



KINASE RESEARCH TOOLS

FOR CELL SIGNALING DISCOVERY

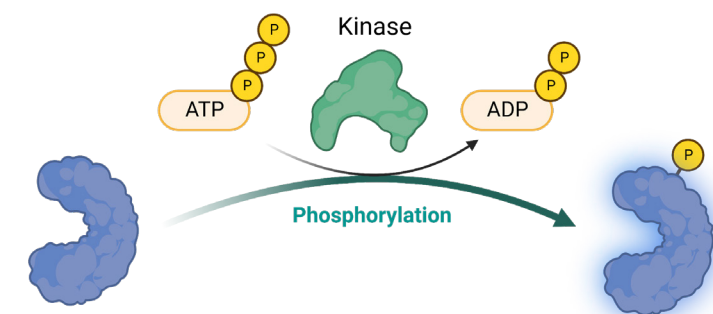
Active Proteins | Assay Kits | Substrates | Inhibitors
CRISPR/Cas9 Kinase Knock-out Lentivirus Library



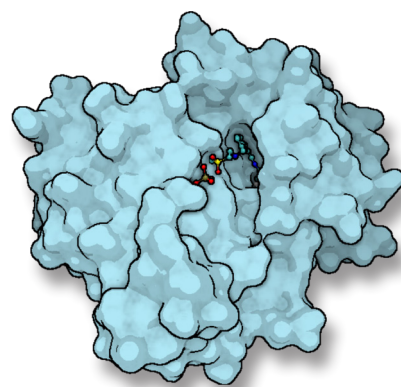
A Master Controller of Cell Functions

Protein phosphorylation regulates a large number of cellular processes including cellular division, metabolism, signal transduction, and many more. There are over 500 kinases encoded by the human genome and it has been estimated that kinases regulate approximately 50% of cellular functions. Kinase is the name given to an enzyme that catalyzes the transfer of a phosphate group from ATP to another molecule. Kinases can be broadly separated by their substrate into protein, lipid, nucleotide, and carbohydrate kinases with the protein kinases being further classified based on their cellular location and the specific amino acid(s) they phosphorylate. They are now key therapeutic targets across many disease areas.

Phosphorylation



Images created with Biorender.com.



EGFR kinase domain complexed with an inhibitor, Lapatinib. (PDB ID: 1XKK)

Our Advantages



Produced In-House

- Made in the USA at our San Diego, CA laboratory
- Get customized, personal support directly from the source



Committed to Excellence

- ISO 9001:2015-certified Quality Management System
- Lot-specific quality testing



Protein Expression & Screening Services

- Unique panel of 80+ assays for evaluation of lead compounds
- Select from IC₅₀ determination or single point concentrations
- Perform follow-up studies using the same proteins manufactured in-house



Expansive Portfolio

- Active kinase complexes: mTOR, 10+ PI3 Kinase complexes, AMPK, and more
- Active kinase mutants: TRKC, LRRK2, JAK2, cKit, and 35+ EGFR mutants
- 100+ activity assay kits
- CRISPR/Cas9 Kinase Knockout Lentiviruses

Bioactive Recombinant Proteins

BPS Bioscience specializes in manufacturing bioactive enzymes and protein complexes, offering over 2000 protein products critical for drug discovery. Our kinase portfolio consists of proteins from six kinase families: lipid, receptor tyrosine, serine-threonine, cytoplasmic tyrosine, pyruvate, and fructokinase. Our offerings include wild-type and mutant variants of key proteins, including JAK2, TRKC, LRRK2, FGFR3, and EGFR.

Protein substrates and inhibitors are also available.

Protein options include:



HiP™ Proteins (High Purity, Low Aggregation)

- >90% purity
- Verified via HPLC to guarantee <10% aggregation
- Ideal for studying enzyme activity, ligand binding, protein folding, and more

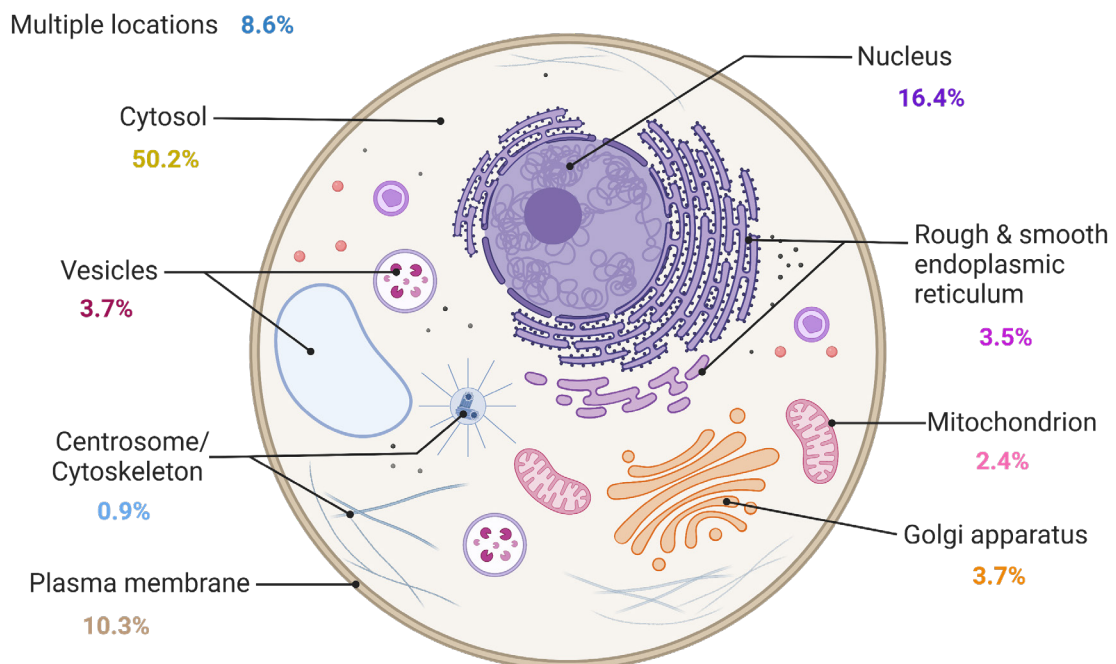
Bulk Production and Customization

Product sizing, formulations, tags, mutations, and activity testing can be customized to meet your research needs.

Featuring

- Active complexes, including AMPK, PI3 Kinase, CDK/Cyclin, and more
- Active protein domains, including JAK2 JH2, JAK3 JH2, TYK2 JH2, PLK1 Polo Box, and more.

Where are kinases found in the cell?













Data from: Zhang, H. et al. 2021. eLife. [64943](https://doi.org/10.7554/eLife.64943). Image created with Biorender.com.

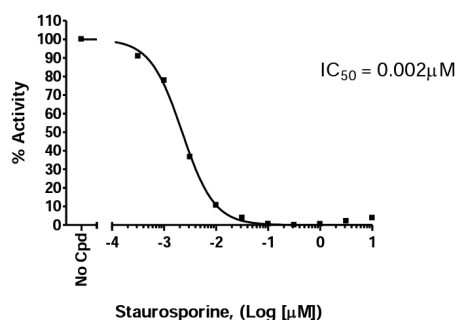
Biochemical Assay Kits

Our 100+ kinase assay kits enable your compound and biotherapeutic drug discovery by providing specific, highly sensitive analysis in a variety of formats. Many of our kits are provided as homogenous assays, with no wash steps, for efficient high throughput screening.

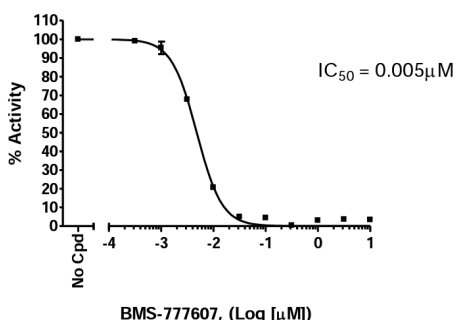
Compare assay formats:

AlphaLISA™	Chemiluminescent	Colorimetric	Fluorescence Polarization	Fluorogenic	Luminescent	TR-FRET	UV Spectrophotometric		
✓	✓	✓	✓	✓	✓	✓	✓		High specificity
✓	✓		✓	✓	✓	✓	✓		High sensitivity with low background noise.
✓			✓	✓	✓	✓	✓		Simple operation
✓			✓	✓	✓	✓	✓		Homogeneous, no-wash format makes it simple for high throughput screening.
✓			✓	✓		✓	✓		Real-time readings do not require equilibrium conditions.
✓			✓			✓	✓		Small volume reactions save on sample consumption.
✓	✓				✓				Large dynamic range, up to 4-5 logs.
			✓			✓			Highly stable signal allows for repetitive measurements.
		✓					✓		Common, low-cost instrumentation
						✓			Use of lanthanide donor fluorophores minimizes photobleaching.

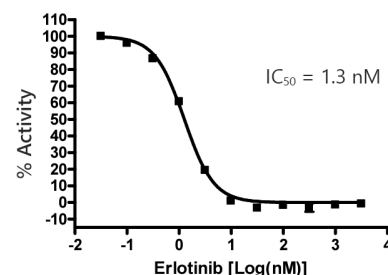
JAK2 Inhibition by Staurosporine



Tyros3 Inhibition by BMS-777607



EGFR Inhibition by Erlotinib



Biochemical Screening Services

BPS Bioscience offers rapid and dependable kinase screening services to determine IC₅₀ values of small molecules, peptides, and antibodies against requested targets. Our team of experts along with our broad services portfolio make it easy to:

- Screen for inhibitors/targets
- Select from IC₅₀ determination and single point concentrations
- Perform follow-up studies using the same proteins manufactured in-house
- Get questions answered or project guidance in a time-efficient manner

Our Deliverables to You

Detailed Results



Extensive report with raw and analyzed data, graphs, and detailed protocols. Typically includes positive controls for inhibition.

Fast Turnaround



Receive results within weeks after our receipt of your compounds.

Quality & Consistency



Proteins and enzymes synthesized and QC'd in-house to ensure the highest level of inter- and intra-assay consistency.

Extensive Selection



Choose from over 80 in-house developed kinase assays, including many novel assay kits.

Platform Options



Choose the format that works best for your experiment or perform orthogonal testing on multiple platforms to verify your results.

Why choose BPS Bioscience for your screening projects?

- We can provide end-to-end customization from protein production to assay development, completing with compound screening.
- We have extensive expertise and experience in developing and manufacturing custom and off-the-shelf kinase proteins and assay kit products.
- We have helped accelerate projects across large pharma, vaccine developers, biotech and basic research institutions.
- Our high quality projects have returned excellent customer satisfaction scores.

Give us a try today.

CRISPR/Cas9 Kinase Knockout Library

Our CRISPR/Cas9 Kinase Knockout Lentivirus Library consists of ready-to-use, VSV-G pseudotyped integrating lentiviruses intended for use in generating kinase knockouts for screening purposes.

Array Format (#78487)



Targets 619 human kinases and pseudokinases



5 sgRNAs per gene



150 control sgRNAs included



Puromycin selection

- 649 vials come with 200 μ l of lentivirus each at a titer $\geq 1 \times 10^7$ TU/ml; the exact titer is provided with each shipment.

Advantages

- All-in-One: each vial contains lentiviral particles to transduce the Cas9 gene, 5 sgRNAs targeting the kinase of interest, and a puromycin selection marker. There is no requirement for the target cell to already express Cas9.
- Safe: requires only Biosafety Level 2 (BSL-2).
- Each sgRNA lentiviral particle is individually constructed, sequence-verified, individually cultured, and titered to ensure high quality and representation across the entire library.
- VSV-G pseudoviruses transduce most mammalian cells, including primary and non-dividing cells.

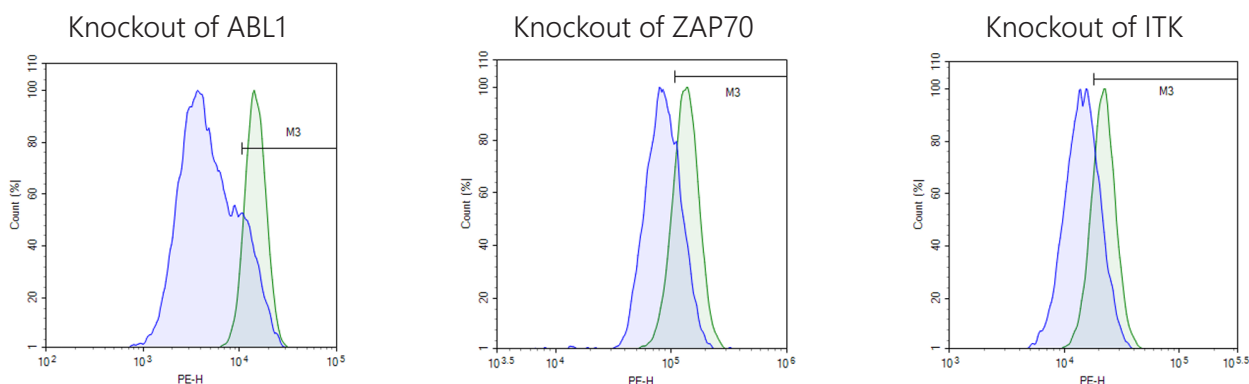
Custom Panels

- The Custom Panel option allows you to pick between 2-50 kinases out of the full human kinase library. One vial of 200 μ l of lentivirus is provided for each target.
- Download the full target list and request a quote here: bpsbioscience.com/crispr-kinasepanel

Single Target (#78488)

- If you are only interested in a single kinase target to knock out, this option is available.
- Receive two vials, each with 200 μ l of lentivirus at a titer $\geq 1 \times 10^7$ TU/ml.

Flow cytometry confirmation of kinase knockouts in Jurkat cells:



Assay Kit Components	Catalog#	Biochemical Assay Kits	Catalog#
ATP (500 μM)	79686	Chemi-Verse™ CDK5/p35 Kinase Assay Kit	82249
		Chemi-Verse™ CDK8/Cyclin C Kinase Assay Kit	78886
		Chemi-Verse™ CDK9/CyclinK Kinase Assay Kit	82237
		Chemi-Verse™ CDK9/CyclinT Kinase Assay Kit	82233
		Chemi-Verse™ CLK1 Kinase Assay Kit	82145
		Chemi-Verse™ CLK2 Kinase Assay Kit	82146
		Chemi-Verse™ CLK3 Kinase Assay Kit	82150
		Chemi-Verse™ ERK2 Kinase Assay Kit	78899
		Chemi-Verse™ Kinase Aurora C Assay Kit	82096
		Chemi-Verse™ LYN A Kinase Assay Kit	82224
		Chemi-Verse™ MAPKAPK2 Kinase Assay Kit	82129
		Chemi-Verse™ MAPKAPK5 Kinase Assay Kit	82236
		Chemi-Verse™ MEK1 Kinase Assay Kit	82100
		Chemi-Verse™ NUA1 Kinase Assay Kit	82231
		Chemi-Verse™ NUA2 Kinase Assay Kit	82232
		Chemi-Verse™ PAK2 Kinase Assay Kit	82221
		Chemi-Verse™ PAK3 Kinase Assay Kit	82222
		Chemi-Verse™ PAK4 Kinase Assay Kit	82181
		Chemi-Verse™ PAK6 Kinase Assay Kit	82182
		Chemi-Verse™ PAK7 Kinase Assay Kit	82183
		Chemi-Verse™ PI3 Kinase (p110α/p85α) Kinase Assay Kit	82108
		Chemi-Verse™ PI3 Kinase (p120γ) Kinase Assay Kit	82104
		Chemi-Verse™ PI3 Kinase p110α (E542K)/p85α Kinase Assay Kit	82113
		Chemi-Verse™ PI3 Kinase p110α (E545K)/p85α Kinase Assay Kit	82109
		Chemi-Verse™ PI3 Kinase P110α (H1047R)/P85α Kinase Assay Kit	82103
		Chemi-Verse™ PI3 Kinase P110α(H1047L)/P85α Kinase Assay Kit	82120
		Chemi-Verse™ SIK1 Kinase Assay Kit	82105
		Chemi-Verse™ SIK2 Kinase Assay Kit	82106
		Chemi-Verse™ TNK1 Kinase Assay Kit	82159
		Chemi-Verse™ TTBK1 Kinase Assay Kit	82162
		Chemi-Verse™ TTBK2 Kinase Assay Kit	82225
		Chemi-Verse™ VRK1 Kinase Assay Kit	82230
		CHK1 Kinase Assay Kit	78418
		CHK2 Kinase Assay Kit	78421
		cKIT (D816V) Assay Kit	79889
		cKIT (V654A) Assay Kit	79890
		cKIT Assay Kit	79815
		CSF1R Kinase Assay Kit	78829

Biochemical Assay Kits	Catalog#	Biochemical Assay Kits	Catalog#
CSK Kinase Assay Kit	78818	JAK3 (Janus Kinase 3) Assay Kit	79521
DYRK1B Kinase Assay Kit	78401	LCK Assay Kit	79794
DYRK2 Kinase Assay Kit	78392	Lumi-Verse™ VEGFR2 (KDR) Kinase Assay Kit	78857
EGFR (T790M, C797S) (del746-750) Kinase Assay Kit	78595	MAP3K14 Kinase Assay Kit	78440
EGFR (T790M/C797S/ L858R) Kinase Assay Kit	40326	MNK1 Kinase Assay Kit	78032
EGFR Kinase Assay Kit	40321	NEK6 Kinase Assay Kit	79992
EGFR(L858R) Kinase Assay Kit	40324	NEK7 Kinase Assay Kit	78850
EGFR(T790M) Kinase Assay Kit	40323	p70S6K (S6K1) Kinase Assay Kit	78806
EGFR(T790M/L858R) Kinase Assay Kit	40322	PDGFRα (D842I) Assay Kit	79761
EIF2AK2 Kinase Assay Kit	78433	PDGFRα (D842V) Assay Kit	79828
EPHA2 Assay Kit	78002	PDGFRα (D842Y) Assay Kit	79760
EPHA4 Kinase Assay Kit	78592	PDK3 Kinase Assay Kit	78286
EPHB4 Kinase Assay Kit	78009	PI3Kα (p110α/p85) Assay Kit	79781
FAK Kinase Assay Kit	40722	PI3Kβ (p110β/p85α) Assay Kit	79802
FGFR2 Assay Kit	79804	PI3Kγ (p110γ/PIK3R5) Assay Kit	79803
FGFR3 (L496V) Assay Kit	79818	PI3Kδ (p110δ/p85α) Assay Kit	79799
FGFR3 (V443L) Assay Kit	79819	PIM1 Assay Kit	79885
FGFR3 (V443M) Assay Kit	79817	PIM2 Assay Kit	79883
FGFR4 Kinase Assay Kit	78816	PIM3 Assay Kit	79886
FLT1 Kinase Assay Kit	78019	Rat ITK Kinase Assay Kit	78513
FLT3 Kinase Assay Kit	79797	RET Assay Kit	79566
FYN Assay Kit	78003	RIPK1 Kinase (Mouse) Assay Kit	79897
GSK3α Assay Kit	79698	RIPK1 Kinase Assay Kit	79560
GSK3β Assay Kit	79700	RIPK1 Kinase Assay Kit (384-well)	79689
HER2 Kinase Assay Kit	40721	RIPK2 Kinase Assay Kit	79737
HER4 Assay Kit	78005	ROCK1 Kinase Assay Kit	78386
HIPK3 Kinase Assay Kit	78382	ROCK2 Kinase Assay Kit	78407
HPK1 Assay Kit	79775	ROS1 Kinase Assay Kit	78189
IKKβ Kinase Assay Kit	78507	SPHK1 Assay Kit	78026
IRAK1 Kinase Assay Kit	78523	SRC Assay Kit	79680
IRAK4 Kinase Assay Kit	78524	STK3 (MST2) Kinase Assay Kit	82140
ITK Kinase Assay Kit	78429	STK4(MST1) Kinase Assay Kit	78500
JAK1 (Janus Kinase 1) Assay Kit	79518	SYK Assay Kit	79671
JAK1 (JH2 Pseudokinase Domain) Inhibitor Screening Assay Kit	78891	TAK1-TAB1 Kinase Assay Kit	78037
JAK2 (Janus Kinase 2) Assay Kit	79520	TBK1 Assay Kit	79871
JAK2 JH2 Pseudokinase Domain Inhibitor Screening Assay Kit	78111	TGFβR1 (ALK5) Kinase Assay Kit	78819
JAK2-JH2 Pseudokinase Domain (V617F, W659A, W777A, F794H) Inhibitor Screening Assay Kit	78209	Tie2 Kinase Assay Kit	78573
JAK2-JH2 Pseudokinase Domain (W659A, W777A, F794H) Inhibitor Screening Assay Kit	78208	TNIK Kinase Assay Kit	78370

Biochemical Assay Kits	Catalog#	Inhibitors/Activators	Catalog#
TrkA Assay Kit	79548	Fasudil	27029
TRKB Kinase Assay Kit	78591	Forskolin	27067
TRKC Kinase Assay Kit	78528	Forskolin	27068
TTK (MPS-1) Kinase Assay Kit	78356	GDC-0941	27000
TYK2 (Tyrosine Kinase 2) Assay Kit	79527	Gefitinib	27032
TYK2 JH2 Pseudokinase Domain Inhibitor Screening Assay Kit	78107	Geldanamycin	27008
TYR Phosphorylation Assay Kit	79502	HA-1077	27030
TYRO3 Kinase Assay Kit	79593	IBT6A	82075
ULK1 Kinase Assay Kit	78362	K252a	27033
ULK2 Kinase Assay Kit	78367	I-[(3R)-3-[4-amino-3-(4-phenoxyphenyl)-1Hpyrazolo [3,4-d]pyrimidin-1-yl]-1-piperidinyl]-2-propyn-1-one	82071
VEGFR2 (KDR) Kinase Assay Kit	40325	LY-294002	27038
VEGFR3(FLT4) Kinase Assay Kit	79738	MK-1775	82196
Wee1 Kinase Assay Kit	79909	PD 173074	27056
YES1 Assay Kit	79681	PI-103	27502-1
ZAP70 Kinase Assay Kit	78427	PI-103	27502-2
		PP242	27063
		Rapamycin	27062
		Roscovitine	27040
		Ruxolitinib Phosphate	27059
		SGI-1776 free base	27651-1
		SGI-1776 free base	27651-2
		SGI-1776 free base	27651-3
		SMI-4a	27774-1
		SMI-4a	27774-2
		Sorafenib Tosylate	27014
		Staurosporine	27002
		Temsirolimus	27024
		Tofacitinib	27037
		U0126	27012
		Wortmannin	27031
Buffers	Catalog#	Lentiviruses	Catalog#
Kinase Buffer 1	79334	CRISPR/Cas9 Kinase Knockout Lentivirus Library (Array Format)	78487
		Kinase (Human) CRISPR/Cas9 Lentivirus (Integrating)	78488
Cell Lines	Catalog#	Proteins	Catalog#
CSF1R / SRE - Reporter HEK293 Cell Line	79380	14-3-3 alpha/beta Protein, His-tag (Human)	79023
Human EGFRvIII CHO K1 Cell Line (High or Low Expression)	78145	14-3-3 alpha/beta Protein, His-tag (Mouse)	79024
TrkA / SRE Reporter - HEK293 Cell Line	79798		
VEGFR2/NFAT Reporter HEK293 Cell Line	79387		
Inhibitors/Activators	Catalog#		
4-(4-(4-(3-fluorobenzyloxy)-3-chlorophenylamino)quinazolin-6-yl)phenol	82072		
A-769662	27057		
Afatinib	27009		
Axitinib	27064		
BAY-11-7082	27229		
BI-2536	82062		
Cediranib	27036		
CHIR-99021 (CT99021)	27614-2		
CHIR-99021 (CT99021)	27614-3		
CHIR-99021 (CT99021) HCl	27615-2		
CHIR-99021 (CT99021) HCl	27615-3		
Doramapimod	27034		

Proteins	Catalog#	Proteins	Catalog#
14-3-3 epsilon Protein, His-tag (Human)	79025	ALK2 (ACVR1) (R202I), GST-Tag	101938
14-3-3 epsilon Protein, His-tag (Mouse)	79026	ALK2 (ACVR1) (R206H), GST-Tag (Mouse)	101940
14-3-3 sigma Protein, His-tag (Human)	79037	ALK2 (ACVR1) (R206H), GST-Tag	100714
14-3-3 theta Protein, His-tag (Human)	79038	ALK2 (ACVR1) (R258G), GST-Tag	101941
14-3-3 zeta Protein, His-tag (Human)	79039	ALK2 (ACVR1), FLAG-Tag, Avi-Tag, Biotin-Labeled	100176
14-3-3 zeta Protein, His-tag (Mouse)	79040	ALK2 (ACVR1), GST-tag	40019
Abl Kinase Mutant (T315I), His-tag	40415	ALK3 (BMPR1A) (Q233D), GST-Tag	101942
Abl Kinase, His-tag	40411	ALK3 (BMPR1A) (R486Q), GST-Tag	101943
ABL2, His-tag	40417	ALK4 (ACV1B), GST-tag	40020
ACK1, GST-tag	40400	AMPK (A1/B1/G1), His-tags	40025
AKT1, Active	40003	AMPK (A1/B1/G2), His-tag	40701
AKT1, Inactive, His-tag	40000	AMPK (A1/B1/G2), His-tags	40021
AKT2, Active, His-tag	40011	AMPK (A1/B1/G3), His-tag	40702
AKT2, Inactive, His-tag	40001	AMPK (A1/B1/G3), His-tags	40022
AKT3, His-tag	40012	AMPK (A1/B2/G1), His-tag	40703
ALK (C1156Y), GST-Tag	101915	AMPK (A1/B2/G1), His-tags	40023
ALK (F1174L), GST-Tag	101918	AMPK (A2/ B1/G1), His-tag	40704
ALK (F1174S), GST-Tag	101919	AMPK (A2/B1/G1), His-tags	40024
ALK (G1202R), GST-Tag	101920	AMPK (A2/B2/G1), His-tag	40705
ALK (G1269A), GST-Tag	101921	AMPK (A2/B2/G1), His-tags	40026
ALK (G1269S), GST-Tag	101922	AMPK (A2/B2/G2), His-tag	40706
ALK (I1171N, D1203N), GST-Tag	101923	AMPK (A2/B2/G2), His-tags	40027
ALK (L1152R), GST-Tag	101924	aRAF, GST-Tag, His-Tag	40010
ALK (L1196M), GST-Tag	101926	Ask1, GST-tag	40028
ALK (L1196M, G1202R), GST-Tag	101925	ATF2, GST-Tag	40520
ALK (R1275Q), GST-Tag	101927	ATM, GST-tag	101486
ALK (S1206R), GST-Tag	101928	ATR, GST-Tag	101485
ALK (T1151 L1152insT), GST-Tag	101930	Aurora A Protein Kinase, His-Tag (HEK293-derived)	100112
ALK (T1151M), GST-Tag	101929	Aurora A Protein Kinase, His-Tag (Sf9-derived)	40004
ALK , GST-tag	40214	AURORA C, GST-tag	40178
ALK1 (ACVRL1), GST-tag	40018	Aurora Kinase B, GST-Tag, His-Tag	40002
ALK2 (ACVR1) (G328E), GST-Tag	101931	AXL, FLAG-Tag	100174
ALK2 (ACVR1) (G328V), GST-Tag	101932	Axl, GST-Tag	40180
ALK2 (ACVR1) (G328W), GST-Tag	101933	BCKDK, GST-Tag	101115
ALK2 (ACVR1) (G356D), GST-Tag	101934	BLK, GST-tag	40401
ALK2 (ACVR1) (PF197_198L), GST-Tag	101935	BMX, GST-tag	40402
ALK2 (ACVR1) (Q207D), GST-Tag	101936	BRAF (V600E), GST-His-Tag	40533
ALK2 (ACVR1) (Q207E), GST-Tag	101937	BRAF, GST-tag	40065

Proteins	Catalog#	Proteins	Catalog#
BRAF, His-Tag (High Expression)	41237	CDK14/Cyclin Y, GST-Tag	100602
BRAF/p50, FLAG-tag	40005	CDK16/Cyclin Y, GST-tags	100604
BRK, GST-tag	40403	CDK17/Cyclin Y, GST-tags	100606
BRSK2, His-tag	40016	CDK18/Cyclin Y, GST-tags	100608
BTK(C481F), His-Tag	101040	CDK19/Cyclin C, GST-tags	100593
BTK(C481R), His-Tag	101041	CDK2 (no tag)/CyclinA2, His-GST-tags	41101
BTK(C481S), His-Tag	101039	CDK2/CyclinA2, GST-tag	40101
BTK(P190K), His-Tag	101042	CDK2/CyclinE1, GST-tag	40102
BTK(T474I), His-Tag	101045	CDK20, GST-Tag (Mouse)	100609
BTK(Y485F), His-Tag	101046	CDK3/CyclinE1, GST-tag	40103
BTK, GST-His-Tag	40405	CDK4(EE,T172A)/Cyclin D1, His-tag	40094
c-Mer, GST-tag (Human)	40254	CDK4, FLAG-Tag	100052
c-MET (del 963-1009), GST-tag	100643	CDK4/CyclinD3, GST-His-Tag	40104
c-Met, GST-tag	40255	CDK5/p25, GST-tag	40105
c-Myc, His-tag	40453	CDK5/p35, GST-tag	40095
c-RAF(Y340D, Y341D), GST-Tag	40008	CDK6, His-Tag	100031
Calmodulin, His-tag	81152	CDK6/CyclinD1, His-tag, GST-tag	40097
CAMK1, Mouse, GST-tag	40030	CDK6/CyclinD3, His-tags	40206
CAMK1 β , Mouse, GST-tag	40031	CDK7/CyclinH1/MNAT1, His-tags	40098
CAMK1 γ , GST-tag	40032	CDK8/Cyclin C, GST-tags	100433
CAMK1 γ , GST-tag	40036	CDK9/CyclinK, GST-tag	40106
CAMK1 δ , GST-tag	40037	CDK9/CyclinT1, GST-Tag	40307
CAMK2 α , GST-tag	40038	Ceramide Kinase, FLAG-tag	40617
CAMK2 β , His-tag	40041	CERK, FLAG-Tag (Mouse)	79413
CAMK2 γ , GST-tag	40042	CERK, FLAG-Tag (Rat)	79414
CAMK2 δ , GST-tag	41109	CHK1, GST-tag	40039
CAMK2 δ , GST-tag	40043	CHK2, His-tag	40040
CAMK4, GST-tag	40029	CK1 alpha, GST-Tag	79346
CAMKK1, GST-tag	40044	CK1 delta, GST-Tag	79347
CAMKK2, GST-tag	40046	CK1 epsilon, GST-Tag	79349
Casein Kinase 1 α 1	40310	CK1 gamma, GST-Tag	79348
CDC7/DBF4 Complex	100538	CK2a1, GST-tag	40045
CDK1/CyclinA2, GST-Tag	40100	cKit (D816V), His-tag	40252
CDK1/CyclinB1, GST-Tag	40454	cKit (V560G), His-tag	40253
CDK11A/CyclinD3, GST-tags	100595	cKit (V654A), His-tag	40251
CDK12 (696-1082)/CyclinK, GST-Tags,	100998	cKit, His-tag	40250
CDK12/Cyclin K, GST-Tags	101235	CLK1, GST-tag	40196
CDK13/Cyclin K, GST-Tags	101128	CLK2, GST-tag	40197

Proteins	Catalog#	Proteins	Catalog#
CLK3, GST-tag	40198	EGFR (G719D), GST-Tag	79446
Cofilin 1, GST-tag	40525	EGFR (G719S), GST-Tag	79447
Cot (MAP3K8), GST-His-Tags	40050	EGFR (L747S), GST-Tag	79450
CSF1R, Fc-Fusion, Avi-Tag (Human) HiP™	72550	EGFR (L858R), GST-Tag, His-Tag	40189
CSF1R, Fc-Fusion, Avi-Tag, Biotin-Labeled	79343	EGFR (L861Q), GST-Tag	79451
CSF1R, GST-His-Tag	40227	EGFR (P753S), DEL 747-752, GST-Tag	79439
CSF1R, untagged (FMS, CD115)	79110	EGFR (T790M C797S), DEL 746-750, GST-Tag	79434
CSK, GST-His-Th-Tag	40410	EGFR (T790M C797S), GST-Tag	79453
DAPK1, GST-tag	40051	EGFR (T790M L858R), DEL 746-750, GST-Tag	79435
DAPK2, GST-tag	40049	EGFR (T790M L978I), DEL 746-750, GST-Tag	79436
DAPK3, GST-tag	40052	EGFR (T790M), His-tag, GST-tag	40188
DCAMKL1, GST-tag	40047	EGFR (T790M, C797S, L858R), His-Tag, GST-tag	40351
DCAMKL2, GST-tag	40048	EGFR (T790M, L858R), GST-tag, His-tag	40350
DDR1, Fc Fusion (IgG1), Avi-Tag HiP™	101375	EGFR (V948R), His-Tag	101644
DDR1, Fc Fusion (IgG1), Avi-Tag, Biotin-Labeled	101378	EGFR, DEL 747-749, GST-Tag	79438
DDR1, GST-tag	40184	EGFR, DEL 752-759, GST-Tag	79440
DDR2, Fc Fusion (IgG1), Avi-Tag	101376	EGFR, His-tag, GST-tag	40187
DDR2, Fc Fusion (IgG1), Avi-Tag, Biotin Labeled	101377	EGFR, INS A763-FHEA-Y764, GST-Tag	79427
DDR2, GST-tag	40185	EGFR, INS D770-GF-N771, GST-Tag	79443
DGKa, His-Avi-Tag, Biotin-Labeled	100964	EGFR, INS D770-NPG-N771, GST-Tag	79444
DLK, GST-Tag	79345	EGFR, INS H773-AH-V774, GST-Tag	79448
DMPK, GST-tag	40054	EGFR, INS P772-NPH-H773, GST-Tag	79452
DRAK2	71225	EIF2AK2, GST-tag	40058
DRAK2, GST-tag (Mouse)	100444	EIF2AK3, GST-tag	40059
DRAK2, GST-Tag	71224	eIF4E, GST-tag	40530
DYRK1B, GST-tag	100646	EIF4EBP1, His-tag	40510
DYRK2, His-Tag	40053	EPHA1, GST-tag	40191
EEF2K, GST-tag	40057	EPHA2, His-tag	40190
EGFR (A750P), DEL 747-749, GST-Tag	79437	EPHA3, GST-tag	40192
EGFR (C775S T790M L858R), DEL 746-750, GST-Tag	79431	EPHA4, GST-tag	40193
EGFR (C775S T790M L858R), GST-Tag	79428	EPHA6, GST-tag	40194
EGFR (C797A), DEL 746-750, GST-Tag	79432	EPHB2, His-tag	40200
EGFR (C797A), GST-Tag	79454	EPHB3, GST-tag	40186
EGFR (C797S) GST-Tag	79430	EPHB4, His-tag	40201
EGFR (C797S), DEL 746-750, GST-Tag	79433	EPOR-(GSSG)6- JAK2(V617F, Y1007F, Y1008F)	100713
EGFR (D761Y), GST-Tag	79441	ERK1	40055
EGFR (D770GY), GST-Tag	79442	ERK2, GST-Tag	40299
EGFR (G719C), GST-Tag	79445	ERK3, GST-Tag	100366

Proteins	Catalog#	Proteins	Catalog#
ERK4, GST-Tag	100363	HCK, GST-tag	40440
ERK7, GST-Tag (Mouse)	100365	HER2, GST-Tag	40230
ERN1 (IRE1), GST-tag	40306	HER3 (E928G), GST-Tag	101645
FAK, GST-Tag	40420	HER3, GST-Tag	101646
FES, His-FLAG-tag	40425	HER3, His-Tag	101647
FGFR1 (V561M), GST-tag	40209	HER4, GST-tag	40232
FGFR1(FLT2), GST-tag	40210	HGK (MAP4K4), GST-tag	40109
FGFR1, Avi-His-Tag, Biotin-labeled (Dephosphorylated)	100692	HIPK1, GST-tag	40179
FGFR2, DEL (429-430), His-Tag (Dephosphorylated)	100356	HIPK3, His-tag	40110
FGFR2, GST-tag	40211	HIPK4, GST-tag	40111
FGFR3 (397-806(end)) (K650M) His-Tag (Dephosphorylated)	100909	Histone H3, Full Length, His-tag	52023
FGFR3 (397-806(end)), His-Avi-Tag, Biotin-labeled	100918	Histone H3, Full Length, His-tag	52027
FGFR3 (447-761) (K650M), His-Tag (Dephosphorylated)	100783	HPK1, GST-Tag, His-Avi-Tag (Human)	40398
FGFR3 (447-761), His-Avi-Tag, Biotin-labeled	100613	Human IRE1, His-Avi-tag	40709
FGFR3 (CD333), GST-tag	40212	Human/Mouse ERK2 (K52R), Inactive, His-tag	40056
FGFR3 (K650E), His-Tag (Dephosphorylated)	100782	ICK, GST-tag	40112
FGFR3 (L496V), His-Tag	100142	IGF1R, His-Tag	101217
FGFR3 (N540K) His-Tag (Dephosphorylated)	100907	IKK β , GST-Tag	40304
FGFR3 (N540K) His-Tag (Dephosphorylated), Biotin-Labeled	100921	Insulin receptor (INSR), GST-tag	40241
FGFR3 (V443L), His-Tag	100138	IP6K2, Biotin-labeled, His-tag, Avi-tag	40643
FGFR3 (V443M), His-Tag	100140	IP6K2, FLAG-His-tags	40642
FGFR3 (V555F), His-Tag (Dephosphorylated)	100657	IRAK1, His-Tag	40202
FGFR4, GST-tag	40213	IRAK2, GST-tag	40087
FGR, GST-tag	40422	IRAK4, GST-tag	40064
FLT1, His-tag	40223	IRR, GST-tag	40242
Flt3, His-tag	40225	ITK, GST-tag	40445
FRK, GST-tag	40424	JAK1 (JH2 Domain), His-Tag	101946
Fucokinase, FLAG-tag	71077	JAK1, GST-tag	40449
FYN, FLAG-Tag	40433	JAK2 (JH1 domain), His-Tag	40450
Galactokinase, His-tag	50275	JAK2 (JH1, JH2 domain), GST-Tag, Avi-Tag, Biotin (Dephosphorylated)	79495
GCK (MAP4K2), GST-tag	40107	JAK2 (JH1, JH2 domain), His-GST-Tags	40451
GRK2, GST-tag	40060	JAK2 (JH2 Domain) (E596A, V617F, W659A, W777A, F794H), His-Tag	100122
GRK5, GST-tag	40063	JAK2 (JH2 Domain) (V617F, W659A, W777A, F794H), His-Tag	100124
GRK6, GST-tag	40066	JAK2 (JH2 Domain) (W659A, W777A,F794H), His-Tag	100123
GRK7, GST-tag	40108	JAK2 (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79074
GSK3 α	40006	JAK2 (V617F) (JH1, JH2 Domain), GST-Tag, Avi-Tag, Biotin-Labeled (Dephosphorylated)	79115
GSK3 β , GST-tag, His-tag	40007	JAK2 (V617F) (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79075
GSK α , GST-Tag, His-tag	100814	JAK2 (V617F), FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated)	79426

Proteins	Catalog#	Proteins	Catalog#
JAK2 (V617F, W659A, W777A, F794H), His-Avi-Tag, Biotin-Labeled	79498	MBP, His-Tag	40535
JAK2 (V617F, Y1007F, Y1008F)- (GSSG)8-EPOR	100709	MEK1 (K97R), Inactive, His-tag	40075
JAK2 (W659A, W777A, F794H) (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79463	MEK1, GST-tag	40123
JAK2, FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated)	79493	MEK1, Non-activated, GST-tag	40531
JAK3 (JH2 Domain), His-Tag	101270	MEK2, GST-tag	40125
JAK3, His-tag	40452	MEKK2, GST-tag	40122
JNK1-β1(K55M), Kinase Deficient, GST-tag	40871	MEKK3, GST-tag	40124
JNK2, GST-Tag	40113	MELK, GST-tag	40708
KHS1 (GCKR), GST-tag	40115	MINK1, GST-tag	40126
LATS1, GST-Tag	79499	MKK4, His-Tag	101874
LATS2, GST-Tag	79042	MKK6, GST-tag	40089
LATS2, GST-Tag	100353	MLCK, GST-tag	40127
LCK, GST-tag	40470	MLK1, GST-tag	41102
LKB1/MO25/STRAD Complex	40069	MLK2, GST-tag	41103
Lok1 (Stk10), His-tag	40074	MLK3, GST-tag	41104
LRRK2 (D1994A), GST-Tag	40831	MLK4, GST-tag	41105
LRRK2 (G2019S), GST-Tag	40832	MNK1 (T385D), GST-tag	40078
LRRK2 (G2385R), GST-Tag	40833	MNK2, GST-tag	40128
LRRK2 (I2020T), GST-Tag	40834	Mouse AURORA A, GST-tag	40177
LRRK2 (R1441C), GST-Tag	40835	Mouse Cot (MAP3K8), His-GST-Tags	41050
LRRK2 (R1441G), GST-Tag	40836	Mouse EGFR, FLAG-Tag	40195
LRRK2 (R1441H), GST-Tag	40837	Mouse EPHB1, GST-tag	40199
LRRK2 (Y1699C), GST-Tag	40838	Mouse FER, GST-tag	40419
LRRK2 (Y1699G), GST-Tag	40839	Mouse ITK, GST-tag	40446
LRRK2, GST-Tag	40842	Mouse JNK1, GST-tag	40071
LTK, GST-Tag	101357	Mouse LC20, GST-tag	50127
LYN A, GST-tag	40471	Mouse MEK1 (EE), GST-tag	40121
LYNB, GST-tag	40472	Mouse PAK3, GST-tag	40147
MAP4K3 (GLK), GST-tag	100624	Mouse PKM2, His-Tag	50296
MAPK10 (JNK3), GST-tag	40092	Mouse Sphingosine kinase 1a, His-tag	40613
MAPK14 (p38α), His-Tag, Active	40243	Mouse Sphingosine kinase 2, His-tag	40614
MAPK14, Inactive, GST-tag	40091	MRCKα, GST-tag	40129
MAPKAPK2, His-tag	40116	MRCKβ, GST-tag	40130
MAPKAPK2, Inactive, GST-Tag	40088	MSK1, GST-Tag	40131
MAPKAPK3, GST-tag	40117	MSSK1 (SRPK3), GST-tag	40132
MAPKAPK5, GST-tag	40118	MST3, GST-tag	40133
MARK1, GST-tag	40119	MST4, GST-tag	40134
MARK3, GST-tag	40120	mTOR/Raptor/MLST8 Complex, FLAG-Tag, His-Tag (Human)	40300

Proteins	Catalog#	Proteins	Catalog#
MUSK, His-tag	40079	PDGFR α (D842Y), GST-Tag	100201
MYLK2, His-tag	40135	PDGFR β , His-tag	40263
MYLK3, GST-tag	40136	PDHK1, GST-Tag	40084
MYO3 β , GST-tag	40137	PDK1, GST-tag	40080
NDR, GST-tag	40138	PDK3, GST-Tag	100927
NEK11, GST-tag	40139	PFKFB3, His-tag	71089
NEK2	40009	PHKG1, GST-tag	40150
NEK3, GST-tag	40140	PHKG2, GST-tag	40151
NEK6, His-tag	40014	PI3 Kinase (p110 α /p55 γ), His-Tag	40645
NEK7, GST-tag	40141	PI3 kinase (p110 α /p85 α)	40620
NEK7, His-Tag	100476	PI3 kinase (p110 α /p85 α)	40621
NEK9, GST-tag	40142	PI3 kinase (p110 β /p85 α), FLAG-tag	40622
Neuropilin-1, Avi-His-Tag	100870	PI3 kinase (p110 γ /PIK3R5) complex, His-tag, GST-tag	40626
Neuropilin-1, Avi-His-Tag, Biotin-labeled, HiP™	100911	PI3 kinase (p110 δ /p85 α)	40628
NIK, GST-tag	40090	PI3 kinase (p120 γ), His-tag	40625
NUAK1, GST-Tag	101475	PI3 Kinase p110 α (E542K)/p85 α , FLAG-Tag	101913
NUAK2 (K81R), Inactive, GST-Tag	101474	PI3 Kinase p110 α (H1047L)/p85 α , FLAG-Tag	101914
NUAK2, GST-Tag	101476	PI3 kinase p110 α (N345K)/p85 α	40646
p38 α , GST-tag	40070	PI3 kinase p110 α (E545K)/p85 α	40640
p38 β , GST-tag	40143	PI3 kinase p110 α (H1047R)/p85 α , FLAG-Tag	40641
p38 γ (p38gamma), GST-tag	40144	PI3 kinase p110 α (K111N)/p85 α	40639
p38 δ (p38delta), GST-tag	40145	PI3 Kinase [p110 α (E545K)/p85 α], His-Tag	40644
p53 (Y220C), GST-Tag	101610	PIKFYVE, GST-Tag	101323
p53, GST-Tag	40511	PIM1, GST-tag	41107
p70S6K (S6K1), GST-tag	40062	PIM2, GST-tag	40153
p70S6Kb, GST-tag	40146	PIM3, Active, GST-tag	41108
p85 α , His-tag	40630	PIP5K1A, GST-tag	40305
PAK1	40072	PKA α , GST-tag	40154
PAK2	40073	PKA α , His-Tag	79044
PAK4	40076	PKA β , GST-tag	40155
PAK5	40077	PKA γ , GST-tag	40156
PAK6	40081	PKC ι/λ , GST-tag	40015
PAK7, GST-tag	40148	PKC α (PKCalpha), GST-tag	40157
PASK, GST-tag	40149	PKC β I (PKCbeta1), GST-tag	40158
PDGFR α , GST-tag	40261	PKC β II (PKCbeta2), GST-tag	40159
PDGFR α , Mouse, GST-tag	40260	PKC γ (PKCgamma), GST-tag	40160
PDGFR α (D842I), GST-Tag	100202	PKC δ (PKCdelta), GST-tag	40161
PDGFR α (D842V), GST-Tag	79633	PKC ϵ (PKCepsilon), GST-tag	40162

Proteins	Catalog#	Proteins	Catalog#
PKCζ (PKCzeta), GST-tag	40163	ROCK2, GST-tag	40086
PKCη (PKCeta), GST-tag	40164	RON, GST-tag	40292
PKCθ (PKCtheta), GST-tag	40165	ROR1, Fc-Fusion (IgG1), Avi-Tag	79481
PKCμ (PKCmu), GST-tag	40166	ROR1, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled	79482
PKCν (PKCnu), GST-tag	40167	ROR1, Fc-Fusion (IgG1)-Avi-Tag, PE-labeled	100995
PKD2, GST-tag	40168	ROR1, GST-tag	40396
PKG1α, His-tag	40082	ROR2, Fc-Fusion (IgG1), Avi-Tag HiP™	100029
PKG1β, His-tag	40083	ROR2, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled HiP™	100046
PKLR Var1 (PKR), His-tag	40500	ROR2, GST-tag	40296
PKLR Var2 (PKL), His-tag	40501	ROS1 (G2032R), GST-Tag	101640
PKM1 (PKM2/Variant 2), His-Tag	40502	ROS1 (G2101A), GST-Tag	101641
PKM2 (PKM2/Variant 1), His-Tag	50295	ROS1, GST-His-tag	40268
PKMYT1, GST-Tag	101569	RSK1, GST-tag	40172
PKN1 (PRK1), GST-Tag	79678	RSK2, GST-tag	40181
PKN2 (PRK2), GST-tag	40169	RSK3, GST-tag	40182
PKN3 (PRK3), GST-tag	101642	RSK4, GST-tag	40183
PLK1 Polo Box Domain, GST-Tag	50301	SGK1, GST-tag	40271
PLK1, His-tag	40033	SGK2, GST-tag	40272
PLK2, GST-tag	40034	SGK3, GST-tag	40273
PLK3 Polo Box Domain, MBP-tag, His-tag	50302	SIK (SNF1LK), His-tag	40274
PLK3, His-Tag	40035	SIK2, GST-tag	40264
PLK4, GST-tag	40236	SLK, GST-tag	40275
PRKG1, GST-tag	40175	SOK1, GST-tag	40276
PRKG2, GST-tag	40170	Sphingosine kinase 1, His-tag	40610
PRKX, GST-tag	40171	Sphingosine Kinase 2 (Transcript Variant 1), His-Tag	40612
PYK2, His-tag	40480	Sphingosine kinase 2, His-tag	40611
Rat ITK, GST-tag	40447	SRC, GST-tag	40483
Rat MET, GST-tag	40228	SRC, His-Tag	40484
RB, GST-tag	40595	SRPK1, GST-tag	40277
RBD-c-RAF, GST-Tag	100519	SRPK2, GST-tag	40278
Ret, GST-tag	40267	STK19, GST-Tag	100910
RIPK1, GST-Tag (Mouse)	100340	STK3(MST2), GST-tag	40013
RIPK1, GST-Th-Tag	40371	STK33, GST-tag	40093
RIPK2, GST-tag	40173	STK4(MST1), GST-tag	40017
RIPK3, GST-Tag	79710	STYXL1	30027
RIPK4, GST-Tag	79712	SYK, Catalytic, GST-Tag	40487
RIPK5, GST-Tag	79713	SYK, Full length, GST-tag	40485
ROCK1, GST-tag	40085	TAK1-TAB1, GST-tag	40279

Proteins	Catalog#	Proteins	Catalog#
TAOK1, GST-tag	40283	VPS34, FLAG-tag	40690
TAOK2, GST-tag	40284	VRK1, GST-tag	40397
TBK1, GST-Tag	40286	Wee1, FLAG-Tag	100154
TGFβR1, Fc Fusion (IgG1) Avi-Tag, Biotin Labeled	100645	Wee1, GST-Th-Tag	40412
TGFβR1, Fc fusion, Avi-Tag	100644	WNK1, GST-Tag	100971
TGFβR1, GST-Tag	101575	WNK2, GST-Tag	100972
TGFβR2, Fc Fusion, Avi-tag (Mouse)	100676	WNK3, GST-Tag	100973
TGFβR2, Fc Fusion, Avi-tag	100628	WNK4, GST-Tag (Mouse)	100974
TGFβR2, Fc Fusion, Avi-tag, Biotin-labeled (Mouse)	100677	Yes1, GST-tag	40488
TGFβR2, GST-tag	40707	ZAK, GST-tag (Variant 2)	40297
Tie2, GST-tag	40370	ZAP70, GST-tag	40490
Tie2, His-tag	40270		
TLK2, GST-tag	40287	Substrates	Catalog#
TNIK, GST-Tag	11708	5X Raf Substrate	79569
TNK1, GST-Th-Tag	80019	CERK Substrate	40619
TOPK, GST-tag	40288	CERK Substrate	40618
TPM3-TRKA Mutant, GST-Tag	79080	IRS1-tide	79519
TRKA, GST-tag	40280	PI-3 Kinase Lipid Substrate	40560
TRKB, GST-tag	40281	Protein Tyrosine Kinase Substrate (poly-Glu,Tyr 4:1)	40217
TRKC (G623E) Mutant, Active)	40204	STAT5 Peptide	79864
TRKC (G623R L686M),Mutant, Active	40215		
TRKC (G623R) Mutant, Active)	40203		
TRKC (L686M), Mutant, Active	40216		
TRKC, GST-tag	40282		
TSSK1B, GST-tag	40289		
TSSK2, GST-tag	40290		
TTBK1, GST-Tag, His-Tag	40309		
TTK, GST-tag	40291		
TXK, GST-tag	40486		
TYK2 (JH2 domain), FLAG-Tag	100523		
TYK2, GST-Tag	100400		
Tyk2, His-Tag	40285		
TYRO3, GST-tag	40293		
ULK1, FLAG-Tag	40099		
ULK2, GST-tag	40294		
ULK3, His-tag	40295		
VEGFR2 (KDR), GST-Tag	40301		
VEGFR3 (FLT4), GST-tag	40302		



FIND A TRUSTED PARTNER FOR YOUR NEXT PROJECT



Ordering Information
orders@bpsbioscience.com



Technical Support
support@bpsbioscience.com



US Sales Support
sales-team@bpsbioscience.com



International Sales Support
international@bpsbioscience.com

BPS Bioscience, Inc.
6405 Mira Mesa Blvd, Suite 100
San Diego, CA 92121
Tel: 858-202-1401

bpsbioscience.com

