

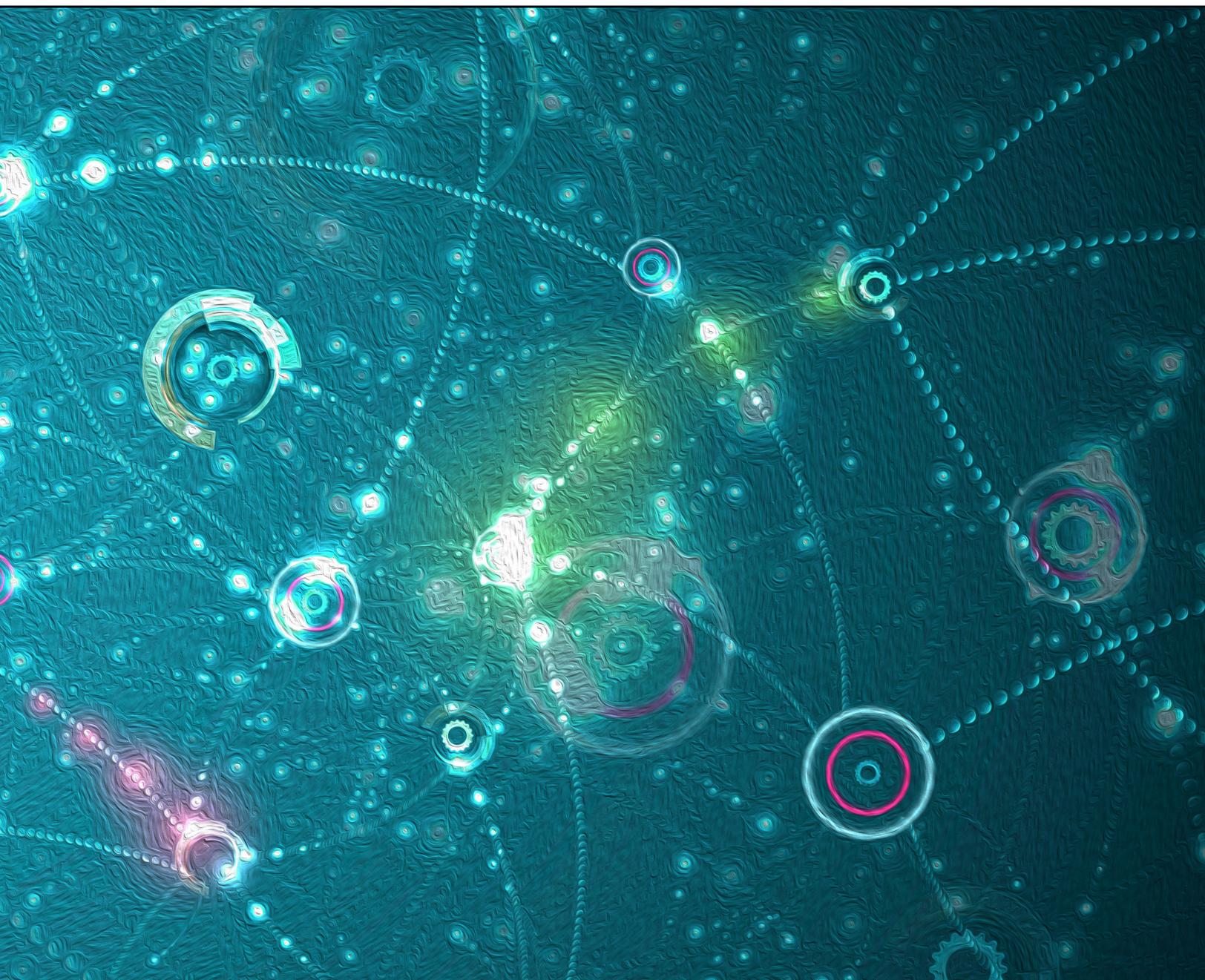


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CliniSciences Group

KINASE RESEARCH TOOLS

FOR CELL SIGNALING DISCOVERY

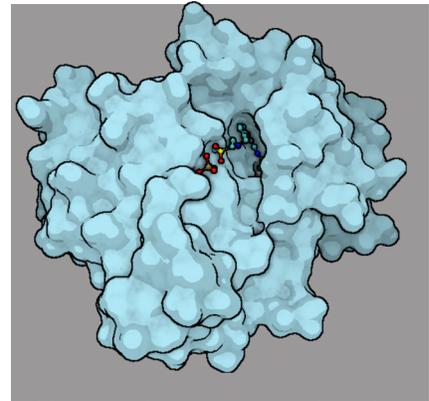
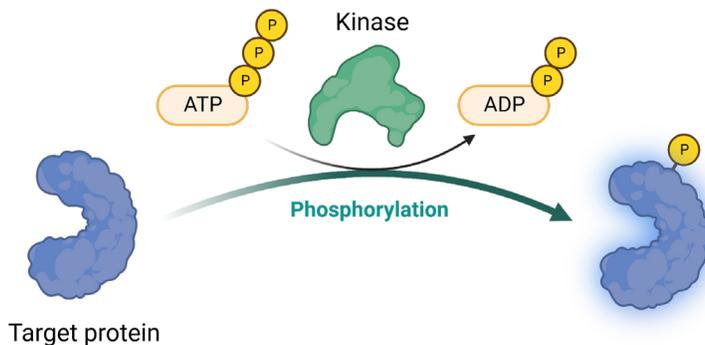
Active Proteins | Assay Kits | Substrates | Inhibitors
CRISPR/Cas9 Kinase Knock-out Lentivirus Library



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



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

Distributed by:

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

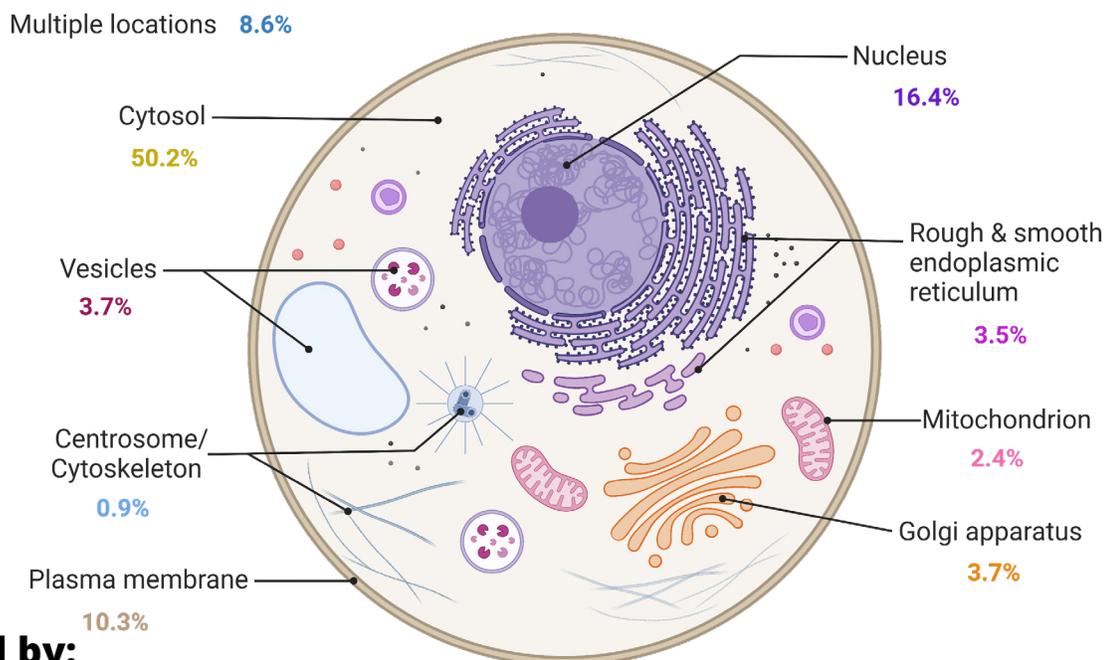
Bulk Production and Customization

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?



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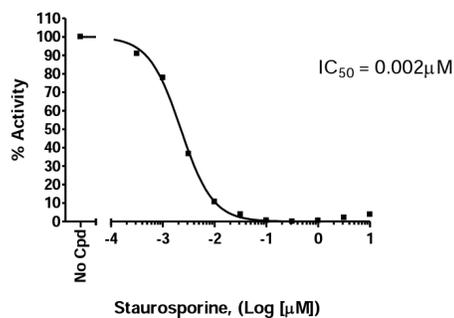
Biochemical Assay Kits

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.

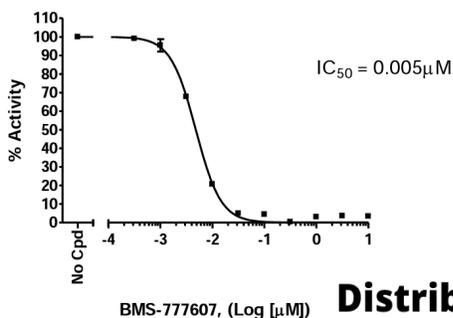
Compare assay formats:

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.

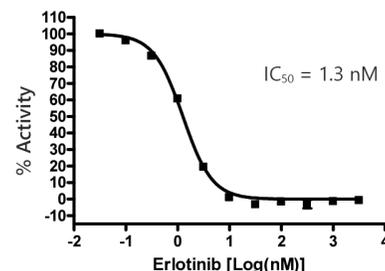
JAK2 Inhibition by Staurosporine



Tyro3 Inhibition by BMS-777607



EGFR Inhibition by Erlotinib



Distributed by:

CliniSciences Group

Biochemical Screening Services

BPS Bioscience offers rapid and dependable kinase screening services to determine IC_{50} 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 IC_{50} 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.

Distributed by:

Give us a try today.

CliniSciences Group

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.

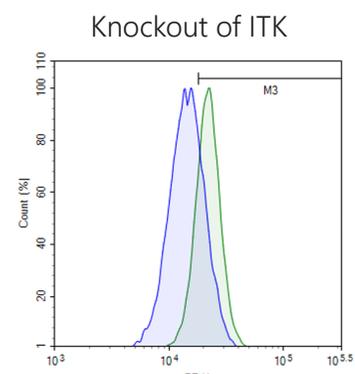
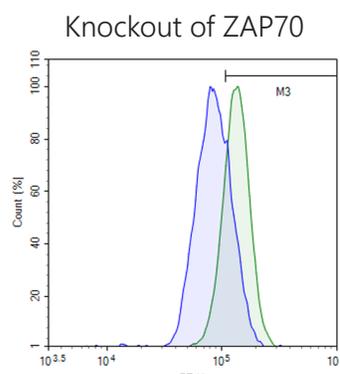
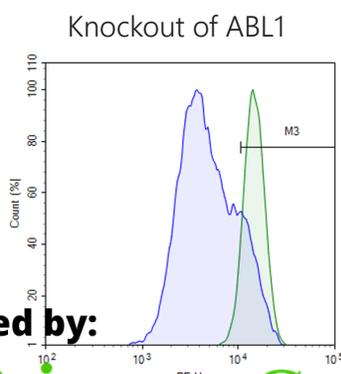
Custom Panels

- 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.

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:



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Biochemical Assay Kits	Catalog#	Biochemical Assay Kits	Catalog#
Chemi-Verse™ PI3 Kinase p110α (E545K)/p85α Kinase Assay Kit	82109	FAK Kinase Assay Kit	40722
Chemi-Verse™ PI3 Kinase P110α (H1047R)/P85α Kinase Assay Kit	82103	FGFR2 Assay Kit	79804
Chemi-Verse™ PI3 Kinase P110α(H1047L)/P85α Kinase Assay Kit	82120	FGFR3 (L496V) Assay Kit	79818
Chemi-Verse™ PIM2 Kinase Assay Kit	82557	FGFR3 (V443L) Assay Kit	79819
Chemi-Verse™ RET Kinase Assay Kit	82575	FGFR3 (V443M) Assay Kit	79817
Chemi-Verse™ ROS1 Kinase Assay Kit	82574	FGFR4 Kinase Assay Kit	78816
Chemi-Verse™ SIK1 Kinase Assay Kit	82105	FGR Kinase Assay Kit	82292
Chemi-Verse™ SIK2 Kinase Assay Kit	82106	FLT1 Kinase Assay Kit	78019
Chemi-Verse™ SRC Kinase Assay Kit	82555	FLT3 Kinase Assay Kit	79797
Chemi-Verse™ STK3 (MST2) Kinase Assay Kit	82577	GSK3α Assay Kit	79698
Chemi-Verse™ TBK1 Kinase Assay Kit	82549	GSK3β Assay Kit	79700
Chemi-Verse™ TNIK Kinase Assay Kit	82597	HER2 Kinase Assay Kit	40721
Chemi-Verse™ TNK1 Kinase Assay Kit	82159	HER4 Assay Kit	78005
Chemi-Verse™ TTBK1 Kinase Assay Kit	82162	HIPK3 Kinase Assay Kit	78382
Chemi-Verse™ TTBK2 Kinase Assay Kit	82225	HPK1 Assay Kit	79775
Chemi-Verse™ TYK2 Kinase Assay Kit	82578	IKKβ Kinase Assay Kit	78507
Chemi-Verse™ ULK1 Kinase Assay Kit	82598	IRAK1 Kinase Assay Kit	78523
Chemi-Verse™ VRK1 Kinase Assay Kit	82230	IRAK4 Kinase Assay Kit	78524
Chemi-Verse™ Wee1 Kinase Assay Kit	82599	ITK Kinase Assay Kit	78429
CHK1 Kinase Assay Kit	78418	JAK1 (Janus Kinase 1) Assay Kit	79518
CHK2 Kinase Assay Kit	78421	JAK1 (JH2 Pseudokinase Domain) Inhibitor Screening Assay Kit	78891
cKIT (D816V) Assay Kit	79889	JAK2 (Janus Kinase 2) Assay Kit	79520
cKIT (V654A) Assay Kit	79890	JAK2 JH2 Pseudokinase Domain Inhibitor Screening Assay Kit	78111
cKIT Assay Kit	79815	JAK2-JH2 Pseudokinase Domain (V617F, W659A, W777A, F794H) Inhibitor Screening Assay Kit	78209
CSF1R Kinase Assay Kit	78829	JAK2-JH2 Pseudokinase Domain (W659A, W777A, F794H) Inhibitor Screening Assay Kit	78208
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	NRG1β: HER3 (ERBB3) Chemiluminescent Assay Kit	82548
EGFR(T790M/L858R) Kinase Assay Kit	40322	NRG1β: HER4 (ERBB4) Chemiluminescent Assay Kit	82614
EIF2AK2 Kinase Assay Kit	78433	p70S6K (S6K1) Kinase Assay Kit	78806
EPHA2 Assay Kit	78002	PDGFRα (D842I) Assay Kit	79761
EPHA4 Kinase Assay Kit	78592	PDGFRα (D842V) Assay Kit	79828
EPHB4 Kinase Assay Kit	78009	PDGFRα (D842Y) Assay Kit	79760

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Inhibitors/Activators	Catalog#	Proteins	Catalog#
PD 173074	27056	AKT1, Inactive, His-tag	40000
PI-103	27502-1	AKT2, Active, His-tag	40011
PI-103	27502-2	AKT2, Inactive, His-tag	40001
PP242	27063	AKT3, His-tag	40012
Rapamycin	27062	ALK (C1156Y), GST-Tag	101915
RepSox	82602	ALK (F1174L), GST-Tag	101918
Roscovitine	27040	ALK (F1174S), GST-Tag	101919
Ruxolitinib Phosphate	27059	ALK (G1202R), GST-Tag	101920
SGL-1776 free base	27651-1	ALK (G1269A), GST-Tag	101921
SGL-1776 free base	27651-2	ALK (G1269S), GST-Tag	101922
SGL-1776 free base	27651-3	ALK (I1171N, D1203N), GST-Tag	101923
SMI-4a	27774-1	ALK (L1152R), GST-Tag	101924
SMI-4a	27774-2	ALK (L1196M), GST-Tag	101926
Sorafenib Tosylate	27014	ALK (L1196M, G1202R), GST-Tag	101925
Staurosporine	27002	ALK (R1275Q), GST-Tag	101927
Temsirolimus	27024	ALK (S1206R), GST-Tag	101928
Tofacitinib	27037	ALK (T1151 L1152insT), GST-Tag	101930
U0126	27012	ALK (T1151M), GST-Tag	101929
Wortmannin	27031	ALK , GST-tag	40214
		ALK1 (ACVRL1), GST-tag	40018
		ALK2 (ACVR1) (G328E), GST-Tag	101931
		ALK2 (ACVR1) (G328V), GST-Tag	101932
		ALK2 (ACVR1) (G328W), GST-Tag	101933
		ALK2 (ACVR1) (G356D), GST-Tag	101934
		ALK2 (ACVR1) (PF197_198L), GST-Tag	101935
		ALK2 (ACVR1) (Q207D), GST-Tag	101936
		ALK2 (ACVR1) (Q207E), GST-Tag	101937
		ALK2 (ACVR1) (R202I), GST-Tag	101938
		ALK2 (ACVR1) (R206H), GST-Tag (Mouse)	101940
		ALK2 (ACVR1) (R206H), GST-Tag	100714
		ALK2 (ACVR1) (R258G), GST-Tag	101941
		ALK2 (ACVR1), FLAG-Tag, Avi-Tag, Biotin-Labeled	100176
		ALK2 (ACVR1), GST-tag	40019
		ALK3 (BMPRI1A) (Q233D), GST-Tag	101942
		ALK3 (BMPRI1A) (R486Q), GST-Tag	101943
		ALK4 (ACV1B), GST-tag	40020
		AMPK (A1/B1/G1), His-tags	40025
		AMPK (A1/B1/G2), His-tag	40701

Lentiviruses	Catalog#
CRISPR/Cas9 Kinase Knockout Lentivirus Library (Array Format)	78487
Kinase (Human) CRISPR/Cas9 Lentivirus (Integrating)	78488

Proteins	Catalog#
14-3-3 alpha/beta Protein, His-tag (Human)	79023
14-3-3 alpha/beta Protein, His-tag (Mouse)	79024
14-3-3 epsilon Protein, His-tag (Human)	79025
14-3-3 epsilon Protein, His-tag (Mouse)	79026
14-3-3 sigma Protein, His-tag (Human)	79037
14-3-3 theta Protein, His-tag (Human)	79038
14-3-3 zeta Protein, His-tag (Human)	79039
14-3-3 zeta Protein, His-tag (Mouse)	79040
Abl Kinase Mutant (T315I), His-tag	40415
Abl Kinase, His-tag	40411
ABL2, His-tag	40417
ACK1, GST-tag	40400
AKT1, Active	40003

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Proteins	Catalog#	Proteins	Catalog#
AMPK (A1/B1/G2), His-tags	40021	c-Mer, GST-tag (Human)	40254
AMPK (A1/B1/G3), His-tag	40702	c-MET (del 963-1009), GST-tag	100643
AMPK (A1/B1/G3), His-tags	40022	c-Met, GST-tag	40255
AMPK (A1/B2/G1), His-tag	40703	c-Myc, His-tag	40453
AMPK (A1/B2/G1), His-tags	40023	c-RAF(Y340D, Y341D), GST-Tag	40008
AMPK (A2/ B1/G1), His-tag	40704	c-RAF, GST-Tag	100519
AMPK (A2/B1/G1), His-tags	40024	Calmodulin, His-tag	81152
AMPK (A2/B2/G1), His-tag	40705	CAMK1, Mouse, GST-tag	40030
AMPK (A2/B2/G1), His-tags	40026	CAMK1 β , Mouse, GST-tag	40031
AMPK (A2/B2/G2), His-tag	40706	CAMK1 γ , GST-tag	40032
AMPK (A2/B2/G2), His-tags	40027	CAMK1 γ , GST-tag	40036
aRAF, GST-Tag, His-Tag	40010	CAMK1 δ , GST-tag	40037
Ask1, GST-tag	40028	CAMK2 α , GST-tag	40038
ATF2, GST-Tag	40520	CAMK2 β , His-tag	40041
ATM, GST-tag	101486	CAMK2 γ , GST-tag	40042
ATR, GST-Tag	101485	CAMK2 δ , GST-tag	41109
Aurora A Protein Kinase, His-Tag (HEK293-derived)	100112	CAMK2 δ , GST-tag	40043
Aurora A Protein Kinase, His-Tag (Sf9-derived)	40004	CAMK4, GST-tag	40029
AURORA C, GST-tag	40178	CAMKK1, GST-tag	40044
Aurora Kinase B, GST-Tag, His-Tag	40002	CAMKK2, GST-tag	40046
AXL, FLAG-Tag	100174	Casein Kinase 1 α 1	40310
Axl, GST-Tag	40180	CDC7/DBF4 Complex	100538
BCKDK, GST-Tag	101115	CDK1/Cyclin A1, GST-Tag	102145
BLK, GST-tag	40401	CDK1/Cyclin E1, GST-Tag	102146
BMX, GST-tag	40402	CDK1/CyclinA2, GST-Tag	40100
BRAF (V600E), GST-His-Tag	40533	CDK1/CyclinB1, GST-Tag	40454
BRAF, GST-tag	40065	CDK10/Cyclin M, GST-Tag	102152
BRAF, His-Tag (High Expression)	41237	CDK11A/CyclinD3, GST-tags	100595
BRAF/p50, FLAG-tag	40005	CDK12 (696-1082)/CyclinK, GST-Tags,	100998
BRK, GST-tag	40403	CDK12/Cyclin K, GST-Tags	101235
BRSK2, His-tag	40016	CDK13/Cyclin K, GST-Tags	101128
BTK(C481F), His-Tag	101040	CDK14/Cyclin Y, GST-Tag	100602
BTK(C481R), His-Tag	101041	CDK16/Cyclin Y, GST-tags	100604
BTK(C481S), His-Tag	101039	CDK17/Cyclin Y, GST-tags	100606
BTK(P190K), His-Tag	101042	CDK18/Cyclin Y, GST-tags	100608
BTK(T474I), His-Tag	101045	CDK19/Cyclin C, GST-tags	100593
BTK(Y485F), His-Tag	101046	CDK2 (no tag)/CyclinA2, His-GST-tags	41101
BTK, GST-His-Tag	40405	CDK2/Cyclin A1, GST-Tag	102147

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Proteins	Catalog#	Proteins	Catalog#
CDK2/Cyclin E2, GST-Tag	102148	Cofilin 1, GST-tag	40525
CDK2/Cyclin O, GST-Tag	102149	Cot (MAP3K8), GST-His-Tags	40050
CDK2/CyclinA2, GST-tag	40101	CSF1R, Fc-Fusion, Avi-Tag (Human) HiP™	72550
CDK2/CyclinE1, GST-Tag	40102	CSF1R, Fc-Fusion, Avi-Tag, Biotin-Labeled	79343
CDK20, GST-Tag (Mouse)	100609	CSF1R, GST-His-Tag	40227
CDK3/Cyclin E2, GST-Tag	102150	CSF1R, untagged (FMS, CD115)	79110
CDK3/CyclinE1, GST-tag	40103	CSK, GST-His-Th-Tag	40410
CDK4(EE,T172A)/Cyclin D1, His-tag	40094	DAPK1, GST-tag	40051
CDK4, FLAG-Tag	100052	DAPK2, GST-tag	40049
CDK4/CyclinD3, GST-His-Tag	40104	DAPK3, GST-tag	40052
CDK5/p25, GST-tag	40105	DCAMKL1, GST-tag	40047
CDK5/p35, GST-tag	40095	DCAMKL2, GST-tag	40048
CDK6, His-Tag	100031	DDR1, Fc Fusion (IgG1), Avi-Tag HiP™	101375
CDK6/Cyclin D2, GST-Tag	102151	DDR1, Fc Fusion (IgG1), Avi-Tag, Biotin-Labeled	101378
CDK6/CyclinD1, His-tag, GST-tag	40097	DDR1, GST-tag	40184
CDK6/CyclinD3, His-tags	40206	DDR2, Fc Fusion (IgG1), Avi-Tag	101376
CDK7/CyclinH1/MNAT1, His-tags	40098	DDR2, Fc Fusion (IgG1), Avi-Tag, Biotin Labeled	101377
CDK8/Cyclin C, GST-tags	100433	DDR2, GST-tag	40185
CDK9/CyclinK, GST-Tag	102119	DGKa, His-Avi-Tag, Biotin-Labeled	100964
CDK9/CyclinT1, GST-Tag	40307	DLK, GST-Tag	79345
Ceramide Kinase, FLAG-Tag	40617	DMPK, GST-tag	40054
CERK (K298G, K303G), FLAG-Tag	102044	DRAK2	71225
CERK, FLAG-Tag (Mouse)	79413	DRAK2, GST-tag (Mouse)	100444
CERK, FLAG-Tag (Rat)	79414	DRAK2, GST-Tag	71224
CHK1, GST-tag	40039	DYRK1B, GST-tag	100646
CHK2, His-tag	40040	DYRK2, His-Tag	40053
CK1 alpha, GST-Tag	79346	EEF2K, GST-tag	40057
CK1 delta, GST-Tag	79347	EGFR (A750P), DEL 747-749, GST-Tag	79437
CK1 epsilon, GST-Tag	79349	EGFR (C775S T790M L858R), DEL 746-750, GST-Tag	79431
CK1 gamma, GST-Tag	79348	EGFR (C775S T790M L858R), GST-Tag	79428
CK2a1, GST-tag	40045	EGFR (C797A), DEL 746-750, GST-Tag	79432
cKit (D816V), His-tag	40252	EGFR (C797A), GST-Tag	79454
cKit (V560G), His-tag	40253	EGFR (C797S) GST-Tag	79430
cKit (V654A), His-tag	40251	EGFR (C797S), DEL 746-750, GST-Tag	79433
cKit, His-tag	40250	EGFR (D761Y), GST-Tag	79441
CLK1, GST-tag	40196	EGFR (D770GY), GST-Tag	79442
CLK2, GST-tag	40197	EGFR (del746-750, T790M, C797S), GST-Tag, His-Tag	100187
CLK3, GST-tag	40198	EGFR (G719C), GST-Tag	79445

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Proteins	Catalog#	Proteins	Catalog#
EGFR (G719D), GST-Tag	79446	ERN1 (IRE1), GST-tag	40306
EGFR (G719S), GST-Tag	79447	FAK, GST-Tag	40420
EGFR (L747S), GST-Tag	79450	FES, His-FLAG-tag	40425
EGFR (L858R), GST-Tag, His-Tag	40189	FGFR1 (V561M), GST-tag	40209
EGFR (L861Q), GST-Tag	79451	FGFR1(FLT2), GST-tag	40210
EGFR (P753S), DEL 747-752, GST-Tag	79439	FGFR1, Avi-His-Tag, Biotin-labeled (Dephosphorylated)	100692
EGFR (T790M C797S), DEL 746-750, GST-Tag	79434	FGFR1, Avi-Tag, His-Tag	101834
EGFR (T790M C797S), GST-Tag	79453	FGFR1a (IIIc), Fc Fusion, Avi-Tag	101836
EGFR (T790M L858R), DEL 746-750, GST-Tag	79435	FGFR2, DEL (429-430), His-Tag (Dephosphorylated)	100356
EGFR (T790M L978I), DEL 746-750, GST-Tag	79436	FGFR2, GST-tag	40211
EGFR (T790M), His-tag, GST-tag	40188	FGFR2C, Avi-His-Tag	101830
EGFR (T790M, C797S, L858R), His-Tag, GST-tag	40351	FGFR2C, Fc Fusion, Avi-Tag	101877
EGFR (T790M, L858R), GST-tag, His-tag	40350	FGFR3 (397-806(end)) (K650M) His-Tag (Dephosphorylated)	100909
EGFR (V948R), His-Tag	101644	FGFR3 (397-806(end)), His-Avi-Tag, Biotin-labeled	100918
EGFR, DEL 747-749, GST-Tag	79438	FGFR3 (447-761) (K650M), His-Tag (Dephosphorylated)	100783
EGFR, DEL 752-759, GST-Tag	79440	FGFR3 (447-761), His-Avi-Tag, Biotin-labeled	100613
EGFR, His-tag, GST-tag	40187	FGFR3 (CD333), GST-tag	40212
EGFR, INS A763-FHEA-Y764, GST-Tag	79427	FGFR3 (K650E), His-Tag (Dephosphorylated)	100782
EGFR, INS D770-GF-N771, GST-Tag	79443	FGFR3 (L496V), His-Tag	100142
EGFR, INS D770-NPG-N771, GST-Tag	79444	FGFR3 (N540K) His-Tag (Dephosphorylated)	100907
EGFR, INS H773-AH-V774, GST-Tag	79448	FGFR3 (N540K) His-Tag (Dephosphorylated), Biotin-Labeled	100921
EGFR, INS P772-NPH-H773, GST-Tag	79452	FGFR3 (V443L), His-Tag	100138
EIF2AK2, GST-tag	40058	FGFR3 (V443M), His-Tag	100140
EIF2AK3, GST-tag	40059	FGFR3 (V555F), His-Tag (Dephosphorylated)	100657
EPHA1, GST-tag	40191	FGFR4, GST-tag	40213
EPHA2, His-tag	40190	FGR, GST-tag	40422
EPHA3, GST-tag	40192	FLT1, His-tag	40223
EPHA4, GST-tag	40193	Flt3, His-tag	40225
EPHA6, GST-tag	40194	FRK, GST-tag	40424
EPHB2, His-tag	40200	Fucokinase, FLAG-tag	71077
EPHB3, GST-tag	40186	FYN, FLAG-Tag	40433
EPHB4, His-tag	40201	Galactokinase, His-tag	50275
EPOR-(GSSG)6- JAK2(V617F, Y1007F, Y1008F)	100713	GCK (MAP4K2), GST-tag	40107
ERK1	40055	GRK2, GST-tag	40060
ERK2, GST-Tag	40299	GRK5, GST-tag	40063
ERK3, GST-Tag	100366	GRK6, GST-tag	40066
ERK4, GST-Tag	100363	GRK7, GST-tag	40108
ERK7, GST-Tag (Mouse)	100365	GSK3 α	40006

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GSK3β, GST-tag, His-tag	40007
GSKα, GST-Tag, His-tag	100814
HCK, GST-tag	40440
HER2, Fc Fusion, Avi-Tag	102196
HER2, GST-Tag	40230
HER3 (E928G), GST-Tag	101645
HER3, GST-Tag	101646
HER3, His-Tag	101647
HER4, GST-tag	40232
HGK (MAP4K4), GST-tag	40109
HIPK1, GST-tag	40179
HIPK3, His-tag	40110
HIPK4, GST-tag	40111
Histone H3, Full Length, His-tag	52023
Histone H3, Full Length, His-tag	52027
HPK1, GST-Tag, His-Avi-Tag (Human)	40398
Human IRE1, His-Avi-tag	40709
Human/Mouse ERK2 (K52R), Inactive, His-tag	40056
ICK, GST-tag	40112
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IKKβ, GST-Tag	40304
Insulin receptor (INSR), GST-tag	40241
IP6K2, Biotin-labeled, His-tag, Avi-tag	40643
IP6K2, FLAG-His-tags	40642
IRAK1, His-Tag	40202
IRAK2, GST-tag	40087
IRAK4, GST-tag	40064
IRR, GST-tag	40242
ITK, GST-tag	40445
JAK1 (JH2 Domain), His-Tag	101946
JAK1, GST-tag	40449
JAK2 (JH1 domain), His-Tag	40450
JAK2 (JH1, JH2 domain), GST-Tag, Avi-Tag, Biotin (Dephosphorylated)	79495
JAK2 (JH1, JH2 domain), His-GST-Tags	40451
JAK2 (JH2 Domain) (E596A, V617F, W659A, W777A, F794H), His-Tag	100122
JAK2 (JH2 Domain) (V617F, W659A, W777A, F794H), His-Tag	100124
JAK2 (JH2 Domain) (W659A, W777A,F794H), His-Tag	100123
JAK2 (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79074

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JAK2 (V617F) (JH1, JH2 Domain), GST-Tag, Avi-Tag, Biotin-Labeled (Dephosphorylated)	79115
JAK2 (V617F) (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79075
JAK2 (V617F), FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated)	79426
JAK2 (V617F, W659A, W777A, F794H), His-Avi-Tag, Biotin-Labeled	79498
JAK2 (V617F, Y1007F, Y1008F)- (GSSG)8-EPOR	100709
JAK2 (W659A, W777A, F794H) (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79463
JAK2, FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated)	79493
JAK3 (JH2 Domain), His-Tag	101270
JAK3, Avi-Tag, His-Tag, Biotin-Labeled	102158
JAK3, His-tag	40452
JNK1-β1(K55M), Kinase Deficient, GST-tag	40871
JNK2, GST-Tag	40113
KHS1 (GCKR), GST-tag	40115
LATS1, GST-Tag	79499
LATS2, GST-Tag	79042
LATS2, GST-Tag	100353
LCK, GST-tag	40470
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Lok1 (Stk10), His-tag	40074
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LRRK2 (G2019S), GST-Tag	40832
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LRRK2 (I2020T), GST-Tag	40834
LRRK2 (R1441C), GST-Tag	40835
LRRK2 (R1441G), GST-Tag	40836
LRRK2 (R1441H), GST-Tag	40837
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MAP4K3 (GLK), GST-tag	100624
MAPK10 (JNK3), GST-tag	40092
MAPK14 (p38α), His-Tag, Active	40243
MAPK14, Inactive, GST-tag	40091
MAPKAPK2, His-tag	40116
MAPKAPK2, Inactive, GST-Tag	40088

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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
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MEK2, GST-tag	40125	NDR, GST-tag	40138
MEKK2, GST-tag	40122	NEK11, GST-tag	40139
MEKK3, GST-tag	40124	NEK2	40009
MELK, GST-tag	40708	NEK3, GST-tag	40140
MINK1, GST-tag	40126	NEK6, His-tag	40014
MKK4, His-Tag	101874	NEK7, GST-tag	40141
MKK6, GST-tag	40089	NEK7, His-Tag	100476
MLCK, GST-tag	40127	NEK9, GST-tag	40142
MLK1, GST-tag	41102	Neuropilin-1, Avi-His-Tag	100870
MLK2, GST-tag	41103	Neuropilin-1, Avi-His-Tag, Biotin-labeled, HiP™	100911
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MLK4, GST-tag	41105	NUAK1, GST-Tag	101475
MNK1 (T385D), GST-Tag	40078	NUAK2 (K81R), Inactive, GST-Tag	101474
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Mouse EPHB1, GST-tag	40199	p38 δ (p38delta), GST-tag	40145
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Mouse ITK, GST-tag	40446	p53, GST-Tag	40511
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Mouse Sphingosine kinase 2, His-tag	40614	PAK5	40077
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Proteins	Catalog#	Proteins	Catalog#
PDGFR α , GST-tag	40261	PKC β II (PKC β 2), GST-tag	40159
PDGFR α , Mouse, GST-tag	40260	PKC γ (PKC γ), GST-tag	40160
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PDGFR α (D842Y), GST-Tag	100201	PKC ζ (PKC ζ), GST-tag	40163
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PI3 Kinase (p110 α /p55 γ), His-Tag	40645	PKLR Var1 (PKR), His-tag	40500
PI3 kinase (p110 α /p85 α)	40620	PKLR Var2 (PKL), His-tag	40501
PI3 kinase (p110 α /p85 α)	40621	PKM1 (PKM2/Variant 2), His-Tag	40502
PI3 kinase (p110 β /p85 α), FLAG-Tag	40622	PKM2 (PKM2/Variant 1), His-Tag	50295
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PI3 kinase (p110 δ /p85 α)	40628	PKN1 (PRK1), GST-Tag	79678
PI3 kinase (p120 γ), His-tag	40625	PKN2 (PRK2), GST-tag	40169
PI3 Kinase p110 α (E542K)/p85 α , FLAG-Tag	101913	PKN3 (PRK3), GST-tag	101642
PI3 Kinase p110 α (H1047L)/p85 α , FLAG-Tag	101914	PLK1 Polo Box Domain, GST-Tag	50301
PI3 kinase p110 α (N345K)/p85 α	40646	PLK1, His-tag	40033
PI3 kinase p110 α (E545K)/p85 α	40640	PLK2, GST-tag	40034
PI3 kinase p110 α (H1047R)/p85 α , FLAG-Tag	40641	PLK3 Polo Box Domain, MBP-tag, His-tag	50302
PI3 kinase p110 α (K111N)/p85 α	40639	PLK3, His-Tag	40035
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PIM1, GST-tag	41107	PRKG2, GST-tag	40170
PIM2, GST-tag	40153	PRKX, GST-tag	40171
PIM3, Active, GST-tag (Mouse)	41108	PYK2, His-tag	40480
PIP5K1A, GST-tag	40305	Rat ITK, GST-tag	40447
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PKA α , His-Tag	79044	Ret, GST-tag	40267
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PKC β I (PKC β 1), GST-tag	40158	RIPK4, GST-Tag	79712

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RIPK5, GST-Tag	79713	SYK, Full length, GST-tag	40485
ROCK1, GST-tag	40085	TAK1-TAB1, GST-tag	40279
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RON, GST-tag	40292	TAOK2, GST-tag	40284
ROR1, Fc-Fusion (IgG1), Avi-Tag	79481	TBK1, GST-Tag	40286
ROR1, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled	79482	TGFβR1, Fc Fusion (IgG1) Avi-Tag, Biotin Labeled	100645
ROR1, Fc-Fusion (IgG1)-Avi-Tag, PE-labeled	100995	TGFβR1, Fc fusion, Avi-Tag	100644
ROR1, GST-tag	40396	TGFβR1, GST-Tag	101575
ROR2, Fc-Fusion (IgG1), Avi-Tag HiP™	100029	TGFβR2, Fc Fusion, Avi-tag (Mouse)	100676
ROR2, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled HiP™	100046	TGFβR2, Fc Fusion, Avi-tag	100628
ROR2, GST-tag	40296	TGFβR2, Fc Fusion, Avi-tag, Biotin-labeled (Mouse)	100677
ROS1 (G2032R), GST-Tag	101640	TGFβR2, GST-tag	40707
ROS1 (G2101A), GST-Tag	101641	Tie2, GST-tag	40370
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RSK4, GST-tag	40183	TOPK, GST-tag	40288
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SGK2, GST-tag	40272	TRKA, GST-tag	40280
SGK3, GST-tag	40273	TRKB, GST-tag	40281
SIK (SNF1LK), His-tag	40274	TRKC (G623E) Mutant, Active)	40204
SIK2, GST-tag	40264	TRKC (G623R L686M),Mutant, Active	40215
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SOK1, GST-tag	40276	TRKC (L686M), Mutant, Active	40216
Sphingosine kinase 1, His-tag	40610	TRKC, GST-tag	40282
Sphingosine Kinase 2 (Transcript Variant 1), His-Tag	40612	TSSK1B, GST-tag	40289
Sphingosine kinase 2, His-tag	40611	TSSK2, GST-tag	40290
SRC, GST-tag	40483	TTBK1, GST-Tag, His-Tag	40309
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SRPK2, GST-tag	40278	TYK2 (JH2 domain), FLAG-Tag	100523
STK19, GST-Tag	100910	TYK2, GST-Tag	100400
STK3(MST2), GST-tag	40013	Tyk2, His-Tag	40285
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STYXL1	30027	ULK2, GST-tag	40294
SYK, Catalytic, GST-Tag	40487	ULK3, His-tag	40295

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VEGFR2 (KDR), Avi-Tag, His-Tag, Biotin-Labeled	102133
VEGFR2 (KDR), GST-Tag	40301
VEGFR3 (FLT4), GST-tag	40302
VEGFR3, Avi-Tag, His-Tag, Biotin-Labeled	102123
VEGFR3, Fc Fusion, Avi-Tag,	102101
VPS34, FLAG-tag	40690
VRK1, GST-tag	40397
Wee1, FLAG-Tag	100154
Wee1, GST-Th-Tag	40412
WNK1, GST-Tag	100971
WNK2, GST-Tag	100972
WNK3, GST-Tag	100973
WNK4, GST-Tag (Mouse)	100974
Yes1, GST-tag	40488
ZAK, GST-tag (Variant 2)	40297
ZAP70, GST-tag	40490

Substrates	Catalog#
5X Raf Substrate	79569
CERK Substrate	40619
CERK Substrate	40618
IRS1-tide	79519
PI-3 Kinase Lipid Substrate	40560
Protein Tyrosine Kinase Substrate (poly-Glu,Tyr 4:1)	40217
STAT5 Peptide	79864

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