



KINASE RESEARCH TOOLS

FOR CELL SIGNALING DISCOVERY

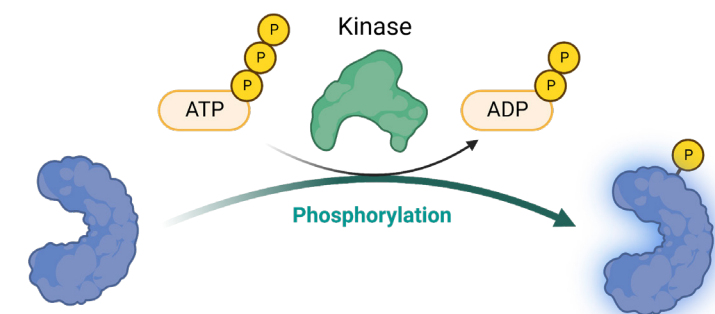
Active Proteins | Assay Kits | Substrates | Inhibitors
CRISPR/Cas9 Kinase Knock-out Lentivirus Library



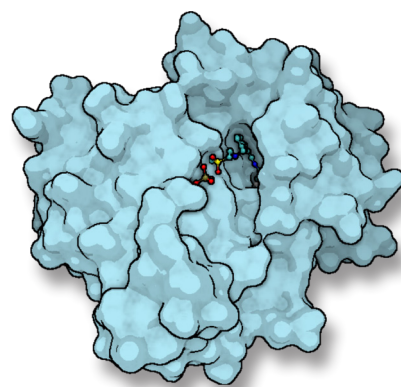
A Master Controller of Cell Functions

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

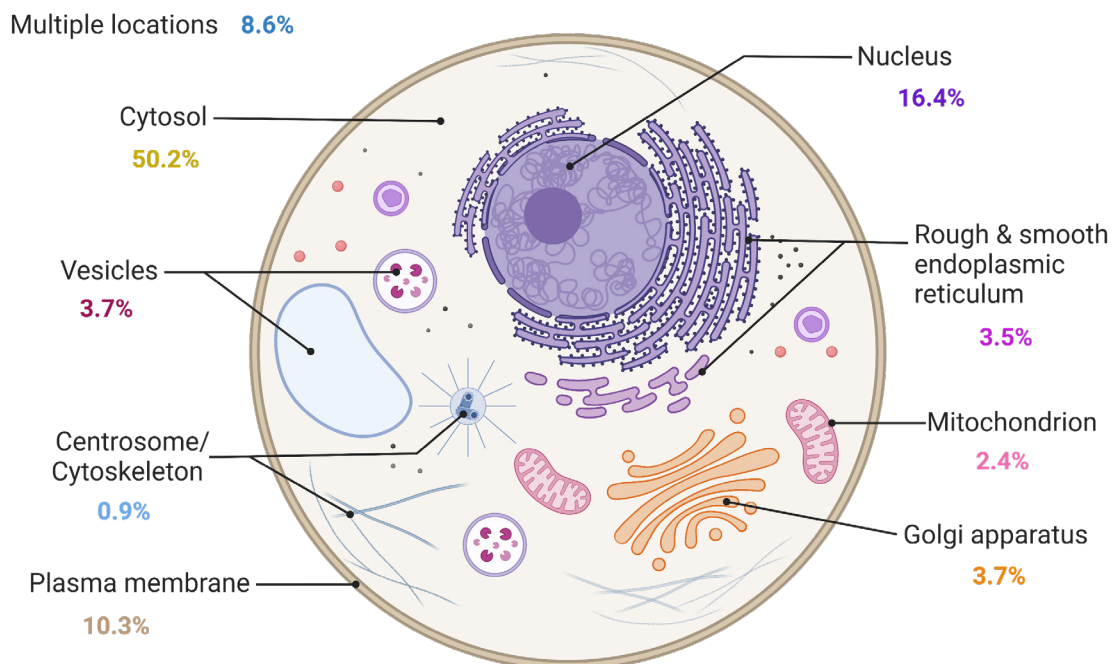
Bulk Production and Customization

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.

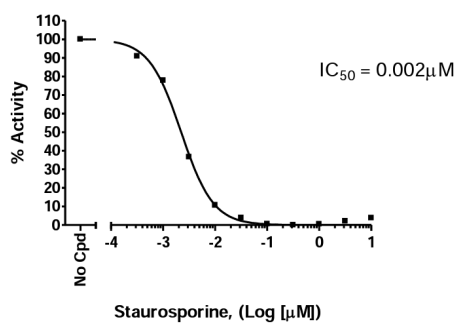
Biochemical Assay Kits

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.

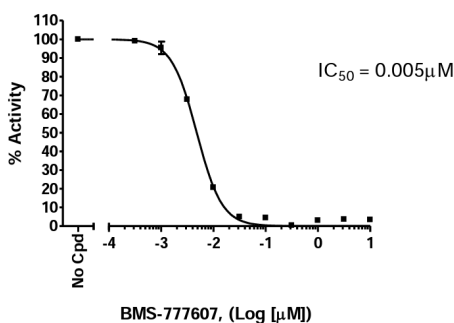
Compare assay formats:

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.

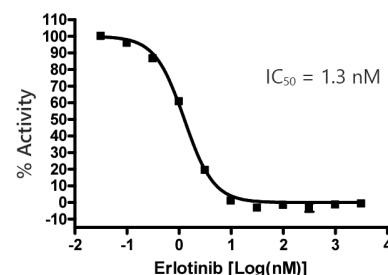
JAK2 Inhibition by Staurosporine



Tyro3 Inhibition by BMS-777607



EGFR Inhibition by Erlotinib



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.

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.

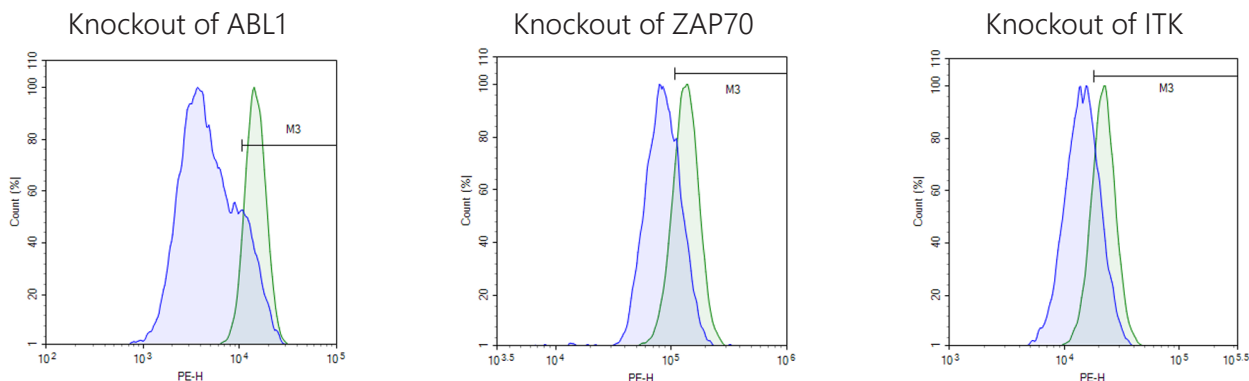
Custom Panels

- 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™ CDK2/CyclinA2 Kinase Assay Kit	82247
		Chemi-Verse™ CDK2/CyclinE1 Kinase Assay Kit	82228
		Chemi-Verse™ CDK3/CyclinE1 Kinase Assay Kit	78884
		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™ EGFR Kinase Assay Kit	82504
		Chemi-Verse™ ERK2 Kinase Assay Kit	78899
		Chemi-Verse™ FYN Kinase Assay Kit	82554
		Chemi-Verse™ GSK3α Kinase Assay Kit	82566
		Chemi-Verse™ GSK3β Kinase Assay Kit	82567
		Chemi-Verse™ HCK Kinase Assay Kit	82572
		Chemi-Verse™ HER2 Kinase Assay Kit	82552
		Chemi-Verse™ HER4 Kinase Assay Kit	82553
		Chemi-Verse™ HPK1 (MAP4K1) Kinase Assay Kit	82576
		Chemi-Verse™ IKKβ Kinase Assay Kit	82596
		Chemi-Verse™ JAK1 Kinase Assay Kit	82542
		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™ MINK1 Kinase Assay Kit	82580
		Chemi-Verse™ MLK4 Kinase Assay Kit	82563
		Chemi-Verse™ NUAK1 Kinase Assay Kit	82231
		Chemi-Verse™ NUAK2 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
Biochemical Assay Kits	Catalog#		
ABL (T315I) Assay Kit	79576		
AKT1 Assay Kit	78038		
ALK1 (ACVRL1) Kinase Assay Kit	79549		
ALK2 (ACVR1) Kinase Assay Kit	79605		
AXL Kinase Assay Kit	79711		
BRAF (V600E) Kinase Assay Kit	48688		
BRAF (WT) Kinase Assay Kit	78316		
BRK Kinase Assay Kit	78841		
BTK (C481S) Kinase Assay Kit	78801		
BTK Assay Kit	79568		
c-Mer Kinase Assay Kit	79660		
c-Met Kinase Assay Kit	79559		
c-Raf Kinase Assay Kit	79570		
CDK1 Assay Kit	79597		
CDK12/Cyclin K Kinase Assay Kit	78298		
CDK2 Assay Kit	79599		
CDK4 Assay Kit	79674		
CDK5 Assay Kit	79600		
CDK6/CyclinD3 Kinase Assay Kit	78395		
CDK7 Assay Kit	79603		
CDK9/CyclinT Kinase Assay Kit	79628		
Chemi-Verse BTK Kinase Assay Kit	82298		
Chemi-Verse™ ABL2 Kinase Assay Kit	82220		
Chemi-Verse™ AKT1 Kinase Assay Kit	82218		
Chemi-Verse™ AMPK (A1/B1/G1) Kinase Assay Kit	82101		
Chemi-Verse™ Aurora Kinase A Assay Kit	82095		
Chemi-Verse™ Aurora Kinase B Assay Kit	82094		
Chemi-Verse™ BLK Kinase Assay Kit	82229		
Chemi-Verse™ c-MET Kinase Assay Kit	82565		
Chemi-Verse™ CDC7 Kinase Assay Kit	82518		
Chemi-Verse™ CDK12/CyclinK Kinase Assay Kit	82295		
Chemi-Verse™ CDK14/Cyclin Y Kinase Assay Kit	78889		
Chemi-Verse™ CDK16/Cyclin Y Kinase Assay Kit	78887		
Chemi-Verse™ CDK17/Cyclin Y Kinase Assay Kit	78885		
Chemi-Verse™ CDK18/Cyclin Y Kinase Assay Kit	78888		

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	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

Biochemical Assay Kits	Catalog#	Buffers	Catalog#
PI3K β (p110 β /p85 α) Assay Kit	79802	Kinase Buffer 1	79334
PI3K γ (p110 γ /PIK3R5) Assay Kit	79803		
PI3K δ (p110 δ /p85 α) Assay Kit	79799		
PIM1 Assay Kit (Discontinued)	79885		
PIM2 Assay Kit	79883		
PIM3 Assay Kit	79886		
Rat ITK Kinase Assay Kit	78513		
RET Assay Kit	79566		
RIPK1 Kinase (Mouse) Assay Kit	79897		
RIPK1 Kinase Assay Kit	79560		
RIPK1 Kinase Assay Kit (384-well)	79689		
RIPK2 Kinase Assay Kit	79737		
ROCK1 Kinase Assay Kit	78386		
ROCK2 Kinase Assay Kit	78407		
ROS1 Kinase Assay Kit	78189		
SPHK1 Assay Kit	78026		
SRC Assay Kit	79680		
STK3 (MST2) Kinase Assay Kit	82140		
STK4(MST1) Kinase Assay Kit	78500		
SYK Assay Kit	79671		
TAK1-TAB1 Kinase Assay Kit	78037		
TBK1 Assay Kit	79871		
TGF β R1 (ALK5) Kinase Assay Kit	78819		
Tie2 Kinase Assay Kit	78573		
TrkA Assay Kit	79548		
TRKB Kinase Assay Kit	78591		
TRKC Kinase Assay Kit	78528		
TTK (MPS-1) Kinase Assay Kit	78356		
TYK2 (Tyrosine Kinase 2) Assay Kit	79527		
TYK2 JH2 Pseudokinase Domain Inhibitor Screening Assay Kit	78107		
TYR Phosphorylation Assay Kit	79502		
TYRO3 Kinase Assay Kit	79593		
ULK2 Kinase Assay Kit	78367		
VEGF165:VEGFR2 [Biotinylated] Inhibitor Screening Chemiluminescence Assay Kit	82582		
VEGFR2 (KDR) Kinase Assay Kit	40325		
VEGFR3(FLT4) Kinase Assay Kit	79738		
Wee1 Kinase Assay Kit	79909		
ZAP70 Kinase Assay Kit	78427		
		Cell Lines	Catalog#
		CSF1R / SRE - Reporter HEK293 Recombinant Cell Line	79380
		Human EGFRvIII CHO K1 Cell Line (High or Low Expression)	78145
		TrkA / SRE Reporter - HEK293 Recombinant Cell Line	79798
		VEGFR2/NFAT Reporter HEK293 Recombinant 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
		Fasudil	27029
		Forskolin	27067
		Forskolin	27068
		GDC-0941	27000
		Gefitinib	27032
		Geldanamycin	27008
		HA-1077	27030
		IBT6A	82075
		K252a	27033
		l-[(3R)-3-[4-amino-3-(4-phenoxyphenyl)-1Hpyrazolo [3,4-d]pyrimidin-1-yl]-l-piperidinyl]-2-propyn-1-one	82071
		LY-294002	27038
		MK-1775	82196
		PD 173074	27056
		PI-103	27502-1
		PI-103	27502-2
		PP242	27063
		Rapamycin	27062

Inhibitors/Activators	Catalog#	Proteins	Catalog#
Roscovitine	27040	ALK (F1174S), GST-Tag	101919
Ruxolitinib Phosphate	27059	ALK (G1202R), GST-Tag	101920
SGI-1776 free base	27651-1	ALK (G1269A), GST-Tag	101921
SGI-1776 free base	27651-2	ALK (G1269S), GST-Tag	101922
SGI-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 (BMPR1A) (Q233D), GST-Tag	101942
		ALK3 (BMPR1A) (R486Q), GST-Tag	101943
		ALK4 (ACV1B), GST-tag	40020
		AMPK (A1/B1/G1), His-tags	40025
		AMPK (A1/B1/G2), His-tag	40701
		AMPK (A1/B1/G2), His-tags	40021
		AMPK (A1/B1/G3), His-tag	40702
		AMPK (A1/B1/G3), His-tags	40022
		AMPK (A1/B2/G1), His-tag	40703
		AMPK (A1/B2/G1), His-tags	40023
		AMPK (A2/ B1/G1), His-tag	40704

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
AKT1, Inactive, His-tag	40000
AKT2, Active, His-tag	40011
AKT2, Inactive, His-tag	40001
AKT3, His-tag	40012
ALK (C1156Y), GST-Tag	101915
ALK (F1174L), GST-Tag	101918

Proteins	Catalog#	Proteins	Catalog#
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
c-Mer, GST-tag (Human)	40254	CDK2/Cyclin E2, GST-Tag	102148
c-MET (del 963-1009), GST-tag	100643	CDK2/Cyclin O, GST-Tag	102149
c-Met, GST-tag	40255	CDK2/CyclinA2, GST-tag	40101
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c-RAF(Y340D, Y341D), GST-Tag	40008	CDK20, GST-Tag (Mouse)	100609
c-RAF, GST-Tag	100519	CDK3/Cyclin E2, GST-Tag	102150

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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
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CDK9/CyclinK, GST-Tag	102119	DGKa, His-Avi-Tag, Biotin-Labeled	100964
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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
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CK1 gamma, GST-Tag	79348	EGFR (C775S T790M L858R), GST-Tag	79428
CK2a1, GST-tag	40045	EGFR (C797A), DEL 746-750, GST-Tag	79432
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CLK3, GST-tag	40198	EGFR (G719C), GST-Tag	79445
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CSF1R, Fc-Fusion, Avi-Tag, Biotin-Labeled	79343	EGFR (L858R), GST-Tag, His-Tag	40189
CSF1R, GST-His-Tag	40227	EGFR (L861Q), GST-Tag	79451
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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
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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
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EGFR, INS D770-NPG-N771, GST-Tag	79444	FGFR3 (N540K) His-Tag (Dephosphorylated)	100907
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EGFR, INS P772-NPH-H773, GST-Tag	79452	FGFR3 (V443L), His-Tag	100138
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EIF2AK3, GST-tag	40059	FGFR3 (V555F), His-Tag (Dephosphorylated)	100657
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EPHA3, GST-tag	40192	FLT1, His-tag	40223
EPHA4, GST-tag	40193	Flt3, His-tag	40225
EPHA6, GST-tag	40194	FRK, GST-tag	40424
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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
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IP6K2, Biotin-labeled, His-tag, Avi-tag	40643	LRRK2 (I2020T), GST-Tag	40834
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IRAK1, His-Tag	40202	LRRK2 (R1441G), GST-Tag	40836
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IRAK4, GST-tag	40064	LRRK2 (Y1699C), GST-Tag	40838
IRR, GST-tag	40242	LRRK2 (Y1699G), GST-Tag	40839
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JAK1 (JH2 Domain), His-Tag	101946	LTK, GST-Tag	101357
JAK1, GST-tag	40449	LYN A, GST-tag	40471
JAK2 (JH1 domain), His-Tag	40450	LYNB, GST-tag	40472
JAK2 (JH1, JH2 domain), GST-Tag, Avi-Tag, Biotin (Dephosphorylated)	79495	MAP4K3 (GLK), GST-tag	100624
JAK2 (JH1, JH2 domain), His-GST-Tags	40451	MAPK10 (JNK3), GST-tag	40092
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JAK2 (JH2 Domain) (V617F, W659A, W777A, F794H), His-Tag	100124	MAPK14, Inactive, GST-tag	40091
JAK2 (JH2 Domain) (W659A, W777A,F794H), His-Tag	100123	MAPKAPK2, His-tag	40116
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JAK2 (V617F) (JH1, JH2 Domain), GST-Tag, Avi-Tag, Biotin-Labeled (Dephosphorylated)	79115	MAPKAPK3, GST-tag	40117
JAK2 (V617F) (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79075	MAPKAPK5, GST-tag	40118
JAK2 (V617F), FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated)	79426	MARK1, GST-tag	40119
JAK2 (V617F, W659A, W777A, F794H), His-Avi-Tag, Biotin-Labeled	79498	MARK3, GST-tag	40120
JAK2 (V617F, Y1007F, Y1008F)- (GSSG)8-EPOR	100709	MBP, His-Tag	40535
JAK2 (W659A, W777A, F794H) (JH2 Domain), His-Avi-Tag, Biotin-Labeled	79463	MEK1 (K97R), Inactive, His-tag	40075

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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
MNK2, GST-tag	40128	NUAK2, GST-Tag	101476
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Mouse Cot (MAP3K8), His-GST-Tags	41050	p38 β , GST-tag	40143
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Mouse EPHB1, GST-tag	40199	p38 δ (p38delta), GST-tag	40145
Mouse FER, GST-tag	40419	p53 (Y220C), GST-Tag	101610
Mouse ITK, GST-tag	40446	p53, GST-Tag	40511
Mouse JNK1, GST-tag	40071	p70S6K (S6K1), GST-tag	40062
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Mouse MEK1 (EE), GST-tag	40121	p85 α , His-tag	40630
Mouse PAK3, GST-tag	40147	PAK1	40072
Mouse PKM2, His-Tag	50296	PAK2	40073
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Mouse Sphingosine kinase 2, His-tag	40614	PAK5	40077
MRCK α , GST-tag	40129	PAK6	40081
MRCK β , GST-tag	40130	PAK7, GST-tag	40148
MSK1, GST-Tag	40131	PASK, GST-tag	40149
MSSK1 (SRPK3), GST-tag	40132	PDGFR α , GST-tag	40261
MST3, GST-tag	40133	PDGFR α , Mouse, GST-tag	40260
MST4, GST-tag	40134	PDGFR α (D842I), GST-Tag	100202
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PDK1, GST-tag	40080	PKC μ (PKCmu), GST-tag	40166
PDK3, GST-Tag	100927	PKC ν (PKCnu), GST-tag	40167
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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
PI3 kinase (p110 γ /PIK3R5) complex, His-tag, GST-tag	40626	PKMYT1, GST-Tag	101569
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
PI3 Kinase [p110 α (E545K)/p85 α], His-Tag	40644	PLK4, GST-tag	40236
PIKFYVE, GST-Tag	101323	PRKG1, GST-tag	40175
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PIM2, GST-tag	40153	PRKX, GST-tag	40171
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PIP5K1A, GST-tag	40305	Rat ITK, GST-tag	40447
PKA α , GST-tag	40154	Rat MET, GST-tag	40228
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PKA β , GST-tag	40155	RIPK1, GST-Tag (Mouse)	100340
PKA γ , GST-tag	40156	RIPK1, GST-Th-Tag	40371
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PKC β I (PKCbeta1), GST-tag	40158	RIPK4, GST-Tag	79712
PKC β II (PKCbeta2), GST-tag	40159	RIPK5, GST-Tag	79713
PKC γ (PKCgamma), GST-tag	40160	ROCK1, GST-tag	40085
PKC δ (PKCdelta), GST-tag	40161	ROCK2, GST-tag	40086
PKC ϵ (PKCepsilon), GST-tag	40162	RON, GST-tag	40292
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PKC η (PKCeta), GST-tag	40164	ROR1, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled	79482

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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
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RSK3, GST-tag	40182	TNK1, GST-Th-Tag	80019
RSK4, GST-tag	40183	TOPK, GST-tag	40288
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SGK2, GST-tag	40272	TRKA, GST-tag	40280
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SIK (SNF1LK), His-tag	40274	TRKC (G623E) Mutant, Active)	40204
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Sphingosine kinase 2, His-tag	40611	TSSK2, GST-tag	40290
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SRPK2, GST-tag	40278	TYK2 (JH2 domain), FLAG-Tag	100523
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STK3(MST2), GST-tag	40013	Tyk2, His-Tag	40285
STK33, GST-tag	40093	TYRO3, GST-tag	40293
STK4(MST1), GST-tag	40017	ULK1, FLAG-Tag	40099
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TAOK1, GST-tag	40283	VEGFR3 (FLT4), GST-tag	40302
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TGFβR1, Fc Fusion (IgG1) Avi-Tag, Biotin Labeled	100645	VPS34, FLAG-tag	40690

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WNK1, GST-Tag	100971
WNK2, GST-Tag	100972
WNK3, GST-Tag	100973
WNK4, GST-Tag (Mouse)	100974
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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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