

Wild Type Protein Kinases

RBC Name	HUGO symbol	General Substrate	Genbank Accession #	Protein Accession #	Clone	Mutation	Expression	Tag
http://www.genenames.org/cgi-bin/hgnc_search.pl								
ABL1	ABL1	Abltide	NP_005148.2	P00519	full-length	-	baculovirus in Sf21 insect cells	C-terminal His
ABL2/ARG	ABL2	Abltide	NP_009298	P42684	full-length	-	baculovirus in Sf21 insect cells	C-terminal His
ACK1	TNK2	Abltide	NP_005772.3	Q07912	aa 110-476	-	baculovirus in Sf21 insect cells	N-terminal GST
AKT1	AKT1	Crosstide	NP_005154	P31749	full-length	-	baculovirus in Sf21 insect cells	N-terminal His
AKT2	AKT2	Crosstide	NP_001617	P31751	full-length	-	baculovirus in Sf21 insect cells, activated by PDK1	N-terminal His
AKT3	AKT3	Crosstide	NP_005456	Q9Y243	full-length	-	baculovirus in Sf21 insect cells	N-terminal His
ALK	ALK	pEY	NP_004295.2	Q9UM73	cytoplasmic	-	Insect	N-terminal GST
ALK1/ACVRL1	ACVRL1	Casein + Mn	NP_000011.2	P37023	cytoplasmic aa139-503	-	Insect	N-terminal GST
ALK2/ACVR1	ACVR1	Casein + Mn	NP_001096.1	Q04771	cytoplasmic aa145-509	-	Insect	N-terminal GST
ALK3/BMPR1A	BMPR1A	Casein + Mn	z	P36894	Catalytic domain (aa187-532end)	Q233D	baculovirus insect cell, co-expressed with BMPR12 (aa174-1038) and purified	N-terminal GST-tag
ALK4/ACVR1B	ACVR1B	Casein + Mn	NP_004293	P36896	aa 150-505	-	Baculovirus infected insect cells	N-terminal GST
ALK5/TGFBR1	TGFBR1	Casein + Mn	NM_004612	P36897	aa200-503	-	Sf9 cells	GST-HIS fusion
ALK6/BMPR1B	BMPR1B	Casein + Mn	NM_001203	O00238	Catalytic (aa149-end)	-	Insect	N-terminal GST-tag
ARAF	ARAF	MEK1 (K97R)	NM_001654	P10398	aa 282-end	YY301-302DD	Baculovirus infected Sf9 cells	N-terminal GST-tag
ARK5/NUAK1	NUAK1	CHKtide	NP_055655	O60285	full-length	-	Insect	N-terminal His
ASK1/MAP3K5	MAP3K5	MBP	NP_005914	O99683	full-length	-	Insect	N-terminal GST
Aurora A	AURKA	Kemptide	NP_940839	O14965	full length	-	baculovirus in Sf21 insect cells	N-terminal His6-tag
Aurora B	AURKB	Kemptide	NP_004208.2	Q96GD4	full-length	-	Insect	N-terminal His
Aurora C	AURKC	Kemptide	AAH75064, NP_003151	Q9UQB9	full-length	-	Insect	N-terminal His
AXL	AXL	Abltide	NP_068713	P30530	aa 473-894	-	Baculovirus infected Sf9 cells	C-terminal His
BLK	BLK	pEY	NP_001706	P51451	full-length	-	Insect	N-terminal His
BMPR2	BMPR2	MBP	NM_001204	Q13873	Catalytic (aa174-end)	-	Insect	N-terminal His-tag
BMX/ETK	BMX	pEY	NP_001712	P51813	full length	-	baculovirus in Sf21 insect cells	C-terminal His
BRAF	BRAF	MEK1 (K97R)	NP_004324.2	P15056	full-length	-	Insect	N-terminal GST
BRK	PTK6	pEY + Mn	NP_005966	Q13882	full-length	-	Insect	C-terminal His
BRSK1	BRSK1	CHKtide	NP_115806	Q8TDC3	full-length	-	Insect	N-terminal GST-tag
BRSK2	BRSK2	ZIptide	GenBank NM_003957	Q8IWQ3	full-length	-	baculovirus in Sf21 insect cells	N-terminal His6-tag
BTK	BTK	pEY	NP_000052	Q06187	full-length	-	Insect	N-terminal His6-tagged
CAMK1a	CAMK1	Autocamtide 2 + Ca-CaM	NP_003647.1	Q14012	full length	-	baculovirus insect cell	N-terminal His-tag
CAMK1b	PNCK	Autocamtide 2 + Ca-CaM	GenBank NM_012040	Q6P2M8	full length	-	baculovirus insect cell	N-terminal GST-tag
CAMK1d	CAMK1D	Autocamtide 2 + Ca-CaM	NP_705718.1	Q8IU85	full length	-	baculovirus insect cell	N-terminal His-tag
CAMK1g	CAMK1G	Autocamtide 2 + Ca-CaM	GenBank NM_020439	Q96NX5	C-terminal truncation	-	baculovirus insect cell	N-terminal GST-tag
CAMK2a	CAMK2A	Autocamtide 2 + Ca-CaM	NP_741960	Q9UQM7	full length	-	baculovirus insect cell	C-terminal His-tag
CAMK2b	CAMK2B	Autocamtide 2 + Ca-CaM	NP_742078.1	Q13554	full length	-	baculovirus insect cell	N-terminal His6-tag
CAMK2d	CAMK2D	ZIptide + Ca-CaM*	NP_742113	Q13557	full length	-	baculovirus insect cell	C-terminal His6-tag
CAMK2g	CAMK2G	ZIptide + Ca-CaM*	GenBank NM_172169	Q13555	C-terminal truncation	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
CAMK4	CAMK4	ZIptide + Ca-CaM*	NP_001735	Q16566	full length	-	E. coli	N-terminal GST-tag
CAMKK1	CAMKK1	MBP + Ca-CaM	GenBank NM_032294	Q8N559	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST
CAMKK2	CAMKK2	MBP + Ca-CaM	NP_757380.1	Q96RR4	full-length	-	Baculovirus infected insect cells	N-terminal GST
CDC7/DBF4	CDC7/DBF4	PDKtide	NM_003503, NM_006716	CDC7:O00311; DBF4:Q9UBU7	full-length CDC7; full-length DBF4	-	Insect	N-terminal GST-tag
CDK1/cyclin A	CDK1/CCNA2	Histone H1	NM_001786/NM_001237	CDK1: P06493; cyclin A: P20248	full length / full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag / N-terminal GST-tag
CDK1/cyclin B	CDK1/CCNB1	Histone H1	NP_001777/BP_114172	CDK1: P06493; cyclin B: P14635	full length / full length	-	baculovirus insect cell	C-terminal His6-tag / N-terminal His6-tag
CDK1/cyclin E	CDK1/CCNE1	RB Protein	NM_001786/M73812	CDK1: P06493;	full length / full length	-	Insect	N-terminal GST-tag
CDK2/cyclin A1	CDK2/CCNA1	Histone H1	MN_001798, BC036346	CDK2: P24941;	full-length	-	Insect	N-terminal GST-tag

CDK2/cyclin A	CDK2/CCNA2	Histone H1	NP_001789, NP_001228	CDK2: P24941; cyclin A: P20248	full-length	-	Insect	N-terminal His6-tag / N-terminal His6-tag
CDK2/cyclin E	CDK2/CCNE1	Histone H1	NM_001798, NM_001238	CDK2: P24941; cyclin E1: P24864	full length / full length	-	baculovirus in Sf9 insect cells	N-terminal His6-tag / N-terminal GST-tag
CDK2/cyclin E2	CDK2/CCNE2	Histone H1	NM_001798, NM_057749	CDK2: P24941;	full length / full length	-	baculovirus in Sf9 insect cells	Both N-terminal GST-tag
CDK2/cyclin O	CDK2/CCNO	Histone H1	NM_001798, NM_021147	CDK2: P24941; cyclin O: P22674	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag / N-terminal GST-tag
CDK3/cyclin E	CDK3/CCNE1	Histone H1	NM_001258, NM_001238	CDK3: Q00526;	full length / full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
CDK3/cyclin E2	CDK3/CCNE2	Histone H1	NM_001258, NM_057749	CDK3: Q00526;	full length / full length	-	baculovirus in Sf9 insect cells	Both N-terminal GST-tag
CDK4/cyclin D1	CDK4/CCND1	RB-CTF	NP_000066, NP_444284	CDK4: P11802;	full length	-	baculovirus insect cell	N-terminal GST-tag
CDK4/cyclin D3	CDK4/CCND3	RB-CTF	NM_000075, NM_001760	CDK4: P11802;	full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
CDK5/p25	CDK5/CDK5R1	Histone H1	NP_004926.1, NP_003876	CDK5: Q00535; p25: Q15078	full length / full length	-	baculovirus insect cell	N-terminal His6-tag / N-terminal GST-tag
CDK5/p35	CDK5/CDK5R1	Histone H1	NP_004926.1, NP_003876	CDK5: Q00535; p35: Q15078	full length / full length	-	baculovirus insect cell	N-terminal His6-tag / N-terminal His6-tag
CDK6/cyclin D1	CDK6/CCND1	RB-CTF	NP_001250, NP_444284	CDK6: Q00534;	full-length	-	Baculovirus infected insect cells	N-terminal GST
CDK6/cyclin D3	CDK6/CCND3	RB-CTF	NM_001259, NM_001760	CDK6: Q00534; Cyclin D3:	full length / full length	-	co-expressed by baculovirus in Sf9 insect cells	N-terminal His6-tag / N-terminal His6-tag
CDK7/cyclin H	CDK7/CCNH/MNAT1	MBP	NP_001790, NP_001230, NP_002422.1	CDK7: P50613; Cyclin H:	full-length	-	Insect	N-terminal His
CDK8/cyclin C	CDK8/CCNC	CHKtide	XP_005266272.1, NP_005181.2	CDK8: P49336; cyclin C: P24863	full length / full length	-	baculovirus in Sf9 insect cells	N-terminal GST-His-tag/N-terminal His-tag
CDK9/cyclin K	CDK9/CCNK	PDKtide	NM_001261, BC015935	CDK9: P50750; Cyclin K: O75909	full length / full length	-	co-expressed by baculovirus in Sf9 insect cells	N-terminal GST-tag / N-terminal GST-tag
CDK9/cyclin T1	CDK9/CCNT1	PDKtide	NP_001252, NP_001231	CDK9: P50750;	full-length	-	Insect	N-terminal His
CDK9/cyclin T2	CDK9/CCNT2	PDKtide	NM_001261, NM_001241	CDK9: P50750;	full-length	-	co-expressed by baculovirus in Sf9 insect cells	N-terminal GST-tag
CDK14 (PFTK1)/cyclin Y	CDK14/CCNY	RB Protein	NM_012395, NM_145012	CDK2: P24941; cyclin Y: Q8ND76	full-length/aa2-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag / N-terminal GST-tag
CDK16/cyclin Y	CDK16/CCNY	RB Protein	NP_006192.1/ NP_659449.3	CDK16: Q00536; cyclin Y: Q8ND76	full length (1-496)/full length (1-341)	-	coexpression in baculovirus in Sf9 insect cells	N-terminal GST-His-3C-tag/N-terminal His-TEV-tag
CDK17/cyclin Y (PCTK2)	CDK17/CCNY	MBP	NM_002595, NM_145012	CDK17: Q00537; cyclin Y: Q8ND76	full-length/aa2-end	-	coexpressed baculovirus in Sf9 insect cells	N-terminal GST-tag / N-terminal GST-tag
CDK18/cyclin Y	CDK18/CCNY	RB Protein	BC011526, NM_145012	CDK18: Q07002; cyclin Y: Q8ND76	full-length/aa2-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag / N-terminal GST-tag
CDK19/cyclin C	CDK19/CCNC	CHKtide	NP_055891.1, NP_005181.2	CDK19: Q9BWU1; Cyclin	aa 1-502/aa 1-283	-	co-expressed by baculovirus in Sf9 insect cells	N-terminal GST-His-3C-tag/N-terminal His-tag
CHK1	CHEK1	CHKtide	GenBank NM_001274	O14757	full length	-	baculovirus in Sf9 insect cells	N-terminal His
CHK2	CHEK2	CHKtide	NP_009125	Q96017	full-length	-	baculovirus in Sf21 insect cells	C-terminal His
CK1a1	CSNK1A1	CK1tide	NP_001883.4	P48729	full length	-	baculovirus insect cell	GST-tag
CK1a1L	CSNK1A1L	CK1tide	BC028723	Q8N752	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
CK1d	CSNK1D	CK1tide	NP_620693	P48730	full length	-	baculovirus insect cell	N-terminal GST-tag
CK1epsilon	CSNK1E	CK1tide	NP_001885	P49674	full length	-	baculovirus insect cell	C-terminal His-tag
CK1g1	CSNK1G1	CK1tide	NP_071331	Q9HCP0	full-length	-	Insect	N-terminal GST
CK1g2	CSNK1G2	CK1tide	NP_001310	P78368	full length	-	baculovirus insect cell	C-terminal His-tag
CK1g3	CSNK1G3	CK1tide	NP_004375.1,	Q9Y6M4	full-length	-	Insect	N-terminal GST
CK2a	CSNK2A1	CK2 sub	NP_001886	P68400	full length	-	baculovirus insect cell	C-terminal GST-tag
CK2a2	CSNK2A2	CK2 sub	NP_001887	P19784	full length	-	baculovirus insect cell	N-terminal GST-tag
c-Kit	KIT	pEY + Mn	NP_000213	P10721	aa 544-976	-	Insect	His6-tag
CLK1	CLK1	MBP	NP_004062	P49759	full catalytic domain	-	E. coli	N-terminal GST
CLK2	CLK2	MBP	NP_003984	P49760	catalytic domain aa137-498	-	baculovirus insect cell	N-terminal GST
CLK3	CLK3	MBP	NP_003983	P49761	full-length	-	Insect	N-terminal GST
CLK4	CLK4	MBP	NP_065717	Q9HAZ1	full-length	-	Insect	N-terminal GST
c-MER	MERTK	pEY	NP_006334.2	Q12866	aa 578-872	-	baculovirus insect cell	N-terminal GST
c-MET	MET	MBP	NP_000236.2	P08581	aa 956-1390	-	baculovirus insect cell	N-terminal His
COT1/MAP3K8	MAP3K8	MEK1 (K97R)	NP_005195	P41279	aa 30-397	-	Baculovirus infected insect cells	N-terminal GST
CSK	CSK	pEY	NP_004374	P41240	full-length	-	E. coli	C-terminal His

c-Src	SRC	pEY	NP_005408	P12931	full-length	-	Insect	C-terminal His
CTK/MATK	MATK	pEY	NP_647611	P42679	full-length	-	Insect	C-terminal His
DAPK1	DAPK1	ZIPTide	NP_004929	P53355	full catalytic (aa 1-363)	-	Insect	N-terminal GST
DAPK2	DAPK2	ZIPTide + Ca-CaM	NP_055141	Q9UIK4	full catalytic	-	Insect	N-terminal GST
DCAMKL1	DCLK1	ZIPTide	NM_004734	O15075	full-length	-	Insect	N-terminal GST-tag
DCAMKL2	DCLK2	ZIPTide	NP_689832	Q8N568	full-length	-	Baculovirus infected insect cells	N-terminal GST
DDR1	DDR1	IRS1tide	NP_001945.3	Q08345	Catalytic (aa444-876)	-	Insect	N-terminal GST-tag
DDR2	DDR2	AXLTide + Mn	NP_006173.2	Q16832	aa 422-855	-	baculovirus in insect cells, activated in vitro autoactivation	N-terminal GST-His-3C-tag
DLK/MAP3K12	MAP3K12	MBP	NP_006292.2	Q12852	Catalytic (aa 1-520)	-	Insect	N-terminal GST-tag
DMPK	DMPK	SGKtide	NP_004400	Q09013	full-length	-	Insect	N-terminal GST
DMPK2/CDC42BPG	CDC42BPG	DAPK1tide	NM_017525	Q6DT37	Catalytic domain (aa1-475)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
DRAK1/STK17A	STK17A	ZIPTide	NP_004751	Q9UEE5	full-length	-	Insect	N-terminal GST
DYRK1/DYRK1A	DYRK1A	DYRKtide	NP_001387	Q13627	full-length	-	Insect	N-terminal GST
DYRK1B	DYRK1B	DYRKtide	NP_004705	Q9Y463	full-length	-	Insect	N-terminal GST
DYRK2	DYRK2	DYRKtide	NM_003583	Q92630	full length	-	baculovirus in Sf21 insect cells	His6-tag
DYRK3	DYRK3	DYRKtide	NP_003573	O43781	full length	-	Insect	N-terminal GST
DYRK4	DYRK4	DYRKtide	NP_003836.1	Q9NR20	full length	-	Insect	N-terminal GST
EGFR	EGFR	pEY + Mn	NP_005219.2	P00533	cytoplasmic	-	Insect	N-terminal GST
EPHA1	EPHA1	pEY + Mn	NP_005223.2	P21709	cytoplasmic	-	Insect	N-terminal GST
EPHA2	EPHA2	pEY	NP_004422.2	P29317	cytoplasmic	-	Insect	N-terminal GST
EPHA3	EPHA3	pEY + Mn	NP_005224	P29320	cytoplasmic	-	Insect	C-terminal His
EPHA4	EPHA4	pEY + Mn	NP_004429.1	P54764	aa 616-887	-	baculovirus in insect cells	N-terminal GST
EPHA5	EPHA5	pEY + Mn	NP_004430.1	P54756	aa 595-1037	-	baculovirus in insect cells	N-terminal GST
EPHA6	EPHA6	pEY + Mn	NM_001080448	Q9UF33	Catalytic (683-end)	-	baculovirus in Sf9 insect cells	N-terminal GST
EPHA7	EPHA7	pEY	NP_004431.1	Q15375	catalytic domain (aa 579-998)	-	baculovirus insect cell	N-terminal GST-tag
EPHA8	EPHA8	pEY	NP_065387	P29322	catalytic domain (aa 565-1005)	-	baculovirus insect cell	N-terminal GST-tag
EPHB1	EPHB1	pEY	NP_004432	P54762	cytoplasmic	-	Insect	N-terminal GST
EPHB2	EPHB2	pEY + Mn	NP_004433	P29323	aa 616-889	-	Insect	GST
EPHB3	EPHB3	pEY	NP_004434	P54753	cytoplasmic	-	Insect	N-terminal GST
EPHB4	EPHB4	pEY	NP_004435	P54760	cytoplasmic	-	Insect	C-terminal His
ERBB2/HER2	ERBB2	pEY + Mn	GenBank X03363	P04626	aa679-1255	-	Insect	N-terminal GST
ERBB4/HER4	ERBB4	pEY + Mn	NP_005226	Q15303	aa 708-993	-	baculovirus insect cell	N-terminal GST
ERK1/MAPK3	MAPK3	MBP	NP_002737	P27361	full-length	-	Insect	N-terminal GST
ERK2/MAPK1	MAPK1	MBP	NP_620407	P28482	full-length	-	E. coli	N-terminal GST
ERK5/MAPK7	MAPK7	MBP	NM_139032	Q13164	full-length	-	Insect	N-terminal GST-tag
ERK7/MAPK15	MAPK15	MBP	NP_620590.2	Q8TD08	aa 1-354	-	baculovirus insect cell, Activated in-vitro via autophosphorylation	N-terminal FLAG-tag, C-terminal His8-Tag
ERN1/IRE1	ERN1	MBP	NM_001433	O75460	aa 468-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
ERN2/IRE2	ERN2	MBP	NM_033266	Q76MJ5	aa 449-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
FAK/PTK2	PTK2	pEY	NP_722560	Q05397	full-length	-	Insect	N-terminal GST
FER	FER	pEY	NP_005237	P16591	aa540-822	-	baculovirus insect cell	N-terminal GST
FES/FPS	FES	pEY	NP_001996	P07332	full-length	-	Insect	C-terminal His
FGFR1	FGFR1	pEY + Mn	NP_000595	P11362	cytoplasmic	-	Insect	C-terminal His
FGFR2	FGFR2	pEY + Mn	NP_075261	P21802	cytoplasmic	-	Insect	C-terminal His
FGFR3	FGFR3	pEY + Mn	NP_000133	P22607	cytoplasmic	-	Insect	N-terminal His
FGFR4	FGFR4	pEY + Mn	NP_002002	P22455	aa 460-802	-	baculovirus insect cell	N-terminal His6-tag
FGR	FGR	pEY	NP_005239	P09769	full-length	-	baculovirus insect cell	C-terminal His6-tag
FLT1/VEGFR1	FLT1	pEY + Mn	NP_002010	P17948	aa 781-1338	-	baculovirus insect cell	N-terminal GST tagged
FLT3	FLT3	Abltide	NP_004110	P36888	aa 564-958	-	baculovirus insect cell	C-terminal His6-tag
FLT4/VEGFR3	FLT4	pEY + Mn	NP_891555.1, AAA85215	P35916	aa 800-1297	Q890H	Insect	N-terminal GST
FMS	CSF1R	pEY + Mn	NP_005202	P07333	cytoplasmic	-	Insect	C-terminal His
FRK/PTK5	FRK	pEY + Mn	NP_002022	P42685	full-length	-	Insect	N-terminal GST
FYN	FYN	pEY	NP_694592	P06241	full-length	-	Insect	C-terminal His
GCK/MAP4K2	MAP4K2	MBP	NP_004570.2	Q12851	full-length	-	Insect	N-terminal His6-tagged
GLK/MAP4K3	MAP4K3	MBP	NM_003618	Q8IVH8	aa 1-380	-	baculovirus in Sf9 insect cells	N-terminal GST-tag

GRK1	GRK1	Casein	NM_002929	Q15835	full-length	-	Insect	N-terminal GST tagged
GRK2	ADRBK1	Casein	AAH37963	P25098	full length	-	baculovirus insect cell	C-terminal His-tag
GRK3	ADRBK2	Casein	NP_005151	P35626	full-length	-	Insect	N-terminal GST
GRK4	GRK4	Casein	NP_892027	P32298	full-length	-	Insect	N-terminal GST
GRK5	GRK5	Casein	NP_005299	P34947	full-length	-	Insect	N-terminal GST
GRK6	GRK6	Casein	NP_001004106	P43250	full-length	-	Insect	N-terminal GST
GRK7	GRK7	Casein	NP_631948	Q8WTQ7	full-length	-	Insect	N-terminal GST
GSK3a	GSK3A	Phospho-Glycogen Synthase peptide	NP_063937.2	P49840	full length	-	baculovirus insect cell	C-terminal His-tag
GSK3b	GSK3B	Phospho-Glycogen Synthase peptide	NM_002093	P49841	full-length	-	baculovirus insect cell	N-terminal His-tag
Haspin	GSG2	Histone H3	NP_114171.1	Q8TF76	aa471-798	-	Insect	C-terminal His
HCK	HCK	Src Substrate peptide	NP_002101	P08631	full-length	-	Insect	C-terminal His
HGK/MAP4K4	MAP4K4	MBP	NP_004825	Q95819	full catalytic	-	Insect	N-terminal GST
HIPK1	HIPK1	MBP	NP_689909	Q86202	aa 158-555	-	baculovirus insect cell	N-terminal GST
HIPK2	HIPK2	MBP	NP_073577.3	Q9H2X6	aa 165-564	-	baculovirus insect cell	N-terminal GST
HIPK3	HIPK3	MBP	NP_005725.2	Q9H422	aa 163-562	-	baculovirus insect cell	N-terminal His6-tag
HIPK4	HIPK4	MBP	NP_653286	Q8NE63	full-length	-	baculovirus insect cell	N-terminal GST
HPK1/MAP4K1	MAP4K1	MBP	NM_007181	Q92918	Catalytic (aa11-346)	-	Insect	N-terminal GST-tag
IGF1R	IGF1R	pEY + Mn	NP_000866	P08069	aa 960-1367	-	baculovirus insect cell	C-terminal His
IKKa/CHUK	CHUK	IKKtide	NP_001269	O15111	full-length	-	Baculovirus infected insect cells	N-terminal 6X-His tag
IKKb/IKKB	IKKB	IKKtide	NP_001547	O14920	full-length	-	Insect	N-terminal GST
IKKe/IKBKE	IKBKE	Casein	NP_054721.1	Q14164	full-length	-	Insect	N-terminal GST
IR	INSR	pEY + Mn	NM_000208	P06213	aa 1011-end	-	baculovirus in Sf9 insect cells	N-terminal GST
IRAK1	IRAK1	MBP	NP_001560	P51617	aa 197-721	-	Baculovirus infected insect cells	N-terminal GST
IRAK4	IRAK4	MBP	NP_057207, AAH13316	Q9NWZ3	full-length	-	baculovirus insect cell	N-terminal His6-tag
IRR/INSRR	INSRR	AXLtide	NP_055030	P14616	cytoplasmic	-	Insect	N-terminal GST
ITK	ITK	MBP	NP_005537	Q08881	full-length	-	Insect	N-terminal GST
JAK1	JAK1	pEY	NP_002218.2	P23458	aa 866-1154	-	Insect	N-terminal GST
JAK2	JAK2	pEY	NP_004963	O60674	aa 809-1132 +g	-	Insect	N-terminal GST
JAK3	JAK3	JAK3tide	NP_000206	P52333	aa 781-1124	-	Insect	N-terminal GST
JNK1	MAPK8	ATF2	NP_002741.1	P45983-2	full length	-	baculovirus insect cell, activated by MAP2K7	N-terminal His-tag
JNK2	MAPK9	ATF2	NP_002743	P45984-1	full length	-	baculovirus in insect cell, activated by MAP2K7	N-terminal His-tag
JNK3	MAPK10	ATF2	NP_620446.1	P53779	full length	-	E. coli, activated	untagged
KDR/VEGFR2	KDR	pEY + Mn	NP_002244	P35968	aa 789-1356	-	baculovirus in insect cell, activated by autophosphorylation	C-terminal His6-tagged
KHS/MAP4K5	MAP4K5	MBP	NP_942089	Q9Y4K4	full length	-	baculovirus in insect cell	N-terminal GST
KSR1	KSR1	CREBtide	Q8IVT5	Q8IVT5	aa 431-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
KSR2	KSR2	CREBtide	Q6VAB6	Q6VAB6	aa 554-950 (end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
LATS1	LATS1	SGKtide	NP_004681.1	Q95835	Catalytic (aa589-1130end)	-	Insect, co-expressed w/MOBKL1A	N-terminal GST-tag
LATS2	LATS2	SGKtide	NM_014572	Q9NRM7	Catalytic (aa480-1088)	-	Insect	N-terminal GST-tag
LCK	LCK	pEY + Mn	NP_005347	P06239	full-length	-	baculovirus in insect cells	C-terminal His6-tagged
LCK2/ICK	ICK	MBP + Mn	NM_014920	Q9UP29	full-length	-	Insect	N-terminal GST-tag
LIMK1	LIMK1	Cofilin 1	NP_002305	P53667	catalytic domain (aa 285-638)	-	baculovirus in insect cells, activated by co-expression with ROCK1	N-terminal His6-tag
LIMK2	LIMK2	Cofilin 2 + Mn	NP_005560.1	P53671	full length (1-638)	-	baculovirus in Sf9 insect cells, coexpressed with His-tagged ROCK2, then GST-LIMK2 was purified using GSH column.	N-terminal GST-tag
LKB1	STK11/STRADA/CAB39	LKB1tide	NM000455/AF308302/NM_016289	STK11:Q15831; STRADA:Q7RTN6	full length	-	baculovirus in Sf21 cells	N-His, N-GST, N-GST
LOK/STK10	STK10	LRRKtide	NP_005990	Q94804	aa 1-348	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
LRRK2	LRRK2	LRRKtide	NP_940980.2	Q5S007	aa 970-2527	-	baculovirus in insect cells	N-terminal GST
LYN	LYN	pEY	NP_002341	P07948-1	full length	-	baculovirus in insect cells	C-terminal His6-tag
LYN B	LYN	pEY+ Mn	NP_002341	P07948-2	full-length	-	Insect	C-terminal His
MAK	MAK	MBP	BC039825	P20794	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag

MAPKAPK2	MAPKAPK2	Glycogen Synthase-derived peptide	NP_116584	P49137	full length		E. coli, activated by MAPK14	N-terminal His-tag
MAPKAPK3	MAPKAPK3	Glycogen Synthase-derived peptide	NP_004626	Q16644	full length	-	Insect cell, activated by MAPK14	N-terminal His-tag
MAPKAPK5/PRAK	MAPKAPK5	Glycogen Synthase-derived peptide	NP_003659	Q8IW41	full length	-	baculovirus in insect cells	N-terminal His6-tag
MARK1	MARK1	CHKtide	NP_061120.1	Q9POL2	full length	-	baculovirus in insect cells	N-terminal GST-tag
MARK2/PAR-1Ba	MARK2	CHKtide	NP_059672.2	Q7KZI7-4	full length	-	baculovirus in insect cells	N-terminal GST-tag
MARK3	MARK3	CHKtide	NP_002367.3	P27448	full length	-	baculovirus in insect cells	N-terminal GST-tag
MARK4	MARK4	CHKtide	NP_113605	Q96L34	full length	-	baculovirus in insect cells	N-terminal GST-tag
MASTL	MASTL	ARPP19	NM_001172303	Q96GX5	full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MEK1	MAP2K1	ERK(K52R)	NP_002746	Q02750	full length	-	baculovirus in insect cell, activated by RAF1 <i>in</i>	N-terminal His6-tag
MEK2	MAP2K2	ERK(K52R)	NP_109587	P36507	full length	-	baculovirus in insect cells, activated by co-expression with RAF1	C-terminal His6-tag
MEK3	MP2K3	p38a (K53A)	NP_659731.1	P46734	full-length (1-347end)	-	baculovirus insect cell, co-expressed with MLK3 (aa99-398) and purified	N-terminal GST-tag
MEK5	MAP2K5	ERK5 (K84R)	BC008838	Q13163	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MEKK1	MAP3K1	MBP	XM_042066	Q13233	aa 900-1748	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MEKK2	MAP3K2	MBP	NM_006609	Q9Y2U5	full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MEK3	MAP3K3	MBP	NM_002401	Q99759	full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MEKK6	MAP3K6	MBP	NM_004672	O95382	aa 620-950	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MELK	MELK	ZIptide	NP_055606.1	Q14680	aa 1-340	-	Insect cell	N-terminal GST-tag
MINK/MINK1	MINK1	MBP	NP_056531	Q8N4C8	full catalytic	-	Insect	N-terminal GST
MKK4	MAP2K4	JNK(K55M)	NM_003010	P45985	aa 33-end	-	baculovirus in Sf9 insect cells	N-terminal His-tag
MKK6	MAP2K6	p38a (K53A)	NP_002749	P52564	full length	S207E, T211E	E. coli	N-terminal His-tag
MKK7	MAP2K7	JNK (K55M)	NP_660186.1	Q14733	full-length	-	baculovirus in Sf9 insect cells, activated by	N-terminal His-TEV-tag
MLCK/MYLK	MYLK	ZIptide + Ca-CaM	NP_444253	Q15746	Catalytic (aa 1428-1771)	-	Insect	N-terminal GST
MLCK2/MYLK2	MYLK2	ZIptide + Ca-CaM	NP_149109	Q9H1R3	full length	-	Insect	N-terminal GST
MLK1/MAP3K9	MAP3K9	Casein	NP_149132.1	P80192	full catalytic	-	Insect	N-terminal GST
MLK2/MAP3K10	MAP3K10	MBP	NP_002437	Q02779	full catalytic	-	Insect	N-terminal GST
MLK3/MAP3K11	MAP3K11	MBP	NP_002410.1	Q16584	full catalytic	-	Insect	N-terminal GST
MLK4		MEK1 (K97R)	NM_032435	Q5TCX8	aa 114-420	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MNK1	MKNK1	MBP	NP_945324	Q9BUB5	full length	-	baculovirus in Sf9 insect cells, Activated in-vitro by Histidine-tagged MAPK12	N-terminal GST
MNK2	MKNK2	MBP	NP_060042.2	Q9HBH9	full length	-	Baculovirus infected insect cells	N-terminal GST
MRCKa/CDC42BPA	CDC42BPA	Long S6 Kinase substrate peptide	NP_055641	Q5VT25	aa 1-473	-	Baculovirus infected insect cells	C-terminal 6X-His tag
MRCKb/CDC42BPB	CDC42BPB	Long S6 Kinase substrate peptide	NP_006026.2	Q9Y5S2	aa 1-473	-	Baculovirus infected insect cells	C-terminal 6X-His tag
MSK1/RPS6KA5	RPS6KA5	Crosstide	NP_004746.2	O75582	full-length	-	Insect	N-terminal GST
MSK2/RPS6KA4	RPS6KA4	Crosstide	NP_003933	O75676	full-length	-	Insect	N-terminal GST
MSSK1/STK23	SRPK3	R5 peptide	NP_055185	Q9UPE1	full-length	-	Insect	N-terminal GST
MST1/STK4	STK4	Axltide	NP_006273	Q13043	full-length	-	Insect	N-terminal GST
MST2/STK3	STK3	MBP	NP_006272.2	Q13188	full length	-	Insect	N-terminal GST
MST3/STK24	STK24	MBP	NP_003567	Q9Y6E0	full length	-	Insect	N-terminal GST
MST4	MST4	MBP	NP_057626.2	Q9P289	full-length	-	Insect	N-terminal GST
MUSK	MUSK	MBP + Mn	NP_005583.1	O15146	aa530-869	-	Insect	N-terminal GST-TEV, C-Term StrepII
MYLK3	MYLK3	DAPK1tide + Ca-CaM	BC109097	Q32MK0	full-length	-	Insect	N-terminal GST-tag
MYLK4	MYLK4	DAPKtide	BC132833	Q86YV6	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MYO3A	MYO3A	MBP	NM_017433	Q8NEV4	aa 1-434	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
MYO3B	MYO3B	MBP	NM_138995	Q8WXR4	Catalytic (1-326)	-	Insect	N-terminal GST
NEK1	NEK1	MBP	NP_036356	Q96PY6	aa 1-505	-	Insect	N-terminal GST
NEK2	NEK2	MBP	NP_002488	P51955	full-length	-	Insect	C-terminal His6-tagged
NEK3	NEK3	MBP	NP_689933	Q8WUN5	full-length	-	Insect	N-terminal GST

NEK4	NEK4	MBP	NP_003148	P51957	full-length	-	Insect	N-terminal GST
NEK5	NEK5	MBP	NM_199289	Q6P3R8	aa 1-508	-	Insect	N-terminal GST-tag
NEK6	NEK6	Casein	NP_055212.2	Q9HC98	full length	-	baculovirus insect cell	N-terminal GST-tag
NEK7	NEK7	Casein	NP_598001.1	Q8TDX7	full length	-	Insect	N-terminal GST tag
NEK8	NEK8	MBP	NM_178170	Q865G6	aa 1-322	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
NEK9	NEK9	MBP	NP_149107.2	Q8TD19	Catalytic (aa 347-732)	-	Insect	N-terminal GST tag
NEK11	NEK11	MBP	NM_024800	Q8NG66	full-length	-	Baculovirus infected insect cells	N-terminal GST
NIM1	NIM1	CHKtide	NM_153361	Q8IY84	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
NLK	NLK	MBP	NP_057315.1	Q9UBE8	full length	-	Insect	N-terminal GST
OSR1/OXSR1	OXSR1	CATCHtide	NP_005100.1	O95747	full length	-	Baculovirus infected insect cells	N-terminal GST
P38a/MAPK14	MAPK14	MBP	NP_620581	Q16539	full-length	-	E. coli	N-terminal GST
P38b/MAPK11	MAPK11	MBP	NP_002742	Q15759	full-length	-	Insect	N-terminal His
P38d/MAPK13	MAPK13	MBP	NP_002745	O15264	full-length	-	Insect	N-terminal His
P38g/MAPK12	MAPK12	MBP	NP_002960	P53778	full-length	-	Insect	N-terminal His
p70S6K/RPS6KB1	RPS6KB1	S6K/Rsk2 peptide 2	NP_003152	P23443	Catalytic (aa 1-421)	T412E	Insect, Activated in vitro by His-tagged PDK1.	N-terminal GST
p70S6Kb/RPS6KB2	RPS6KB2	S6K/Rsk2 peptide 2	BC000094	Q9UBS0	full length	-	Insect	N-terminal GST
PAK1	PAK1	PAKtide	NP_002567	Q13153	full length	-	Insect	N-terminal GST
PAK2	PAK2	PAKtide	NP_002568.2	Q13177	full length	-	Insect	N-terminal GST
PAK3	PAK3	PAKtide	AB102659	O75914	full length	-	baculovirus in Sf21 insect cells	C-terminal His6-tag
PAK4	PAK4	PAKtide	NP_005875	O96013	Catalytic (aa 295-591)	-	Insect	N-terminal GST
PAK5	PAK7	PAKtide	NP_065074	Q9P286	aa 425-719	-	Baculovirus infected insect cells	N-terminal 6X-His tag
PAK6	PAK6	PAKtide	NP_064553	Q9NQU5	full-length	-	Insect	C-terminal His
PASK	PASK	ZIPTide	NP_055963	Q96RG2	Catalytic (aa 879-1323)	-	Insect	N-terminal GST
PBK/TOPK	PBK	MBP	NP_060962	Q96KB5	full catalytic	-	Insect	C-terminal His
PDGFRa	PDGFRA	pEY + Mn	NP_006197	Q9DE49	Cytoplasmic (550-1089)	-	Insect	N-terminal GST
PDGFRb	PDGFRB	pEY + Mn	NP_002600	P09619	Cytoplasmic (558-1106)	-	Insect	N-terminal His6-tagged
PDK1/PDPK1	PDPK1	PDKtide	NP_002604	O15530	full length	-	Insect	N-terminal His6-tag
PEAK1	PEAK1	pEY	NM_024776	Q9H792	aa 1127-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
PHKg1	PHKG1	ZIPTide	NP_006204	Q16816	full length	-	Insect	N-terminal GST-tag
PHKg2	PHKG2	ZIPTide	NP_000285	P15735	full length	-	Insect	N-terminal GST-tag
PIM1	PIM1	S6K/Rsk2 peptide 2	NP_002639	P11309	full length	-	Insect	C-terminal His tagged
PIM2	PIM2	Pim2tide	NP_006866	Q9P1W9	full-length	-	Insect	N-terminal GST
PIM3	PIM3	Pim2tide	GenBank AB114795	Q86V86	aa 2-end	-	Baculovirus in Sf21 insect cells	N-terminal His6-tag
PKA	PRKACA	PKA sub	NM_002730	P17612	full-length	-	baculovirus in Sf9 cells	N-terminal GST
PKAcb	PRKACB	Long S6 Kinase substrate peptide	NM_002730	P22694	full-length	-	baculovirus in Sf9 cells	N-terminal GST
PKAcg	PRKACG	Long S6 Kinase substrate peptide	NM_002732	P22612	full-length	-	Insect	N-terminal GST
PKCa	PRKCA	PKCe Peptide + Lipid	NM_002737	P17252	full length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
PKCb1	PRKCB1	Histone H1 + Lipid	NP_991100.1	P05771	full length	-	baculovirus in Sf21 insect cells	none
PKCb2	PRKCB2	Histone H1 + Lipid	NP_002729	P05771	full length	-	insect	none
PKCd	PRKCD	PKCe Pep + Lipid	NP_006245	Q05655	full length	-	insect	none
PKCepsilon	PRKCE	PKCe Pep + Lipid	NP_005391.1	Q02156	full-length	-	Insect	none
PKCeta	PRKCH	PKCe Pep + Lipid	NM_006255	P24723	full length	-	baculovirus in Sf9 insect cells	N-terminal GST
PKCg	PRKCG	Histone H1 + Lipid	NP_002730	P05129	full length	-	baculovirus in insect cells	none
PKCiota	PRKCI	PKCepsilon Peptide	NP_002731	P41743	full length	-	baculovirus insect cell	N-terminal His-tag
PKCmu/PRKD1	PRKD1	Glycogen Synthase-derived peptide	NP_002733	Q15139	full length	-	Insect	N-terminal GST
PKCnu/PRKD3	PRKD3	Glycogen Synthase-derived peptide	NP_005804	O94806	full-length	-	Insect	N-terminal GST
PKCtheta	PRKCC	Histone H1 + Lipid	NP_006248	Q04759	full length	P330L	baculovirus in insect cells	C-terminal His6-tag
PKCzeta	PRK CZ	PKCepsilon Peptide	NP_002735	Q05513	full-length	-	Insect	none
PKD2/PRKD2	PRKD2	Glycogen Synthase-derived peptide	NP_057541	Q9BZL6	full-length	-	Insect	N-terminal GST
PKG1a	PRKG1	Kemptide	NM_001098512	Q13976	full length	-	baculovirus in Sf9 cells	N-terminal His6-tag
PKG1b	PRKG1	Kemptide	NM_006258	P14619	full length	-	baculovirus in Sf21 insect cells	N-terminal His6-tag

PKG2/PRKG2	PRKG2	Kemptide	NP_006250	Q13237	full length	-	Insect	N-terminal GST
PKMYT1	PKMYT1	MBP	NP_004194.3	Q99640	full length	-	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
PKN1/PRK1	PKN1	Glycogen Synthase-derived peptide	NP_998725	Q16512	full length	-	Insect	N-terminal GST
PKN2/PRK2	PKN2	Glycogen Synthase-derived peptide	NP_006247	Q16513	full length	-	Insect	N-terminal GST
PKN3/PRK3	PKN3	SGKtide	NM_013355	Q6P5Z2	full-length	-	Insect	N-terminal GST-tag
PLK1	PLK1	Casein	NP_005021	P53350	full length	-	Insect	C-terminal His6-tag
PLK2	PLK2	Casein	NP_006613	Q9NYY3	full length	-	Insect	N-terminal GST-tag
PLK3	PLK3	Casein	NP_004064	Q9H4B4	Catalytic (58-340)	-	Insect	N-terminal GST
PLK4/SAK	PLK4	Casein	NM_014264.2	O00444	full-length	-	Insect	N-terminal GST-His-Tag
PRKX	PRKX	Kemptide	NP_722560	P51817	full length	-	Insect	N-terminal GST
PYK2	PTK2B	pEY + Mn	NP_004094	Q14289	full-length	-	Insect	N-terminal GST
RAF1	RAF1	MEK1 (K97R)	NP_002871	P04049	catalytic (aa306-648)	Y340D, Y341D	Insect	N-terminal GST
RET	RET	CHKtide	NP_066124	P07949	cytoplasmic	-	Insect	N-terminal GST
RIPK2	RIPK2	MBP	NP_003812	O43353	aa 1-299	-	Baculovirus infected insect cells	N-terminal 6X-His tag
RIPK3	RIPK3	MBP	NM_006871	Q9Y572	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
RIPK4	RIPK4	Histone H2A	NP_065690.2	P57078	aa 1-300	-	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RIPK5	DSTYK	MBP	NP_056190.1	Q6XUX3	full length	-	Insect	N-terminal GST
ROCK1	ROCK1	Long S6 Kinase substrate peptide	NP_005397	Q13464	aa 1-535	-	Insect	N-terminal GST
ROCK2	ROCK2	Long S6 Kinase substrate peptide	NM_004850	O75116	aa 5-554	-	baculovirus in Sf9 insect cells	N-terminal GST
RON/MST1R	MST1R	Axltide + Mn	NP_002438	Q04912	aa 983-1400	-	Baculovirus infected insect cells	N-terminal GST
ROS/ROS1	ROS1	IGF-1Rtide	NP_002935	P08922	cytoplasmic	-	Insect	N-terminal GST
RSK1	RPS6KA1	Glycogen Synthase-derived peptide	NP_002944	Q15418	full length	-	Insect	N-terminal His6-tag
RSK2	RPS6KA3	Glycogen Synthase-derived peptide	NP_004577	P51812	full length	-	baculovirus insect cell	C-terminal His-tag
RSK3	RPS6KA2	Glycogen Synthase-derived peptide	NP_066958	Q15349	full length	-	Insect	N-terminal His6-tag
RSK4	RPS6KA6	Long S6 Kinase substrate peptide	NP_055311	Q9UK32	full-length	-	Insect	N-terminal GST
SBK1	SBK1	PKA sub	NM_001024401	Q52WX2	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
SGK1	SGK1	Crosstide	NP_005618, S589D	O00141	Catalytic (60-431)	S422D	Insect	N-terminal GST
SGK2	SGK2	Crosstide		Q9HBY8	full length (Met1-Cys367)	-	baculovirus expression system	GST-tag
SGK3/SGKL	SGK3	Crosstide	NP_037389, S487D	Q96BR1	Catalytic (87-496)	-	Insect	N-terminal GST-tag
SIK1	SIK1	AMARA peptide	NM_173354	P57059	Catalytic (1-303)	-	Insect	N-terminal His-tag
SIK2	SIK2	AMARA peptide	NP_056006.1	Q9H0K1	full length	-	Insect	N-terminal GST-tag
SIK3	SIK3	AMARA peptide	BC128510	Q9Y2K2	Catalytic (1-307)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
SLK/STK2	SLK	Histone H3	NP_055535.1	Q9H2G2	full length	-	Insect	N-terminal GST-tag
SNARK/NUAK2	NUAK2	CHKtide	NM_030952	Q9H093	aa M1-T628	-	baculovirus in Sf9 insect cells	N-terminally fused to
SNRK	SNRK	MBP	NM_017719	Q9NRH2	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
SRMS	SRMS	pEY + Mn	NP_543013	Q9H3Y6	full length	-	Insect	N-terminal GST
SRPK1	SRPK1	RS peptide	NP_003128	Q96SB4	full length	-	Insect	N-terminal His-tag
SRPK2	SRPK2	RS peptide	NP_872633	P78362	full length	-	Insect	N-terminal GST-tag
SSTK/TSSK6	TSSK6	MBP	NP_114426.1	Q9BXA6	Full length (aa1-273)	-	Insect	N-terminal GST-tag
STK16	STK16	MBP	NP_003682	O75716	full length	-	Insect	N-terminal His-tag
STK21/CIT	CIT	MBP	NM_007174	O14578	aa 1-449	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
STK22D/TSSK1	TSSK1B	CHKtide	NP_114417	Q9BXA7	full length	-	Insect	C-terminal His-tag
STK25/YSK1	STK25	MBP	NP_006365	O00506	full length	-	Insect	N-terminal GST
STK32B/YANK2	STK32B	MBP + Mn	BC038238	Q9NY57	full-length	-	Insect	N-terminal GST-tag
STK32C/YANK3	STK32C	MBP + Mn	NM_173575	Q86UX6	Catalytic (aa66-end)	-	Insect	N-terminal GST-tag
STK33	STK33	MBP	NP_112168	Q9BYT3	full length	-	Insect	N-terminal His-tag
STK38/NDR1	STK38-	SGKtide	NP_009202.1/NP_775739.1	Q15208/Q7L9L4	full-length	-	Insect, co-expressed	N-terminal GST

STK38L/NDR2	STK38L-	SGKtide	NP_055815.1/NP_775739.1	Q9Y2H1/Q7L9L4	full-length	-	Insect, co-expressed	N-terminal GST-tag
STK39/STLK3	STK39	MBP	NM_013233	Q9UEW8	full length	-	Insect	N-terminal His-tag
SYK	SYK	pEY	NP_003168	P43405	full-length	-	Insect	N-terminal GST
TAK1	MAP3K7/MAP3K7IP1	Casein	NP_663306, NP_006107	MAP3K7:O43318 ; TAB1:Q15750	full-length MAP3K7; aa 437-504	-	Baculovirus infected insect cells	N-terminal 6X-His tag
TAOK1	TAOK1	MBP	NM_020791	Q7L7X3	aaa1-314	-	baculovirus in Sf9 insect cells	N-terminal GST
TAOK2	TAOK2	MBP	NP_004774	Q9UL54	full catalytic	-	Insect	N-terminal GST
TAOK3/JIK	TAOK3	MBP	NP_057365	Q9H2K8	full-length	-	Insect	N-terminal GST
TBK1	TBK1	CK1tide	NP_037386	Q9UHD2	full-length	-	Insect	N-terminal GST
TEC	TEC	pEY + Mn	NP_003206	P42680	full length	-	baculovirus insect cell	C-terminal His-tag
TESK1	TESK1	Cofilin 2 + Mn	NP_006276.2	Q15569	full-length	-	Insect	N-terminal GST-tag
TESK2	TESK2	Cofilin 2	NP_009101.2	Q96553	full-length	-	Insect	N-terminal GST-tag
TGFBR2	TGFBR2	MBP	NM_003242	P37173	190-end	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
TIE2/TEK	TEK	pEY + Mn	NP_000450	Q02763	Cytoplasmic (817-1101)	-	Insect	N-terminal GST-tag
TLK1	TLK1	Histone H3	NM_012290	Q9UKI8	full-length	-	Insect	N-terminal GST-tag
TLK2	TLK2	Casein	NM_006852	Q86UE8	Catalytic (388-end)	-	Insect	N-terminal GST-tag
TNIK	TNIK	LRRKtide	NM_015028	Q9UKE5	Catalytic (1-367)	-	Insect	N-terminal GST-tag
TNK1	TNK1	pEY + Mn	NM_003985	Q13470	aaa1-510	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA	NTRK1	pEY + Mn	NP_002520	P04629	Cytoplasmic (441-796)	-	insect	C-terminal His-tag
TRKB	NTRK2	pEY + Mn	NM_001018064	Q16620	Cytoplasmic (455-end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKC	NTRK3	pEY	NP_002521.2	Q16288	catalytic domain (aa 510-825)	-	baculovirus insect cell	C-terminal His-tag
TSSK2	TSSK2	CHKtide	NP_443732	Q96PF2	full length	-	Insect	N-terminal His6-tag
TSSK3/STK22C	TSSK3	CHKtide	NP_443073.1	Q96PN8	full-length	-	Insect	N-terminal GST-tag
TTBK1	TTBK1	MBP	NM_032538	Q5TCY1	Catalytic domain (aa1-479)	-	Insect	N-terminal GST-tag
TTBK2	TTBK2	MBP	NP_775771.3	Q6IQ55	Catalytic domain (aa1-331)	-	Insect	N-terminal GST-tag
TXK	TXK	ABLtide	NP_003319.2	P42681	full length	-	Insect	N-terminal GST-tag
TYK1/LTK	LTK	ABLtide	NP_002335.2	P29376	Cytoplasmic (450-864)	-	Insect	N-terminal GST-tag
TYK2	TYK2	AXLtide	NP_003322.2	P29597	aa 833-1187	-	Insect	N-terminal GST
TYRO3/SKY	TYRO3	pEY + Mn	NP_006284	Q06418	Cytoplasmic (451-890)	-	Insect	N-terminal GST-tag
ULK1	ULK1	MBP	BC111603	O75385	aa 1-649	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
ULK2	ULK2	MBP	NM_014683	Q8IYT8	aa 1-631	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
ULK3	ULK3	Casein	BC157884	Q6PHR2	full-length	-	Insect	N-terminal His6-tag
VRK1	VRK1	Long S6 Kinase substrate peptide	NP_003375	Q99986	full length, Met1-Lys396	-	Sf9 cells	N-GST-HIS fusion
VRK2	VRK2	Casein + Mn	NM_006296	Q86Y07	aa 1-375	-	Insect	N-terminal GST-tag
WEE1	WEE1	MBP	NP_003381.1	P30291	full-length	-	Insect	N-terminal GST-tag
WNK1	WNK1	MBP	NM_018979	Q9H4A3	Catalytic (181-507)	-	Insect	N-terminal GST-tag
WNK2	WNK2	MBP	NP_006639.3	Q9Y3S1	Catalytic (166-489)	-	Insect	N-terminal GST-tag
WNK3	WNK3	MBP	NP_065973	Q9BYP7	Catalytic (1-434)	-	Insect	N-terminal His6-tag
YES/YES1	YES1	pEY	NP_005424	P07947	full length	-	Insect	C-terminal His-tag
YSK4/MAP3K19	MAP3K19	MBP	NM_025052	Q56UN5	aa 941-1328 (end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
ZAK/MLTK	ZAK	MBP	NP_598407.1	Q9NYL2	full length	-	Insect	N-terminal GST-tag
ZAP70	ZAP70	pEY	NP_001070	P43403	full length	-	Insect	C-terminal His6-tag
ZIPK/DAPK3	DAPK3	ZIPTide	NP_001339	O43293	full-length	-	Insect	N-terminal GST-tag

Mutant Kinases

RBC Name	HUGO	Substrate	Genbank Accession #	Protein	Clone	Mutation	Expression	Tag
ABL1 (E255K)	ABL1	Abltide	NP_005148.2	P00519	full-length	E255K	baculovirus in Sf21 insect cells	C-terminal His
ABL1 (E255V)	ABL1	Abltide	NM_005157	P00519	aa 27-end	E255V	baculovirus in Sf9 insect cells	N-terminal His-tag
ABL1 (F317I)	ABL1	Abltide	NM_005157.3	P00519	aa 118-535	F317I	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
ABL1 (F317L)	ABL1	Abltide	NM_005157	P00519	aa 27-end	F317L	baculovirus in Sf9 insect cells	N-terminal GST-tag
ABL1 (G250E)	ABL1	Abltide	NP_005148.2	P00519	full-length	G250E	baculovirus in Sf21 insect cells	C-terminal His
ABL1 (H396P)	ABL1	Abltide	GenBank U07563	P00519	aa 27-end	H396P	baculovirus in Sf21 insect cells	N-terminal His6-tagged
ABL1 (M351T)	ABL1	Abltide	NM_005157.3	P00519	aa 118-535	M351T	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
ABL1 (Q252H)	ABL1	Abltide	GenBank U07563	P00519	aa 27-end	Q252H	baculovirus in Sf21 insect cells	N-terminal His6-tagged
ABL1 (T315I)	ABL1	Abltide	NP_005148.2	P00519	full-length	T315I	baculovirus in Sf21 insect cells	C-terminal His
ABL1 (V299L)	ABL1	Abltide	NM_005157	P00519	aa 27-end	V299L	baculovirus in Sf9 insect cells	N-terminal GST-tag
ABL1 (Y253F)	ABL1	Abltide	GenBank U07563	P00519	aa 27-end	Y253F	baculovirus in Sf21 insect cells	N-terminal His6-tagged
ABL1 (Y253H)	ABL1	Abltide	NM_005157	P00519	aa 27-end	Y253H	baculovirus in Sf9 insect cells	N-terminal His-tag
AKT1 (E17K)	AKT1	Crosstide	NM_005163	P31749	full length	E17K	baculovirus in Sf9 insect cells	N-terminal GST-tag
AKT2 (E17K)	AKT2	Crosstide	NM_001626	P31751	full length	E17K	baculovirus in Sf9 insect cells	N-terminal GST-tag
AKT3 (E17K)	AKT3	Crosstide	NM_005465	Q9Y243	full length	E17K	baculovirus in Sf9 insect cells	N-terminal GST-tag
AKT3 (G171R)	AKT3	Crosstide	NM_005465	Q9Y243	full length	G171R	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (C1156Y)	ALK	pEY	BAG10812.1	Q9UM73	aa 1058-1620 (end)	C1156Y	baculovirus insect cell	N-terminal GST-tag
ALK (L1152R)	ALK	pEY	NM_004304	Q9UM73	aa 1060-1620 (end)	L1152R	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (L1196M)	ALK	pEY	BAG10812.1	Q9UM73	aa 1058-1620 (end)	L1196M	baculovirus insect cell	N-terminal GST-tag
ALK (F1174L)	ALK	pEY	BAG10812.1	Q9UM73	aa 1058-1620 (end)	F1174L	baculovirus insect cell	N-terminal GST-tag
ALK (F1174L)-NPM1	ALK	pEY	U04946 (Fusion)	P06748-Q9UM73	aa 1-117-aa 1058-1620 (end),	F1174L	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (F1174S)	ALK	pEY	NM_004304	Q9UM73	aa 1060-1620 (end)	F1174S	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (G1202R)	ALK	pEY	BAG10812.1	Q9UM73	aa 1058-1620 (end)	G1202R	baculovirus insect cell	N-terminal GST-tag
ALK (G1269A)	ALK	pEY	BAG10812.1	Q9UM73	aa 1058-1620 (end)	G1269A	baculovirus insect cell	N-terminal GST-tag
ALK (G1269S)	ALK	pEY	NM_004304	Q9UM73	aa 1060-1620 (end)	G1269S	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (R1275Q)	ALK	pEY	BAG10812.1	Q9UM73	aa 1058-1620 (end)	R1275Q	baculovirus insect cell	N-terminal GST-tag
ALK (S1206R)	ALK	pEY	NM_004304	Q9UM73	aa 1060-1620 (end)	S1206R	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (T1151M)	ALK	pEY	NM_004304	Q9UM73	aa 1060-1620 (end)	T1151M	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (T1151-L1152insT)	ALK	pEY	NM_004304	Q9UM73	aa 1060-1620 (end)	T1151-L1152insT	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK (F1174L)-EML4	EML4-ALK	pEY	BAF73611.1 (Fusion)	A6P4T4	full-length (1-1059)	F1174L	baculovirus in Sf9 insect cells	N-terminal GST-His-3C-
ALK-KIF5B (Kex24Aex20)	KIF5B-ALK	pEY	KIF5B:NM_004521, ALK: NM_004304	P33176-Q9UM73	KIF5B (aa1-921, exons1-24)-ALK (aa 1058-end, exons20-29)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK-KLC1 (Kex8Aex20)	KLC1-ALK	pEY	KLC1:NM_182923, ALK: NM_004304	Q07866-Q9UM73	KLC1 (aa1-420, exons1-8)-ALK (aa 1058-end, exons20-29)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK-NPM1	ALK	pEY	BAA08343.1	Q9UM73	aa 1-680		Fused gene was expressed in baculovirus insect	N-terminal GST-tag
ALK-TFG	TFG-ALK	pEY	TFG: NM_001195478, ALK: NM_004304	Q92734-Q9UM73	TFG (aa 1-193)-ALK (aa 1058-end)	Fusion	Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK-TFG (Tex4Aex20)	TGF-ALK	pEY	TFG:NM_001195478, ALK: NM_004304	Q92734-Q9UM73	TFG (aa1-138, exons1-4)-ALK (aa 1058-end, exons20-29)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK-TPM1	TPM1-ALK	pEY	TPM1: NM_001018005, ALK: NM_004304	P09493-Q9UM73	TPM1 (aa 1-257)-ALK (aa 1058-end)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK-TPM3	ALK	pEY	TPM3: NM_152263, ALK: NM_004304	P06753-Q9UM73	TPM3 (aa 1-258)-ALK (aa 1058-end)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK2 (Q207D)	ACVR1	Casein + Mn	NM_001105	Q04771	aa 147-end	Q207D	baculovirus in Sf9 insect cells	N-terminal GST-tag
ALK2 (R206H)	ACVR1	Casein + Mn	NM_001105	Q04771	aa 147-end	R206H	baculovirus in Sf9 insect cells	N-terminal GST-tag

AXL (R499C)	AXL	ABLtide	NM_021913	P30530	aa 473-end	R499C	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (d485-489/P490Y)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	d485-489/P490Y	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (G464V)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	G464V	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (G469A)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	G469A	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (K601E)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 416-end	K601E	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (L597V)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	L597V	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (T599_V600insT)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 416-end	T599_V600insT	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (V599E)	BRAF	MEK1 (K97R)	NP_004324.1	P15056	aa 416-766	V599E	baculovirus in Sf21 insect cells	N-terminal GST-tag
BRAF (V600A)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	V600A	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (V600D)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	V600D	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (V600K)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	V600K	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF (R506_K507insVLR)	BRAF	MEK1 (K97R)	NM_004333	P15056	aa 381-end	R506_K507insVLR	baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF-FAM131B (Fex2Bex9)	FAM131B-BRAF	MEK1 (K97R)	FAM131B: BC050543, BRAF: NM_004333	Q86XD5-P15056	FAM131B (aa1-30)-BRAF (aa 381-end)	Fusion	Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF-KIAA1549 (Kex15Bex9)	KIAA1549-BRAF	MEK1 (K97R)	KIAA1549: NM_001164665, BRAF: NM_004333	Q9HCM3-P15056	KIAA1549 (aa1320-1643 exon15)-BRAF (aa 381-end)	Fusion	Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF-KIAA1549 (Kex16Bex9)	KIAA1549-BRAF	MEK1 (K97R)	KIAA1549: NM_001164665, BRAF: NM_004333	Q9HCM3-P15056	KIAA1549 (aa1320-1749 exon16)-BRAF (aa 381-end)	Fusion	Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
BRAF-SRGAP3 (Sex12Bex9)	SRGAP3-BRAF	MEK1 (K97R)	SRGAP3: NM_014850, BRAF: NM_004333	O43295-P15056	SRGAP3 (aa1-513 exon12)-BRAF (aa 381-end)	Fusion	Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
BTK (C481S)	BTK	pEY	NM_000061	Q06187	full-length	C481S	baculovirus in Sf9 insect cells	N-terminal His-tag
BTK (E41K)	BTK	pEY + Mn	GenBank NM_000061	Q06187	full-length	E41K	baculovirus in Sf21 insect cells	N-terminal His6-tagged
BTK (P190K)	BTK	pEY + Mn	NM_000061	Q06187	full-length	P190K	baculovirus in Sf9 insect cells	N-terminal His-tag
CHK2 (I157T)	CHEK2	CHKtide	GenBank AF016582	Q96017	full length	I157T	baculovirus in Sf21 insect cells	N-terminal GST-tag
CK1epsilon (R178C)	CSNK1E	Casein	NM_001894	P49674	full length	R178C	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (d557-558)	KIT	pEY	NM_000222	P10721	aa 544-end	d557-558	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (A829P)	KIT	pEY	NM_000213.1	P10721	aa 544-976 (end)	A829P	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-Kit (D816E)	KIT	pEY	NM_000222	P10721	aa 544-end	D816E	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (D816F)	KIT	pEY	NM_000222	P10721	aa 544-end	D816F	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (D816H)	KIT	pEY	GenBank X06182	P10721	aa 544-end	D816H	baculovirus in Sf21 insect cells	N-terminal GST tagged
c-Kit (D816I)	KIT	pEY	NM_000222	P10721	aa 544-end	D816I	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (D816V)	KIT	pEY	GenBank X06182	P10721	aa 544-end	D816V	baculovirus in Sf21 insect cells	N-terminal GST-tag
c-Kit (D816Y)	KIT	pEY	NM_000222	P10721	aa 544-end	D816Y	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (D820E)	KIT	pEY	NM_000222	P10721	aa 544-end	D820E	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (D820Y)	KIT	pEY	NM_000222	P10721	aa 544-end	D820Y	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (K642E)	KIT	pEY	NM_000222	P10721	aa 544-end	K642E	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (T670I)	KIT	pEY	NP_000213	P10721	aa 544-976	T670I	baculovirus insect cell	N-terminal His
c-Kit (V559A)	KIT	pEY	NM_000222	P10721	aa 544-end	V559A	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (V559D)	KIT	pEY	NM_000213.1	P10721	aa 544-976 (end)	V559D	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-Kit (V559D/V654A)	KIT	pEY	NM_000213.1	P10721	aa 544-976 (end)	V559D, V654A	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-Kit (V559D/T670I)	KIT	pEY	NM_000213.1	P10721	aa 544-976 (end)	V559D, T670I	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-Kit (V560G)	KIT	pEY	GenBank X06182	P10721	aa 544-end	V560G	baculovirus in Sf21 insect cells	N-terminal GST tagged
c-Kit (V560G/D816V)	KIT	pEY	NM_000222	P10721	aa 544-end	V560G, D816V	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (V560G/N822K)	KIT	pEY	NM_000222	P10721	aa 544-end	V560G, N822K	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Kit (V654A)	KIT	pEY + Mn	NP_000213	P10721	aa 544-976	V654A	baculovirus insect cell	N-terminal His
c-Kit (Y823D)	KIT	pEY + Mn	NM_000222	P10721	aa 544-end	Y823D	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MER (A708S)	MERTK	pEY	NM_006343	Q12866	aa 578-872	A708S	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (D1228H)	MET	MBP	NP_000245.2	P08581	aa 956-1390	D1228H	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET (D1228N)	MET	MBP	NP_000245.2	P08581	aa 956-1390	D1228N	baculovirus in Sf9 insect cells	N-terminal GST-His-tag

c-MET (F1200I)	MET	MBP	NP_000245.2	P08581	aa 956-1390	F1200I	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET (K1244R)	MET	MBP	NM_000245	P08581	aa 956-end	K1244R	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (M1250I)	MET	MBP	NM_000245	P08581	aa 956-end	M1250I	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (M1250T)	MET	MBP	NP_000236.2	P08581	aa 956-1390	M1250T	baculovirus insect cell	N-terminal His
c-MET (P991S)	MET	MBP	NM_000245	P08581	aa 956-end	P991S	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (T992I)	MET	MBP	NM_000245	P08581	aa 956-end	T992I	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (T1173I)	MET	MBP	NM_000245	P08581	aa 956-end	T1173I	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (V1092I)	MET	MBP	NM_000245	P08581	aa 956-end	V1092I	baculovirus in Sf9 insect cells	N-terminal GST-tag
c-MET (Y1230A)	MET	MBP	NP_000245.2	P08581	aa 956-1390	Y1230A	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET (Y1230C)	MET	MBP	NP_000245.2	P08581	aa 956-1390	Y1230C	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET (Y1230D)	MET	MBP	NP_000245.2	P08581	aa 956-1390	Y1230D	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET (Y1230H)	MET	MBP	NP_000245.2	P08581	aa 956-1390	Y1230H	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET (Y1235D)	MET	MBP	NP_000245.2	P08581	aa 956-1390	Y1235D	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
c-MET-TFG (Tex5Mex15)	TGF-MET	MBP	TFG:NM_001195478, MET:NM_000245	Q92734-P08581	TFG (aa1-193, exons1-5)-MET (aa1010-end, exons15-21)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
c-Src (T341M)	SRC	pEY	EMBL K03218	P12931	full-length	T341M	baculovirus in Sf21 insect cells	N-terminal His6-tagged
DDR2 (N456S)	DDR2	AXLtide + Mn	NP_006173.2	Q16832	aa 422-855	N456S	baculovirus in insect cells, activated in vitro autoactivation	N-terminal GST-His-3C-tag
DDR2 (T654M)	DDR2	AXLtide + Mn	NP_006173.2	Q16832	aa 422-855	T654M	baculovirus in insect cells, activated in vitro autoactivation	N-terminal GST-His-3C-tag
EGFR (A763_Y764insFHEA)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	A763_Y764insFHEA	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (C775S/T790M/L858R)	EGFR	pEY + Mn	NM_005228	P00533	aa 668-end	C775S, T790M, L858R	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (C797A)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	C797A	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (C797S)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	C797S	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (C797S/L858R)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	C797S, L858R	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d746)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	d746	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d746-750)	EGFR	pEY + Mn	NP_005219.2	P00533	cytoplasmic domain [669-745, 751-1210(end)]	-	baculovirus insect cell	N-terminal GST-tag
EGFR (d746-750/C775S/T790M/L858R)	EGFR	pEY + Mn	NM_005228	P00533	aa 668-end	d746-750, C775S, T790M, L858R	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d746-750/C797A)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	d746-750, C797A	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d746-750/C797S)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	d746-750/ C797S	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d746-750/T790M)	EGFR	pEY + Mn	NP_005219.2	P00533	cytoplasmic domain [669-745, 751-1210(end)]	T790M	baculovirus insect cell	N-terminal GST-tag
EGFR (d746-750/T790M/C797S)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	d746-750, T790M, C797S	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d747-749)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	d747-749	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (d747-749/A750P)	EGFR	pEY + Mn	NM_005228.3	P00533	cytoplasmic domain [672-746, 750-1210(end)]	A750P	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
EGFR (d747-752/P753S)	EGFR	pEY + Mn	NM_005228.3	P00533	cytoplasmic domain [672-746, 753-1210(end)]	P753S	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
EGFR (d752-759)	EGFR	pEY + Mn	NM_005228.3	P00533	cytoplasmic domain [672-751, 760-1210(end)]	-	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
EGFR (D761Y)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	D761Y	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (D770GY)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	D770GY	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (D770_N771insNPG)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	D770_N771insNPG	baculovirus in Sf9 insect cells	N-terminal GST-tag

EGFR (G719C)	EGFR	pEY + Mn	NM_005228.3	P00533	cytoplasmic domain [672-1210](end)	G719C	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
EGFR (G719D)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	G719D	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (G719S)	EGFR	pEY + Mn	NM_005228.3	P00533	cytoplasmic domain [672-1210](end)	G719S	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
EGFR (L747S)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	L747S	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (L858R)	EGFR	pEY + Mn	NP_005219.2	P00533	catalytic domain (aa 668-1210)	L858R	baculovirus insect cell	N-terminal GST-tag
EGFR (L861Q)	EGFR	pEY + Mn	NP_005219.2	P00533	catalytic domain (aa 668-1210)	L861Q	baculovirus insect cell	N-terminal GST-tag
EGFR (T790M)	EGFR	pEY + Mn	NP_005219.2	P00533	catalytic domain (aa 668-1210)	T790M	baculovirus insect cell	N-terminal GST-tag
EGFR (T790M/C797S)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	T790M, C797S	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (T790M/C797S/L858R)	EGFR	pEY + Mn	NM_005228	P00533	aa 695-end	T790M/C797S/L858R	baculovirus in Sf9 insect cells	N-terminal GST-tag
EGFR (T790M, L858R)	EGFR	pEY + Mn	NP_005219.2	P00533	catalytic domain (aa 668-1210)	T790M, L858R	baculovirus insect cell	N-terminal GST-tag
ERBB2 (D769H)	ERBB2	pEY + Mn	NM_004448	P04626	aa 676-end	D769H	baculovirus in Sf9 insect cells	N-terminal GST-tag
ERBB2 (D769Y)	ERBB2	pEY + Mn	NM_004448	P04626	aa 676-end	D769Y	baculovirus in Sf9 insect cells	N-terminal GST-tag
ERBB2 (P780_Y781insGSP)	ERBB2	pEY + Mn	NM_004448	P04626	aa 676-end	P780_Y781insGSP	baculovirus in Sf9 insect cells	N-terminal GST-tag
ERBB2 (R896C)	ERBB2	pEY + Mn	NM_004448	P04626	aa 676-end	R896C	baculovirus in Sf9 insect cells	N-terminal GST-tag
ERBB2 (V777L)	ERBB2	pEY + Mn	NM_004448	P04626	aa 676-end	V777L	baculovirus in Sf9 insect cells	N-terminal GST-tag
ERBB2 (V777_G778insCG)	ERBB2	pEY + Mn	NM_004448	P04626	aa 676-end	V777_G778insCG	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR1 (V561M)	FGFR1	pEY + Mn	NM_023110	P11362	aa 399-822	V561M	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR1OP-FGFR1	FGFR1OP-FGFR1	pEY + Mn	BC011902-NM_023110	O95684-P11362	FGFR1OP (aa1-173)-FGFR1 (aa 429-end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR2 (E565G)	FGFR2	pEY	BC039243	P21802	aa 285-end	E565G	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR2 (K526E)	FGFR2	pEY	BC039243	P21802	aa 285-end	K526E	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR2 (K641R)	FGFR2	pEY	BC039243	P21802	aa 285-end	K641R	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR2 (K659N)	FGFR2	pEY	BC039243	P21802	aa 285-end	K659N	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR2 (N549H)	FGFR2	pEY	GenBank NM_000141	P21802	aa 456-770	N549H	baculovirus in Sf9 insect cells	N-terminal His6-tagged
FGFR2 (R612T)	FGFR2	pEY	BC039243	P21802	aa 285-end	R612T	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR2 (V564F)	FGFR2	pEY	BC039243	P21802	aa 285-end	V564F	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR3 (V555M)	FGFR3	pEY + Mn	NM_000142	P22607	aa 397-end	V555M	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR3 (G697C)	FGFR3	pEY + Mn	NP_000133.1	P22607	cytoplasmic aa397-806 (end)	G697C	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
FGFR3 (K650E)	FGFR3	pEY + Mn	NP_000133	P22607	cytoplasmic	K650E	Insect	N-terminal His
FGFR3 (K650M)	FGFR3	pEY + Mn	NM_000142	P22607	aa 397-end	K650M	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR3 (K650Q)	FGFR3	pEY + Mn	NM_000142	P22607	aa 397-end	K650Q	baculovirus in Sf9 insect cells	N-terminal GST-tag
FGFR4 (N535K)	FGFR4	pEY + Mn	NP_002002.3	P22455	aa 460-802	N535K	baculovirus insect cell	N-terminal GST-tag
FGFR4 (V550E)	FGFR4	pEY + Mn	NP_002002.3	P22455	aa 460-802	V550E	baculovirus insect cell	N-terminal GST-tag
FGFR4 (V550L)	FGFR4	pEY + Mn	NP_002002.3	P22455	aa 460-802	V550L	baculovirus insect cell	N-terminal GST-tag
FGFR4 (V550M)	FGFR4	pEY + Mn	NM_002011	P22455	aa 460-802	V550M	baculovirus in Sf9 insect cells	N-terminal GST-tag
FLT3 (D835Y)	FLT3	Abtide	NP_004110	P36888	aa 564-958	D835Y	baculovirus insect cell	C-terminal His6-tag
FLT3 (ITD)	FLT3	Abtide	NM_004119	P36888	aa 571-993	internal tandem duplication n_aa591-	baculovirus in Sf9 insect cells	N-terminal GST-tag
FLT3 (ITD)-NPOS	FLT3	Abtide	NM_004119	P36888	aa 571-993	L610_E611insCSSDNEYFVDFREYEYDLKWEF-PRENL	baculovirus in Sf9 insect cells	N-terminal GST-tag
FLT3 (ITD)-W51	FLT3	Abtide	NM_004119	P36888	aa 571-993	L601_K602insREYEYD	baculovirus in Sf9 insect cells	N-terminal GST-tag
FLT3 (F594_R595insR)	FLT3	Abtide	NM_004119	P36888	aa 571-993	F594_R595insR	baculovirus in Sf9 insect cells	N-terminal GST-tag

FLT3 (F594_R595insREY)	FLT3	Abltide	NM_004119	P36888	aa 571-993	F594_R595insREY	baculovirus in Sf9 insect cells	N-terminal GST-tag
FLT3 (R595_E596insEY)	FLT3	Abltide	NM_004119	P36888	aa 571-993	R595_E596insEY	baculovirus in Sf9 insect cells	N-terminal GST-tag
FLT3 (Y591_V592insVDFREYEYD)	FLT3	Abltide	NM_004119	P36888	aa 571-993	Y591_V592insVDFREYEYD	baculovirus in Sf9 insect cells	N-terminal GST-tag
FYN (Y531F)	FYN	pEY + Mn	NP_002028.1	P06241	full-length (1-537)	Y531F	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
JAK2 (V617F)	JAK2	pEY	NP_004963	O60674	aa 532-1132	V617F	Insect	N-terminal GST
KSR1 (A635F)	KSR1	CREBtide	Q8IVT5	Q8IVT5	aa 431-end	A635F	baculovirus in Sf9 insect cells	N-terminal GST-tag
KSR1 (L639F)	KSR1	CREBtide	Q8IVT5	Q8IVT5	aa 431-end	L639F	baculovirus in Sf9 insect cells	N-terminal GST-tag
KSR2 (R676S)	KSR2	CREBtide	Q6VAB6	Q6VAB6	aa 554-950 (end)	R676S	baculovirus in Sf9 insect cells	N-terminal GST-tag
LRRK2 (G2019S)	LRRK2	LRRKtide	NP_940980.2	Q5S007	aa 970-2527	G2019S	baculovirus in insect cells	N-terminal GST
LRRK2 (I2020T)	LRRK2	LRRKtide	NP_940980.2	Q5S007	aa 970-2527	I2020T	baculovirus in insect cells	N-terminal GST
LRRK2 (R1441C)	LRRK2	LRRKtide	NP_940980.2	Q5S007	aa 970-2527	R1441C	baculovirus in insect cells	N-terminal GST
MEK1 (P124L)	MAP2K1	ERK2 (K52R)	NP_002746.1	Q02750	full-length (1-393)	P124L	baculovirus insect cell, co-expressed with RAF1 and purified	N-terminal GST-tag
MELK (T460M)	MELK	Ziptide	NM_014791	Q14680	aa 1-550	T460M	baculovirus in Sf9 insect cells	N-terminal GST-tag
p38a (T106M)	MAPK14	MBP	GenBank L35264	Q16539	full-length	T106M	E. coli	N-terminal GST tagged
PDGFRA (D842V)	PDGFRA	pEY + Mn	NP_006197	Q9DE49	Cytoplasmic (668-1210)	D842V	baculovirus insect cell	N-terminal GST-tag
PDGFRA (T674I)	PDGFRA	MBP	NP_006197	Q9DE49	catalytic domain (aa 550-1089)	T674I	baculovirus insect cell	N-terminal GST-tag
PDGFRA-FIP1L1	FIP1L1-PDGFRA	pEY + Mn	AM_392758-NM_006206	Q6UN15-Q9DE49	FIP1L1 (aa1-265)-PDGFRA (aa 579-end)	Fusion	baculovirus in Sf9 insect cells	N-terminal GST-tag
PDGFRA (V561D)	PDGFRA	pEY + Mn	NP_006197	Q9DE49	catalytic domain (aa 550-1089)	V561D	baculovirus insect cell	N-terminal GST-tag
PDGFRb-TPM3	TPM3-PDGFRB	IGF-1Rtide	NM_152263-NM_002609	P06753-P09619	TPM3 (aa1-258)-PDGFRb (aa 528-end)	Fusion	baculovirus in Sf9 insect cells	N-terminal GST-tag
PKD2 (G870E)	PRKD2	Glycogen Synthase-derived peptide	NM_016457	Q9BZL6	full length	G870E	baculovirus in Sf9 insect cells	N-terminal GST-tag
PKMzeta	PRKCZ	PKCe peptide	NP_002735.3	Q05513	aa184-592	Lacking aa 1-183	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
PKN1-TECR (Tex1Pex10)	PKN1	Glycogen Synthase-derived peptide	TECR:NM_138501, PKN1:NM_002741	Q9NZ01-Q16512,	TECR (aa1-5, exons1)-PKN1 (aa473-end, exons10-22)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (A883F)	RET	CHKtide	NM_020630	P07949	aa 658-1114 (end)	A883F	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (E762Q)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114	E762Q	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET (G691S)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114	G691S	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET (L790F)	RET	CHKtide	NM_020630	P07949	aa 658-1114 (end)	L790F	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (M918T)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114	M918T	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET (R749T)	RET	CHKtide	NM_020630	P07949	aa 658-1114	R749T	baculovirus in Sf9 insect cells	N-terminal GST
RET (R813Q)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114	R813Q	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET (R912P)	RET	CHKtide	NM_020630	P07949	aa 658-end	R912P	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (S891A)	RET	CHKtide	NM_020630	P07949	aa 658-1114 (end)	S891A	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (S904F)	RET	CHKtide	NM_020630	P07949	aa 658-1114 (end)	S904F	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (S904A)	RET	CHKtide	NM_020630	P07949	aa 658-end	S904A	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (V778I)	RET	CHKtide	NM_020630	P07949	aa 658-1114 (end)	V778I	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET (V804E)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114 (end)	V804E	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET (V804L)	RET	CHKtide	NP_066124	P07949	Cytoplasmic (658-1114)	V804L	Insect	N-terminal GST-tagged
RET (V804M)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114	V804M	baculovirus in Sf21 insect cells	N-terminal GST-tagged
RET (Y791F)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114	Y791F	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET (Y806H)	RET	CHKtide	NP_066124.1	P07949	aa 658-1114 (end)	Y806H	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
RET-BCR	BCR-RET	CHKtide	BC066122-NM_020630	P11274-P07949	BCR (aa1-426)-RET (aa 713-end)	Fusion	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET-CCDC6 (PTC1)	CCDC6-RET	CHKtide	BC036757-NM_020630	Q16204-P07949	CCDC6 (aa1-101)-RET (aa 713-end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET-PRKAR1A (PTC2)	PRKAR1A-RET	CHKtide	NM_002734-NM_020630	P10644-P07949	PRKAR1A (aa1-236)-RET (aa 713-end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
RET-NCOA4 (PTC3)	NCOA4-RET	CHKtide	BC001562-NM_020630	Q13772-P07949	NCOA4 (aa1-238)-RET (aa 713-end)	-	baculovirus in Sf9 insect cells	N-terminal GST-tag

ROS1 (G2032R)	ROS1	IGF-1Rtide	NM_002944	P08922	aa 1881-end	G2032R	baculovirus in Sf9 insect cells	N-terminal GST-tag
ROS1-GOPC	GOPC-ROS1	IGF-1Rtide	NM_020399-NM_002944	Q9HD26-P08922	GOPC (aa1-419)-ROS1 (aa 1881-end)	Fusion	baculovirus in Sf9 insect cells	N-terminal GST-tag
ROS1-TPM3	TPM3-ROS1	IGF-1Rtide	NM_152263-NM_002944	P06753-P08922	TPM3 (aa1-258)-ROS1 (aa 1881-end)	Fusion	baculovirus in Sf9 insect cells	N-terminal GST-tag
RSK2 (I416V)	RSK2	Glycogen Synthase-derived peptide	NM_004586	P51812	full length	I416V	baculovirus in Sf9 insect cells	N-terminal GST-tag
RSK2 (L608F)	RSK2	Glycogen Synthase-derived peptide	NM_004586	P51812	full length	L608F	baculovirus in Sf9 insect cells	N-terminal GST-tag
TIE2 (A1124V)	TEK	pEY + Mn	NM_000459	Q02763	aa 771-end	A1124V	baculovirus in Sf9 insect cells	N-terminal GST-tag
TIE2 (P883A)	TEK	pEY + Mn	NM_000459	Q02763	aa 771-1124 (end)	P883A	baculovirus in Sf9 insect cells	N-terminal GST-tag
TIE2 (R849W)	TEK	pEY + Mn	NM_000450.1	Q02763	aa 771-1124	R849W	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
TIE2 (Y897C)	TEK	pEY + Mn	NM_000459	Q02763	aa 771-1124 (end)	Y897C	baculovirus in Sf9 insect cells	N-terminal GST-tag
TIE2 (Y897S)	TEK	pEY + Mn	NM_000450.2	Q02763	aa 771-1124	Y897S	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
TIE2 (Y1108F)	TEK	pEY + Mn	NM_000450.2	Q02763	aa 771-1124	Y1108F	baculovirus in Sf9 insect cells	N-terminal GST-His-tag
TRKA (A608D)	NTRK1	pEY + Mn	NM_002529	P04629	aa 440-end	A608D	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (F589L)	NTRK1	pEY + Mn	NM_002529	P04629	aa 440-end	F589L	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G595R)	NTRK1	pEY + Mn	NM_002529	P04629	aa 440-end	G595R	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G595R/A608D)	NTRK1	pEY	NM_002529	P04629	aa 440-end	G595R/A608D	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G595R/L657M)	NTRK1	pEY	NM_002529	P04629	aa 440-end	G595R/L657M	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G595R/G667A)	NTRK1	pEY	NM_002529	P04629	aa 440-end	G595R/G667A	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G595R/G667C)	NTRK1	pEY	NM_002529	P04629	aa 440-end	G595R/G667C	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G595R/G667S)	NTRK1	pEY	NM_002529	P04629	aa 440-end	G595R/G667S	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (G667C)	NTRK1	pEY + Mn	NM_002529	P04629	aa 440-end	G667C	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA (L657M)	NTRK1	pEY + Mn	NM_002529	P04629	aa 440-end	L657M	baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA-TFG (TRK-T3)	TFG-NTRK1	pEY	TFG: NM_001195478, TRKA: NM_002529	Q92734-P04629	TFG (aa 1-193)-TRKA (aa 399-end)	Fusion	Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA-TPM3	NTRK1	pEY	TPM3: NM_152263, TRKA: NM_002529	P06753-P04629	TPM3 (aa 1-258)-TRKA (aa 399-end)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKA-TPR	NTRK1	pEY	TPR: NM_003292, TRKA: NM_002529	P12270-P04629	TPP (aa 1-191)-TRKA (aa 399-end)		Fusion protein was expressed in baculovirus in Sf9 insect cells	N-terminal GST-tag
TRKC (G623E)	NTRK3	pEY + Mn	NM_001012338	Q16288	aa 507-end	G623E	baculovirus in Sf9 insect cells	N-terminal His-tag
TRKC (G623R)	NTRK3	pEY + Mn	NM_001012338	Q16288	aa 507-end	G623R	baculovirus in Sf9 insect cells	N-terminal His-tag
TRKC (G623R/L686M)	NTRK3	pEY + Mn	NM_001012338	Q16288	aa 507-end	G623R, L686M	baculovirus in Sf9 insect cells	N-terminal His-tag
TRKC (L686M)	NTRK3	pEY + Mn	NM_001012338	Q16288	aa 507-end	L686M	baculovirus in Sf9 insect cells	N-terminal His-tag
YES1 (T348I)	YES1	pEY	NM_005433	P07947	full length	T348I	baculovirus in Sf9 insect cells	N-terminal GST-tag
ZAP70 (Y319F)	ZAP70	pEY	NM_001079	P43403	full length	Y319F	baculovirus in Sf9 insect cells	N-terminal GST-tag

Atypical Kinases

RBC Name	HUGO symbol	Substrate	Genbank Accession #	Protein Accession #	Clone	Mutation	Expression	Tag
AMPK(A1/B1/G1)	PRKAA1/PRKA B1/PRKAG1	SAMStide + 125 uM AMP	NM_006251/NM_006253/ NM_002733	A1:Q13131; B1: Q9Y478; G1:P54619	full-length		Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK(A1/B1/G2)	PRKAA1/PRKA B1/PRKAG2	SAMStide + 125 uM AMP	NM_006251/NM_006253/ NM_001040633	A1:Q13131; B1: Q9Y478;	full-length		Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK(A1/B1/G3)	PRKAA1/PRKA B1/PRKAG3	SAMStide + 125 uM AMP	NM_006252/NM_006253/ NM_017431	A1:Q13131; B1: Q9Y478;	full-length	-	Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK(A1/B2/G1)	PRKAA1/PRKA B2/PRKAG1	SAMStide + 125 uM AMP	NM_006251/NM_005399/ NM_002733	A1:Q13131; B2: O43741;	full-length		Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK (A1/B2/G2)	PRKAA1/PRKA B2/PRKAG2	SAMStide + 125 uM AMP	NM_006251/NM_005399/ NM_001040633	A1:Q13131; B2: O43741;	full-length	-	Baculovirus infected Sf9 cells	N-Terminal GST, C-terminal His-tag
AMPK (A1/B2/G3)	PRKAA1/PRKA B2/PRKAG3	SAMStide + 125 uM AMP	NM_006251/NM_005399/ NM_017431	A1:Q13131; B2: O43741;	full-length	-	Baculovirus infected Sf9 cells	N-Terminal GST, C-terminal His-tag
AMPK(A2/B1/G1)	PRKAA2/PRKA B1/PRKAG1	SAMStide + 125 uM AMP	NM_006252/NM_006253/ NM_002733	A2:P54646; B1: Q9Y478;	full-length		Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK (A2/B1/G2)	PRKAA2/PRKA B1/PRKAG2	SAMStide + 125 uM AMP	NM_006252/NM_006253/ NM_001040633	A2:P54646; B1: Q9Y478;	full-length	-	baculovirus in Sf9 insect cells	N-Terminal GST, C-terminal His-tag
AMPK (A2/B1/G3)	PRKAA2/PRKA B1/PRKAG3	SAMStide + 125 uM AMP	NM_006252/NM_006253/ NM_017431	A2:P54646; B1: Q9Y478;	full-length		Baculovirus infected Sf9 cells	N-Terminal GST, C-terminal His-tag
AMPK(A2/B2/G1)	PRKAA2/PRKA B2/PRKAG1	SAMStide + 125 uM AMP	NM_006252/NM_005399/ NM_002733	A2:P54646; B2: O43741;	full-length	-	Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK(A2/B2/G2)	PRKAA2/PRKA B2/PRKAG2	SAMStide + 125 uM AMP	NM_006252/NM_005399/ NM_001040633	A2:P54646; B2: O43741;	full-length	-	Baculovirus infected Sf9 cells	C-terminal His-tag
AMPK(A2/B2/G3)	PRKAA2/PRKA B2/PRKAG3	SAMStide + 125 uM AMP	NM_006252/NM_005399/ NM_017431	A2:P54646; B2: O43741;	full-length	-	Baculovirus infected Sf9 cells	N-terminal GST-tag / C-terminal His-tag
DNA-PK	PRKDC	DNA-PKtide+ dsDNA	Native human	P78527	full-length	-	Native human from MOLT4 cells	-
EEF2K	EEF2K	EEF2Ktide+Ca-CaM	NP_037434	O00418	full length	-	E. coli	N-terminal GST
EIF2AK1/HRI	EIF2AK1	MBP	NP_055228	Q9BQI3	full length	-	baculovirus in insect cells	N-terminal GST
EIF2AK2	EIF2AK2	RS peptide	GenBank NM_002759	P19525	aa252-end	-	baculovirus in Sf9 insect cells	N-terminal GST
EIF2AK3/PERK	EIF2AK3	MBP	NP_004827.3	Q9NZJ5	aa536-1116	-	baculovirus in insect cells	N-terminal GST
EIF2AK4/GCN2	EIF2AK4	RS peptide + Mn	NM_001013703	Q9P2K8	aa_192-1024	-	Insect	N-terminal GST-tag
mTOR/FRAP1	MTOR	4EBP1 + Mn	NP_004949.1	P42345	Catalytic (aa 1360 - 2549)	-	Insect	N-terminal GST
PDK1/PDHK1	PDK1	MBP	MN_002610	Q15118	full-length	-	Insect	N-terminal GST-tag
PDK2/PDHK2	PDK2	MBP	MN_002611	Q15119	full-length	-	Insect	N-terminal GST-tag
PDK3/PDHK3	PDK3	MBP	MN_005391	Q15120	full-length	-	Insect	N-terminal GST-tag
PDK4/PDHK4	PDK4	MBP	NP_002603.1	Q16654	full length	-	Insect	N-terminal GST-tag
TRPM7/CHAK1	TRPM7	MBP + Mn	NP_060142.3	Q96QT4	Catalytic domain (aa1158-1865)	-	Insect	N-terminal GST-tag

Lipid Kinases

RBC Name	HUGO symbol	Substrate	Genbank Accession #	Protein Accession #	Clone	Mutation	Expression	Tag
Lipid Kinases								
PI3K (p110a(E542K)/p85a)	PIK3CA/PIK3R1	PI(4,5)P2:PS	U79143, XM_043865	P42336/P27986	full-length	E542K	baculovirus in Sf9 insect cells	N-terminal His-tag
PI3K (p110a(E545K)/p85a)	PIK3CA/PIK3R1	PI(4,5)P2:PS	U79143, XM_043865	P42336/P27986	full-length	E545K	baculovirus in Sf9 insect cells	N-terminal FLAG-tag
PI3K (p110a(H1047R)/p85a)	PIK3CA/PIK3R1	PI(4,5)P2:PS	U79143, XM_043865	P42336/P27986	full-length	H1047R	baculovirus in Sf9 insect cells	N-terminal FLAG-tag
PI3K (p110a/p65a)	PIK3CA/PIK3R1	PI(4,5)P2:PS	U79143, XM_043865	P42336/P27986	full-length	-	baculovirus in Sf9 insect cells	N-terminal His tagged
PI3Ka (p110a/p85a)	PIK3CA/PIK3R1	PI(4,5)P2:PS	NP_006209.2,	P42336/P27986	full-length	-	Baculovirus infected Sf9 cells	N-terminal His6-tagged
PI3Kb (p110b/p85a)	PIK3CB/PIK3R1	PI(4,5)P2:PS	NM_006219, NM_181523	P42338/P27986	full-length	-	baculovirus in Sf9 insect cells	N-terminal His6-tagged
PI3Kd (p110d/p85a)	PIK3CD/PIK3R1	PI(4,5)P2:PS	NM_005026, NM_181523	O00329/P27986	full-length	-	baculovirus in Sf9 insect cells	N-terminal His6-tagged
PI3Kg (p120g)	PIK3CG	PI(4,5)P2:PS	NP_002640.2	P48736	full-length	-	baculovirus in insect cells	N-terminal His tagged
PI3KC2a	P3C2A	PI	NP_002636.1	O00443	aa142-1412	-	Insect	N-terminal GST-tag
PI3KC3	PK3C3	PI:PS	NP_002638.2	Q8NEB9	full-length	-	Insect	N-terminal GST-tag
PI4K2A	PI4K2A	PI	NM_018425	Q9BTU6	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
PI4Ka	PIK4CA	PI	NP_002641	P42356	aa 1-854	-	Insect, co-purifies with endogenous insect HSP70	N-terminal GST-tag
PI4Kb	PIK4CB	PI	NP_002642.1	Q9UBF8	full-length	-	Insect	N-terminal GST-tag
PIP5K1A	PIP5K1A	PI(4)P:PS	BC007833	Q99755	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
PIP5K1C	PIP5K1C	PI(4)P:PS	NM_012398	O60331	full-length	-	baculovirus in Sf9 insect cells	N-terminal GST-tag
SPHK1	SPHK1	Sphingosine	BC008040	Q9NYA1	full-length	-	Insect	N-terminal GST-tag
SPHK2	SPHK2	Sphingosine	NM_020126	Q9NRA0	full-length	-	Insect	N-terminal GST-tag