0.27	108.81	10.41
TRIM33	NM_015906	94.13	11.06	95.2	9.18
ADARB1	NM_015833	99.19	8.41	95.41	4.05
NOS2A	NM_000625	94.58	7.58	125.63	13.76
DDX3X	NM_001356	78.33	2.19	105.87	18.11
NVL	NM_002533	102.28	12.53	122.24	4.3
XRCC5	NM_021141	99.71	14.28	70.6	3.27
UBE1L	NM_003335	80.59	8.08	84.55	3.23
BRD2	NM_005104	116.17	9.43	115.87	8.49
PDE9A	NM_002606	111	3.94	120.74	6.72
EDG5	NM_004230	83.9	7.19	86.45	4.8
UBE2A	NM_003336	105.05	2.57	72.26	10.83
RXRG	NM_006917	100.22	8.87	116.28	9.59

FBXL2	NM_012157	100.5	10.99	128.48	11.23
DDX24	NM_020414	56.9	0.97	74.83	2.13
UBE2B	NM_003337	103.95	6	123.17	4.09
MELK	NM_014791	84.59	1.55	105.78	7.32
FBXL3	NM_012158	103.06	5.77	122.2	8.27
POLR2K	NM_005034	48.47	3.62	37.46	1.93
TRAIIP	NM_005879	93.65	7.79	131.2	22.71
DDX18	NM_006773	44.24	2.49	59.86	1.5
ULK3	AL117482	112.03	12.74	120.3	9.44
CLCN6	NM_001286	113.12	5.41	119.18	28.91
PSMB9	NM_002800	89.61	9.86	109.63	12.23
UHMK1	NM_144624	104.81	11.5	102.62	8.92
CDC42BPA	NM_003607	94.15	8.66	80.46	10.24
HSPA5BP1	NM_017870	100.77	6.88	124.19	12.54
PTPN6	NM_080549	95.32	5.34	96.13	4.04
DCAMKL3	AB051552	117.44	17.24	143.34	28.22
STARD10	NM_006645	74.12	1.57	78.86	10.5
TRPC1	NM_003304	114.61	0.15	118.23	8.86
CXXC1	NM_014593	76.04	9.86	85.36	3.13
TRPC3	NM_003305	102.54	8.8	97.22	3.94
SLFN11	NM_152270	44.29	6.9	48.29	10.1
LOC91137	NM_138773	73.77	8.9	75.78	5.25
TFRC	NM_003234	85.69	12.17	93.38	3.2
ADCY3	NM_004036	97.35	8.13	114.4	11.45
KCNA2	NM_004974	76.81	1.58	77.95	3.92
AMPD2	NM_004037	84.76	2.86	93.95	1.81
KCNB1	NM_004975	91.49	7.02	99.37	15.3
KCNC1	NM_004976	94.93	5.24	90.86	0.6
KCNC3	NM_004977	80.29	6.65	60.47	11.13
SLC25A6	NM_001636	87.71	0.27	96.48	14.39
TSSK3	NM_052841	113.89	13.09	133.71	9.4
KCND1	NM_004979	103	2.25	96.72	3.38
COL4A3BP	NM_005713	130.33	1.7	135.92	4.69
CDH26	NM_177980	100.81	12.13	100.59	11.46
CIT	NM_007174	61.34	2.64	64.87	2
TRPM3	NM_020952	101.93	12.13	118.69	1.9
KCNS2	AB032970	61.64	2.58	67.33	1.51
JUP	NM_002230	105.95	0.72	119.85	2.39
FBXO21	NM_033624	100.86	13.78	112.35	2.57
ST3GAL1	NM_003033	94.23	3.59	91.89	6.52
BCL2L1	NM_138578	110.76	12.59	83.07	5.92
KCNG1	NM_002237	103.52	6.81	115.06	4.72
KCNQ2	NM_172107	84.39	0.95	54.63	7.48
EPHB2	NM_017449	69.69	2.14	67.13	5.58

MBD1	NM_015846	98.65	7.97	111.42	3.64
DNMT2	NM_004412	112.71	8.5	137.26	7.21
EXOSC8	NM_181503	80.21	3.13	83.96	5.51
EDG2	NM_057159	106.7	9.81	105.29	11.82
IKBKB	AF080158	102.15	14.7	95.02	8.56
DKFZp761P0423	AL833872	94.13	8.16	88.11	7.04
SLC30A4	NM_013309	72.73	2.19	94.51	5.33
KCNH8	NM_144633	80.23	3.2	79.61	2.49
LPL	NM_000237	101.3	2.19	94.09	16.27
GLI3	NM_000168	94.64	2.55	65.04	5.53
UBE2E2	NM_152653	101.71	5.86	116.99	18.49
TRPC7	NM_020389	83.81	4.94	109.61	0.6
BTK	NM_000061	88.55	5.86	80.07	1.26
FANCA	NM_000135	90.19	11.02	95	0.6
FANCC	NM_000136	73.57	6.86	49.58	1.37
CACNA1S	NM_000069	76.82	6.22	79.4	9.43
SLC30A8	NM_173851	61.99	12.94	77.8	9.01
SUV39H2	NM_024670	78.91	0.31	106.84	15.83
STYK1	NM_018423	42.18	1.85	44.87	3.39
PRKX	NM_005044	90.72	1.51	108.99	0.8
AMID	NM_032797	110.93	0.41	120.15	9.38
SKIV2L	NM_006929	70.61	0.5	78.38	2.92
CHTF18	NM_022092	81.71	0.42	72.32	11.28
CDC14C	NM_152627	103.04	2.94	119.97	11.72
ESRRA	NM_004451	64.26	3.23	81.22	3.78
PAFAH1B2	NM_002572	98.43	6.15	102.11	4.31
ESRRB	NM_004452	77.57	0.33	85.08	6.57
PAFAH1B3	NM_002573	104.61	7.98	132.56	14.35
TRPC5	NM_012471	92.11	6.67	99.64	5.33
UBE2U	NM_152489	82.51	6.72	22.23	3.91
IFIH1	NM_022168	74.83	10.9	84.85	5.51
AMPD1	NM_000036	103.41	6.56	101.59	2.03
GAK	NM_005255	64.66	2.42	52.58	7.39
UBE1DC1	NM_024818	83.33	2.17	116.98	8.73
GSG2	NM_031965	49.08	5.11	70.2	3.91
ATAD3A	NM_018188	86.26	3.31	90.93	12.3
TAX1BP1	NM_006024	86.68	0.53	70.98	10.27
DNASE1	NM_005223	94.07	8.34	99.29	1.31
PPM1D	NM_003620	85.23	4.75	71.72	1.21
EDG3	NM_005226	77.62	5.61	97.99	2.09
VPS4A	NM_013245	95.02	9.14	123.9	4.85
ENTPD1	NM_001776	95.54	4.39	122.23	17.32
CACNA1F	NM_005183	49.41	2.2	52.03	2.7
PAK3	NM_002578	103.99	0.9	120.75	8.01

PDIK1L	NM_152835	68.44	3.28	69.46	1.88
2'-PDE	NM_177966	87.2	6.67	109.84	9.79
PPT1	NM_000310	54.49	7.76	50.4	3.53
CHFR	NM_018223	74.18	0.25	92.26	2.01
MLLT3	NM_004529	95.47	3.13	118.96	7.46
UBE1L2	NM_018227	96.9	5.01	140.04	12.67
ADCY7	NM_001114	86.36	2.33	103.83	5.66
FBXO18	NM_032807	97.7	2.83	118.77	11.55
CSNK1G3	NM_004384	68.21	2.09	55.4	7.87
SLC25A36	NM_018155	104.03	4.61	110.56	3.82
CAMK1	NM_003656	77.15	7.24	73.33	7.26
POLE4	NM_019896	100.86	4.22	118.58	5.89
ADCY8	NM_001115	84.25	10.73	97.4	8.41
UBE2O	NM_022066	84.39	3.51	97.63	4.3
PPM1M	NM_144641	104.05	2.89	69.52	1.75
PTK9	NM_002822	73.33	0.45	95.92	0.58
SLC30A1	NM_021194	93.99	7.51	107.55	7.87
CNOT6L	NM_144571	68.69	6.11	88.64	0.71
RAB3D	NM_004283	105.38	8.86	127.34	12.35
BCL2L10	NM_020396	66.85	6.18	78.33	4.33
PTPN1	NM_002827	75.3	8.94	93.13	7.23
SLC4A1AP	NM_018158	84.6	0.42	85.33	1.07
ADCY9	NM_001116	77.95	14.21	59.12	4.16
FIGN	NM_018086	92.96	3.07	91.4	7.39
HIPK1	NM_152696	84.79	13.94	70.06	3.56
ASCC3L1	NM_014014	38.27	5.33	45.73	1.64
ERCC1	NM_001983	71.89	6.39	92.04	10.37
MGC26597	NM_152700	91.43	0.62	108.49	9.89
CATSPER1	NM_053054	73.82	0.09	90.65	1.77
NR1I3	NM_005122	95.66	4.38	133.61	10.23
SENP5	NM_152699	101.89	5.9	91.44	3.63
FLJ25006	NM_144610	80.97	1.44	88.17	0.94
FBXL12	NM_017703	75.16	1.35	83.3	8.98
NR1H4	NM_005123	84.26	0.52	86.33	7.15
FLJ20035	NM_017631	7.36	2.19	2.74	1.63
MSH6	NM_000179	88.33	3.51	98.29	4.31
PIP5K1A	NM_003557	93.18	0.75	135.59	26.79
PTPN3	NM_002829	80.51	0.57	96.56	3.95
EXDL1	NM_152596	80.92	1.15	86.56	10.75
CBS	NM_000071	62.42	6.4	73.78	1.01
KCNA1	NM_000217	102.62	9.37	111.9	1.61
KCNQ1	NM_000218	71.76	3.73	72.73	0.07
POLA2	NM_002689	88.63	0.43	94.88	7.99
DDX19A	NM_018332	68.75	2.36	51.7	23.81

RAD23A	NM_005053	98.6	5.29	88.02	3.35
FBXO6	NM_018438	78.88	0.03	94.71	8.74
NR1D2	NM_005126	97.44	4.93	102.55	2.99
TRPM4	NM_017636	83.34	5.8	112.43	6.56
MGC42105	NM_153361	74.49	1.18	95.06	8.71
PDE4A	NM_006202	58.51	1.41	72.57	5.73
FBXW4	NM_022039	20.2	1.62	23.51	1.75
PDE4D	NM_006203	84.52	7.54	103.93	7.24
JARID1A	NM_005056	106.15	10.65	140.31	3.45
PTPN14	NM_005401	72.17	5.39	74.8	12.92
RBBP5	NM_005057	80.62	3.94	98.34	6.82
FBXL20	NM_032875	101.89	0.43	95.89	9.25
CAMK1G	NM_020439	71.75	2.09	101.18	0.71
PDE6C	NM_006204	85.46	1.25	79	1.29
BCS1L	NM_004328	56.24	9.91	78.61	6.38
CNGB3	NM_019098	72.16	0.2	56.27	10.88
ST3GAL6	NM_006100	86.34	3.17	114.78	21.17
LIPG	NM_006033	87.09	1.2	87.32	8.43
EPHA3	NM_005233	91.54	0.82	87.98	4.72
C14orf114	NM_018199	99.55	2.84	112.85	16.41
NR2F6	NM_005234	81.64	3.44	87.19	9.48
GRK5	NM_005308	65.74	5.27	86.6	0.18
TNFRSF13B	NM_012452	63.37	3.62	70.96	12.39
HUS1	NM_004507	76.74	3.9	101.5	8.97
AFG3L2	NM_006796	71.91	14.24	99.77	2.4
C11orf11	NM_006133	64.74	5.9	69.59	4.76
CACNA1I	NM_021096	56.57	5.4	45.83	8.95
MCOLN3	NM_018298	97.39	11.92	93.69	1.65
CACNA1H	NM_021098	70.5	6.96	82.9	2.72
UBE2W	NM_018299	64.58	6.81	89.24	0.31
PAWR	NM_002583	87.8	11.31	40.22	3.42
ENPP2	NM_006209	64.98	2.52	101.13	4.96
SLC30A3	NM_003459	77.62	2.27	92.46	17.5
HCFC1	NM_005334	93.4	15.76	87.65	25.31
ATAD1	NM_032810	95.72	1.36	114.37	1.02
GRK7	NM_139209	64.76	1.06	76.16	0.59
PRKAG3	NM_017431	59.77	0.55	58.87	4.16
CRADD	NM_003805	51.75	0.61	31.66	32.11
PLA1A	NM_015900	104.25	5.35	122.01	20.75
EXOSC6	NM_058219	94.46	1.23	80.57	2.21
PTPN4	NM_002830	80.23	2.52	96.32	9.25
ENDOG	NM_004435	89.52	5.73	88.64	6.47
PLA2G6	NM_003560	74.48	1.58	68.12	0
ADCY2	NM_020546	70.35	14.38	72.85	22.97

TIAM2	NM_012454	86.33	9.52	67.67	0.48
AMHR2	NM_020547	61.33	0.39	86.41	0.17
PTPN9	NM_002833	79.99	9.14	114.87	4.69
CLCN2	NM_004366	52.29	2.15	28.82	3.2
EXOSC4	NM_019037	62.52	4.05	76.56	7.32
FGD1	NM_004463	106.96	3.8	141.46	6.9
EDD1	NM_015902	85.71	2.88	77.88	11.9
POLM	NM_013284	66.51	0.44	81.37	4.45
CLSPN	NM_022111	87.25	4.27	89.31	1.91
BIRC1	NM_004536	73.67	5.2	96.19	2.35
MULK	NM_018238	80.11	3.39	121.07	17.11
HIP2	NM_005339	107.41	1.31	111.67	10.42
C9orf100	NM_032818	51	4.19	63.01	0.13
PTCH2	NM_003738	78.67	5.11	109.81	15.38
BFAR	NM_016561	80.5	5.4	62.06	5.16
SSTR3	NM_001051	52.66	2.67	55.85	3.8
FIGNL1	NM_022116	98.09	7.55	107.08	7.96
GLI1	NM_005269	101	2.41	97.85	17.07
SLC25A2	NM_031947	64.38	4.06	48.57	4.58
PTPN12	NM_002835	64.93	1.01	60.48	1.27
POLB	NM_002690	71.67	1.28	100.68	1.2
PTPRB	NM_002837	72.71	4.76	81.91	0.79
POLE2	NM_002692	102.29	10.56	117.78	9.08
POLG	NM_002693	78.93	9.7	73.51	17.65
TRRAP	NM_003496	81.93	7.91	81.12	6.15
POLR2E	NM_002695	45.71	4.31	46.03	5.82
EIF4A2	NM_001967	77.41	6.27	79.6	6.6
STK36	NM_015690	92.34	7.21	39.6	2.53
DFFB	NM_004402	82.58	3.03	117.92	15.72
THOC1	NM_005131	79.84	7.18	106.67	14.52
BNIP2	NM_004330	86.15	1.09	114.19	1.51
RORC	NM_005060	91.09	3.29	109.92	2.56
CSNK1G1	NM_022048	85.68	5.39	84.07	0.09
POLD4	NM_021173	73.31	3.99	89.55	13.51
ERCC8	NM_000082	105.94	8.48	104.77	12.66
POLR2G	NM_002696	40.65	3.76	51.15	6.69
CLCN1	NM_000083	88.7	12.19	106.76	11.2
CATSPER3	NM_178019	91.61	3.13	93.09	0.81
CLCN5	NM_000084	92.39	10.56	89.64	0.88
CLCNKB	NM_000085	101.58	11.81	129.55	10.2
ST6GALNAC1	NM_018414	86.68	7.89	121.49	12.95
PSMC1	NM_002802	56.72	0.02	52.53	6.5
PSMC2	NM_002803	49.31	3.76	55.73	9.38
PSMC3	NM_002804	54.48	2.56	59.49	3.27

KCND2	NM_012281	89.86	1.76	81.04	3.04
LIPF	NM_004190	90.17	0.9	121.35	0.22
PRKACG	NM_002732	113.23	10.49	115.76	17.37
PSMC5	NM_002805	36.24	1.95	44.72	9.91
LOC153328	NM_145282	103.38	11.69	105.42	8.82
CNGA1	NM_000087	85.39	9.28	85.86	2.68
RIOK2	NM_018343	79.99	8.17	86.28	18.23
EXOSC7	NM_015004	74.83	9.31	72.08	2.89
FOXK2	NM_004514	83.39	4.2	123.24	2.47
SCN11A	NM_014139	91.29	6.15	114.09	7.19
DDX25	NM_013264	76.86	10.65	117.65	15.26
ST8SIA3	NM_015879	84.8	2.86	109.31	12.73
RFC2	NM_002914	112.29	4.13	106.99	5.74
KCNG2	NM_012283	48.69	27.17	89.24	15.04
PSMC6	NM_002806	50.15	6.88	61.01	16.59
PRKAG1	NM_002733	51.87	1.49	64.86	1.92
PTP4A1	NM_003463	54.28	2.75	40.67	8.5
KCNH4	NM_012285	93.03	7.57	96.42	7.2
MLKL	NM_152649	97.06	5.76	89.87	7.35
ERCC5	NM_000123	78.81	2.58	89.35	4.68
COX5B	NM_001862	90.31	3.17	102	5.23
HIPK4	NM_144685	88.85	12.6	94.92	8.54
PTPRG	NM_002841	82.57	0.08	77.65	14.32
PTPRH	NM_002842	89.35	6.26	70.6	0.67
KCNQ3	NM_004519	77.07	10.21	66.7	2.76
PTPRJ	NM_002843	106.3	12.46	100.79	2.01
ACVR1	NM_001105	89.41	4.45	93.3	9.57
PTPRK	NM_002844	56.29	5.13	60.99	3.49
PDE8B	NM_003719	101.73	4.27	101.55	9
PTPRM	NM_002845	104.74	10.94	106.48	11.09
TSSK2	NM_053006	87.5	3.11	111.46	14.41
DDX5	NM_004396	91.8	4.02	117.56	7.54
CDH2	NM_001792	88.89	12.49	123.22	9.82
EZH1	NM_001991	98.81	4.82	127.91	15.37
PCTK2	NM_002595	91.19	6.06	99.86	13.76
DDX10	NM_004398	46.73	2.54	51.6	2.47
CDH5	NM_001795	24.66	1.32	26.19	3.84
FBXO38	NM_024862	104.39	6.28	101.32	4.49
PDE2A	NM_002599	59.85	3.12	84.03	8.93
MKNK2	NM_017572	103.56	8.09	83.4	6.36
TP53RK	NM_033550	80.89	0.36	99.46	7.16
WWP1	NM_007013	67.75	6.38	78.46	0.07
POLE3	NM_017443	113.95	9.21	154.77	8.77
PES1	NM_014303	70.25	5.18	72.64	1.49

PLEKHG6	NM_018173	76.23	10.48	85.29	2.29
WWP2	NM_007014	129.27	7.72	128.38	22.8
PTPRN	NM_002846	21.39	0.23	15.7	1.38
STK24	NM_003576	82.72	2.12	77.53	7.95
RYR2	NM_001035	87.91	6.34	97.59	5.73
RYR3	NM_001036	88.75	4.23	105.5	0.18
LIPA	NM_000235	74.95	10.74	103.51	10.19
RAD54L	NM_003579	71.49	2.74	104.32	0.19
LIPC	NM_000236	64.1	5.7	58.74	10.19
ST8SIA2	NM_006011	55.83	0.78	66.78	1.06
PHKG1	NM_006213	22.2	4.69	27.46	4.07
EEF2K	NM_013302	105.4	6.1	118.44	4.14
CNNM2	NM_017649	98.25	5.09	88.85	9.12
ST8SIA5	NM_013305	103.74	6.96	141.66	7.63
FBXL8	NM_018378	117.71	2.34	104.34	5.96
KCNK13	NM_022054	99.22	4.18	137.65	0.36
POLR1D	NM_015972	55.44	6.46	46.94	4.27
STK39	NM_013233	96.14	8.22	98.46	1.67
TGM2	NM_004613	64.32	31.37	82.69	5.05
SETDB1	NM_012432	65.12	6.3	54.22	5.2
SRMS	NM_080823	55.62	3.59	58.85	2.09
KCNA7	NM_031886	98.02	0.31	47.71	3.59
PKDREJ	NM_006071	97.09	2.55	122.95	0.92
AIFL	NM_144704	96.16	3.88	66.55	3.29
UBE2C	NM_007019	47.78	9.33	61.47	13.71
MAST2	NM_015112	122	5.06	124.97	4.47
CLK3	NM_003992	117.06	0.88	136.37	5.23
MAST4	AB002301	82.16	0.1	90.78	7.84
CCNE2	NM_057749	112.24	3.33	88.76	1.06
FGFR4	NM_002011	74.3	3.78	78.86	1.9
KDR	NM_002253	97.4	3.35	94.69	10.74
JUND	NM_005354	69.58	3.4	78.74	17.45
CLK2	NM_003993	75.6	0.2	71.71	12.55
BUB1B	NM_001211	89.37	0.17	74.47	14.37
KIF3C	NM_002254	59.19	2.36	47.86	18.2
LCK	NM_005356	72.62	3.82	83.65	3.02
NPR2	NM_003995	72.06	1.27	63.98	3.84
RPN2	NM_002951	89.94	0.39	83.72	0.38
KIF3B	NM_004798	88.63	3.09	83.85	2.84
TACC3	NM_006342	15.85	4.06	13.62	0.73
KIF15	NM_020242	73.81	0.07	17.74	9.43
INPP5D	NM_005541	85.69	9.71	74.77	6.55
CCNG1	NM_004060	119.3	4.53	110.39	3.05
MERTK	NM_006343	94.79	10.36	95.26	5.47

YWHAB	NM_003404	88.88	4.27	90.77	3.85
IRS1	NM_005544	59.2	0.27	67.81	11.61
CDKN1B	NM_004064	78.43	0.35	90.18	0.38
WASL	NM_003941	66.3	4.49	58.56	1.73
CTNNBIP1	NM_020248	69.03	9.11	87.2	15.52
ITK	NM_005546	98.48	0.41	110.1	7.56
PDGFB	NM_002608	99.34	4.4	100.13	5.37
ITGA5	NM_002205	88.49	2.29	81.89	2.36
PDGFRB	NM_002609	80.83	2.66	80.01	1.17
ALS2CR7	NM_139158	100.23	2.09	77.14	4.64
NFKB1	NM_003998	100.72	8.09	77.59	11.34
FOXO1A	NM_002015	107.66	1.25	65.47	6.56
C20orf24	NM_018840	111.88	8.19	97.22	8.37
SMAD4	NM_005359	115.96	0.53	75.5	20.24
MGC11266	NM_024322	77.07	2.45	73.94	6.57
RPS6KA1	NM_002953	127.77	5.77	134.73	5.88
MYL9	NM_181526	108.54	14	95.18	0.36
NOTCH4	NM_004557	66.53	2.85	53.01	6.49
OGFR	NM_007346	55.16	3.26	59.85	5.93
TUBG1	NM_001070	39.42	0.07	26.1	0.17
DHX8	NM_004941	69.58	0.54	59.19	13.2
RREB1	NM_002955	113.2	5.62	90.53	1.69
MAP3K3	NM_002401	98.33	1.2	95.8	0.4
FLT1	NM_002019	108.24	3.67	106.75	0.73
CAMKK2	NM_006549	93.74	1.03	101.86	0.17
CDK8	NM_001260	99.67	7.63	108.62	2.36
CENPA	NM_001809	83.91	6.6	75.81	1.35
FGFR1	NM_000604	87.37	3.32	80.51	9.34
TAOK1	AB037782	103.2	1.84	113.62	2.27
CDKL2	NM_003948	67.64	7.03	66.5	4.96
RHOA	NM_001664	114.03	5.32	127.94	7.23
CDK9	NM_001261	99.98	1.25	87.89	6.55
MYC	NM_002467	83.33	3.06	86.73	3.69
STK40	AK024504	43.82	2.08	46.82	4.96
AAK1	NM_014911	76.44	0.57	61.04	0.73
MARK1	NM_018650	104.67	3.67	110.54	2.11
TRIB1	NM_025195	81.42	10.17	94.74	5.68
LMTK3	AB067470	86.5	6.92	103.48	6.16
KIF2B	NM_032559	108	3.92	90.89	16.51
UCKL1	NM_017859	83.69	3.56	98.52	6
KIFC1	BC000712	83.39	4.81	104.52	4.83
TYMS	NM_001071	88.33	1.08	91.92	7.77
SLPI	NM_003064	106.62	4.98	119.48	3.04
RYK	NM_002958	78.16	2.19	79.5	2.54

FZD2	NM_001466	89.14	4.74	47.03	7.75
NPC1	NM_000271	84.01	5.14	91.77	2.9
C20orf4	NM_015511	87.69	3.64	89.84	0.67
VCAM1	NM_001078	110.7	0.03	96.56	4.49
DHX35	NM_021931	89.15	7.3	70.9	5.86
ORC6L	NM_014321	99.2	9.37	94.16	8.96
LATS2	NM_014572	103.09	4.11	49.51	9.09
KIF9	NM_022342	127.39	4.28	127.21	6.55
TEC	NM_003215	91.06	5.04	87.5	9.76
CCNB2	NM_004701	103.15	7.19	112.92	4.38
TERT	NM_003219	103.25	2.2	93.42	1.73
KIFC3	NM_005550	85.36	6.85	84.14	7.14
PDK1	NM_002610	79.03	2.47	83.28	2.02
MAP2K4	NM_003010	93.01	8.56	85.85	8.07
PDK2	NM_002611	99.86	2.34	99.28	2.28
RPS6KB2	NM_003952	67.14	6.36	56.56	4.43
CLK1	NM_004071	94.95	3.04	84.82	5.38
SFRS2	NM_003016	95.41	4.66	84.91	12.05
AURKB	NM_004217	35.59	1.21	31.24	5.32
RPS6KA5	NM_004755	98.65	0.05	77.85	1.22
CENPC1	NM_001812	97.05	6.62	96.81	1.06
CD44	NM_000610	111.44	6.82	119.87	0.35
MAPK1	NM_138957	75.71	4.71	84.76	7.27
MAP3K14	NM_003954	96.93	9.53	59.15	11.87
PLK3	NM_004073	83.71	3.93	103.53	0.14
DAPK2	NM_014326	94.8	3.48	75.15	8.02
ACVR2A	NM_001616	91.3	5.6	83.05	6.08
CDC16	NM_003903	64.31	2	72.83	3.83
MAP3K11	NM_002419	108.04	11.43	103.21	4.31
FLT4	NM_002020	95.47	7.08	102.06	6.48
ADRBK1	NM_001619	80.97	4.2	71.85	2.69
STARD4	NM_139164	102.83	2.59	114.62	1.53
GART	NM_000819	86.56	7.54	69.39	7.49
CAMK2B	NM_001220	89.04	1.18	81.04	1.7
SMAD2	NM_005901	81.14	6.74	89.09	5.49
EIF2S2	NM_003908	45.85	6.73	41.8	4.78
WNT4	NM_030761	68.07	3.87	80.47	2.85
CAMK2D	NM_001221	84.26	3.29	67.18	5.62
RASA3	NM_007368	95.23	1.19	89.19	7.31
STX16	NM_003763	67.22	3.05	66.27	3.5
ARFRP1	NM_003224	93.12	4.27	53.45	6.08
CHEK1	NM_001274	83.83	3.98	64.36	4.53
CENPE	NM_001813	24.45	1.44	44.66	4.15
CHUK	NM_001278	87.58	11.6	85.26	5.79

IGF1R	NM_000875	90.05	5.58	54.38	10.03
RASA2	NM_006506	116	16.82	122.31	3.28
PIK3CD	NM_005026	81.44	4.2	76.78	2.09
RNPC2	NM_004902	55.73	0.6	48.24	3.12
PIK3R2	NM_005027	78.35	7.78	68.5	8.51
LAMA5	NM_005560	109.7	3.1	120.16	6.02
STK17B	NM_004226	124.5	6.81	110.76	1.14
STK17A	NM_004760	73.33	2.24	78.11	8.68
CKS2	NM_001827	74.81	5.05	76.48	10.03
STMN1	NM_005563	88.69	11.82	79.5	16.14
TOP1	NM_003286	66.19	2.73	68.44	3.32
NEK1	AB067488	97.9	5.41	111.18	1.77
TPD52L2	NM_003288	101.13	4.45	111.34	5.71
MAPK12	NM_002969	84.43	7.03	84.99	0.4
HUNK	NM_014586	105.43	2.4	115.14	16.09
C20orf35	NM_018478	85.81	1.68	98.68	6.22
KIF19	NM_153209	89.84	0.64	102.86	1.96
CCNA1	NM_003914	90.4	5.22	86.72	0.62
GUCY2C	NM_004963	103.93	0.72	107.31	2.96
MOS	NM_005372	102.53	1.39	90.23	10.3
HDAC1	NM_004964	90.44	3.88	65.01	10.32
KCNK15	NM_022358	86.87	16.55	107.23	11.3
AKT2	NM_001626	49.63	7.53	65.5	4.57
FRK	NM_002031	76.93	13.91	88.8	0.23
CDC14A	NM_033312	100.37	6	94.91	1.67
MYB	NM_005375	95.36	5.7	113.08	9.44
AHCY	NM_000687	99.01	7.57	100.37	4.31
MYCL1	NM_005376	92.2	0.03	113.89	0.73
DBF4	NM_006716	83.32	0.45	75.99	2.57
RGL2	NM_004761	102.78	13.91	92.43	0.29
IMPDH1	NM_000883	77.08	6.26	81.65	2.03
SHC1	NM_003029	106.26	2.87	112.03	3.05
ATP5B	NM_001686	102.01	5.21	47.95	13.15
JAK1	NM_002227	70.69	0.39	72.46	4.45
IMPDH2	NM_000884	69.75	15.44	78.1	7.79
GRK6	NM_002082	79.39	1.71	76.69	9.45
C10orf3	NM_018131	50	3.42	38.59	11.22
JUN	NM_002228	87.54	0.43	92.54	3.01
ASPM	NM_018136	79.31	8.72	47.71	9.55
JUNB	NM_002229	75.06	7.42	100.65	1.44
PLK1	NM_005030	3.6	0.86	3.13	0.46
CHMP4B	NM_176812	100.45	3.16	115.02	5.11
C20orf77	NM_021215	98.06	4.44	108.69	7.8
GRB2	NM_002086	88.54	0.31	106.2	2.5

PTK6	NM_005975	70.98	4.09	75.49	2.94
MYCN	NM_005378	97.95	2.47	89.88	2.48
MCM6	NM_005915	98.77	2.33	98.7	6.55
FYN	NM_002037	82.26	0.32	89.51	12.85
TNIK	AF172264	104.11	4.01	97.31	4.97
MAP4K2	NM_004579	81.62	6.2	81.89	8.1
MPHOSPH1	NM_016195	104.04	9.58	69.79	22.43
GAB1	NM_002039	99.1	14.12	106.61	5.56
JAK2	NM_004972	85.76	7.66	70.07	8.63
CCNA2	NM_001237	39.26	2.68	49.79	0.09
SNTA1	NM_003098	113.25	7.33	114.73	3.92
NOTCH3	NM_000435	85.6	13.21	98.29	2.84
RAPGEF6	NM_016340	103.74	13.2	108.03	0.1
CCNE1	NM_001238	90.08	1.26	76.26	7.6
TUBB6	NM_032525	85.27	8.66	83.49	9.59
CDC42	NM_044472	96.49	6.71	65.86	0.39
DDR1	NM_013994	99.89	8.35	71.86	5.49
RALGDS	U14417	112.65	13.77	103.45	13.93
S100A2	NM_005978	123.47	17.38	107.6	10.77
NEK9	NM_033116	92.36	3.29	90.96	4.11
EIF4EBP2	NM_004096	102.57	5.22	92.89	6.78
MYLK2	NM_033118	78.27	1.33	96.41	3.43
NEK2	NM_002497	100.93	8.53	83.89	16.47
ABL1	NM_007313	80.02	0.47	93.49	3.03
GSK3A	NM_019884	68.92	0.03	77.4	4.48
ABL2	NM_007314	85.31	7.37	103.52	2.08
MASK	NM_016542	104.28	9.37	97.65	1.47
STAT1	NM_007315	94.68	5.72	115	3.07
HES7	NM_032580	69.61	28.01	105.86	1.73
CCNH	NM_001239	100.37	4.15	83.44	10.78
CENPF	NM_016343	100.62	0.86	97.8	5.27
PKD2	NM_000297	96.05	2.8	113.6	10.83
DNCH1	U53530	63.34	0.26	64.54	1.88
MAP3K13	NM_004721	83.67	1.83	63.54	10.28
TM9SF4	NM_014742	104.12	6.6	96.69	1.42
NTRK2	NM_006180	76.52	3.1	93.21	9.78
MAP3K4	NM_005922	86.12	1.33	96.03	1.19
CAMK2G	BC021269	63.7	1.2	83.32	6.8
MAP3K5	NM_005923	95.84	9.15	100.64	6.69
ARHGEF2	NM_004723	73.43	7.81	97.33	6.87
CENPH	NM_022909	89.74	3.85	81.61	3.12
DDR2	NM_006182	87.35	7.42	74.77	11.99
WNK4	NM_032387	120.23	15.49	103.15	0.57
ZW10	NM_004724	95.15	4.57	97.39	6.71

TNK2	NM_005781	77.5	2.25	84.81	2.1
KIF22	NM_007317	74.69	3.58	88.89	0.92
SFRS1	NM_006924	67.05	4.7	64.13	1.23
ASXL1	NM_015338	113.72	0.55	126.94	9.62
MAP2K7	NM_005043	114.64	8.05	99.24	2.47
ADNP	NM_015339	89.5	5.87	68.49	1.83
GHRH	NM_021081	67.24	9.48	69.3	0.54
LMNA	NM_005572	60.76	2.49	74.31	7.63
PRKCBP1	NM_012408	75.35	5.93	74.79	8.46
STK25	NM_006374	30.52	3.07	33.78	4.18
MAPK10	NM_138982	99	2.48	100.88	1.08
ARPC3	NM_005719	30.03	3.18	9.78	5.59
SKP2	NM_005983	40.33	2	46.36	2.82
LMNB1	NM_005573	103.43	0.82	124.69	4.59
RALBP1	NM_006788	46.72	1.54	45.91	5.78
NEK6	NM_014397	106.01	7.61	113.01	9.04
PIK3C2A	NM_002645	97.73	15.95	109.58	13.96
BUB3	NM_004725	95.46	5.74	108.81	4.62
TGFBR2	NM_003242	113.29	3.17	96.66	10.46
NUMA1	NM_006185	79.23	2.76	73.39	4.16
KIF5A	NM_004984	115.36	5.99	68.28	32.18
CCNT1	NM_001240	110.42	1.64	108.53	5.5
B2M	NM_004048	111.94	1.3	85.27	10.38
RPS6KA3	NM_004586	106.3	1.58	99.81	5.52
APLP2	NM_001642	104.76	4.97	94.94	1.55
CSE1L	NM_177436	66.72	4.12	65.68	3.24
KRAS	NM_004985	49.98	25.47	79.42	3.7
CCNK	BC015935	75.6	10.84	72.06	6.38
MAP3K10	NM_002446	87.74	10.53	56.83	1.54
PBK	NM_018492	81.28	8.8	89	0.31
MST1R	NM_002447	82.39	2.2	88.49	6.06
DCAMKL1	NM_004734	68.6	1.91	82.78	4.56
CDC14B	NM_033331	105.14	9.93	107.11	0.75
ERN1	NM_001433	97.65	1.22	76.13	2.07
PIK3C3	NM_002647	75.09	0.9	82.49	6.61
BCL2	NM_000633	97.03	6.41	89.51	3.09
PIM1	NM_002648	111.45	11.55	59.01	1.33
GSK3B	NM_002093	82.88	2.79	77.37	2.04
PIK3CG	NM_002649	119.83	3.93	104	9.77
NEK7	NM_133494	104.59	2.65	91.94	1.8
FGFR2	NM_022972	108.93	0.25	88.13	1.23
ZNF313	NM_018683	80	4.59	73.87	2.68
SCAND1	NM_016558	79.08	1.93	64.24	0.99
ANLN	NM_018685	77.24	3.53	66.47	3.5

STK10	NM_005990	95.98	24.47	58.13	0.8
ACTR3	NM_005721	90.39	1.28	105.25	1.28
MYO3B	NM_138995	80.17	1.05	93.23	5.18
ULK4	NM_017886	81.69	2.23	94.86	1.7
COL9A3	NM_001853	79.15	3.28	68.66	2.05
KIFC2	NM_145754	93.68	4.32	96.14	3.06
DIAPH3	NM_030932	101.1	3.47	119.8	0.73
TOP3B	NM_003935	95.6	1.8	98.29	7.34
SLCO4A1	NM_016354	81.58	9.74	84.33	6.49
CDK5R2	NM_003936	103.92	4.92	104.2	6.34
DLG7	NM_014750	79.62	1.27	26.86	3.49
VAPB	NM_004738	105.46	6.35	93.45	4.09
NOTCH1	AF308602	118.57	2.35	92.72	10.5
CDC5L	NM_001253	68.16	0.79	70.08	2.51
RAP2A	NM_021033	103.56	4.2	100.18	1.1
CDC6	NM_001254	76.69	7.27	82.99	0.72
THRA	NM_003250	91.53	7.9	106.66	8.25
CDC20	NM_001255	91.25	4.79	94.41	14.16
C20orf23	AK000142	88.64	3.18	104.74	13.94
ACTR2	NM_005722	97.15	1.54	67.27	0.09
PLAGL2	NM_002657	102.5	4.52	106.43	12.09
MAP4K1	NM_007181	113.54	3.13	103.75	6.31
PLAU	NM_002658	108.87	7.34	98.53	2.65
ZNF217	NM_006526	91.63	5.23	102.96	2.52
TUBA1	NM_006000	13.94	2.01	18.34	5.94
CEP2	NM_007186	77.73	5.21	90	5.4
MAP3K8	NM_005204	89.44	1.95	104.87	2.98
PRC1	NM_003981	53.73	2.11	74.05	4.05
RPS6KC1	NM_012424	94.98	0.91	107.91	2.34
NCOA5	NM_020967	109.14	3.16	122.26	4.93
CRKL	NM_005207	96.51	2.77	99.65	17.07
POFUT1	NM_015352	103.47	9.89	102.23	13.31
DMPK	NM_004409	99.86	4.46	95.84	2.81
CDC27	NM_001256	36.36	8.47	40.82	1.64
ARAF	NM_001654	101.14	8.76	87.82	0.69
CTNNAL1	NM_003798	105.06	7.82	85.39	1.43
TK1	NM_003258	96.81	9.6	96.43	7.75
STK11	NM_000455	82.26	2.43	90.18	0.59
CDCA8	NM_018101	86.04	11.33	87.82	2
CDK3	NM_001258	99.61	3.17	113.1	1.43
GUK1	NM_000858	97.93	11.02	93.89	5.98
CDK6	NM_001259	105.35	5.44	110.79	14.53
HMGCR	NM_000859	84.93	0.49	60.05	45.07
SDC4	NM_002999	93.29	4.43	73.84	8.92

DLGAP4	NM_014902	73.62	0.11	82.42	3.9
HES6	NM_018645	100.64	4.81	88.81	9.11
CRKRS	NM_016507	78.31	6.87	100.38	5.54
MAD2L2	NM_006341	82.17	4.93	101.25	9.77
CDKL3	NM_016508	111.57	6.18	100.12	10
AXL	NM_021913	96.53	10.28	87.05	1.55
PLCG1	NM_002660	92.86	4.96	75.87	1.65
C20orf11	NM_017896	82.77	1.68	75.01	3.18
PLCG2	NM_002661	77.86	13.25	65.32	0.5
KIF20A	NM_005733	77.11	2.95	77.18	3.51
PLD1	NM_002662	105.29	9.66	87.96	5.37
CHEK2	NM_007194	72.56	1.74	68.42	8.64
CDC91L1	NM_080476	96.66	3.7	101.02	0.92
CDK5	NM_004935	90.76	6.59	94.81	11.32
ESR1	NM_000125	104.83	9.37	92.54	7.82
CDKN2B	NM_004936	104.63	1.46	92.26	7.54E-03
CSF1R	NM_005211	82.67	6.45	72.69	0.31
RASGRP1	NM_005739	92.04	0.29	116.33	6.43
SAMD10	NM_080621	77.54	1.75	88.09	1.91
DAPK1	NM_004938	91.65	14.07	99.54	9.09
RAE1	NM_003610	79	2.97	68.25	11.39
NDRG3	NM_032013	136.35	15.38	105.84	2.07
SNRK	NM_017719	95.29	1.78	106.2	14.67
KIF18A	NM_031217	86.01	6.39	104.03	4.14
SHMT2	NM_005412	118.72	4.84	121.8	7.89
C20orf108	NM_080821	108.52	9.7	70.54	5.53
TGFBR1	NM_004612	104.62	1.19	119.31	0.77
PIK3CA	NM_006218	63.99	0.62	73.66	16.97
CAMK4	NM_001744	100.67	2.32	113.1	2.91
DNTTIP1	NM_052951	87.08	2.56	107.54	1.08
PRIM1	NM_000946	101.51	8.63	95	14.93
PRIM2A	NM_000947	100.21	1.41	92.14	3.45
RNASEL	NM_021133	99.56	8.28	86.44	5.12
CCNI	NM_006835	92.07	1.87	96.45	1.86
RPS6KA2	NM_021135	94.31	4.99	90.63	9.39
TK2	NM_004614	116.28	8.72	91.87	0.01
PIK3CB	NM_006219	99.86	14.63	114.2	0.02
SRC	NM_005417	131.11	3.92	111.52	6.4
ST5	NM_005418	102.9	0.64	95.16	11.37
TNNI3K	NM_015978	104.83	6.6	98.12	0.51
STAT2	NM_005419	92.17	11.19	70.7	2.69
TOP3A	NM_004618	111.41	1.71	116.29	6.55
GPSM2	NM_013296	105.07	2.56	118.77	6.17
STK38L	BC028603	98.3	5.79	103.81	15.8

PPP2CB	NM_004156	106.75	2.12	105.21	10.76
BLCAP	NM_006698	71.14	0.05	67.35	5.29
FBXO5	NM_012177	34.23	2.1	36.57	2.2
TOP1MT	NM_052963	81.72	0.28	90.67	11.62
CCND2	NM_001759	72.55	3.53	69.84	14.48
CKAP2	NM_018204	119.28	2.92	136.4	1.8
TCF3	M31523	91.88	5.23	100.15	2.9
CDK10	NM_003674	113.49	1.56	95.65	1.04
HPRT1	NM_000194	115.87	2.02	94.55	7.1
MAPKAPK2	NM_032960	93.19	9.65	86.59	9.11
CAMK2A	NM_015981	69.28	5.08	59.89	0.23
TOPBP1	NM_007027	102.27	1.83	93.12	9.03
TIE1	NM_005424	92.49	6.1	92.15	12.92
KIF12	NM_138424	113.02	1.15	91.04	12.17
ACVR1B	NM_004302	83.81	4.89	79.86	0.61
KIF2C	NM_006845	58.96	0.04	30.7	8.32
ALK	NM_004304	110.38	15.21	102.58	1.45
CDC7	NM_003503	87.84	13.2	80.17	9.26
MAPRE1	NM_012325	93.39	0.56	76.23	9.25
CDC45L	NM_003504	34.07	5.74	17.35	8.35
MAPRE3	NM_012326	31.63	11.67	30.84	10.12
RIPK2	NM_003821	88.79	4.54	87.99	1.8
RBX1	NM_014248	76.78	7.07	60.04	1.35
STK35	NM_080836	115.74	6.65	31.21	3.99
VAV1	NM_005428	75.6	1.26	48.39	2.82
WNT7B	NM_058238	97.2	9.81	96.34	3.6
CLK4	NM_020666	90.39	5.17	82.84	10.07
TUBB4	NM_006087	64.82	0.04	46.7	2.33
RAF1	NM_002880	62.84	4.64	84.57	12.63
OXSRI	NM_005109	96.17	8.9	110.82	2.93
FZD1	NM_003505	102.96	4.1	123.96	7.41
CTNNA1	NM_001903	102.23	11.04	80.04	6.78
FZD9	NM_003508	80.4	7.46	77.84	1.85
RRAD	NM_004165	84.14	5.8	101.56	0.34
ADA	NM_000022	105.49	1.92	120.84	1.92
CCND3	NM_001760	96.48	2.62	42.02	2.52
RALB	NM_002881	74.69	2.79	59.71	5.03
MKNK1	NM_003684	105.57	1.73	73.2	14.5
RAP1A	NM_002884	105.96	8.45	94.61	5.96
CASK	NM_003688	104.6	0.64	95.08	4.3
AATK	AB014541	81.63	6.56	92.27	8.52
APBA2BP	NM_031231	62.75	3.46	68.51	0.95
POLE	NM_006231	93.83	5.92	92.61	1.35
WNT1	NM_005430	105.09	3.33	111.11	3.34

CCNF	NM_001761	53.31	7.08	55.49	7.78
SHMT1	NM_004169	95.58	12.88	86.21	11.49
AGA	NM_000027	100.2	4	97.81	10.41
RARA	NM_000964	67.88	8.44	67.37	0.77
RARB	NM_000965	95.48	10.94	103.7	6.13
DNCL2A	NM_177953	59.08	0.51	68.29	20.54
FAM64A	NM_019013	67.16	3.66	93.75	10.76
FZD3	NM_017412	80.77	2.7	102.37	9.81
CCNT2	NM_058241	105.56	3.29	109.62	7.64
YES1	NM_005433	49.87	0.61	48.22	4.18
RAB22A	NM_020673	117.65	6.14	112.25	6.1
MAPKAPK3	NM_004635	90.54	1.91	78.36	2.91
RASA1	NM_002890	64.13	33.84	125.86	8.53
RBL1	NM_002895	120.74	10.69	105.66	8.36
IFT52	NM_016004	88.01	6.48	100.33	11.45
RIPK5	AB007941	93.73	1.68	95.52	3.17
C20orf31	NM_018217	98.31	2.55	99.59	1.65
C20orf111	NM_016470	77.07	4.18	85.5	4.02
NEK3	Z29067	93.09	4.19	88.83	2.5
TLK2	NM_006852	60.12	14.09	52.32	2.28
TTN	NM_133378	65.26	2.12	46.81	4.79
	XM_066649	83.69	3.89	87.44	5.3
PLK4	NM_014264	82.78	5.59	36.1	7.03
BAD	NM_032989	106.8	12.55	82.23	0.73
CDK2AP1	NM_004642	38.79	2.27	38.8	0.56
MAPRE2	NM_014268	98.53	6.76	32.14	5.16
BIRC5	NM_001168	47.6	3.76	48.69	2.47
PRKAA2	NM_006252	100.08	0.6	86.75	1.86
KIF3A	NM_007054	127.51	3.38	95.46	9.19
KIF1B	NM_015074	97.64	8.4	101.84	9.2
	M15077	113.92	7.98	103.16	1.33
	AF188479	88.61	5.13	77.27	13.68
CDCA2	NM_152562	79.99	0.12	61.19	2.46
	AI278633	76.26	3.41	62.82	2.31
ELMO2	NM_133171	88.49	0.32	98.76	4.9
LOC158301	AI338451	17.55	0.47	7.89	2.58
NBN	NM_002485	92.84	0.66	110.13	2.84
BRIP1	NM_032043	99.84	9.84	123.02	13.81
HCK	NM_002110	109.75	12.63	98.9	7.99
PRKCD	NM_006254	72.73	5.21	82.13	4.53
PRKCH	NM_006255	120.24	7.23	104.81	0.9
PKN2	NM_006256	118.45	0.82	88.65	21.5
PRKCQ	NM_006257	116.33	8.6	99.02	9.12
PRKG1	NM_006258	104.24	4.31	106.35	7.06

PRKG2	NM_006259	76.15	0.84	68.49	5.41
AXIN2	NM_004655	98	7.06	114.68	5.18
SHFM1	NM_006304	113.39	6.01	91.48	5.36
PCTK3	BC011526	98.02	3.81	89.99	5.18
DNMT3A	NM_175629	101.82	8.17	95.43	0.89
ANAPC7	NM_016238	95	1.86	89.94	2.1
C20orf177	NM_022106	85.65	1.21	81.14	0.09
CPNE1	NM_152925	61.61	2.12	56.38	1.65
KIF1C	AB014606	81.36	3.02	98.38	5.78
KIF17	AB037826	99.69	4.58	119.93	6.57
MAPK14	NM_001315	82.5	3.42	88.37	15.32
DPM1	NM_003859	113.23	1.06	111.05	4.02
PROCR	NM_006404	92.24	2	101.52	2.87
CAMKV	NM_024046	122.08	2.34	119.86	12.07
MGC5566	NM_024049	77.69	6.57	89.55	7.09
KIAA1333	NM_017769	106.03	13.48	119.05	2.09
KALRN	NM_007064	82.14	1.78	93.66	3.61
HES2	BC012091	103.99	5.97	96.89	3.62
WFDC8	NM_181510	111.33	14.83	113.81	0.71
BXDC1P	NM_178472	101.11	9.6	100.44	6.82
HM13	NM_178580	80.55	26.93	108.88	1.64
SULF2	NM_018837	60.8	12.15	27.09	16.41
MYT1	NM_004535	103.39	9.67	114.71	7.86
PHACTR3	NM_080672	90.53	8.09	104.49	0.87
CDC37	NM_007065	105.67	3.79	101.95	4.03
PTK2	NM_005607	83.28	6.87	72.85	13.01
CDC23	NM_004661	83.47	7.28	99.62	1.28
AKT3	NM_005465	102.64	2.53	96.59	9.04
CSTF1	NM_001324	105.45	4.39	113.94	6.44
ACOT8	NM_005469	76.86	3.53	73.4	5.37
CTBP1	NM_001328	107.49	4.85	104.11	0.37
LDLR	NM_000527	99.81	8.8	119.42	6.06
KIF21B	AL137395	100.41	3.31	110.33	4.25
C9orf48	NM_194313	104.01	6.88	99.05	5.8
PIWIL1	NM_004764	76.37	9.69	85.71	4
KIF26B	BC035896	60.55	3.44	49.8	1.59
KIAA0406	NM_014657	88.33	6.09	99.34	2.52
ZNFX1	NM_021035	92.65	5.32	108.04	9.22
C20orf152	NM_080834	96.61	8.32	101.9	7.54
PRIC285	NM_033405	87.81	5.8	93.98	0.49
KIF14	NM_014875	61.18	0.1	49.77	4.27
TRIB3	NM_021158	85.13	2.88	117.78	10.82
VAV2	NM_003371	110.2	4.86	99.54	18.77
PPP2CA	NM_002715	28.32	0.22	30.39	0.18

RAP1GDS1	NM_021159	110.17	5.01	83.14	3.39
MAP2K6	NM_002758	102.62	2.25	75.45	5.83
EIF2AK2	NM_002759	110.92	0.03	105.05	1.81
STK32B	NM_018401	87.7	7.09	110.45	15.18
CDK4	NM_000075	72.09	7.53	57.45	11.86
CDKN1C	NM_000076	87.37	6.33	105.02	6.62
CDKN2A	NM_000077	90.35	7.65	100.14	1.22
MASTL	NM_032844	96.73	7.23	86.97	3.43
FZD4	NM_012193	96.47	4.2	103.98	9.26
PAK1	NM_002576	109.62	9.69	111.23	8.09
PAK2	NM_002577	70.74	0.44	79.73	11.48
APC	NM_000038	71.88	4.89	75.05	6.06
C20orf67	NM_022104	80.32	6.7	83.3	6.98
DATF1	NM_022105	86.14	6.77	89.39	4.38
KIF1A	NM_004321	65.75	5.78	63.11	7.19
NUP153	NM_005124	58.97	7.25	63.97	8.73
KNTC2	NM_006101	10.1	1.43	12.39	0.39
HDAC11	NM_024827	68.46	16.28	33.87	0.17
ADRBK2	NM_005160	104.42	0.79	83.82	7.49
GRK4	NM_005307	94.21	6.97	41.76	0.73
CDH1	NM_004360	105.92	0.37	102.64	1.11
PPARG	NM_015869	98.38	7.29	122.68	16.07
AKT1	NM_005163	78.41	5.04	58.23	6.24
PRKY	NM_002760	79.37	1.41	91.47	5.86
ANAPC10	NM_014885	73.67	6.48	83.85	6.35
BCR	NM_004327	77.01	6.31	88.46	2.69
BMPR1A	NM_004329	113.03	6.64	106.8	1.19
VRK1	NM_003384	75.26	2.06	82.63	2.81
AR	NM_000044	106.97	0.33	100.66	9.75
CDC2	NM_001786	41.09	4.43	58.52	4.92
CDC25A	NM_001789	87.57	4.83	119.69	4.93
GMEB2	NM_012384	42.69	2.13	25.4	3.43
REL	NM_002908	91.35	2.68	78.36	7.29
ULK1	NM_003565	124.28	8.86	80.24	7.34
RPS21	NM_001024	35.34	2.69	27.52	5.95
KIT	NM_000222	96.89	6	104.54	6.19
EGR1	NM_001964	63.43	5.41	68.88	5.31
DKFZp762E1312	NM_018410	90.94	4.99	114.84	6.07
MYO3A	NM_017433	77.88	1.24	88.39	3.64
KIF13A	NM_022113	88.67	1.22	78.1	2.54
ECT2	NM_018098	26.63	1.68	15.84	3.51
HES4	NM_021170	88.82	6.48	77.2	11.36
KIAA1285	NM_015694	103.45	10.6	118.38	7.43
BRAF	NM_004333	73.04	4.93	94.51	7.67

PRKACA	NM_002730	90.76	2.79	91.6	7.03
PIM2	NM_006875	94.41	1.48	94.49	3.12
C20orf20	NM_018270	76.49	3.96	98.89	6.57
VAV3	NM_006113	86.03	4.4	98.42	5.3
MAP3K7IP1	NM_006116	87.81	4.19	52.63	1.55
ILK	NM_004517	107.61	7.88	115.03	12.1
CDC2L5	NM_003718	119.82	10.19	113.56	12.89
RFC4	NM_002916	74.09	1.84	74.29	2.65
RRM1	NM_001033	53.72	0.14	71.04	16.59
PFTK1	NM_012395	109.41	3.1	110.96	5.48
PRKACB	NM_002731	107.36	9.45	113.99	6.25
BUB1	NM_004336	86.07	4.84	62.88	3.03
WEE1	NM_003390	4.74	1.36	2.45	0.38
WNT2	NM_003391	73.12	5.76	24.82	1.95
PRKCA	NM_002737	65.08	3.45	60.03	2.33
CDC25C	NM_001790	93.75	0.09	93.22	2.25
PRKCB1	NM_002738	72.22	3.55	61.9	9.98
PCNA	NM_002592	66.95	5.93	84.33	10.01
RRM2	NM_001034	5.78	0.07	6.5	0.5
LIG1	NM_000234	26.2	26.09	46.88	6.33
KIF2	NM_004520	86.39	1.84	80.14	11.27
KIF5B	NM_004521	83.01	3.83	60.08	2.05
KIF5C	NM_004522	87.8	8.24	100.68	2.68
WFDC2	NM_080733	95.52	3.94	113.16	8.64
KIF11	NM_004523	5.77	1.8	3.17	0.86
CREBBP	NM_004380	67.26	10.23	65.84	6.09
ATM	NM_000051	90.1	0.4	98.33	12.58
CDKL1	NM_004196	94.81	5.8	42.58	3.99
PRKCG	NM_002739	100.16	1.59	102.37	0.42
BLM	NM_000057	91.55	3.6	69.38	9.48
NEK11	NM_024800	98.36	1.65	81.68	7.33
CDK2	NM_001798	89.22	3.3	89.82	9.02
BRCA2	NM_000059	74.37	4.09	82.01	2.61
CSK	NM_004383	82.78	9.47	57.09	0.7
DYRK3	NM_003582	90.15	5.57	76.86	0.1
GRK1	NM_002929	87.57	0.4	116.78	6
ERBB3	NM_001982	91.98	2.57	74.09	6.73
CTNNA2	NM_004389	86.72	4.58	85.44	15.41
CUL4B	NM_003588	71.56	1.62	41.34	0.3
CUL4A	NM_003589	76.47	7.66	85.94	3.89
CDK7	NM_001799	82.4	1.08	35	7.24
C20orf44	NM_018244	107.19	5.34	105.2	4.45
NPEPL1	NM_024663	107.1	12.47	99.24	21.14
CDK5RAP2	NM_018249	82.88	4.41	68.64	4.36

ATAD2	NM_014109	110.54	4.52	100.99	1.16
FAM61B	NM_144703	94.16	0.75	90.49	10.76
EPHA8	NM_020526	116.46	1.41	133.23	6.96
PRKCI	NM_002740	59.82	33.07	53.27	42.19
CCND1	NM_053056	82.74	2.42	102.54	4.11
MLH1	NM_000249	101.48	0.96	113.04	18.13
CDKN1A	NM_078467	120.56	15.77	124.27	16.23
CCNC	NM_005190	78.91	7.88	75.9	7.33
CDKN3	NM_005192	76.8	3.56	88.04	16.44
C20orf52	NM_080748	80.85	2.74	84.64	7.14
CUL3	NM_003590	60.28	2.4	58.93	2.5
CUL2	NM_003591	96.58	8.93	89.44	4.33
PKN1	NM_002741	87.48	8.75	82.21	13.18
ICAM1	NM_000201	92.4	1.16	60.81	23.14
ATP5E	NM_006886	93.65	9.2	62.08	1.07
PRKD1	NM_002742	80.72	8.88	104.36	7.73
PRKCZ	NM_002744	86.29	5.56	91.68	1.89
HBEGF	NM_001945	89.1	7.35	79.18	1.27
MAPK4	NM_002747	57.07	19.97	78.4	14.3
MAPK6	NM_002748	103.58	1.89	97.38	1.89
CUL1	NM_003592	95.17	2.62	111.85	9.96
PSMA7	NM_002792	74.08	3.26	75.17	4.4
MSH2	NM_000251	76.16	2.98	85.77	13.75
DDX6	NM_004397	91.61	6.78	96.34	15.19
SHC3	NM_016848	116.94	2.26	132.88	4.15
HRAS	NM_005343	55.76	8.56	73.42	5.48
ANAPC2	NM_013366	76.33	7.25	78.53	1.48
FES	NM_002005	80.08	12.06	84.97	13.28
INSR	NM_000208	85.39	1.55	51.46	13.51
STAU	NM_017453	105.65	6.7	89.8	8.35
BTRC	NM_033637	120.45	8.66	141.81	6.05
PCMTD2	NM_018257	86.71	1.35	84.44	1.61
SH3KBP1	NM_031892	92.47	1.33	90.36	8.4
MAD1L1	NM_003550	89.79	6.42	118.13	14.01
MAPK8	NM_002750	108.81	4.44	105.1	7.22
HSPCA	NM_005348	33.69	8.68	12.94	4.1
BMPRI1B	NM_001203	62.63	2.67	73.64	14.93
ANAPC4	NM_013367	83.16	10.31	109.71	19.43
FGF2	NM_002006	78.78	2.74	76.17	3.64
BMPRI2	NM_001204	108.68	2.03	133.97	11.14
ROS1	NM_002944	91.4	7.19	140.87	11.48
IRS2	NM_003749	77.93	1.14	81.62	4.69
CCNG2	NM_004354	104.08	3.72	57.35	3.1
MAPK11	NM_002751	73.03	0.74	66.71	1.75

MAPK9	NM_002752	116.55	8.62	135.83	19.4
CD81	NM_004356	70.77	5.33	104.04	12.28
MAPK13	NM_002754	48.67	4.18	57.14	4.62
MAP2K1	NM_002755	71.74	3.94	70.79	3.25
CDC34	NM_004359	89.49	2.58	122.28	25.93
JAK3	NM_000215	108.69	3.55	98.5	0.71
TOP2A	NM_001067	114.89	1.79	146.5	16.95
CDKN2D	NM_079421	67.06	36.59	116.54	13.73
TOP2B	NM_001068	97.36	6.62	72.31	5.47
NF1	NM_000267	103.62	3.64	124.89	10.82
NF2	NM_000268	102.89	8.53	135.01	27.45
CENPJ	NM_018451	101.46	6.66	108.31	15.33
CDKN2C	NM_078626	99.31	3.8	114.05	4.47
NUSAP1	NM_018454	115.17	12.41	81.11	3.49
DCC	NM_005215	60.05	2.32	47.15	1.23
DTX1	NM_004416	108.4	11.41	113.28	0.81
TLK1	NM_012290	96.83	6.66	102.61	10.23
MAP4K3	NM_003618	119.69	5.81	80.05	3.04
TLE1	NM_005077	119.11	2.96	119.75	3.54
OSBPL2	NM_144498	103.89	3.48	101.66	4.49
MAPK15	NM_139021	83.71	0.03	96.21	1.13
CCNB1	NM_031966	105.2	0.66	100.8	3.59
DVL1	NM_004421	97.5	7.74	73.04	0.8
DVL2	NM_004422	72.75	9.75	87.21	8.12
DVL3	NM_004423	133.96	1.29	104.84	6.9
E2F1	NM_005225	85.69	6.67	45.73	11.95
PTK7	NM_002821	80.79	4.36	88.5	7.42
EGFR	NM_005228	87.82	5.87	82.47	6.51
ELK1	NM_005229	82.44	0.28	102.5	10.03
STAT5B	NM_012448	99.66	1.54	88.31	3.71
FGFR3	NM_000142	93.44	1.46	84.36	7.84
RALY	NM_016732	96.39	5.8	107.81	3.65
GNAS	NM_016592	100.13	5.16	89.81	2.57
PIGT	NM_015937	75.23	1.89	71.47	2.18
EPHA1	NM_005232	96.87	1.67	89.96	8.03
MAPK7	NM_139034	97.52	8.08	89.94	3.54
EPHA2	NM_004431	77.52	1.61	74.15	2.45
CDC42BPB	NM_006035	85.85	0.64	86.19	1.5
TBK1	NM_013254	105.12	11.62	113.3	5.31
ERBB4	NM_005235	90.5	3.27	91.95	8.74
SPATA2	NM_006038	76.87	0.81	84.01	3.5
MANBAL	NM_022077	89.75	3.19	93.61	0.82
SGK3	NM_013257	87.19	12.16	106.67	9.85
ETS1	NM_005238	111.93	0.84	118.23	1.87

CBFA2T2	NM_005093	123.13	11.89	117.9	9.7
EPHA4	NM_004438	108.44	10.3	102.75	0.99
POLD1	NM_002691	111.37	6.16	104.18	10.56
CSNK1A1	NM_001892	82	3.05	86.46	4.58
CSNK1D	NM_001893	72.72	4.27	73.55	10.43
CSNK1E	NM_001894	80.04	4.16	63.49	4.84
CSNK2A1	NM_001895	104.44	0.03	78.19	3.05
CSNK2A2	NM_001896	86.97	1.15	74.78	1.11
EPHA7	NM_004440	95.87	1.33	70.57	2.36
HDAC6	NM_006044	90.94	5.88	77.23	5.95
EPHB1	NM_004441	76.56	4.34	74.97	0.4
EPHB3	NM_004443	88.87	6.58	84.05	0.04
RBM12	NM_006047	119.94	2.42	124.3	16.77
EPHB4	NM_004444	92.02	8.84	117.23	2.27
FER	NM_005246	113.89	1.71	109.62	12.47
EPHB6	NM_004445	91.66	1.42	90.35	4.57
FGF3	NM_005247	91.63	8.85	77.09	7.46
FGR	NM_005248	81.13	3.76	57.13	11.28
EPS8	NM_004447	96.6	0.15	63.91	9.53
ERBB2	NM_004448	108.79	5.06	132.76	21.9
ACVR2B	NM_001106	74.31	3.43	72.73	2.82
C20orf14	NM_012469	61.95	4.15	76.32	6.6
PPGB	NM_000308	79.4	5.19	89.91	3.07
C20orf172	NM_024918	99.28	2.74	92.22	1.04
NCOA6	NM_014071	88.63	19.57	91.15	12.54
FOS	NM_005252	111.99	6.6	89.46	0.93
ZNF335	NM_022095	109.28	9.36	83.12	4.31
TXN2	NM_012473	103.39	8.24	62.65	5.96
RIPK4	NM_020639	77.86	1.06	69.26	8.26
POLS	NM_006999	93.41	9.19	105.25	5.68
PTEN	NM_000314	108.3	2.38	76.35	7.94
NR3C1	NM_000176	93.77	5.65	76.43	0.13
GSS	NM_000178	89.42	2.57	99.44	0.44
ADRM1	NM_007002	90.08	5.06	105.1	6.9
PRKCE	NM_005400	101.46	2.3	85.29	0.57
RALA	NM_005402	97.95	5.56	82.95	1.58
PDGFRA	NM_006206	88.16	12.85	61	6.9
RAGE	NM_014226	106.6	2.15	108.9	2.18
ROCK1	NM_005406	98.67	5.45	87.88	11.25
RIPK1	NM_003804	91.21	3.74	101.9	0.91
HMMR	NM_012484	80.14	8.37	99.74	3.22
RB1	NM_000321	114.88	6.48	96.56	3.69
RET	NM_000323	101.42	1.29	77.04	2.01
RAB2	NM_002865	110.22	12.48	111.16	14.67

RAB3A	NM_002866	96.4	6.34	110	0.45
GUCY2D	NM_000180	56.07	4.43	70.97	6.96
ATR	NM_001184	82.2	2.96	63.46	9.5
ALS2CR2	NM_018571	119.7	0.36	57.31	29.32
RRM2B	AL137348	96.69	7.87	93.9	11.79
PCTK1	NM_033018	101.28	0.14	109.6	8.33
KIF25	NM_030615	83.97	25.4	71.65	12.35
GRAP2	NM_004810	127.94	3.88	118.86	16.2
RHEB	NM_005614	89.44	6.15	75.21	26.43
PLK2	NM_006622	111.25	5.5	114.41	3.4
ITGB4BP	NM_181467	90.89	0.18	103.59	1.55
ANAPC1	NM_022662	73.74	2.25	77	2.14
RASGRP2	NM_005825	53.8	43.87	102.86	9.6
DYRK2	NM_006482	114.9	4.92	56.47	5.23
LTK	NM_002344	70.99	5.47	70.92	5.96
MAP2K3	NM_145110	86.63	3.65	83.04	6.21
DEPDC1	NM_017779	118.58	0.56	100.88	0.76
SFRS6	NM_006275	127.11	4.14	106.97	5.13
HDAC5	NM_005474	76.29	0.35	62.21	1.77
STAT3	NM_139276	137.92	8.44	72.04	6.2
CTNND1	NM_001331	121.87	7.62	96.27	7.79
DIRAS3	NM_004675	77.59	3.61	74.27	0.09
CTNND2	NM_001332	74.6	11.95	91.49	30.04
FRAT1	NM_005479	96.47	8.23	95.13	6.64
TPX2	NM_012112	11.83	2.29	3.25	0.88
CDC25B	NM_021874	115.83	3.73	98.52	1.93
BRCA1	NM_007296	85.38	1.71	55.52	3.06
STAT4	NM_003151	100.61	1.73	80.94	4.37
CCRK	NM_012119	108.35	5.21	106.71	2.75
LYN	NM_002350	88.4	4.69	103.72	6.74
STAT5A	NM_003152	61.98	6.69	62.37	9.5
STAT6	NM_003153	101.31	3.77	99.86	4.38
PMS1	NM_000534	115.84	5.64	100.8	5.61
CTSZ	NM_001336	89.48	2.55	52.54	3.34
PMS2	NM_000535	88.82	0.6	69.48	4.5
CHD6	NM_032221	94.57	9.47	78.8	6.57
EGR2	NM_000399	98.11	1.53	85.02	1.48
ARFGEF2	NM_006420	89.97	0.86	79.31	17.63
C20orf45	NM_016045	112.76	9.14	126.46	11.71
TACSTD1	NM_002354	79.79	0.06	47.16	12.55
NEK4	NM_003157	93.04	0.11	97.89	6.06
TUBA8	NM_018943	49.29	4.02	52.94	14.32
WT1	NM_024426	100.72	10.55	93.71	0.88
C20orf43	NM_016407	85.82	2.59	76.6	12.25

ZGPAT	NM_181484	59.07	2.55	68.17	0.3
FZR1	NM_016263	105.2	1.99	101.96	2.14
TGIF2	NM_021809	121.16	3.1	70.71	1.18
STK4	NM_006282	81.54	5.56	77.11	0.59
CCT7	NM_006429	77.96	6.5	53.82	2.96
SGK	NM_005627	118.16	9.13	104.85	9.19
TESK1	NM_006285	81.48	0.66	57.24	2.03
WISP2	NM_003881	81.17	3.05	82.44	1.83
WISP1	NM_003882	91.81	0.03	105.34	2.62
HDAC3	NM_003883	85.47	2.06	83.45	2.07
PTK2B	NM_004103	88.83	10.9	85.21	0.76
LEF1	NM_016269	94.2	1.94	85.62	4.79
NFKB2	NM_002502	102.45	5.35	88.57	6.39
AURKC	NM_003160	82.99	1.38	59.28	0.28
NR3C2	NM_000901	72.85	2.07	38.52	1.56
RPS6KB1	NM_003161	92.33	1.89	97.79	9.17
KIF21A	AK000059	97.93	5.89	72.73	4.96
IRAK1	NM_001569	99.32	4.3	48.45	7.88
TCF1	NM_000545	92.52	2.62	84.99	7.28
TP53	NM_000546	122	7.85	121.55	6.08
DAPK3	NM_001348	80.82	6.07	76.87	2.1
CCNB3	NM_033031	106.75	2.9	74.66	8.31
CCT4	NM_006430	46.59	6.97	49.68	4.19
CCT2	NM_006431	47.28	0.87	50.57	1.18
KIF13B	NM_015254	111.83	5.73	47.9	1.39
SOS1	NM_005633	92.84	0.75	91.85	7.65
SGK2	NM_016276	94.46	4.27	81.49	0.9
FLT3	NM_004119	108.01	7.92	97.66	3.17
TTK	NM_003318	85.39	0.86	67.92	6.81
BLK	NM_001715	50.24	0.64	51.94	6.8
IRAK2	NM_001570	102.63	4.55	93.7	4.13
SYK	NM_003177	85.32	2.74	77.18	1.22
BMP7	NM_001719	100.09	6.45	107.86	1.19
MATK	NM_002378	91.81	15.33	93.36	4.86
YTHDF1	NM_017798	108.13	9.81	108.75	1.53
TSG101	NM_006292	120.59	6.24	94.36	3.14
TYRO3	NM_006293	75.74	1.76	69.84	3.7
SFRS10	U61267	32.66	0.04	37.96	1.98
EIF2AK3	NM_004836	124.86	15.06	130.38	4.38
CDCA3	NM_031299	84.15	8.31	82.81	0.2
VRK2	NM_006296	92.46	1.63	97.45	2.9
NFS1	NM_021100	111.78	9.26	102.04	8.63
MAP3K1	AF042838	111.38	3.34	104.84	11.85
COX4I2	NM_032609	108.68	9.23	71.12	4.55

GTSE1	NM_016426	73.34	0.71	67.21	9.41
TAOK3	NM_016281	103.5	6.6	89.86	1.51
AXIN1	AF009674	105.14	13.91	85.3	12.62
TOMM34	NM_006809	86.27	8.8	104.6	6.05
SMC4L1	NM_005496	110.16	5.63	87.87	4.1
VHL	NM_000551	122.25	2.53	86.21	5.6
GDF5	NM_000557	111.24	8.97	113.01	7.78E-03
HDAC7A	NM_015401	70.35	3.31	42.23	8.76
RASAL2	NM_004841	93.23	7.1	84.33	0.47
ID1	NM_002165	85.78	2.12	69.83	2.48
ROCK2	NM_004850	106.29	3.33	110.23	12.56
LIMK1	NM_002314	99.2	5.7	105.17	3.06
DTYMK	NM_012145	21.32	3.57	21.05	9.84
BMX	NM_001721	95.64	8.36	95.74	13.02
NRAS	NM_002524	103.19	11.01	70.51	5.75
WNK3	AJ409088	101.97	6.57	94.2	6.46
PAK6	NM_020168	83.01	18.94	84.23	9.54
TXK	NM_003328	81.76	6.57	99.19	0.89
NTRK1	NM_002529	83.68	4.56	94.16	5.81
TAF4	NM_003185	83.44	6.43	85.54	9.73
SPAG4	NM_003116	103.66	1.49	84.52	27.21
KIF23	NM_004856	66.74	6.77	56.77	6.32
TCFL5	NM_006602	83.79	4.86	76.83	11.36
MAP2K2	NM_030662	104.48	7.14	109.26	16.77
CDK5RAP1	NM_016082	100.26	5.63	96.33	2.78
SPAG5	NM_006461	34.09	0.89	38.65	1.15
RASD1	NM_016084	101.22	2.6	121.78	4.05
C20orf158	NM_152302	68.58	2.31	62.57	1.51
PGR	NM_000926	92.69	0.87	96.7	7.3
MCC	NM_002387	117.94	17.11	105.9	6.67
MCM3	NM_002388	111.34	0.1	81.68	5.87
DCK	NM_000788	106.28	2.12	97.82	14.88
TDE1	NM_006811	107.99	3.35	94.51	4.68
PHF20	NM_016436	85.33	4.02	64.95	1.14
KIAA1804	AJ311798	94.8	7.01	102.68	8.87
TUBG2	NM_016437	105.41	12.09	80.82	6.47
MAP3K2	NM_006609	91.93	5.76	87.85	7.8
HDAC2	NM_001527	98.59	5.59	82.42	1.74
YSK4	NM_025052	106.66	15.63	122	6.04
NLK	NM_016231	107.39	4.1	100.57	2.93
PDRG1	NM_030815	115.24	8.69	95.16	5.92
GRAP	NM_006613	63.67	3.6	54.08	18.17
ANAPC5	NM_016237	106.02	6.31	74.99	11.72
NCOA3	NM_181659	90.73	0.99	95.44	5.1

CTNNBL1	NM_030877	106.43	4.01	91.2	4.79
TYK2	NM_003331	71.86	0.24	80.18	2.67
NTRK3	NM_002530	119.18	11.82	104.15	1.51
RGS19	NM_005873	132.04	1.37	121.99	6.03
EIF2C2	NM_012154	121.25	13.29	117.01	1.01
MDM2	NM_002392	93.35	7.32	105.28	1.83
STK38	NM_007271	118.44	4.69	124.96	18.41
PRKD3	NM_005813	110.41	11.61	101.11	6.33
RPS6KA6	NM_014496	124.93	6.06	120.92	5.47
HIF1A	NM_001530	109.35	1.56	67.1	11.42
SRPK1	NM_003137	121.55	8.78	112.02	2.45
DYRK1A	NM_001396	102.78	1.95	105.11	1.02
CTBP2	NM_022802	89.59	4.94	112.89	3.14
NOTCH2	NM_024408	107.45	18.96	99.99	6.3
TBP	NM_003194	84.43	4.79	73.19	0.56
POLR2A	NM_000937	9.77	2.3	9.27	4.4
POLR2B	NM_000938	56.4	0.29	56.35	1.39
C20orf161	NM_033421	80.7	2.53	78.63	2.34
PKIG	NM_181804	109.52	0.57	122.35	15.17
SGOL2	NM_152524	80.94	2.61	91.67	12.09
TMEPAI	NM_020182	99.75	0.26	91.6	9.69
PAK4	NM_005884	75.63	9.36	76.9	6.93
TCEB1	NM_005648	84.61	1.18	100.78	6.45
UBE2L3	NM_003347	81.27	7.88	91.25	8.32
KIF11	NM_004523	17.43	6.63	14.33	6.41
PSENEN	NM_172341	77.43	1.48	89.74	4.07
FUCA1	NM_000147	99.95	1.83	104	4.42
GAA	NM_000152	93.1	0.82	95.48	2.17
GALK1	NM_000154	83.71	0.26	51.79	9.08
GALT	NM_000155	94.29	5.86	96.77	10.67
GBA	NM_000157	67.99	2.98	67.68	6.85
GBE1	NM_000158	96.53	2.54	117.58	1.84
GCDH	NM_000159	106.1	9.26	118.5	10.72
COX6A1	AF020589	75.7	2.52	62.03	10.25
PCCB	NM_000532	99.85	3.15	97.08	8.67
ZNF265	AF065391	97.56	6.4	84.91	5.42
SMPD1	NM_000543	103.04	5.72	90.35	14.24
PRO0650	AF090941	107.58	8.85	117.25	0.66
TAP2	NM_000544	85.14	2.07	97.57	7.24
IBTK	AF235049	98.92	17.44	107.32	8.77
TSC2	NM_000548	111.23	3.33	117.3	10.14
MTHFS	AF249277	103.15	0.13	97.23	4.76
WRN	NM_000553	118.82	5.51	109.01	0.57
THOC2	AF441770	84.53	6.25	80.52	0.67

GSTM1	NM_000561	105.34	2.81	102.32	6.28
TXNDC4	AJ344330	101.98	6.51	112.32	0.24
DAF	NM_000574	91.07	2.21	99.19	0.53
GLA	NM_000169	112.16	5.49	108.54	7.32
GPI	NM_000175	109.08	3.55	106.92	0.56
GUSB	NM_000181	110.51	4.04	128.14	0.19
HADHA	NM_000182	128.14	1.02	125.7	15.29
HK2	NM_000189	95.96	14.36	100.6	9.63
HMBS	NM_000190	111.53	0.81	110.78	8.19
HPS1	NM_000195	139.66	4.05	130.68	2.57
ITGA6	NM_000210	100.92	5.42	89.78	1.71
C14orf125	AK000343	112.36	5.48	69.79	15.95
TAP1	NM_000593	93.66	1.83	35.87	4.5
FNBP3	AK000592	47.06	5.17	50.49	3.6
IL10RB	NM_000628	110.99	5.3	104.19	0.75
FAM62B	AK001181	111.76	2.07	101.55	7.39
IFNAR1	NM_000629	97.92	3.56	103.96	1.41
FLJ12649	AK022463	87.59	4.72	80.29	2.61
SOD2	NM_000636	89.78	5.92	83.95	3.79
UNC84A	AK022469	97.47	7.56	105.58	5.24
ACY1	NM_000666	100.72	6.26	62.88	2.98
ZDHHC5	AK023130	99.76	6.7	96.32	4.61
ALDH1B1	NM_000692	63.23	4.92	81.15	2.01
ATP11A	AK024264	94.43	7.28	93.54	2.82
ALDH3B1	NM_000694	107.47	0.71	119.59	2.48
MAK10	AK025266	105.93	7.08	112.17	0.05
ALDH9A1	NM_000696	76.75	8.41	93.4	0.06
LAMA3	NM_000227	108.36	4.8	115.71	7.84
SGCB	NM_000232	125.39	7.79	103.95	2.79
MEN1	NM_000244	74.31	3.86	57.67	12.08
MET	NM_000245	101.86	11.29	88.37	10.93
MICA	NM_000247	105.91	4.69	107.36	6.83
MTM1	NM_000252	86.68	2.67	72.74	3.59
MTR	NM_000254	112.35	13.71	75.27	9.6
RAB6IP1	AK025499	99.31	2.6	94.18	3.74
ATP1A1	NM_000701	84.37	2.63	72.24	2.05
C17orf27	AK025676	112.01	5.96	90.11	4.83
BCKDHA	NM_000709	99.33	13.14	100.77	4.14
NUP160	AK026236	78.14	2.17	84.92	1.29
BLVRA	NM_000712	84.62	16.22	75.9	4.36
KIAA1815	AK026962	47.9	1.93	52.71	1.7
CACNB3	NM_000725	109.05	15.21	87.24	0.48
KIAA1794	AK027564	101.08	13.28	92.75	8.28
CHRNA5	NM_000745	76.27	4.29	75.78	0.2

KIAA1715	AK056532	75.21	1.05	85.88	1.41
COMT	NM_000754	85.73	0.69	103.81	3.59
TIMP2	AK057217	94.59	0.81	108.2	1.6
CYP51A1	NM_000786	95.72	3.1	81.6	1.49
MUT	NM_000255	60.75	8.69	73.67	1.39
MYO5A	NM_000259	74.37	2.36	70.94	10.83
NAGLU	NM_000263	57.74	1.59	58.09	2.51
NME1	NM_000269	95.01	3.46	80.62	4.12
OAT	NM_000274	81.63	2.93	56.5	1.36
PCBD1	NM_000281	53.22	3.09	61.37	5.61
PDHA1	NM_000284	101.75	0.43	104.85	12.96
PEPD	NM_000285	80.65	5.19	41.01	8.48
TMEM76	AK057293	83.96	3.39	94.12	1.92
FOLR1	NM_000802	99.89	5.56	108.23	7.25
SLC39A10	AK074996	83.43	2.08	76.96	6.42
GGCX	NM_000821	81.8	10.2	58.88	12.68
ARID2	AK075385	104.14	7.97	130.72	5.62
GSTM3	NM_000849	29.48	12.53	24.52	10.59
PSMB7	AK090539	75.81	7.96	77.54	2.09
GSTM4	NM_000850	100.35	7.33	89.09	6.62
KIRREL	AK090554	69.68	4.02	74.12	4.09
GSTM5	NM_000851	110.37	4.64	96.56	2.55
KIAA0241	AK090619	100.72	11.26	110.51	7.84
GSTT2	NM_000854	92.31	2	112.09	0.13
	AK098160	101.81	7.87	118	7.03
IGF2R	NM_000876	95.02	15.34	103.82	6.01
HEATR1	AK098212	82.64	3.84	84.85	3.9
LTA4H	NM_000895	101.14	2.78	91.38	4.03
PEX12	NM_000286	109.87	4.82	109.14	1
PFKM	NM_000289	54.06	27.85	83.39	3.73
PGK1	NM_000291	88.24	9.65	190.05	98.42
PHKA2	NM_000292	87.14	7.53	52.86	13.81
PHKB	NM_000293	88.76	1.25	99.11	5.95
PLOD1	NM_000302	79.18	2.72	75.83	9.56
PMM2	NM_000303	99.63	1.44	98.3	5.66
PMP22	NM_000304	76.99	2.7	76.84	0.41
NBPF14	AL117237	86.3	0.7	60.91	1.82
MAOB	NM_000898	98.16	2.31	99.64	6.16
KIAA1219	AL132998	102.82	11.38	70.48	8
NQO1	NM_000903	64.16	1.28	65.8	2.58
XPO6	AY026388	95.96	5.97	103.29	2.8
NQO2	NM_000904	54.03	0.13	63.4	1.32
KIAA0152	BC000371	100.27	3.01	99.85	2.14
NPR1	NM_000906	72.14	17.64	85.93	1.33

PRNPIP	BC001072	82.87	7.35	75.35	3.46
P4HA1	NM_000917	99.63	9.36	100.22	12.66
KIAA0494	BC002525	101.13	6.95	106.89	3.63
P4HB	NM_000918	74.93	1.26	96.97	1.21
TOMM70A	BC003633	77.77	8.73	101.97	5.26
PAM	NM_000919	92.67	2.67	105.9	12.58
PLXNB2	BC004542	89	12.43	107.99	2.46
PC	NM_000920	72.26	5.89	70.7	0.69
PON2	NM_000305	84.84	4.18	71.71	15.54
PPOX	NM_000309	123.61	7.53	118.97	7.84
PRNP	NM_000311	114.42	8.6	101.19	7.41
PTS	NM_000317	99.33	2.36	85.09	0.71
PXMP3	NM_000318	71.81	1.26	85.7	2.77
QDPR	NM_000320	102.21	2.52	97.31	0.2
SLC12A3	NM_000339	87.08	3.3	90.53	1.16
MGC3413	BC004969	94.42	1.75	98.73	0.88
PDHB	NM_000925	110.47	2.08	112.68	8.01
hCAP-D3	BC011408	85.75	6.49	85.09	3.46
PLCB3	NM_000932	83.56	8.36	80.01	4.73
ZNF262	BC012093	82.28	5.03	67.92	7.94
POR	NM_000941	96.64	7.07	70.28	8.5
RSPRY1	BC013173	73.75	3.73	102.26	2.93
PIIB	NM_000942	67.6	1.68	77.59	3.22
PREPL	BC013193	100.34	5.2	125.94	4.24
PPIC	NM_000943	99.43	10.3	87.88	0.22
GAPVD1	BC021119	107.28	2.68	125.81	1.75
PRRG1	NM_000950	79.75	0.57	70.07	8.37
KIAA0368	BC021127	59.89	16.26	78.13	0.39
PTGIR	NM_000960	67.5	5.43	78.55	1.92
STS	NM_000351	94.42	10.98	105.41	3.01
TPMT	NM_000367	93.84	8.52	81.01	7.64
TSC1	NM_000368	95.62	4.06	74.71	9.27
UMPS	NM_000373	83.01	4.36	96.22	0.86
UROD	NM_000374	103.14	2.58	98.22	3.63
UROS	NM_000375	57.89	8.22	57.69	3.29
MID1	NM_000381	102.5	6.51	85.96	4.27
BLMH	NM_000386	92.48	11.88	94.8	12.02
C4orf9	BC026035	80.73	3.39	80.6	5.21
PTGS2	NM_000963	94.14	1.15	90.9	0.13
SLC7A6	BC028216	108.34	2.98	120.46	2.92
RARG	NM_000966	78.99	3.92	97.06	11.82
KIAA0256	BC033001	119.1	6.76	105.93	12.34
SLC12A2	NM_001046	93.62	8.92	97.9	2.17
GDA	BC033310	84.31	1.8	103.4	1.09

SRD5A1	NM_001047	88.32	16.45	90.9	8.33
NXPH4	BC036679	85.67	18.41	82.84	9.92
SSTR5	NM_001053	98.35	1.61	114.34	0.74
PTENP1	BC038293	111.29	9.85	102.19	1.21
SULT1A2	NM_001054	76.71	11.51	76.58	4.45
C17orf49	BC040036	75.29	4.79	82.69	0.08
SULT1A1	NM_001055	106.39	0.53	90.25	6.31
OAZ1	D78361	84.7	16.37	80.92	2.74
TKT	NM_001064	59.29	2.04	44.89	0.74
CHM	NM_000390	97.61	0.53	106.77	5.6
ABCC2	NM_000392	84.35	4.11	99.06	4.42
CYB5R3	NM_000398	90.74	10.31	82.7	1.46
G6PD	NM_000402	85.14	8.67	96.61	0.75
GALE	NM_000403	87.82	10.42	96.23	2.48
GLB1	NM_000404	88.86	7.39	90.93	11.53
GPD2	NM_000408	56.21	5.18	68.99	7.36
HLCS	NM_000411	103.66	2.91	118.41	3.82
ACADVL	NM_000018	57.61	2.61	58.3	10.45
TNFRSF1A	NM_001065	87.19	1.91	92.26	5.89
ACAT1	NM_000019	121.15	17.24	120.9	3.95
TUBB2A	NM_001069	113	14.77	123.24	0.17
ADSL	NM_000026	73.37	3.19	91.13	4.09
PLOD3	NM_001084	59.78	8.2	50.26	6.53
ALDOA	NM_000034	91.67	2.17	84.28	1.43
ACO2	NM_001098	102.16	0.77	99.43	5.46
FAS	NM_000043	93.57	10.45	103.46	5.41
ACTN3	NM_001104	116.53	12.86	123.6	7.01
ASL	NM_000048	95.65	7.57	79.33	3.21
ADAM10	NM_001110	99	8.48	96.21	10.39
ASS	NM_000050	73.21	9.97	67.36	7.4
TETRA	NM_001120	88.48	3.4	91.74	1.38
BCKDHB	NM_000056	88.33	3.35	106.23	11.08
ADM	NM_001124	83.25	8.05	46.31	13.34
HSD17B4	NM_000414	84.33	0.21	83.3	0.67
IFNGR1	NM_000416	104.7	1.47	90.4	3.28
IL4R	NM_000418	113.78	9.55	124.85	0.02
L1CAM	NM_000425	110.93	5.81	109.4	0.46
NEU1	NM_000434	101.99	3.99	109.75	4.19
OXCT1	NM_000436	85.7	11.52	67.59	3.46
SOD1	NM_000454	74.2	4.44	91.15	7.79
BTD	NM_000060	71.38	2.56	79.22	1.15
ADSS	NM_001126	103.12	10.65	92.34	0.73
CLN3	NM_000086	103.48	10.07	96.59	6.63
AP1B1	NM_001127	92.81	6.99	41.86	1.69

CPOX	NM_000097	105.27	13.78	108.29	9.67
AP1G1	NM_001128	97.47	8.46	115.03	7.42
CST3	NM_000099	107.16	1.53	115.22	6.58
AMFR	NM_001144	97.28	2.48	58.66	2.62
DDB2	NM_000107	80.49	10.18	93.75	4.13
ARHGAP5	NM_001173	106.49	4.71	103.04	2.32
DLD	NM_000108	117.3	0.52	132.63	0.89
ARL1	NM_001177	75.38	12.04	91.35	9.47
TOR1A	NM_000113	93.92	11.26	109.88	12.46
ALDH7A1	NM_001182	100.22	5.63	103.34	9.53
SUOX	NM_000456	86.22	3.91	71.25	3.94
AK1	NM_000476	82.95	4.72	89.05	11.49
APP	NM_000484	76.9	7.61	80.75	5.72
APRT	NM_000485	111.99	2.88	92	9.11
GALNS	NM_000512	86.87	5.3	102.15	4.68
HEXA	NM_000520	103.8	14.82	118.52	9.84
HEXB	NM_000521	88.04	6.05	89.34	13.75
HOXA13	NM_000522	78.29	2.57	84.32	4.35
TAZ	NM_000116	61.52	0.46	38.55	0.12
ATP6AP1	NM_001183	64.48	3.24	73.43	1.96
EMD	NM_000117	102.64	0.05	101.44	6.41
BCAT2	NM_001190	119.52	2.01	123.35	16.26
EPHX1	NM_000120	119.49	0.95	121.57	3.35
C1QBP	NM_001212	95.37	10.42	112.14	0.85
EPOR	NM_000121	105.74	4.58	109.17	1.4
CA9	NM_001216	99.04	5.62	110.5	7.89
ERCC3	NM_000122	90.76	2.7	92.29	1.88
CA11	NM_001217	89.63	2.09	98.04	4.53
ERCC6	NM_000124	61.54	2.52	65.34	6.09
CASP4	NM_001225	110.66	10.9	101.59	18.85
EXT1	NM_000127	106.59	11.08	120.82	13.53
CASP6	NM_001226	103.77	10.33	108.24	8.03
FH	NM_000143	82.64	0.25	95.34	0.08
CASP9	NM_001229	91.37	8.88	100.41	0.45
CAV2	NM_001233	107.4	4.46	110.72	1.23
GOT2	NM_002080	108.35	3.04	121.13	1.65
SERPINH1	NM_001235	108.08	3.33	119.86	0.61
GPX4	NM_002085	118.49	1.87	122.09	1.66
CD68	NM_001251	82.1	12.09	57.97	10.33
GRN	NM_002087	109.31	8.11	112.14	0.28
CHD1	NM_001270	92.61	7.89	88.04	0.4
GYS1	NM_002103	103.92	3.96	110.39	1.95
CHD2	NM_001271	101.4	2.96	94.92	9.02
HARS	NM_002109	118.61	0.66	75.38	2.68

CHKA	NM_001277	62.95	6.57	72.59	0.51
HD	NM_002111	97.44	5.1	96.12	0.02
AP1S1	NM_001283	88.11	8.03	78.16	9.59
HLA-A	NM_002116	103.09	5.35	97.48	15.47
ATP5F1	NM_001688	69.83	1.97	70.57	18.67
PIGF	NM_002643	116.82	3.22	99.09	3.95
ATP5G3	NM_001689	119.61	6.83	112.63	11.59
PIK3C2B	NM_002646	92.27	6.32	57.98	13.49
ATP6V1A	NM_001690	95.85	3.93	99.48	1.18
PIK4CB	NM_002651	93.24	1.01	111.95	7.96
ATP6V1B2	NM_001693	96.33	7.61	33.4	13.85
PLAUR	NM_002659	110.7	3.51	99.09	9.43
ATP6V1C1	NM_001695	75.14	0.03	79.98	6.66
PLP2	NM_002668	94.86	1.27	117	13.56
ATP6V1E1	NM_001696	70.52	7.97	71.65	4.91
PLS1	NM_002670	90.63	2.74	98.07	1.67
ATP5O	NM_001697	93.46	3.41	121.93	2.92
PLXNB1	NM_002673	105.55	5.45	86.29	1.19
CLIC1	NM_001288	107.25	7.28	99.2	6.96
HLA-DOA	NM_002119	90.58	8.96	103.22	5.76
CLNS1A	NM_001293	104.01	6.69	104.85	1.11
HMOX2	NM_002134	97.19	3.6	94.28	2.82
COX10	NM_001303	121.77	6.26	118.63	0.39
NR4A1	NM_002135	108.31	8.97	98.07	8.7
CPD	NM_001304	115.93	7.51	113.57	3.67
HPD	NM_002150	107.57	2.26	110.95	0.42
CLDN4	NM_001305	91.11	9.08	95.06	0.51
IDH2	NM_002168	108.66	0.49	95.82	7.88
CLDN7	NM_001307	87.27	7.87	90.72	11.8
IGHMBP2	NM_002180	91.87	6.71	75.72	1.99
CSNK2B	NM_001320	87.43	4.32	78.62	6.19
IL6ST	NM_002184	107.41	7.02	124.06	1.2
CXADR	NM_001338	106.85	3.18	130.1	1.73
INPP1	NM_002194	103.69	2.86	106.79	1.62
AUH	NM_001698	76.04	0.86	60.75	8.56
POLR2C	NM_002694	60.64	1.23	55.76	1.33
BF	NM_001710	112.32	3.55	102.73	10.87
PPAT	NM_002703	95.2	0.47	85.63	2.71
C1S	NM_001734	136.05	1.65	129.48	16.51
PPM1B	NM_002706	88.84	2.59	101.8	0.73
CAMLG	NM_001745	87.16	1.41	79.94	1.63
PPM1G	NM_002707	128.33	6.24	109.68	0.94
CANX	NM_001746	105.25	0.34	82.54	0.25
PPP1CB	NM_002709	47.21	3.95	52.26	1.19

CAPN2	NM_001748	90.78	7.9	89.15	8.49
PPP1CC	NM_002710	78.87	3.67	100.7	8.73
CARS	NM_001751	102.96	0.83	117.64	8.69
PPP2R2A	NM_002717	103.28	5	111.59	7.2
CAT	NM_001752	108.24	0.27	124.95	5.94
PPP2R5C	NM_002719	91.55	3.34	104.59	0.67
DAB2	NM_001343	111.68	6.26	115.09	2.06
ACO1	NM_002197	79.17	2.4	88.41	0.57
DAD1	NM_001344	113.75	7.6	122.53	5.97
ITGAV	NM_002210	57.54	1.82	46.2	6.58
DHX15	NM_001358	77.76	0.43	58.87	8.68
ITGB5	NM_002213	66.95	1	81.88	8.71
DECR1	NM_001359	83.55	5.54	82.57	12
IVD	NM_002225	120.4	9.65	118.1	13.64
DHCR7	NM_001360	103.49	3.17	112.63	10.81
LAMP2	NM_002294	102.51	4.33	115.47	10.8
DKC1	NM_001363	90.94	6.48	93.77	1.73
LBR	NM_002296	76.62	3.24	50.85	16.34
DNASE2	NM_001375	96.66	6.35	99.52	10.38
LDHB	NM_002300	110.28	3.76	121.61	3.89
CAV1	NM_001753	106.46	3.44	96.7	12.36
PPP4C	NM_002720	135.69	2.36	135.36	9.89
CD9	NM_001769	63.79	0.83	83.34	4.97
PPP6C	NM_002721	109.22	7.75	99.93	9.1
CD33	NM_001772	91.2	0.23	105.93	5.35
PREP	NM_002726	116.28	2.81	132.05	5.18
CD47	NM_001777	76.21	4.71	62.13	2.35
PRKAR1A	NM_002734	86.9	2.33	85.51	7.01
CD58	NM_001779	84.68	3.16	63.43	11.42
PRPS1	NM_002764	96.68	3.56	93.12	3.52
CD63	NM_001780	100.91	13.32	94.17	8.38
PRPS2	NM_002765	84.93	10.35	52.23	3.43
CTSC	NM_001814	73.75	6.39	98.08	2.65
PRPSAP1	NM_002766	113.23	3.79	126.92	5.65
DOCK1	NM_001380	93.26	1.49	94.12	4.2
LIFR	NM_002310	91.69	10.25	86.67	2.17
DPH2	NM_001384	105.68	12.22	107.45	2.15
LOX	NM_002317	115.04	6.3	113.34	1.47
DPYSL2	NM_001386	109.85	4.81	101.27	4.99
LOXL2	NM_002318	91.58	2.71	100.24	7.56
ECE1	NM_001397	107.8	1.82	102.61	7.9
LRCH4	NM_002319	111.31	0.94	90.41	0.73
EIF4G2	NM_001418	108.69	4.28	116.8	3.31
LRP3	NM_002333	97.94	5.66	76.57	4.85

EMP2	NM_001424	101.74	2.02	102.54	4.11
LRP5	NM_002335	100.99	0.13	117.99	7.19
EMP3	NM_001425	86.12	2.59	106.06	2.12
LRP6	NM_002336	130.72	3.43	125.8	2.61
EPB41L2	NM_001431	67.21	3.96	87.76	7.09
LRPAP1	NM_002337	91	7.56	102.56	6.73
CEACAM4	NM_001817	87.96	4.53	96.92	3.04
PRPSAP2	NM_002767	110.63	1.74	116.87	6.41
CHML	NM_001821	111.84	0.75	120.43	5.2
PCOLN3	NM_002768	94.33	2.14	100.61	3.98
CHN1	NM_001822	59.48	4.12	45.58	8.16
HTRA1	NM_002775	95.93	2.76	95.11	3.12
CKB	NM_001823	104.45	4.77	109.34	12.17
PSMA2	NM_002787	74.81	0.52	83.43	5.68
CLU	NM_001831	86	7.92	77.24	3.41
PSMA3	NM_002788	88.73	5.7	83.21	0.84
SLC31A1	NM_001859	50.26	6.77	55.88	14.08
PSMA4	NM_002789	83.11	0.41	91.49	12.44
COX4I1	NM_001861	104.89	14.64	113.47	2.93
PSMA5	NM_002790	116.39	2.28	125.46	3.64
COX6B1	NM_001863	117.88	2.66	123.43	9.78
PSMB1	NM_002793	67.77	7.9	51.4	29.33
EXTL2	NM_001439	82.36	1.3	74.04	0.71
LSS	NM_002340	90.33	3.16	75.97	9.48
EXTL3	NM_001440	100.89	4.47	83.01	0.49
LTBR	NM_002342	97.23	4.11	43.04	6.55
FLNA	NM_001456	80.87	2.22	85.78	3.3
LY6E	NM_002346	119.28	11.53	102.32	0.36
FLNB	NM_001457	47.95	3.72	62.98	4.39
M6PR	NM_002355	103.16	5.93	95.63	5.84
GDI1	NM_001493	62.27	10.53	58.2	4.92
MARCKS	NM_002356	61.61	19.55	78.71	6.14
GDI2	NM_001494	103.51	5.64	92.27	24.1
MAD2L1	NM_002358	54.06	0.18	43.92	2.78
GMDS	NM_001500	80.65	7.38	102.45	2.98
MAZ	NM_002383	77.25	2.31	95.79	3.69
GSTA4	NM_001512	83.63	7.16	101.6	4.51
SLC3A2	NM_002394	92.98	2.36	96.88	10.85
COX7A2	NM_001865	86.95	6.19	96.49	2.5
PSMB2	NM_002794	72.85	1.26	75.24	3.81
COX7B	NM_001866	93.68	2	70.69	1.76
PSMB3	NM_002795	72.93	4.09	70.8	1.25
CPM	NM_001874	120.59	2.27	129.08	3.95
PSMB4	NM_002796	78.49	0.12	69.66	4.8

CPS1	NM_001875	84.4	3.25	87.97	6.4
PSMB5	NM_002797	81.31	2.83	79.06	5.81
CPT1A	NM_001876	87.53	1.52	98.12	1.77
PSMB6	NM_002798	69.02	3.55	77.22	2.98
CRYZ	NM_001889	84.33	11.33	108.15	4.54
PSMB7	NM_002799	47.53	5.75	55.73	8.75
CTNNB1	NM_001904	95.43	2.68	115.31	10.06
PSMB10	NM_002801	89.79	5.93	102.36	5.17
CTPS	NM_001905	103.22	1.41	118.71	6.37
PSMD2	NM_002808	55.81	1.3	56.16	3.13
GTF2H2	NM_001515	100.19	1.29	71.22	13.01
ME1	NM_002395	104.22	9.45	76.39	14.49
GTF2H3	NM_001516	106.73	8.05	105.48	4.42
ME2	NM_002396	109.46	3.88	89.95	11.28
GTF3C1	NM_001520	83.42	10.49	78.2	0.17
MEST	NM_002402	82.18	4.9	95.59	7.3
MR1	NM_001531	83.47	1.06	94.95	16.22
MGAT5	NM_002410	77.44	2.66	75.85	1.23
HRMT1L1	NM_001535	90.1	14.57	86.89	3.24
MGST2	NM_002413	74.91	3.95	83.24	0.53
HRMT1L2	NM_001536	99.53	0.48	104.17	10.69
CD99	NM_002414	50.22	10.95	45.49	4.9
HSPB1	NM_001540	55.1	6.32	62.22	0.8
MMP15	NM_002428	90.72	7.76	82.64	12.41
CTSL	NM_001912	78.66	3.59	90.2	6.28
PSMD7	NM_002811	42.86	4.93	35.58	2.45
CYC1	NM_001916	109.78	9.32	97.97	13.47
PSMD8	NM_002812	21.37	1.11	9.19	3.04
DBT	NM_001918	44.46	5.52	45.7	1.31
QSCN6	NM_002826	101.7	11.07	100	10.1
DCI	NM_001919	85.58	1.43	92.69	7.24
PTPN11	NM_002834	95	2.59	107.69	3.11
DCTD	NM_001921	100.68	1.36	118.6	4.21
PEX19	NM_002857	91.88	0.51	91.52	3.94
DHPS	NM_001930	106.55	0.25	89.32	6.62
ABCD3	NM_002858	95.96	1.09	76.2	7.43
DLAT	NM_001931	85.65	3.45	110.21	3.31
ALDH18A1	NM_002860	49.05	6	66.8	3.16
NDST1	NM_001543	87.13	4.3	88.37	1.32
MNAT1	NM_002431	96.63	1.64	93.67	2.09
ICT1	NM_001545	111.35	0.67	124.15	0.87
MPI	NM_002435	111.04	5.03	111.97	18.39
IFRD1	NM_001550	111.5	3.15	117.65	8.33
MPV17	NM_002437	114.94	9.68	126.74	17.99

IGFBP7	NM_001553	98.04	2.74	97.08	6.12
MSN	NM_002444	88.68	8.2	67.12	8.42
CYR61	NM_001554	94.07	1.24	72.74	2.4
MTAP	NM_002451	96.21	2.47	84.1	2.92
IL13RA1	NM_001560	114.14	5.08	121.66	5.57
MTX1	NM_002455	93.4	4.02	100.22	4.36
AARS	NM_001605	109.87	0.58	118.22	3.73
MYD88	NM_002468	90.49	2.82	102.02	9.48
ABCA2	NM_001606	96.63	0.83	88.94	2.56
NUBP1	NM_002484	108.46	7.26	113.4	5.12
MPP3	NM_001932	89.89	0.12	76.04	7.17
PCYT2	NM_002861	105.35	8.76	118.83	7.96
DLST	NM_001933	77.58	11.23	89.62	1.68
PYGL	NM_002863	107.81	0.23	92.63	2.15
DR1	NM_001938	105.98	3.13	112.39	16.83
RAB5B	NM_002868	118.67	8.81	101.14	2.65
DSG2	NM_001943	38.38	37.89	83.17	6.05
RAB6A	NM_002869	114.8	2.04	116	4.13
EEF2	NM_001961	81.7	0.2	101.8	3.88
RAC2	NM_002872	97.75	0.77	102.93	0.08
EFNA5	NM_001962	89.29	8.38	76.29	2.62
RANGAP1	NM_002883	77.24	3.54	85.79	1.03
EHHADH	NM_001966	107.41	6.96	119.34	4.39
RAP1GA1	NM_002885	87.62	5.35	86.66	0.29
ENO2	NM_001975	108.28	6.62	119.11	4.25
RAP2B	NM_002886	66.4	6.76	77.71	0.43
ACADSB	NM_001609	75.63	0.1	56.96	5.22
NDUFB3	NM_002491	93.58	2.07	98.38	7.98
ACP2	NM_001610	60.62	8.14	65.73	4.45
NDUFB5	NM_002492	106.06	3.65	116.01	8.88
AHR	NM_001621	112.63	5.74	92.34	12.62
NDUFB6	NM_002493	119.46	7.63	110.82	7.73
AK2	NM_001625	107.46	10.23	94.65	3.16
NDUFC1	NM_002494	120.03	5	61.75	23.12
ALCAM	NM_001627	77.23	1.22	68.55	6.81
NFX1	NM_002504	109.8	0.55	92.87	4.53
AKR1B1	NM_001628	95.58	7.44	106.49	18.92
NRD1	NM_002525	81.93	6.36	91.78	11.37
AMD1	NM_001634	60.41	5.4	83.62	4.68
NT5E	NM_002526	78.16	1.11	86.51	1.94
APEH	NM_001640	105.48	5.55	138.29	14.26
NUP88	NM_002532	94.57	1.6	107	1.69
ENO3	NM_001976	100.13	1.73	95.53	0.05
RARS	NM_002887	106.17	1.6	108.06	0.27

EPB49	NM_001978	85.39	1.64	67.59	1.14
RDX	NM_002906	120.05	2.42	115.41	8.51
ESD	NM_001984	97.95	2.78	114.22	0.4
RENT1	NM_002911	86.38	1.41	88.24	0.08
EYA3	NM_001990	110.7	11.04	137	19.15
RFC3	NM_002915	104.56	4.7	50.38	15.56
FDPS	NM_002004	69.53	0.42	46.06	8.36
RNASEH1	NM_002936	127.85	3.75	111.71	0
FKBP3	NM_002013	114.85	8.92	109.2	8.74
RNH1	NM_002939	83.4	5.25	95.55	8.78
FKBP4	NM_002014	120.39	9.31	147.15	11.38
ABCE1	NM_002940	42.83	7.77	44.92	0.65
FNTA	NM_002027	104.47	7.42	123.78	13.86
RPN1	NM_002950	74.33	4.6	88.65	2.01
ARCN1	NM_001655	27.19	0.11	24.26	1.07
ODC1	NM_002539	55.67	1.03	74.13	0.33
TRIM23	NM_001656	110.44	9.46	101.61	4.06
OLR1	NM_002543	97.82	6.63	81.82	3.58
ARF1	NM_001658	117.66	11.43	117.79	15.86
ORC4L	NM_002552	146.71	11.07	150.88	12.51
ARF3	NM_001659	100.31	0.56	89.3	1.28
FURIN	NM_002569	83.43	10.68	50.91	12.83
ARL4D	NM_001661	88.45	3.76	83.52	1.17
PRDX1	NM_002574	99.26	0.68	110.73	6.25
ARF5	NM_001662	79.55	0.71	97.33	3.79
PARN	NM_002582	108.96	11.1	126.32	12.21
ARF6	NM_001663	111.45	0.08	127.3	5.94
PDGFA	NM_002607	102.71	4.16	112.51	8.44
FNTB	NM_002028	86.59	8.08	77.98	1.16
SORT1	NM_002959	119.1	2.44	127.26	3.58
FVT1	NM_002035	76.98	2.07	98.92	1.51
S100A10	NM_002966	89.71	6.26	88.31	4.72
GAS1	NM_002048	93.67	5.88	103.49	1.16
SCP2	NM_002979	90.2	2.46	100.32	6.82
GBP1	NM_002053	94.6	1.85	91.22	2.06
SDHB	NM_003000	106.57	4.56	116.97	9.53
GFPT1	NM_002056	80.53	2.62	73.8	5.97
SEC14L1	NM_003003	93.26	0.89	103.44	3.23
GCLM	NM_002061	77.97	7.68	89.61	7.59
SLC1A4	NM_003038	95.19	6.02	114.27	6.95
GLRX	NM_002064	102.19	3.63	105.61	1.45
SLC4A2	NM_003040	87.15	2.9	97.81	9.08
RHOG	NM_001665	84.59	0.97	105.59	10.57
PEX13	NM_002618	110.87	2.01	112.36	11.45

ARL2	NM_001667	110.19	14.91	91.65	0.88
PFKL	NM_002626	107.59	2.34	99.03	52.99
ASNS	NM_001673	63.27	1.71	64.34	0.42
PFKP	NM_002627	68.49	3.56	81.17	3.3
ATP1B1	NM_001677	58.28	5.02	65.63	4.11
PGD	NM_002631	57.71	1.01	66.53	7.6
ATP1B3	NM_001679	89.28	0.56	105.83	1.84
PGM1	NM_002633	107.12	0.34	99.4	5.28
ATP2B1	NM_001682	107.78	0.75	106.24	17.77
PHKA1	NM_002637	99.91	1.97	99.76	17.6
ATP5J	NM_001685	116.04	0.08	128.31	9.67
SERPINB8	NM_002640	117.96	1.75	129.13	23.4
ATP5D	NM_001687	105.38	0.93	86.53	12.36
PIGA	NM_002641	96.72	0.25	108.76	0.43
GLUL	NM_002065	94.1	0.34	96.94	12.8
SLC7A1	NM_003045	98.31	4.76	105.84	5.01
GNAI1	NM_002069	77.33	2.76	74.81	0.02
SLC16A1	NM_003051	92.84	5.81	97.96	3.42
GNAI2	NM_002070	102.58	5.57	105.95	14.84
SLC22A5	NM_003060	106.65	1.34	46.96	15.93
GNAL	NM_002071	100.63	2.31	120.4	15.73
SMARCA2	NM_003070	85.88	3.9	99.39	7.74
GNAQ	NM_002072	123.17	2.68	126.16	10.01
SMARCA3	NM_003071	111.51	9.44	117.33	22.61
GNB1	NM_002074	79.84	7.57	79.12	2.91
SMARCA4	NM_003072	98.88	4.21	100.89	20.97
GNS	NM_002076	105.47	5.47	119.17	6.04
SOAT1	NM_003101	83.21	0.7	113.3	6.77
GOT1	NM_002079	94.15	4.54	99.82	13.12
SORD	NM_003104	95.07	7.63	89.71	8.62
RTEL1	NM_032957	93.04	3.14	92.02	3.63
B4GALT5	NM_004776	95.32	2.61	98.99	6.4
AURKA	NM_003600	15.2	0.23	3.2	1.01
EPB41L1	NM_012156	110.43	3.84	126.94	0.52
TCEA2	NM_003195	71.97	5.68	82.34	0.15
SBK1	XM_370948	72.14	2.69	72.44	5.14
LOC340156	AK122581	61.65	3.78	78.28	3.61
PKMYT1	NM_004203	77.92	3.72	80.68	2.34
C9orf96	BC036504	63.7	6.33	82.09	1.08
EMILIN3	NM_052846	75.74	3.03	92.66	5.69
EVI5L	NM_145245	78.9	3.35	75.31	4.64
ADCK2	NM_052853	93.58	13.11	86.53	3.85
MARVELD3	NM_052858	79.04	7.71	91.59	2.93
AKT3	NM_005465	70.58	15.2	108.23	3.79

SRC	NM_005417	68.98	9.87	81.25	0.1
TNNI3K	NM_015978	60.1	6.51	51.74	1.18
HCK	NM_002110	77.67	11.01	79.3	11.61
PDIK1L	NM_152835	75.24	2.66	91.49	9.52
CAMK2A	NM_015981	59.35	9.35	74.58	0.43
TIE1	NM_005424	70.07	1.74	79.34	4.23
PRKCE	NM_005400	61.41	9.8	62.22	2.2
YSK4	NM_025052	66.67	3.15	63.85	6.09
RNASEL	NM_021133	73.9	6.37	82.49	5.02
RAB32	NM_006834	68.88	2.41	89.92	9.24
RPS6KA2	NM_021135	77.49	5.79	100.75	8.17
FLT3	NM_004119	84.41	2.17	101.1	6.52
IRAK2	NM_001570	104.84	4.59	89.63	3.2
GPR125	BC035645	96.11	13.71	117.44	8.02
ULK2	NM_014683	60.85	2.16	71	13.28
PTGIS	NM_000961	87.28	5.84	98.69	5.76
RIPK5	AB007941	82.02	4.77	101.96	0.39
LBP	NM_004139	74.06	3.13	114.36	1.74
GUCY2F	NM_001522	91.11	2.41	115.66	12.27
CDKL4	XM_293029	83.55	4.11	94.35	4.68
OPRL1	NM_000913	99.9	8.33	119.97	2.41
COL20A1	NM_020882	75.47	4.09	81.1	5.69
MYH7B	AB040945	75.33	6.29	49.5	8.18
NTSR1	NM_002531	110.3	14	127.77	3.58
APEG1	NM_005876	98.21	2.65	105.19	1.36
RAPGEF3	NM_006105	86.65	5.77	87.06	8.79
GSG2	NM_031965	73.48	13.64	78.5	5.43
ACVR1C	NM_145259	94.44	1.17	88.09	9.26
FLJ25006	NM_144610	88.08	7.7	87.72	0.78
NEK3	NM_002498	77.37	4.96	78.23	10.15
MYO3B	NM_138995	73.39	0.8	81.63	12.26
SMAF1	NM_174906	63.85	2.37	57.29	0.21
EPHA1	NM_005232	73.89	13.43	77.9	10.63
EPHA3	NM_005233	90.94	5.9	90.96	4.21
ERBB4	NM_005235	78.69	3.79	79.33	0.8
TSSK1	NM_032028	64.19	6.03	68.88	0.59
MAP3K8	NM_005204	83.09	7.85	96.52	9.59
MAP4K4	AK000380	65.44	1.67	50.27	1.82
MLKL	NM_152649	106.62	1.6	78.53	2.08
STK38L	NM_015000	86.44	1.99	115.62	10.29
CSF1R	NM_005211	90.92	3.46	103.85	10.39
STK40	NM_032017	69.2	0.05	89.21	5.88
CAMKK1	NM_172207	98.82	13.92	107.39	12.76
ZHX3	NM_015035	108.86	2.53	101.37	1.75

PI4K2B	NM_018323	78.21	5.45	94.75	12.51
FGR	NM_005248	95.4	10.51	86.2	0.74
PDZK3	NM_178140	119.71	10.59	124.48	7.51
TSSK4	NM_174944	76.49	6.47	100.37	7.73
STK31	NM_031414	110.7	16.15	128.99	6.69
EIF2AK1	NM_014413	79.13	5.45	96.32	13.42
TRIB2	NM_021643	67.72	2.04	90.27	6.67
HERC2	NM_004667	96.55	9.69	114.87	8.31
NEK8	NM_178170	91.85	10.94	101.01	3.08
PXMP4	NM_007238	91.41	0.85	85.92	1.06
RPS6KA6	NM_014496	69.21	11.63	90.8	5.07
RAB38	NM_022337	72.34	1.57	86.04	5.01
LCK	NM_005356	71.57	8.81	67.64	1.46
GRK4	NM_005307	63.15	3.65	45.52	0.42
GRK5	NM_005308	55.14	2.6	72.49	1.29
FLT1	NM_002019	103.7	2.1	109.15	3.58
MAP3K13	NM_004721	52.6	4.67	59.69	5.2
PASK	NM_015148	114.38	5.97	101.87	2.93
DCAMKL1	NM_004734	104.67	9.52	111.21	5.43
C20orf100	NM_032883	78.4	6.86	80.86	4.56
COMMD7	NM_053041	112.82	9.36	98.69	4.8
FRK	NM_002031	94.57	0.41	106.49	1.57
STYK1	NM_018423	81.66	4.67	95.91	3.81
PRKAG2	NM_016203	88.1	7.74	84.84	7.08
STC1	NM_003155	89.59	7.14	91.4	0.31
NEK4	NM_003157	42.04	2.92	46.77	5.81
AURKC	NM_003160	70.92	14.08	75.3	2.18
DYRK2	NM_006482	83.98	15.07	75.92	6.7
MAP3K5	NM_005923	78.37	16.04	90.01	4.38
PDGFRB	NM_002609	72.42	13.2	88.95	13.18
TGFBR2	NM_003242	79.47	2.63	93.55	9.81
KSR2	NM_173598	93.91	7.15	103.67	11.28
PDK2	NM_002611	61.08	2.75	80.32	5.97
CDC14B	NM_033331	74.5	5.13	91.13	0.86
MAPK10	NM_138982	98	2.9	123.96	9.32
PIK3CG	NM_002649	74.85	3.6	70.05	1.77
FGFR2	NM_022972	77.95	7.1	91.88	0.54
PRKAR2B	NM_002736	72.84	5.8	80.37	7.76
DCAMKL3	AB051552	98.43	0.51	95.19	3.26
ATM	NM_000051	86.67	5.71	83.66	10.42
TSSK2	NM_053006	94.98	8.08	92.4	4.47
TXK	NM_003328	74.57	2.27	90.67	10.18
EPHA6	NM_173655	63.23	0.55	83.01	0.02
MGC42105	NM_153361	72.09	2.6	86.3	1.12

PRKD1	NM_002742	77.17	7.87	85.38	7.07
MAPK4	NM_002747	85.29	2.29	103.37	19.74
BTK	NM_000061	53.59	0.08	58.52	4.73
PAK7	NM_020341	72.54	1.8	64.61	12.33
MAPK13	NM_002754	88.07	0.29	103.88	0.33
EPHA10	NM_173641	54.71	5.89	64.71	3.28
MYLK	NM_053025	81.05	1.05	101.2	3.22
PRKACG	NM_002732	93.43	8.89	101.06	0.06
STK32B	NM_018401	51.5	0.37	63.61	2.54
C20orf144	NM_080825	108.47	6.29	106.34	2.11
ADCK5	NM_174922	67.93	7.09	79.2	10.32
LOC400301	XM_375150	76.16	2.15	75.32	3.02
CDK6	BC027989	79.84	3.33	86.8	0.66
RIPK4	NM_020639	45.4	5.04	40.68	0.43
CAMK1	NM_003656	60.06	0.49	82.64	6.42
PRKCH	NM_006255	43.52	5.29	63.07	15.48
PRKCQ	NM_006257	86.76	0.31	116.82	5.46
PRKG1	NM_006258	93.98	3.51	100.14	7.58
PRKG2	NM_006259	74.43	4.55	102.84	3.35
STK35	NM_080836	52.97	6.5	71.45	5.03
PDGFRA	NM_006206	85.88	0.89	87.05	8.45
GRK7	NM_139209	78.75	0.06	92.55	5.25
STK16	NM_003691	97.57	4.43	99.79	11.12
RET	NM_000323	75.22	12.36	77.94	1.93
PHKG1	NM_006213	55.99	7.29	55.73	5.12
LOC91461	BC007901	106.51	2.56	108.35	3.13
GPR8	NM_005286	90.9	2.65	74.79	1.11
NRK	NM_198465	77.86	1.63	87.65	0.47
HRH3	NM_007232	74	5.44	75.82	2.01
FLJ40852	NM_173677	51.25	0.89	51.43	2.48
MMP24	NM_006690	116.57	9.73	107.21	3.68
CHRNA4	NM_000744	88.51	0.87	90.63	6.04
KIAA1755	AB051542	113.28	10.08	108.57	5.6
NEK1	AB067488	71.24	1.86	91.59	1.02
LIMK2	NM_005569	82.4	5.13	87.63	5.16
ITK	NM_005546	73.91	2.08	108.12	7.65
MUSK	NM_005592	79.72	7.86	80.99	5.82
KDR	NM_002253	63.11	8.66	47.51	2.02
MARK1	NM_018650	77.22	1.16	74.84	14.99
PAN3	NM_175854	90.95	1.39	85.02	0.16
NTRK2	NM_006180	76.99	3.65	87.31	3.68
DDR2	NM_006182	57.52	3.8	74.9	6.19
STK32A	NM_145001	75.37	3.14	62.1	4.02
ACVR1B	NM_004302	71.31	1.48	76.38	9.19

PRKAG3	NM_017431	80.26	2.88	75.48	4.68
MYO3A	NM_017433	59.63	6.11	76.5	3.2
ALK	NM_004304	55.72	3.83	64.7	1.79
LRRK1	NM_024652	86.81	4.35	88.59	2.28
NUAK1	NM_014840	77.84	1.98	86.73	5.53
CAMK4	NM_001744	87.83	8.48	104.59	7.95
MLCK	NM_182493	90.77	1.86	96.03	15.46
EPHB2	NM_017449	88.53	3.26	97.83	10.74
PIK3C2G	NM_004570	94.21	8.82	110.31	9.39
CDK3	NM_001258	78.21	0.85	106.06	11.25
NPR2	NM_003995	108.74	8.75	107.09	6.16
TTBK2	NM_173500	78.62	8.21	84.3	4.91
TESK2	NM_007170	68.07	5.61	73.87	3.63
CAMKK2	NM_006549	70.03	3.11	70.27	4.46
FGFR1	NM_000604	63.26	4.32	84.67	6.76
CDKL2	NM_003948	61.44	0.94	77.35	1.77
NEK6	NM_014397	108.78	1.53	114.97	7.73
TEC	NM_003215	60.99	3.74	71.2	4.24
MAP4K1	NM_007181	81.17	4.26	88.4	4.49
IRAK3	NM_007199	90.53	1.27	104.24	2.56
PKD2L2	NM_014386	101.06	7.92	105.2	4.47
MAK	NM_005906	103.14	6.64	125.78	0.45
ROR1	NM_005012	79.06	7.93	80.14	5.94
TSSK3	NM_052841	83.63	0.3	92.67	6.22
HIPK2	NM_022740	56.3	5.4	61.14	0.08
PPP1R16B	NM_015568	89.07	4.77	82.68	1.95
PIK3CD	NM_005026	88.74	3.21	129.45	7.24
C20orf117	NM_199181	76.93	4.27	88	5.22
PRKAR1B	NM_002735	103.95	4.11	116.12	15.63
GM632	NM_020713	88.47	4.41	71.06	1
RNPC1	NM_017495	118.37	0.47	117.86	2.15
CDH4	NM_001794	86.64	1.33	53.4	0.65
LRRK2	AL834529	82.47	9.73	76.35	2.17
	XM_292638	60.98	0.56	75.03	1.92
LOC442075	AK092352	113.75	2.12	122.37	4.26
PRO0628	AF090938	95.18	2.47	79.59	1.07
FLJ30698	XM_375602	68.62	4.37	77.91	0.64
C20orf165	NM_080608	80.19	7.58	92.47	9.79
LOC200230	AK090440	112.18	2.99	79.58	4.94
	AK128670	102.18	5.39	112.27	7.57
LOC390975	XM_372749	86.31	1.67	82.46	13.5
C20orf160	NM_080625	88.14	4.36	61.69	2.73
JPH2	NM_020433	110.08	1.12	94.98	7.88
C20orf102	NM_080607	90.83	0.83	86.91	2.21

NUAK2	NM_030952	67.59	0.83	69.17	2.97
CAMK1G	NM_020439	69.25	6.99E-03	84.55	1.09
IGF1R	NM_000875	71.8	2.19	84.97	7.71
SGK3	NM_013257	91.09	10.35	79.57	5.66
STK39	NM_013233	100.1	5.26	122.75	9.56
C20orf121	NM_024331	106.78	0.76	107.9	3.5
ULK4	NM_017886	86.18	4.12	95	7.31
RPS6KA5	NM_004755	63.81	2.76	71.29	5.62
STK33	NM_030906	89.39	1.26	77.47	2.21
AKAP13	NM_006738	87.67	3.21	93.29	6.71
OXSM	NM_017897	75.79	4.38	97.53	3.89
HUNK	NM_014586	54.26	4.47	80.01	3.32
KSR	U43586	102.33	9.61	93.14	10.16
CDKL3	NM_016508	94.33	10.06	94.26	3.16
PSKH1	NM_006742	89.76	9.37	102.42	1.26
TNIK	AF172264	100.4	8.98	103.43	0.08
ERN1	NM_001433	84.15	1.48	83.56	1.32
NAALADL1	NM_005468	69.93	6.7	80.05	0.87
WEE2	AK131218	95.22	5.9	66.77	6.29
NFATC2	NM_173091	86.3	8.39	94.86	7.09
TNFRSF6B	NM_003823	105.74	4.84	79.91	8.22
MAP3K15	NM_001001671	92.04	8.59	91.25	10.56
TCEB3C	NM_145653	75.51	3.11	63.15	15.29
RIPK3	NM_006871	56.4	4.95	74.71	5.18
CDKL1	NM_004196	90.93	10.98	94.09	1.21
AMHR2	NM_020547	105.35	2.77	95.51	14.32
KIT	NM_000222	103.29	12.57	107.81	1.95
ROS1	NM_002944	61.96	2.2	60.85	9.47
INSR	NM_000208	55.74	8.3	73.33	1.21
ZAK	NM_016653	81.54	2.67	92.22	7.53
ALS2CR7	NM_139158	83.59	4.74	90.77	3.12
DYRK3	NM_003582	81.22	2.7	94.05	4.96
PARD6B	AB044555	73.79	1.94	86.39	4.34
BMPR1B	NM_001203	72.76	4.71	70.26	2.37
EYA2	NM_172113	116.24	4.59	85.27	4.96
STK36	NM_015690	76.57	5.89	65.23	3.25
CAMK2G	NM_172171	93.56	3.61	105.14	7.61
MAST4	AB002301	67.83	7.69	74.48	5.72
NEK11	NM_024800	86.3	7.94	93.06	8.21
ERBB3	NM_001982	45.13	2.11	53.54	2.99
TRPM6	NM_017662	82.71	0.13	106.49	5.85
ACTR5	NM_024855	80.08	4.62	85.8	1.32
DAPK2	NM_014326	82.92	1.51	92.29	2.57
ROR2	NM_004560	64.44	2.28	76.99	2.16

ADRBK2	NM_005160	89.53	12.76	97.52	2.84
CAMK2D	NM_001221	114.49	4.42	108.39	3.63
KIAA1804	NM_032435	52.1	5.25	58.22	7.93
STK19	NM_032454	77.91	1.03	99.15	0.71
L3MBTL	NM_015478	50.17	1.75	63.91	2.72
CCRK	NM_012119	108.27	4.32	124.4	1.33
BLK	NM_001715	76.21	4.22	67.32	0.85
NRBP2	NM_178564	85.27	2.62	90.85	11.65
MAP3K1	AF042838	73.19	4.69	89.35	11.32
BMX	NM_001721	82.62	2.79	73.11	8.69
BRDT	NM_001726	93.92	2.64	71.29	8.97
SGK2	NM_016276	118.93	10.53	115.72	0.79
SYK	NM_003177	83.19	1.54	98.72	5.98
NTRK3	NM_002530	86.49	7.03	118.48	6.56
ALPK2	NM_052947	60.9	1.97	51.5	9.72
NEK10	NM_152534	91.6	12.72	88.51	5.87
ZNF218	NM_173485	81.08	4.08	93.44	2.09
C20orf132	NM_152503	100.2	3.62	108.02	5.35
PAK6	NM_020168	76.08	8.29	71.89	2.37
PAK3	NM_002578	86.9	2.97	99.32	1.35
PKD2L1	NM_016112	99.33	4.32	101.2	2.01
PSKH2	NM_033126	93.65	2.96	96.54	2.31
MAP3K12	NM_006301	94.05	7.51	124.2	16.05
MYLK2	NM_033118	78.18	2.9	80.17	3.37
TEK	NM_000459	80	4.06	106.62	10.93
MERTK	NM_006343	75.54	11.36	87.55	4.52
RAPGEF4	NM_007023	92.92	5.23	106.05	5.69
GDAP1L1	NM_024034	86.38	3.87	91.44	1.89
EPHA4	NM_004438	56.77	4.98	66.1	4.38
EPHA5	NM_004439	106.17	4.19	107.59	0.05
RAGE	NM_014226	74.7	5.93	75.33	8.23
CSNK2A1	NM_001895	95.28	5.38	116.47	12.64
TRIM24	NM_003852	83.25	6.72	89.11	3.12
EPHA7	NM_004440	101.85	0.85	101.57	9.43
EPHB1	NM_004441	60.54	13.15	68.46	6.19
CAMKV	NM_024046	118.53	18.19	119.61	0.89
ACVR1	NM_001105	86.56	7.22	85.08	3.09
ACVR2B	NM_001106	76.95	13.75	87.99	3.79
KALRN	NM_007064	89.19	6.86	101.93	2.35
ATR	NM_001184	85.3	1.96	88.34	6.2
TEX14	NM_031272	70.79	3.01	90.32	6.44
ACVR2A	NM_001616	71.37	2.63	73.69	8.49
KIAA0889	NM_152257	96.61	4.77	103.17	5.36
ALPK1	NM_025144	90.1	13.96	82.91	4.56

TRIB1	NM_025195	104.27	2.41	128.04	10.45
GUCY2C	NM_004963	78.68	3.2	83.92	1.08
MIP	NM_012064	64.33	2.08	63.05	4.7
CDC2L1	BC033069	60.23	2.36	66.36	3.72
JAK2	NM_004972	63.75	5.09	61.8	4.28
BRSK1	NM_032430	85.16	12.39	82.75	22.92
TYK2	NM_003331	105.96	3.31	102.84	0.89
VRK3	NM_016440	125.07	1.13	98.83	4.67
PIM3	NM_001001852	71.18	1.19	81.35	12.93
NEK5	BC063885	91.85	3.52	93.37	1.88
PNCK	NM_198452	87.15	3.95	109.41	1
WNK2	NM_006648	82.75	10.22	83.16	5.6
PAK4	NM_005884	79.59	1.54	72.58	3.09
PRKD2	NM_016457	93.24	2.93	105	9.72
ERN2	NM_033266	79.02	3.2	92.82	6.94
PRKAR2A	NM_004157	99.51	3.48	96.21	13.42
NTRK1	NM_002529	77.12	7.42	76.51	1.67
	hsa_miR_125a	120.97	12.45	148.11	4.52
	hsa_miR_28	52.27	2.79	64.91	6.35
	hsa_miR_126star	116.01	7.45	137.36	9.75
	hsa_miR_30a_5p	123.55	7.22	138.48	15.47
	hsa_miR_126	65.87	9.24	67.5	2.73
	hsa_miR_31	92.12	11.01	118.8	6.42
	hsa_miR_127	53.99	3.6	55.82	2.12
	hsa_miR_32	73	2.5	81.02	3.62
	hsa_miR_134	25.05	0.6	30.14	2.91
	hsa_miR_33	88.92	7.29	64.33	22.54
	hsa_miR_136	103.08	12.6	124.04	1.32
	hsa_miR_95	115.75	3.15	120.58	10.26
	hsa_miR_149	100.66	4.09	100.99	8.83
	hsa_miR_96	70.63	7.3	82.35	11.51
	hsa_miR_20	90.75	2.96	103.2	0.58
	hsa_miR_30a_3p	68.8	4.67	73.43	6.01
	hsa_miR_92	79.54	2.79	104.26	9.76
	hsa_miR_93	83.23	5.52	79.31	0.18
	hsa_miR_106a	58.81	1.75	64.16	1.34
	hsa_miR_181b	107.96	14.21	112.41	1.18
	hsa_miR_212	123.3	1.13	113.79	5.5
	hsa_miR_150	91.81	1.39	92.04	4.1
	hsa_miR_98	71.49	3.73	90.94	15.34
	hsa_miR_154star	104.41	6.08	83.69	1.29

hsa_miR_99a	79.42	4.12	72.53	9.61
hsa_miR_188	66.17	4.43	55.15	7.85
hsa_miR_100	74.63	7.7	80.18	4.1
hsa_miR_190	110.18	10.78	95.16	10.17
hsa_miR_101	91.55	0.62	51.7	3.69
hsa_miR_194	117.69	1.47	104.56	0.29
hsa_miR_29b	91.66	1.07	103.55	5.89
hsa_miR_195	71.55	3.8	71.59	2.22
hsa_miR_103	90.53	5.65	102.09	3.92
hsa_miR_200c	94.3	0.87	72.22	6.11
hsa_miR_105	93.38	3.34	128.65	12.31
hsa_miR_128b	78.68	0.39	88.51	7.19
hsa_miR_107	84.89	0.22	97.02	2.41
hsa_miR_124a	46.03	0.58	48.42	3.56
hsa_miR_137	78.96	0.95	89.19	14.41
hsa_miR_186	85.8	9.59	106.54	18.32
hsa_miR_193	58.04	3.5	57.24	4.81
hsa_miR_320	64.18	1.07	55.24	0.61
hsa_miR_155	60.36	3.84	62.98	2.17
hsa_miR_106b	84.99	2.61	102.84	10.73
hsa_miR_302ast ar	106.42	1.99	124.86	3.96
hsa_miR_200a	68.02	0.62	90.36	1.95
hsa_miR_192	60.52	0.62	84.26	7.34
hsa_miR_34b	27.94	2.71	32.8	7.67
hsa_miR_196a	70.57	2.05	94.57	11.91
hsa_miR_34c	26.33	1.16	23.43	1.21
hsa_miR_197	69.02	0.63	69.81	1.91
hsa_miR_299	73.65	4.17	77.93	0.09
hsa_miR_198	84.12	2.06	80.39	0.61
hsa_miR_301	95.33	3.59	103.4	0.74
hsa_miR_199a	69.35	2.32	80.35	9.35
hsa_miR_99b	67.74	6.81	84.13	9.52
hsa_miR_199ast ar	55.21	4.24	66.71	16.21
hsa_miR_30e	104.61	2.96	106.04	13.91
hsa_miR_208	61.21	0.47	85.37	4.09
hsa_miR_302a	83.84	2.8	92	2.74
hsa_miR_130b	116.36	5.94	145.71	12.26
hsa_miR_302cst ar	102.52	0.91	121.84	5.77
hsa_miR_367	98.09	3.54	107.63	4.84
hsa_miR_372	74.37	1.13	70.02	2.15
hsa_miR_373	85.49	3.26	93.72	10.75
hsa_miR_108	80.54	4.58	91.97	5.94

hsa_miR_302bst ar	105.22	11.15	119.12	11.18
hsa_miR_129	55.75	5.88	73.42	10.05
hsa_miR_302b	72.7	1.29	80.08	5.18
hsa_miR_148a	85.26	3.85	73.24	12.51
hsa_miR_368	86.7	1.37	86.41	9
hsa_miR_30c	85.95	8.95	71.42	2.62
hsa_miR_369	92.77	1.61	93.5	6.61
hsa_miR_139	108.32	4.88	98.27	3.09
hsa_miR_370	67.98	3.62	70.43	10.77
hsa_miR_147	60.38	0.53	63.77	5.2
hsa_miR_371	48.94	0.48	52.44	2.38
hsa_miR_7	79.75	1.8	50.66	1.16
hsa_miR_373sta r	106.23	4.98	118.06	7.75
hsa_miR_10a	96.73	3.99	111.19	9.4
hsa_miR_374	80.38	3.69	89.81	2.34
hsa_miR_10b	88.4	6.05	87.16	13.31
stoffel	64.56	5.89	84.66	2.33
mmu_miR_409	63.48	0.21	83.24	7.89
mmu_miR_410	86.62	12.94	108.07	18.03
mmu_miR_412	74.38	6.91	74.52	6.14
hsa_let_7b	58.08	0.12	76.79	9.71
hsa_let_7c	60.09	0.58	81.85	1.71
hsa_miR_18	85.76	1.51	104.39	9.38
hsa_miR_29a	74.56	3.26	90.65	8.52
hsa_miR_340	75.5	4.11	95.16	2.25
hsa_miR_34a	51.78	5.68	61.33	1.91
hsa_miR_330	104.64	5.49	115.24	8.34
hsa_miR_181a	95.94	3.53	72.64	3.72
hsa_miR_328	73.89	0.04	80.12	7.75
hsa_miR_181c	83.2	5.03	80.66	7.83
hsa_miR_342	84.63	0.51	92.46	3.29
hsa_miR_182sta r	65.55	3.32	66.54	9.57
hsa_miR_337	66.31	1.15	60.42	3.17
hsa_miR_187	111.63	1.02	120.7	4.27
hsa_miR_323	93.54	11.99	111	8.21
hsa_miR_199b	90.2	5.37	97.84	18.61
hsa_miR_326	95.71	7.77	113.11	11.68
hsa_miR_203	76.65	3.78	102.51	0.46
hsa_miR_151	82.14	4.55	86.74	11.75
hsa_miR_204	80.14	1.03	91.96	9.91
hsa_miR_30d	94.13	2.57	97.06	2.24
hsa_miR_182	79	1.96	69.89	0.14

hsa_miR_183	90.66	24.6	69.03	2.89
hsa_miR_210	58.55	0.15	77.32	3.15
hsa_miR_214	65.42	6.61	72.37	12.84
hsa_miR_133a	55.3	6.18	69.59	7.67
hsa_miR_140	73.99	0.76	95	1.07
hsa_miR_143	87.05	4.99	124.01	13.75
hsa_miR_135b	84.77	1.68	99.46	9.66
hsa_miR_205	79.32	10.37	87.51	3.96
hsa_miR_148b	104.35	8.24	77.71	0.13
hsa_miR_211	90.91	0.98	87.17	8.03
hsa_miR_331	86.98	0.78	100.85	1.04
hsa_miR_213	106.86	2.12	117	6.09
hsa_miR_324_5	68.86	2.7	84.58	6.18
p				
hsa_miR_215	41.14	0.74	58.46	9.8
hsa_miR_324_3	67.53	4.22	72.49	8.43
p				
hsa_miR_216	81.44	3.56	88.23	2.93E-03
hsa_miR_338	111.84	2.59	134.26	10
hsa_miR_217	87.3	11.91	98.71	6.57
hsa_miR_339	79.2	2.91	105.41	19.22
hsa_miR_218	89.43	0.33	120.69	0
hsa_miR_146	90.53	3.17	98	0.5
hsa_miR_154	97.17	3.52	104.16	8.27
hsa_miR_184	89.38	3.34	100.07	4.39
hsa_miR_185	82.87	17.05	91.16	4.03
hsa_miR_206	80.95	4.73	74.19	8.7
hsa_miR_29c	75.41	3.14	101.34	9.41
hsa_miR_296	81.45	1.56	95.53	5.03
hsa_miR_335	107.98	5.81	120.92	8.78
hsa_miR_219	99.01	1.92	138.56	24.21
hsa_miR_325	97.1	3.13	108.72	4.97
hsa_miR_220	88.2	5.03	59.21	54.44
hsa_miR_345	73.91	3.46	39.83	0.56
hsa_miR_221	97.59	8.03	97.64	2.6
hsa_miR_196b	82.37	3.87	84.9	18.68
hsa_miR_222	84.92	1.13	90.81	2.3
mmu_miR_201	80.52	8.37	75.93	12.23
hsa_miR_223	73.68	2.74	101.68	14.63
mmu_miR_290	82.62	6.7	75.37	7.43
hsa_miR_224	100.17	8.87	113.09	9.97
mmu_miR_291_5p	70.76	3.31	81.14	0.74
hsa_miR_200b	84.73	3.28	99.45	2.81
mmu_miR_292_5p	88.6	8.05	94.49	6.31

5p

hsa_let_7g	78.02	0.23	97.59	5.88
hsa_miR_302c	79.58	5.91	94.98	12.12
hsa_miR_302d	81.73	4.15	87.47	13.39
hsa_miR_133b	61.31	4.4	88.9	6.13
hsa_miR_346	53.63	0.45	47.22	5.7
mmu_miR_202	82.95	1.72	100.11	7.75
mmu_miR_207	77.75	2.85	93.96	13.65
mmu_miR_291_	81.05	6.48	89.39	5.83

3p

mmu_miR_292_	81.32	3.05	103.69	12.69
--------------	-------	------	--------	-------

3p

mmu_miR_293	88.55	2.3	99.29	10.37
hsa_let_7i	95.18	1.78	119.64	12.88
mmu_miR_298	74.59	3.35	74.22	16.14
hsa_miR_1	74.72	5.61	84.6	16.95
mmu_miR_300	95.89	2.13	90.43	15.89
hsa_miR_15b	73.97	7.28	74.11	3.62
mmu_let_7dstar	84.25	0.4	103.45	15.54
hsa_miR_23b	75.67	4.08	95	9.72
mmu_miR_322	119.01	10.58	127.29	9.84
hsa_miR_27b	66.88	6.82	71.8	11.99
mmu_miR_329	103.86	8.33	88.72	6.33
hsa_miR_30b	94.4	3.06	93.5	3.38
mmu_miR_341	95.69	0.48	57.21	0.26
hsa_miR_122a	71.98	4.65	63.82	10.59
mmu_miR_350	105.88	1.92	101.81	4.76
hsa_miR_125b	99.21	1.75	122.98	4.41
mmu_miR_294	85.95	9.53	87.49	9.78
mmu_miR_295	81.53	3.72	82.76	8.75
mmu_miR_297	64.36	3.63	86.4	16.78
mmu_miR_344	61.19	2.39	77.19	16.18
hsa_let_7a	45.83	1.57	68.86	5.73
hsa_let_7d	78.68	6.17	89.75	17.05
hsa_let_7e	82.96	4.18	98.39	11.32
hsa_let_7f	62.59	3.65	71.71	11.81
mmu_miR_351	100.2	9.13	126.03	3.31
hsa_miR_128a	72.27	11.09	94.08	15.79
mmu_miR_101b	101.2	3.12	72.3	11.93
hsa_miR_130a	129.96	7.48	156.25	15.51
mmu_miR_7b	76.6	1	70.19	13.62
hsa_miR_132	67.39	4.89	65.37	10.49
mmu_miR_376a	90.56	1.79	113.43	6.92
hsa_miR_135a	83.66	3.8	99.63	15.64
mmu_miR_380_	83.94	9.28	45.02	4.3

	3p				
	hsa_miR_138	97.3	3.18	132.55	13.34
	mmu_miR_376b	78.13	0.32	68.03	3.85
	hsa_miR_141	60.64	6.6	76.79	14.69
	mmu_miR_411	104.24	7	117.74	14.62
	hsa_miR_142_5	94.62	1.05	107.25	6.54
	p				
	hsa_miR_15a	67.59	2.34	102.94	10.62
	hsa_miR_16	82.56	3.5	93	2.94
	hsa_miR_17_5p	79.5	1.4	97.87	5.1
	hsa_miR_17_3p	98.71	4.66	118.95	18.18
	hsa_miR_19a	112.55	3.97	119.34	3.4
	hsa_miR_19b	117.68	0.59	116.33	17.4
	hsa_miR_21	91.21	4.96	108.27	14.88
	hsa_miR_142_3	69.75	3.44	68.98	1.08
	p				
	hsa_miR_144	89.41	3.39	96.75	10.79
	hsa_miR_145	75.15	0.2	96.48	11.23
	hsa_miR_152	100.7	1.93	125.44	12.37
	hsa_miR_153	82.39	1.87	107.47	13.27
	hsa_miR_191	80.17	1.28	72.27	8.85
	hsa_miR_9	103.25	2.47	118.79	11.39
	hsa_miR_9star	87.37	2.28	100.51	10.95
	hsa_miR_22	85.96	7.29	111.81	7.17
	hsa_miR_23a	93.6	6.89	99.23	13.82
	hsa_miR_189	70.81	3.25	48.37	7.35
	hsa_miR_24	66.77	1.46	91.35	8.74
	hsa_miR_25	76.8	1.25	81.79	1.25
	hsa_miR_26a	65.86	6.19	93.7	16.92
	hsa_miR_26b	81.42	2	107.39	11.88
	hsa_miR_27a	68.83	1.47	97.6	8.25
LOC128439	NM_139016	68.43	6.05	86.05	0.85
MAPK12	NM_002969	69.58	0.73	71.35	5.36
PIM1	NM_002648	65.23	1.41	69.27	0.6
TRPM7	NM_017672	101.76	3.23	106.82	5.57
ACVRL1	NM_000020	87.39	7.29	93.76	14.25
PIK4CA	NM_058004	97.17	11.33	99.84	0.86
TRIO	NM_007118	87.84	2.26	89.75	3.14
DYRK1B	NM_004714	85.92	3.17	78.93	3.33
MOS	NM_005372	90.95	2.36	100.44	2.09
WNK4	NM_032387	62.76	3.37	79.24	16.12
TNK2	NM_005781	87	1.47	94.09	8.75
RPS6KC1	NM_012424	75.46	2.22	69.26	0.45
PHKG2	NM_000294	89.01	5.46	62.68	2.41
DMPK	NM_004409	80.34	0.25	86.75	4.05

MAP3K10	NM_002446	46.13	1.07	43.92	7.69
MST1R	NM_002447	64.03	2.73	72.06	2.37
ALPK3	NM_020778	75.83	8.28	72.59	16.13
PRKAB2	NM_005399	92.61	2.21	92.95	7.64
STK11	NM_000455	88.11	6.04	95.88	11.97
MAP4K3	NM_003618	74.91	1.55	94.8	5.34
MAPK15	NM_139021	69.64	1.09	76.27	0.31
TP53INP2	NM_021202	84.34	24.4	84.24	19.64
CDK9	NM_001261	80.2	1.06	83.63	1.16
TRIB3	NM_021158	79.17	0.78	70.88	8.95
LMTK3	AB067470	85.57	0.58	90.9	9.41
STK23	NM_014370	64.88	1.24	86.66	3.34
LOC390777	XM_372663	89.51	8.55	107.97	6.31
P143	AF334792	89.33	4.62	99.51	3.5
LOC126520	AK054808	67.29	5.47	89.81	9.97
	XM_210341	85.1	0.5	92.2	2.55
	XM_166676	106.76	2.8	112.34	1.9
ALS2CR2	AF116618	70.96	3.09	33.47	3.98
PAK1	NM_002576	109.38	0.49	111.06	2.24
PAK2	NM_002577	92.29	2.94	85.67	24.96
LOC387934	XM_062966	83.84	6.35	94.1	6.86
AKT1	NM_005163	77.65	5.43	65.99	5.2
PRKY	NM_002760	94.28	2.94	106.51	2.57
MAP3K14	NM_003954	85.58	9.98	92.11	14.62
BCR	NM_004327	89.69	4.81	66.04	3.76
BRSK2	NM_003957	103.34	10.42	118.89	19.82
BMPRI1A	NM_004329	70.67	2.32	89.41	5.49
CDC2	NM_001786	58.92	1.09	73.52	10.67
STK17A	NM_004760	90.41	8.63	93.25	7.17
BRAF	NM_004333	44.5	9.87	42.95	3.93
BUB1	NM_004336	79.3	0.97	86.68	10.77
WEE1	NM_003390	25.49	1.1	26.54	7.69
PFTK1	NM_012395	94.1	7.34	108.6	14.79
PRKCG	NM_002739	92.78	0.02	92.73	8.49
NEK9	NM_033116	87.84	1.57	86.17	7.73
EPHA8	NM_020526	66.13	0.55	37.12	34.22
PKN1	NM_002741	88.66	1.39	103.82	1.73
STK25	NM_006374	86.68	2.48	104.42	4.24
PRKCZ	NM_002744	92.99	1.02	104.69	0.17
GRK1	NM_002929	52.75	4.54	40.16	7.65
MAPK11	NM_002751	88.9	0.36	83.32	3.4
MAP2K1	NM_002755	114.17	0.27	105.12	1.1
JAK3	NM_000215	40.09	17.77	54.11	5.22
MAP2K6	NM_002758	83.09	3.92	70.71	3.45

EIF2AK2	NM_002759	71.21	2.48	77.8	0.26
RALB	NM_002881	85.09	1.2	76.03	16.19
MKNK1	NM_003684	84.39	7.81	67.02	11.81
PCTK1	NM_033018	80.18	12.12	29.77	4.05
PXK	NM_017771	101.15	8.62	99.13	4.63
MARK4	NM_031417	93.34	7.21	110.65	1.52
TSSK6	NM_032037	84.73	11.19	115.49	11.14
LIMK1	NM_002314	68.55	9.01	73.96	1.04
RIPK1	NM_003804	69.02	7.82	77.58	1.82
MAPKAPK3	NM_004635	86.78	1.61	97.06	6.06
HIPK4	NM_144685	80.06	3.4	58	7.47
GUCY2D	NM_000180	81.1	3.79	96.32	1.91
PINK1	NM_032409	82.1	7.44	90.61	0.79
RPS6KL1	NM_031464	75.02	2.21	66.54	9.29
SGK	NM_005627	93.1	3.3	97.77	4.53
TESK1	NM_006285	91.38	3.29	84	23.43
ANKK1	NM_178510	64.98	7.76	54	10.2
SRMS	NM_080823	53.4	31.41	88.28	0.49
NLK	NM_016231	99.09	4.99	89.91	2.44
LATS1	NM_004690	76.45	0.14	66.9	3.64
PRKD3	NM_005813	80.76	1.01	83.65	19.24
PRKAA1	NM_006251	55.57	7.99	50.35	4.68
VRK2	NM_006296	92.26	0.98	58.74	1.45
PIN1	NM_006221	91.31	2.06	63.17	16.03
PKN2	NM_006256	79.04	5.28	62.88	8.17
SKP1A	NM_170679	95.86	0.06	110.11	16.93
CSNK1G2	NM_001319	98.45	9.28	72.88	13.77
SCYL2	NM_017988	99.42	6.63	101.91	15.6
RAF1	NM_002880	93.66	6.93	99.77	8.9
LTK	NM_002344	57.69	1.74	68.88	16.21
YES1	AF119914	62.44	3.98	72.55	7.83
	XM_210659	53.9	7.13	58.06	1.31
EPHA10	XM_496357	58.5	10.53	68.86	11.84
	XM_291786	69.05	1.42	75.85	5.46
LOC441777	BC052334	113.64	13.66	113.52	4.04
PRKXP1	XM_497470	61.61	3.1	70.16	2.62
NEK1	Z25431	81.6	5.1	72.88	11.98
EEF1A2	NM_001958	94.55	1.35	96.08	2.56
STMN3	NM_015894	90.91	1.52	95.6	4.72
PPP4R1L	AK057583	87.89	2.77	79.92	2.08
TAOK1	AB037782	127.1	6.42	123.03	5.7
STK32C	NM_173575	87.37	7.86	83.18	7.41
TNK1	NM_003985	80.19	1.28	73.99	2.57
PTK7	NM_002821	93.4	2.26	104.63	4.36

PDK1	NM_002610	92.02	3.76	108.78	6.03
TAOK2	NM_016151	94.16	3.43	106.94	0.49
FGFR3	NM_000142	98.6	5.78	98.94	12.19
MAPK1	NM_138957	61.87	1.4	41.3	1.69
PLK3	NM_004073	88.69	6.02	52.51	3.25
FES	NM_002005	77.68	4.82	77.12	4.29
DAPK1	NM_004938	72.99	1.43	64.18	14.4
MAPK7	NM_139034	89.32	5.59	103.4	23.01
STK17B	NM_004226	97.85	7.31	103.36	4.71
CDC42BPB	NM_006035	96.04	0.21	93.17	3.56
MAP3K3	NM_002401	101.25	4.92	112.26	8.88
PLK1	NM_005030	6.81	0.55	5.13	0.56
RPS6KA1	NM_002953	84.35	0.98	81.7	7.43
CSNK1A1	NM_001892	87.89	2.23	100.61	6.08
ZAP70	NM_001079	90.6	1.27	98.05	0.87
PTK6	NM_005975	98.51	6.7	111.26	15.68
EPHB3	NM_004443	49.27	1.19	37.52	5.66
EPHB6	NM_004445	60.51	4.61	63.76	1.63
MAP3K11	NM_002419	107.05	5.3	116.34	20.02
MAST3	AB011133	99.48	0.3	70.15	2.74
MASK	NM_016542	80.22	1.6	60.27	9.08
FLT4	NM_002020	102.52	7.01	78.66	18.17
INSRR	NM_014215	89.41	13.5	104.56	5.64
GAK	NM_005255	108.97	2.25	96.73	0.19
MAPK3	NM_002746	71.77	16.53	79.53	3.21
POLK	NM_016218	89.07	1.36	90.73	8.67
MAPK6	NM_002748	91.53	1.7	102.4	1.63
ROCK2	NM_004850	103.42	14.21	102.88	3.63
CSNK1E	NM_152221	86.15	3.94	85.1	3.46
PTK2B	NM_173176	86.45	4.96	88.58	2.78
BAIAP2	NM_017451	68.79	3.02	71.48	3.48
EIF2AK4	AK027011	100.61	7.67	106.12	5.9
PTK9	NM_002822	110.59	2.85	100.57	4.73
EGFR	NM_005228	73.51	2.3	78.26	0.19
MAPK8	NM_002750	55.03	1.06	62.71	0.62
TTN	NM_003319	68.52	7.42	69.69	3.17
POLR2K	NM_005034	60.29	2.38	39.9	3.29
WNK3	NM_001002838	70.82	12.48	85.73	5.05
AATK	AK131395	73.47	0.41	87.04	0.76
LYK5	NM_001003787	41.08	2.12	47.39	9.18
PRKCD	NM_212539	62.84	4.99	80.64	0.46
CDC42BPG	NM_017525	70.5	5.43	42.16	2.99
FGFR4	NM_213647	93.19	10.18	66.43	40.68
MAP3K9	NM_033141	59.31	1.45	79.48	7.56

DCAMKL2	NM_152619	114.29	1.07	90.54	7.44
CAMK2B	NM_172078	68.56	2.57	67.92	14.55
CSK	NM_004383	66.72	10.7	55.54	3.27
MAP2K7	NM_145185	115.13	8.11	122.2	4.53
CSNK1G3	NM_004384	104.26	1.96	124.94	8.18
SLK	NM_014720	66.84	8.86	63.8	16.98
ABCC1	NM_004996	93.47	3.3	95.96	9.49
PRKX	NM_005044	91.52	6.63	86.8	15.47
DAPK3	NM_001348	131.76	4.61	108.37	8.84
ABL1	NM_007313	108.03	5.2	133.33	11.39
MAPK9	NM_002752	71.79	5.99	105.16	16.27
ABL2	NM_005158	53.47	0.4	55.28	4.51
ARAF	NM_001654	85.73	11.03	73.39	10.5
PIK3R3	NM_003629	65.13	6.54	76.57	1.42
YES1	NM_005433	80.97	2.58	56.93	0.44
NEK2	NM_002497	90.1	3.45	59.48	7.42
SMG1	NM_015092	109.67	16.3	103.77	0.39
MET	NM_000245	86.46	2.4	86.85	1.19
HSPB8	NM_014365	98.7	10.65	84.58	0.53
TRIM28	NM_005762	25.97	4.44	20.16	3.93
RPS6KA4	NM_003942	101.2	1.87	90.29	9.84
LYN	NM_002350	73.98	0.14	67.98	3.3
AXL	NM_001699	104.39	3.98	101.24	6.01
RPS6KB2	NM_003952	93.13	0.15	59.24	31.07
MAP3K6	NM_004672	100.46	5.32	125.96	11.28
MAP4K5	NM_198794	98.06	5.64	74.39	18.44
IRAK4	NM_016123	103.62	0.03	104.82	10.61
MARK2	NM_017490	84.91	9.15	97.77	2.01
KIAA1639	XM_290923	98.84	1.78	102.05	1.95
AKT2	NM_001626	92.87	7.11	96.85	6.58
RIOK3	NM_003831	106.71	2.83	109.09	1.64
SNF1LK	NM_173354	51.21	0.1	66.46	4.09
CAMK1D	NM_020397	80.27	0.59	87.55	5.11
DDR1	NM_001954	85.64	13.28	76.94	10.21
CRKRS	NM_016507	96.9	2.69	88.63	4.26
WNK1	NM_018979	59.58	1.92	54.35	6.66
MAP2K5	NM_002757	92.97	2.53	101.68	7.17
GSK3A	NM_019884	97.11	1.12	94.45	2.27
CDKL5	NM_003159	89.83	5.88	85.85	10.1
IKBKB	NM_001556	106.93	2.32	92.46	18.28
ROCK1	NM_005406	89.65	0.98	91.78	4.79
CDK8	NM_001260	98.9	5.02	98.21	1.44
BRD4	NM_014299	61.92	3.75	42.48	13.32
PKN3	NM_013355	99.34	9.92	81.36	8.89

AURKA	NM_198437	18.04	3.65	3.57	0.35
ADCK1	NM_020421	99.35	6.33	100.86	6.82
FASTK	NM_006712	83.77	5.24	81.37	6.71
CABC1	NM_020247	89.77	1.04	77.14	0.42
MAP2K2	NM_030662	74.62	1.33	52.86	3.84
PLK4	NM_014264	75.31	1.85	63.81	3.53
MAP3K2	NM_006609	82.8	17.26	69.18	10.45
CDK4	NM_000075	89.15	3.98	78.44	4.44
SCYL1	NM_020680	67.49	3.81	66.7	3.66
HIPK3	NM_005734	99.05	11.38	103.57	8.02
CHEK2	NM_007194	30.52	0.38	46.92	0.74
TLK2	NM_006852	88.21	4.18	44.33	21.67
SCYL3	NM_020423	106.79	1.23	115.54	9.32
UHMK1	NM_175866	80.05	2.65	81.59	8.25
MAP3K7	NM_145331	106.58	2.54	59.39	31.8
MAPKAPK5	NM_003668	66.7	1.11	71.76	3.4
VRK1	NM_003384	72.46	4.89	74.34	0.67
FLJ23356	NM_032237	71.16	3.58	81.07	5.4
BRD3	NM_007371	50.22	4.04	37.74	2.71
CCT2	NM_006431	55.39	2.99	66.33	5.25
PCTK3	NM_212503	83.02	3.02	86.45	11.03
RPS6KB1	NM_003161	74.47	3.84	88.9	10.1
NRBP	NM_013392	69.66	0.33	80.75	3.17
MAP2K4	NM_003010	78.96	11.69	52.41	6.21
CHUK	NM_001278	109.38	5.78	107.69	5.25
CDK5	NM_004935	94.28	7.98	105.13	2.28
DYRK4	NM_003845	110.87	2.73	125.04	16.39
AAK1	NM_014911	89.97	10.13	103.32	9.84
MASTL	NM_032844	76.64	4.28	70.62	12.79
FYN	NM_002037	71.41	8.18	55.96	5.1
CLK3	NM_003992	85.11	5.02	79.87	7.16
MINK1	NM_015716	66.4	7.98	71.49	5.71
CLK2	NM_003993	71.24	4.08	65.03	2.48
MAP4K2	NM_004579	61.44	13.12	74.53	10.19
MKNK2	NM_017572	80.76	2.88	82.8	3.12
CDC2L1	NM_001787	62	6.59	62.85	4.87
SNRK	NM_017719	47.45	2.63	48.48	8.33
NPR1	NM_000906	69.57	1.62	41.61	34.31
TYRO3	NM_006293	89.73	4.69	94.1	2.79
EIF2AK3	NM_004836	55.76	8.84	66.74	8.03
TGFBR1	NM_004612	87.55	0.04	70.71	8.55
JAK1	NM_002227	74.65	6.15	83.87	1.16
PIK3CA	NM_006218	70.41	1.77	64.9	8.33
EPHA2	NM_004431	71.1	2.94	71.93	8.97

LMTK2	NM_014916	103.4	5.06	95.8	0.9
TBK1	NM_013254	70.06	2.08	67.55	11.37
STK3	NM_006281	38.56	0.15	35.4	0.12
STK10	NM_005990	108.77	4.53	107.65	12.02
ULK1	NM_003565	92.66	8.07	84.6	18.49
BCKDK	NM_005881	77.47	2.66	70.85	1.21
HIPK1	NM_198268	95.53	10.89	91.34	10.71
KIAA2002	XM_370878	85.79	8.42	77.92	5.35
GRK6	NM_002082	83.83	3.84	97.77	11.02
IRAK1	NM_001569	82.81	5.41	73.75	12.04
TRIM33	NM_015906	86.03	4.4	71.76	6.48
PIK3CB	NM_006219	63.51	8.62	54.19	6.82
CRKL	NM_005207	66.79	1.87	66.09	6.66
BMPR2	NM_001204	78.87	0.47	74.55	8.35
CSNK1G1	NM_022048	53.42	4.35	46.82	1.8
CDK10	NM_003674	60.52	3.82	35.45	0.64
PIK3C2B	NM_002646	111.05	0.95	72.48	1.88
KIAA0999	NM_025164	95.9	0.83	89.18	3.54
MAP3K4	NM_005922	105.39	4.33	91.51	3.63
PDK4	NM_002612	99.94	1.83	111.3	6.41
TRRAP	NM_003496	71.28	2.98	82.33	8.1
AURKB	NM_004217	45.17	4.28	25.95	1.19
CSNK1D	NM_001893	81.37	6.16	98.43	10.07
CLK1	NM_004071	56.52	1.92	59.44	3.3
PDPK1	NM_002613	90.05	1.45	93.02	4.6
STK38	NM_007271	86.56	4.64	84.16	15.23
DKFZp761P0423	XM_291277	66.09	0.68	44.09	2.13
STK4	NM_006282	94.68	3.07	97.67	8.46
CSNK2A2	NM_001896	76.59	0.92	87.95	14.88
PRKACA	NM_002730	97.77	1.15	89.46	2.27
PIM2	NM_006875	93.72	0.13	95.1	10.88
PRKACB	NM_002731	85.24	0.31	85.75	11.58
TAF1	NM_138923	81.58	4.28	86.5	25.43
CDC42BPA	NM_003607	73.65	0.57	77.52	2.01
CSNK1A1L	NM_145203	77.58	10.25	96.06	8.43
MAPKAPK2	NM_032960	90.98	2.18	91.66	6.03
MGC16169	NM_033115	71.17	1.01	78.38	10.62
TTK	NM_003318	77.18	1.49	52.55	5.36
PRKAG1	NM_002733	97.56	2.27	105.07	1.08
MAST2	NM_015112	94.43	1.97	60.33	40.34
TANK	NM_004180	91.6	5.42	49.05	3.22
RIOK2	NM_018343	75.97	1.17	78.05	15.57
PRKAA2	NM_006252	95.06	3.51	74.29	3.83
SRPK2	NM_182691	75.73	7.77	86.21	14.48

CDC2L6	NM_015076	56.32	2.79	47.8	3.47
SRPK1	NM_003137	68.44	7.64	92.31	19.18
POLR3K	NM_016310	70.02	7.17	80.87	10.63
MAPK14	NM_001315	60.1	5.59	69.91	15.32
ILK	NM_004517	87.08	3.76	83.31	13.92
ICK	NM_014920	53.9	2.85	54.04	1.27
EPHB4	NM_004444	88.65	1.85	80.54	4.56
PIK3C3	NM_002647	81.25	2.62	86.48	11.99
PRKAR1A	NM_002734	93.36	1.15	92.13	13.1
PRPF4B	NM_176800	25	2.95	7.22	1.4
PIK3R4	NM_014602	95.81	6.15	91.27	2.22
MARK3	NM_002376	103	1.45	98.91	4.16
PRKCA	NM_002737	97.35	3.41	92.16	2.06
ADCK4	NM_024876	79.62	0.64	69.69	14.9
PRKCB1	NM_002738	65.44	2.42	85.62	7.31
RIPK2	NM_003821	89.97	6.67	92.53	7.73
BUB1B	NM_001211	91.92	1.84E-03	90.59	0.35
RPS6KA3	NM_004586	91.25	6.92	95.74	7.8
FER	NM_005246	82.27	6.43	70.52	8.34
PRKDC	NM_006904	90.44	11.2	98.04	10.03
CDC2L5	NM_003718	76.06	3.23	61.71	7.5
ERBB2	NM_004448	96.29	7.78	97.82	9.99
PIK3R2	NM_005027	81.24	9.71	71.05	3.05
RIOK1	NM_031480	69.74	2.64	76.64	1.66
STK24	NM_003576	99.22	2.64	105.82	7.29
PCTK2	NM_002595	107.9	1.22	92.75	10.3
TAF1L	NM_153809	91.61	7.22	110.71	16.09
SNF1LK2	NM_015191	76.52	1.31	28.43	2.61
DYRK1A	NM_130436	99.7	3.93	103.18	10.74
CIT	NM_007174	76.67	4.78	91.31	12.46
CLK4	NM_020666	106.76	1.79	109.87	1.02
TTBK1	XM_166453	89.71	6.27	97.08	7.12
CDK2	NM_001798	74.39	2.16	83.57	10.36
CHEK1	NM_001274	68.71	5.19	77.64	14.86
CDK7	NM_001799	103.78	2.01	116.82	2.33
PBK	NM_018492	74.88	3.79	85.13	0.59
PLK2	NM_006622	92.08	8.56	69.5	13.39
PTK2	NM_005607	98.5	9.57	69.31	2.61
ULK3	NM_015518	107.75	11.36	92.12	28.89
PDK3	NM_005391	96.48	8.05	108.49	11.46
LATS2	NM_014572	78.97	1.17	86.31	18.55
MATK	NM_139355	103.68	0.85	112.9	10.49
PTK9L	NM_007284	77.7	1.5	85.18	13.46
PIK4CB	NM_002651	63.78	4.24	74.54	4.03

PI4KII	NM_018425	92.31	7.59	97.36	7.27
TP53RK	NM_033550	69.14	5.17	65.79	21.09
EEF2K	NM_013302	115.65	9.69	108.88	3.34
GSK3B	NM_002093	92.01	3.31	106.83	7.95
TAOK3	NM_016281	92.96	1.82	103.1	3.04
MAST1	NM_014975	98.19	3.72	100.62	15.93
RYK	NM_002958	72.7	0.03	65.35	13.57
CASK	NM_003688	90.87	5.16	79.31	0.3
NEK7	NM_133494	98.53	5.07	111.94	0.09
PRKCI	NM_002740	92.32	0.05	112.7	17.75
RAD18	NM_020165	101.91	1.6	89.69	7.33
TLK1	NM_012290	93.98	1.83	96.42	9.58
BMP2K	NM_198892	48.27	5.04	55.65	6.59
PIK3C2A	NM_002645	94.41	3.15	92.04	19.12
MAP2K3	NM_145109	85.02	7.74	95.79	1.4
BRD2	NM_005104	99.4	5.34	88.07	9.87
FRAP1	NM_004958	67.44	2.75	56.96	9.49
MELK	NM_014791	86.62	9.6	87.71	8.82
CDC7	NM_003503	103.75	8.77	108.52	3.61
OXSRI	NM_005109	98.89	12.68	115.63	10.37
ADRBK1	NM_001619	96.2	1.51	88.1	19.02
ALS2CR2	NM_018571	55.83	6.36	51.3	8.31
IKBKE	XM_375834	88.34	5.79	111.63	13.64