

KinomeScan Signatures

Number of Signatures: 6

Signatures	1	2	3	4	5	6
No. of compounds:	5	4	3	5	4	3
No. of Sim. Target	89	108	142	10	153	107
No. of Rev. Target	202	72	60	150	29	4

Sig 1

Compounds HG-5-88-01 HG-6-64-01 PD173074 TAK-715 WZ4002

SigGenes:same KHDRBS1PPARG RFX5 ERCC6L ZNHIT3 SFN POLE2 HAX1
HOMER2 GSK3A
KHDRBS1PPARG BRAF APBB2 IKBKG CACNA1C POLD4 JMJD6
DCUN1D4 STK33
RNPS1 PPARG SKP2 ZFX NNTDHDDS MAPK13 KDELR2 TIMM22 PRR7
ERBB3 PTPRK FZD5 ID4 ASAP2 IARS2 FKBP14 AP1B1 PXMP2 KEAP1
AURKA TBK1 G3BP1 CEBPZ GTDC1 VAV3 CRELD2 ATP1A3 NARFL
AURKB UBE3C GPER GATA2 UFM1 ACOT9 RSU1 MVP NDRG1
CXCR4 MAPK13 ASH2L GLTSCR1 ABHD4 EFCAB2 TOR1A GSTM2 HDAC1
MAPK9 UBAP1 MYCGATA3 ATP5S LHPP CD58 MCOLN1 HERC6 SPAG7
DHX16 PJA1 ZNF586 PAX8 GSK3A AFG3L2 CD58 FANCL KCTD2 ZAK
MELK RFX5 SSBP2 ADNP2 INPP4B TRAP1 GADD45B FBR5

SigGenes:reverse RNPS1 ERBB3 B3GNT1 ARG1 KDELR3 TSPAN3 SESN1 RPN2
ERBB3 MYO10
BUB1B MYCST3GAL5 EXOSC4 LRP10 ZMYM2 KLHL21 RPN2 ACD MYO10
CSNK2A2KAT6A FDFT1 DSG2 EVL TSPAN4 UTP18 PET112 MAP7
ERBB3 LHX3 UBR7 PPP2R3C ME2TSPAN4 NUP88 ABCF3 TOMM70A
REEP5
ERBB3 BHLHE40GLTSCR1 PPP2R3C VPS26A ANO10 CDC45 ACD VGLL4 TSPAN3
DNM1L ETS2 ATP5S EFCAB2 SNX6 GPC1 BBS9 BRAF SPAG7
EPHB4 TCFL5 TCIRG1 EFCAB2 CDCA4 SORBS3 ARID4B TOMM34
TIMM17B MAPK1IP1L
PPAP2A NFIL3 JUN CD44 BIRC5 SORBS3 NIPBL FCHO1 ZNF629 BAMBI
TBK1 TCERG1 MYCEFN3 YME1L1 ENOSF1 FAIM FBR5 UBE3C
SMARCC1 MYCYKT6 XPNPEP1TMEM110 TMEM2 THAP11 SETD1B UTP14A
CTSL2 ERCC6L KRAS CASC3 SRSF8 TMEM110 ARID4B NVL SCAND1
ARPP19 SENP6 ZFX SLC37A4 IGF2R INTS3 TMEM50A SCP2 SRP14
CCDC86 GPC1
FBXO7 ID4 ATP6V1DPLXNA2 SPEN KIAA0196 SFMBT1 TOMM34
KIAA0528
TSKU CEBPZ SLC25A14 SYNE2 ADCY3 TMEM97NARFL FAM63A PIH1D1
MGST2

SNRPD1	EXT1	CLIC4	HAX1	DDB2	TMEM97	PXMP2	FAM63A	PIH1D1
SCP2								
LAMA3	RPA3	KCNK1	HAX1	HIST1H2BK	FAM20B	WDR61	KIAA0753	
CCDC85B	PAX8							
ZFP36	IKBKB	CCNB2	TP53BP2	PRR15L	C2CD2L	WDR61	BAMBI	YTHDF2
KRAS								
MLLT11	XBP1	EPRS	MLEC	PRR15L	DPH2	PXMP2	MVP	NISCH
VPS72	PAX8	AKR1A1	MLEC	ZBTB24	ZER1	SYNGR3	ANKRD10	DDX10
PHKB	TARBP1	IQGAP1	ANKRD49	LZIC	HOOK2	TIMM9	LAGE3	CRKL
BAG3	AFF1	RAB31	TPM1	TJP1KLHL21	DNAJC15	AURKA	KIAA1009	
USP14	PHGDH	CHN1	TPM1	DYNLT3	TCTA	GSTM2	STK33	KIAA1009
GM2A	LGMN	PAFAH1B2	SGCB	REEP5	CEP57	TIMM9	AURKA	PWP1
GPBR	ARHGEF5	PARN	BID	BTG3	ANO10	SCAF8	BRAF	DNAJC15
MAPK13	NRAS	ABHD4	PGRMC1	KAZALD1	SESN1	SPAG7	AURKA	TRAK2
PRKCD	FBXL12	CNDP2	PGRMC1	KAZALD1	CABIN1	BBS9	ERBB3	GLOD4

Sig 2

Compounds ALW-II-38-3 ALW-II-49-7 CP724714 QL-XI-92

SigGenes:same KHDRBS1UBE3C MYCNSDHL SLC16A6 RRAGA PLS1MCOLN1 LAGE3

ZBTB5									
ERBB3	UBE3C	DPF1	NDUFA2	SLC1A4	ACOT9	SCARB1	DFNB31	ZAP70	ZAK
AURKA	CTSL2	APBB2	NDUFB6	GSK3A	PPICCD58	GNAS	ERBB3	RFNG	
CTSD	ID4	CORO1A	JUN	ATP11B	IL13RA1	LPGAT1	ERBB3	CRKL	
AURKB	KIAA0317	CEBPZ	ASAP2	MYCLHPP		IGF2R	CTNNAL1	CRKL	
PRKCE	HDAC1	KRAS	NRAS	GSK3A	ADI1	TRAP1	FASTKD5	LYPD3	
PIN1	RFX5	HES1	KRAS	PPP2R5B	POLE2	SYNE2	KIAA0196	NDRG1	
DHX16	BRAF	GATA2	ASMTL	SLC37A4	POLD4	GADD45A	KIAA0922		
SMG7									
DHX16	RPS6KL1	GATA3	DDOST	KCTD5	MAPK13	GRB10	SYNGR3	CDKN1A	
MELK	SKP2	ADNP2	OXCT1	CACNA1C	PPP2R3C	FEZ2	ARID5B	MYC	
PPARG	GM2A	ZNHIT3	GLRX	CACNA1C	FKBP14	SNX17	GSTM2	TBK1	
STK33	GPER	GTDC1	IARS2	CRELD2	PMPCB	THAP11	RPS6KB1		
TBK1	LIMK2	IKBK	NPRL2	PRSS23	CRELD2	TOR1A	KIAA1279	SPAG7	

SigGenes:reverse CDK19 KDM5B EFCAB2 XPNPEP1 TMEM110 UTP18 GSTM2

ZNF395	ZNF629	MYO10						
UBAP1	TARBP1	CD44	SERTAD3	KIAA0922	ARID4B	RPN2	BRAF	SETD1B
MAP7								
MLLT11	PMF1	PLXNA2	DYNLT3	TMEM97	NIPBL	FBR5	MAPK13	SETD1B
TSPAN3								
RPS6KL1	PEX12	TPM1	KAZALD1	TMEM97	NARFL	THAP11	ZAP70	YTHDF2
BAMBI								
BAG3	FBXL12	GADD45A	KAZALD1	GPR125	PXMP2	FBR5	PET112	NISCH
UTP14A								

STUB1	SLC25A14	GRB10	TSPAN4	STAP2	WDR61	KIAA0753	PET112
PWP1	SCP2						
GM2A	CBR3	LYRM1	TMEM110	KLHL21	ARID5B	KIAA0753	VGLL4
SLC25A46	PAX8						
UBL5	POP4	AP1B1	NIPBL	RAI14	TIMM9	ANKRD10	PRR7
							RPS6KA4

Sig 3

Compounds KIN001-127 GDC-0941 QL-X-138

SigGenes:same SRRM1 UBE2C SMARCA4 ID2 ASMTL PPP2R5B RAB31 SWAP70
 FEZ2 DYNLT3
 ERBB3 KIAA0317 APBB2 ADNP2 HAT1 BCL2 SUCLG1 CRELD2 SNX17
 KIAA0196
 AURKA GDPD5 GMEB2 PDS5B SPTLC2 KRAS MAN2A2 CRELD2 SEC24B
 RBM34
 AURKB RFX5 CIRBP IKBKG OXCT1 SLC37A4 ABHD4 PLS1RAP1GAP
 TSPAN6
 AURKB CRKL ZFX IKBKG GLRX CAB39 ATP11B SPRED2 RAP1GAP
 GSK3A
 MAPK9 DUSP22 ID4 PMF1 GLRX KCTD5 SUPV3L1 SCARB1 MALT1 AURKB
 MAPK9 DUSP22 KRAS NDUFA3 GTDC1 SLC35F2 FAH SCARB1 INTS3 AURKA
 ILK STUB1 RAD9A NDUFA2 GNA11 CACNA1C TSEN2 IL13RA1 ZRSR2
 ERBB3
 PIN1 SKP2 RAD9A NDUFA3 HK1 KCNK1 TSEN2 IL1RAP RSU1 NDRG1
 DNMT1L G3BP1 HES1 NDUFA2 NPRL2 CCNB2 CANT1 CASC3 COL4A5 MYC
 DHX16 PHKG2 HES1 NDUF6 NPRL2 IARS2 CANT1 IGF2R COL4A5
 KDM5B
 MELK LIMK2 GATA2 BDH1 VAT1 CBR3 POLE2 TRAP1 MCOLN1
 ZBTB5
 PPARG MYCGATA2 NRAS SLC16A6 AMDHD2POLD4 PUM2 DFN31 ZAK
 STK33 GPR56 ASH2L CGRRF1 GSK3A AMDHD2POLD4 GADD45A GNAS
 JUN
 UBE3C CREG1 ASH2L FBXL12 CRYZ PRSS23 LRP4 YTHDF1 SERTAD3
 UBE3C ETS2 GATA3 RBBP6 MAPK13 YTHDF1 CENPE
 CAPN1 ZNF586 NR3C1 FBXO21 GSK3A RRAGA TBC1D9BGRB10 LPGAT1
 CTS2L SMARCA4 HOXC9 ASMTL GSK3A VAV3 TBC1D9BMETRN HOMER2

SigGenes:reverse BAG3 EML3 KIAA0922 ARID4B IFIT5 BAMBI ZNF629
 KIAA1009 TSPAN3
 STUB1 KAZALD1 TMEM97 SCP2 FBR5 ANKRD10 ZNF629 KIAA1009
 HEATR1
 PEX12 KAZALD1 FAM69A NARFL THAP11 ZNF395 SETD1B PWP1 MYC
 MICALL1 ZMYM2 TMEM97 PXMP2 TMEM127 FAIM SETD1B SLC25A46
 BTBD3
 TPM1 TSPAN4 GPR125 GSTM2 FBR5 PET112 CCDC85BDNAJC15 BAMBI
 TPM1 NIPBL STAP2 PIGB TMEM127 VGLL4 KIF5C RAI14 UTP14A

PRR15L PLEKHM1 DPH2 PWP1 KIAA0753 HIGD2A YTHDF2 MYO10
 SCP2
 SERTAD3 KIAA0922 UTP18 RPN2 FAM63A PRR7 NISCH REEP5

Sig 4

Compounds GW-5074 WH-4-023 PLX-4720AZD1152-HQPA WZ-4-145
SigGenes:same GLTSCR1 PPP2R3C KAZALD1 TMEM127 ZAP70
 ATP5S LYRM1 PWP1 FBR5 BAMBI
SigGenes:reverse CSK DUSP22 NRIP1 HSD17B11 MSRA LRP4 EVL CNPY3
 KIAA1279 WDR67
 PRKCE BAG3 NRIP1 UBR7 PRSS23 S100A13 FEZ2 CHCHD7 KIAA1279
 DNAJC15
 ILK SKP2 PAX8 HK1 PRSS23 CDH3 RAP1GAP KIAA0922 BLCAP
 RAI14
 DNMT1L PARP2 PAX8 HGS RAB31 PPP2R3C BIRC5 ZER1 ABCF3 NDRG1
 PPARG FZD5 ADCK3 SLC16A6 RAB31 CRELD2 XPNPEP1 CABIN1 FBR5
 MAP7
 CDK19 PHKG2 ADNP2 SLC1A4 CHN1 PLS1INTS3 DPH2 KIAA1279
 TBK1
 RPS6KB1 PRKCD AFF1 GSK3B RAB21 IL13RA1 ADCY3 TCTA FAM63A
 SPAG7
 ARHGEF2 MYCPDS5B SUCLG1 YKT6 COL4A5 CEP57 ERBB3 FAM57A
 CAPN1 CREG1 ZNHIT3 GSK3A PAFAH1B2 CASC3 MCOLN1 SESN1 RPS6KA4
 JUN
 CTS2L2 KDM5B NDUFA3 ERBB2 RPIAIGF2R DFN3B1 CDC45 ZAP70 JUN
 UBAP1 KDM5B WIPF2 GSK3B RPIATRAP1 PRR15L SFMBT1 TIMM17B JUN
 PJA1 ZNF586 NRAS CDKN1A ABHD4 SYNE2 SERTAD3 ARID4B SETD1B JUN
 UVRAG ZFX PEX12 SLC37A4 ABHD4 HAX1 LPGAT1 NARFL SCAND1 AURKB
 LAMA3 ID4 FBXL12 KCTD5 CANT1 CEP55 TBCB ABHD6 PIH1D1 ZAK
 BRAF PHF15 RBBP6 SLC35F2 ADI1 MICALL1 CTNNAL1 HERC6 RAI14
 CRKL GATA3 ASMTL CACNA1C INPP4B MICALL1 TSPAN3 HERC6
 SLC25A46
 SRSF4 HOXC9 ASMTL CBR3 POLD4 YTHDF1 FASTKD5 ARPP19 SETDB1

Sig 5

Compounds GNF2 AS601245 A443644 WZ3105
SigGenes:same KHDRBS1 DUSP22 COPS5 GTDC1 RAB31 CASC3 XPNPEP1 ARID4B
 LAGE3 PRR7
 RNPS1 SKP2 KAT6B UBR7 CHN1 SYNE2 SRSF8 COG4 WDR61
 SETD1B
 ERBB3 FZD5 NRIP1 HGS SUCLG1 HAX1 INTS3 ARID5B BRAF SCAND1
 AURKB TNIP1 PAX8 NPRL2 ACOT9 PUM2 DFN3B1 VAPB AURKA
 CCDC86

PRKCE LIMK2 TARBP1 GSK3B PARN MICALL1 GADD45B VAPB STK33
 LYPD3
 DNMT1L CHEK2 AFF1 JUN ABHD4 MICALL1 TBCB SYNGR3 BRAF SCAND1
 DHX16 MYCIKBKG MYCABHD4 BID KAZALD1 GSTM2 GSK3A CRKL
 ABL1 AURKA TTF1 GSK3A ATP11B PGRMC1 SORBS3 HERC6 AURKA
 SMG7
 MELK KAT6A PDHX GSK3A CANT1 SRPRB KIAA0196 HERC6 ZAP70
 REEP5
 PPARG LHX3 BDH1 SLC37A4 DERA KDEL3 KIAA0922 ARPP19 FAIM
 MAP7
 STK33 ZNF586 ASAP2 SLC37A4 POLD4 EVL CHCHD7 LRRC16A STK33 MYC
 PPP2R5E SMARCC1 NRAS SLC37A4 PPP2R3C CYB561 PLEKHM1 NSFL1C
 ERBB3 MAPK1IP1L
 SENP6 GMEB2 CGRRF1 CAB39 CRELD2 TXNDC9 C2CD2L KIAA1279 BRAF
 CTNND1
 FBXO7 ELAVL1 SPTLC2 KCTD5 PLS1SNX6 TRAM2 THAP11 BRAF MGST2
 PJA1 ID4 DDOST KCNK1 EFCAB2 ATP1A3 ANO10 TMEM127 CRKL
 FHL2 ZNF692 GSTZ1 TARS SCARB1 RAP1GAP SESN1 KIAA1279
 TIMM17B
 BRAF ZNF692 ST3GAL5 CBR3 IL13RA1 BIRC5 RAI14 PLEKHJ1 HIGD2A
 EPHA2 HES1 GLRX RRAGA IL1RAP YME1L1 SFMBT1 FAM63A HIGD2A
SigGenes:reverse ABL1 GPER ZNHIT3 MYCSLC25A14 IL13RA1 STX1A GPR125
 ZNF395 ZNF131
 UBAP1 SSBP2 UFM1 MYCVAV3 TRAP1 SERTAD3 SH3BP5 ZAP70 RPS6KA4
 CD97 ID4 GLTSCR1 SFN INPP4B JMJD6 EML3 UTP18 KIF5C

Sig 6

Compounds PD0332991 WZ-7043 XMD11-50

SigGenes:same ERBB3 SKP2 IKBKG SLC37A4 CD58 DYNLT3 UXT LAGE3
 WDR67 AURKB
 MAPK9 SKP2 NDUFA3 CACNA1C ABCC5 CNPY3 GSTM2 LAGE3 DNAJC15
 ZAK
 DHX16 PARP2 BDH1 CBR3 HAX1 KIAA0922 IFIT5 GSK3A UXT JUN
 PPARG PHKG2 BDH1 PRSS23 TPM1 HERC6 BRAF TXLNA PAX8
 CDK19 MYCASAP2 RRAGA YTHDF1 C2CD2L HERC6 STK33 RAI14
 ARHGEF2 MYCASMTL VAV3 FEZ2 CDC45 ACD STK33 HGS
 UBE3C ETS2 ST3GAL5 RAB31 FEZ2 CABIN1 KIAA1279 PRR7 NDRG1
 CTSL2 ID4 GTDC1 RAB31 AP1B1 UTP18 BBS9 PRR7 TMCO1
 UBAP1 ZNF692 HK1 RPIAMALT1 GOLIM4 PLEKHJ1 LYPD3 CDKN1A
 KIAA0317 ASH2L HGS RPIASTAMPB CDC45 PRAF2 KIF5C TRAK2
 CRKL HOXC9 GSK3A SUPV3L1 MCOLN1 NIPBL NSFL1C SCAND1 TBK1
 SRSF4 PAX8 GSK3B POLD4 DFN31 SLC25A46 TMEM127 RAI14
 SPAG7
 BAG3 ADNP2 MYCPOLD4 ALMS1 MVP TMEM127 SLC25A46 SCP2

SKP2 PDS5B GSK3A LGALS8 SERTAD3 SYNGR3 PLEKHJ1 SETDB1 ARPP19
SigGenes:reverse STK33 GLTSCR1 MYCZAP70