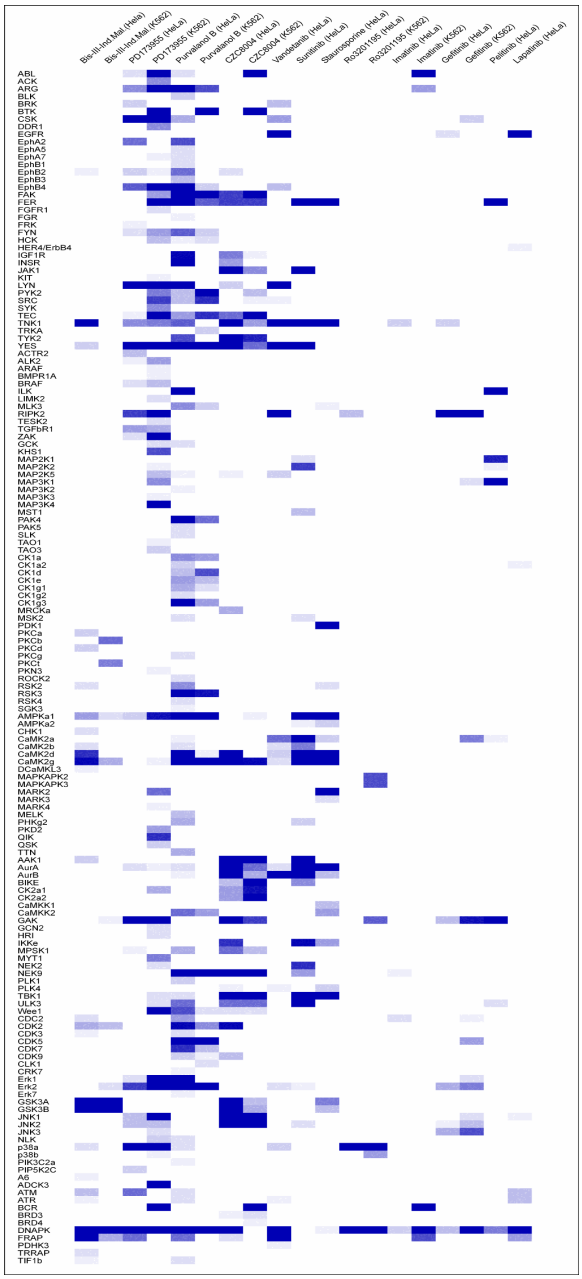
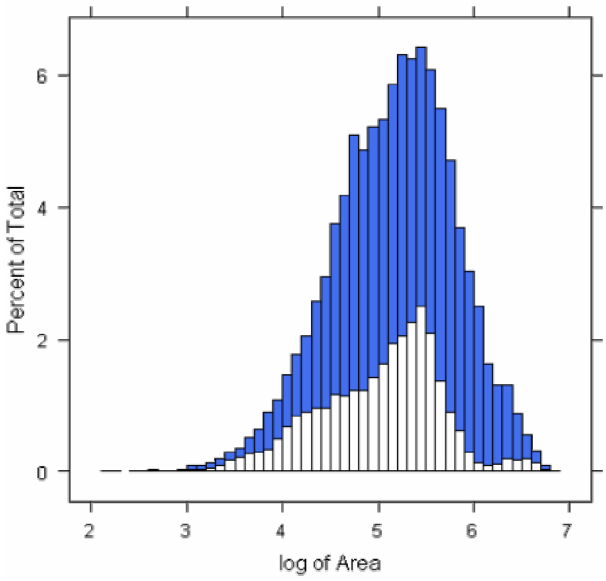


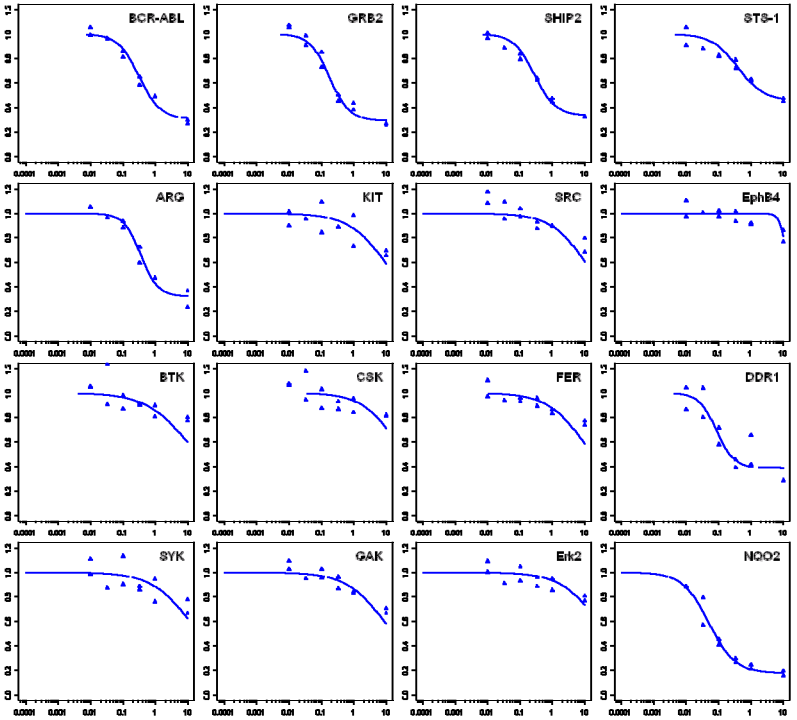
Supplementary Figure 1 Kinase binding profiles of individual immobilized tool compounds and drugs.

The research tool inhibitors Bis (III) indolyl maleimide (protein kinase C inhibitor), purvalanol B (cyclin-dependent kinase inhibitor), CZC8004 and staurosporine (pan-kinase inhibitors); and the drugs or drug candidates PD173955 (Src kinases), vandetanib (VEGFR, EGFR), sunitinib (VEGFR, PDGFR, Flt3, KIT), Ro 320-1195 (p38 MAP kinase), imatinib (ABL, PDGFR, KIT), gefitinib (EGFR), pelitinib (EGFR), and lapatinib (EGFR, Her-2) were immobilized and exposed to lysates from HeLa or K562 cells. Bound proteins were identified by mass spectrometry. The number of spectrum-to-sequence matches was translated into a heat map as a semi-quantitative indicator of the amount of protein captured.



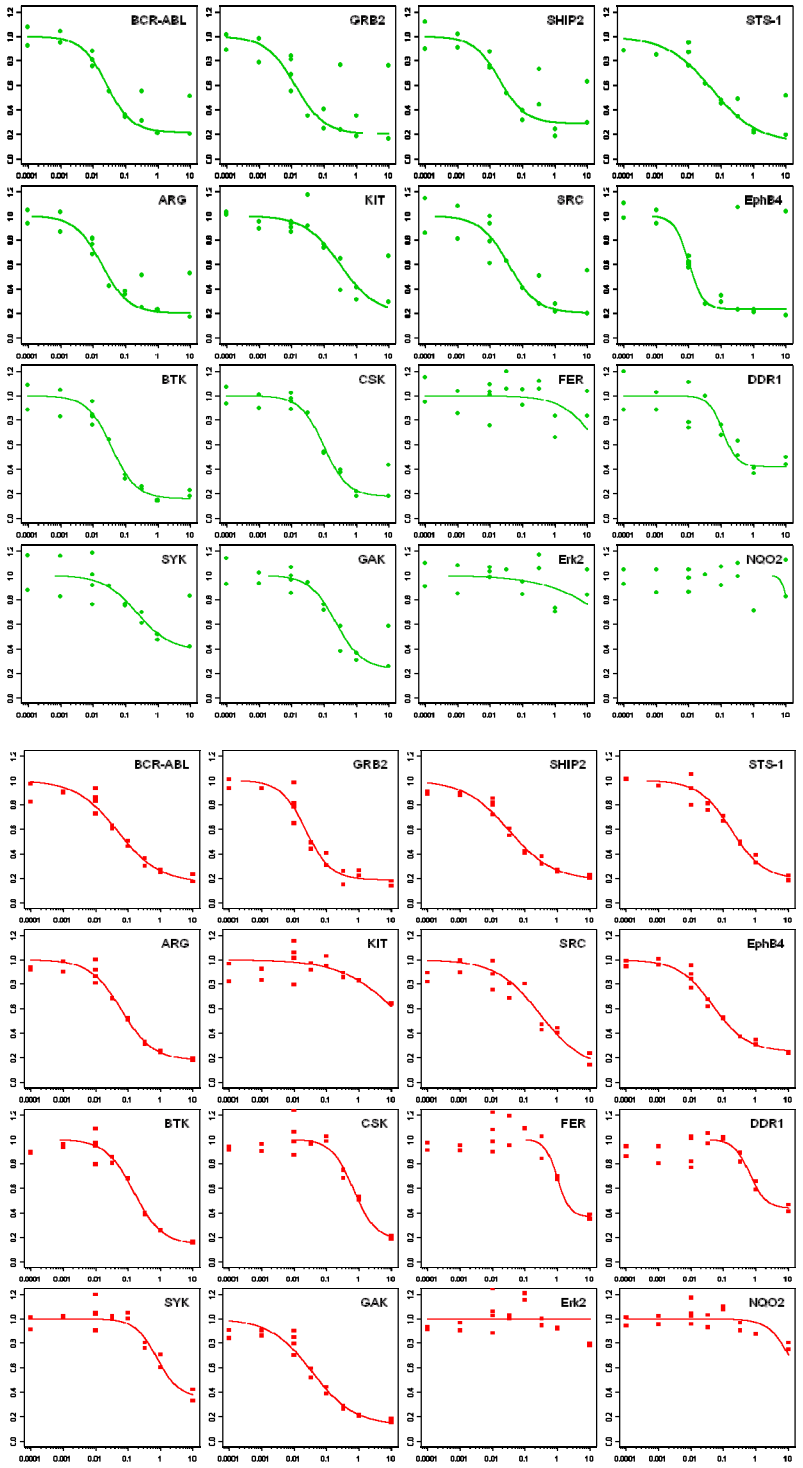
Supplementary Figure 2 iTRAQ-based quantification of the proteins captured on kinobeads.

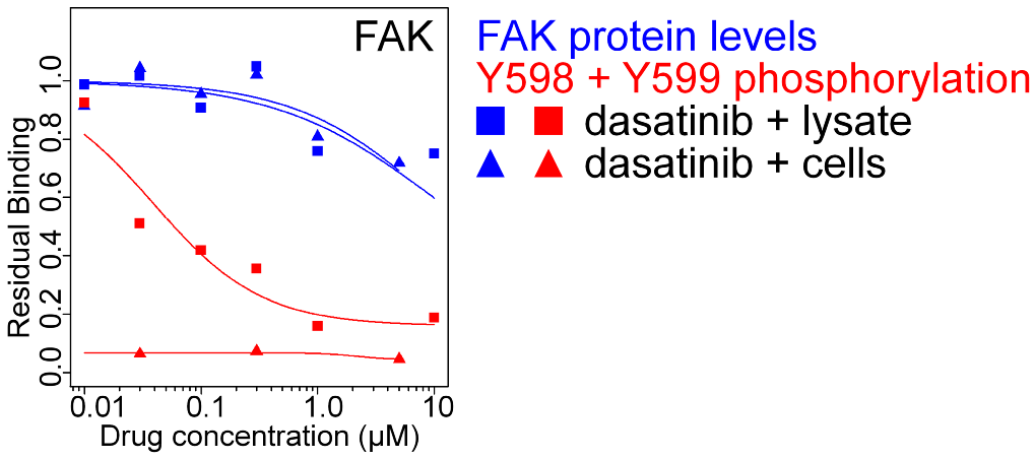
Distribution of iTRAQ areas for all proteins identified on kinobeads. Blue bars represent kinases, white bars represent non-kinases. According to **Table 1**, 13% of all proteins identified on kinobeads are protein kinases. However, when using the total iTRAQ ion area as a measure of protein quantity, it is interesting to note that 79% of the total protein is represented by protein kinases (blue bars) compared to 21% for other proteins



Supplementary Figure 3 Examples of competition binding curves calculated from iTRAQ reporter signals.

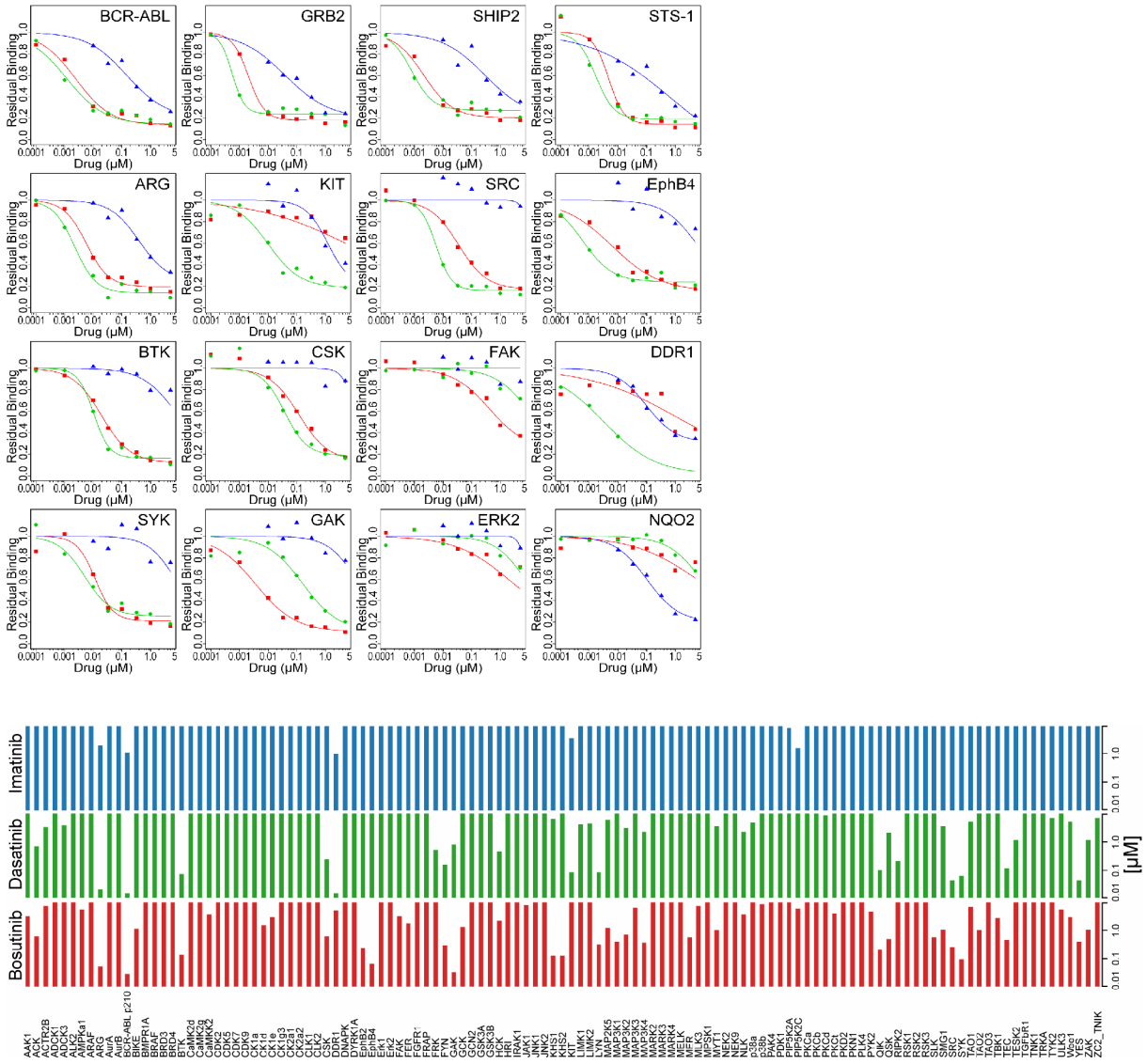
Binding of several known and novel targets to kinobeads is shown as dependent on the addition of imatinib (blue graphs), dasatinib (green graphs), or bosutinib (red graphs) to K562 cell lysate. Competition binding data were recorded from duplicate experiments (defined as two parallel compound treatments, carried out using the same batch of K52 cell lysate used throughout this study) over 6 different concentrations. In this figure, all replicated experiment are shown as separate points; curves were fitted to the averaged value of each duplicate, while the top of the curve was fixed to 1 (vehicle control).





Supplementary Figure 4 Focal adhesion kinase (FAK/PTK2) binds dasatinib only in an activated conformation.

The graphs show the dose-dependent reduction of regulatory phosphorylation sites in dasatinib-treated K562 cells (triangles) or lysates (squares) of a double-phosphorylated regulatory site on focal adhesion kinase (FAK). Whereas the FAK total protein level is only affected at high compound concentrations, a subset of FAK represented by phosphorylation on Y598/599 is affected when dasatinib was added to the lysate (red squares), and even more strongly affected when dasatinib was added to the cultured cells (red triangles).



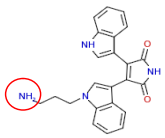
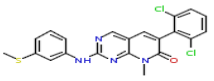
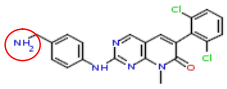
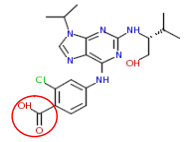
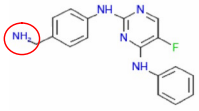
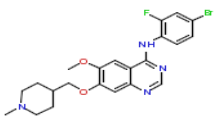
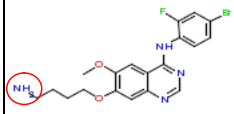
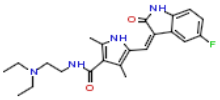
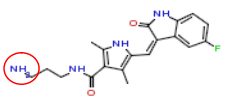
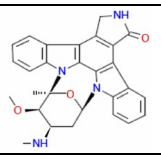
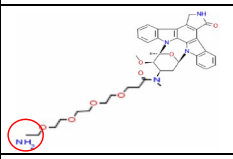
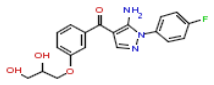
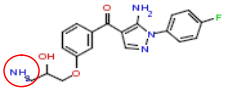
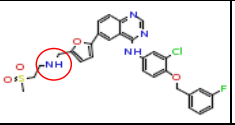
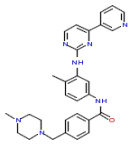
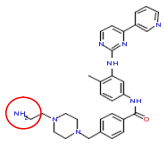
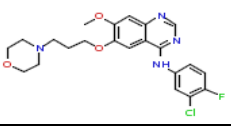
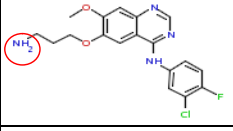
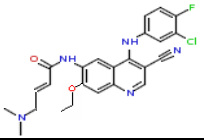
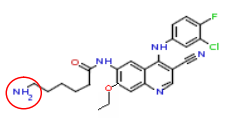
Supplementary Figure 5 Proteomic target profiling of drugs in cultured cells by a kinobeads competition assay.

Upper panel: Examples of competition binding curves calculated from iTRAQ reporter signals. Binding of selected known and novel targets to kinobeads is shown as dependent on the treatment of K562 cells with imatinib (blue), dasatinib (green), and bosutinib (red) in culture, before cells are lysed. For each compound, three independent quadruplexed experiments (vehicle plus three compound concentrations each) were performed in duplicates, and iTRAQ reporter signal data were combined to display the dose response over 9 different concentrations.

Lower panel: Kinase binding profiles of the ABL kinase inhibitors imatinib (upper panel), dasatinib (middle panel), and bosutinib (bottom panel) across a set of protein kinases simultaneously identified from K562 cells treated with the drugs in culture. The bars indicate the IC50 values, defined as the concentration of drug at which half-maximal competition of kinobeads binding is observed.

Bantscheff *et al.* , **Supplementary Table 1** online

Target profiling with immobilized kinase inhibitors

Compound	Develop-ment status	Other names	Structure ◯ = site of attachment	Structure of analogue ◯ = site of attachment	Known Targets	Known Targets: Expressed in HeLa cells (Ref. 1)	Known Targets: Found in pulldown	Known Targets: Expressed in K562 cells (Ref. 1)	Known Targets: Found in pulldown
Bis-(III) Indolyl-maleimide	Research tool	2-[1-(3-Aminopropyl)-1H-indol-3-yl]-3-(1H-indol-3-yl)maleimide			PKCs, GSK3	PKCα, PKCβ, PKCδ, PKCτ, GSK3α, GSK3β	PKCα, PKCβ, PKCδ, GSK3α, GSK3β	PKCα, PKCβ, PKCδ, PKCτ, GSK3α, GSK3β	PKCα, PKCβ, PKCτ, GSK3α, GSK3β
PD173955	pre-clinical				Src family kinases, ABL	ABL, BRK, FRK, FYN, LCK, LYN, SRC, YES	ABL, BRK, FRK, FYN, LYN, YES	BCR-ABL, FRK, FYN, HCK, LCK, LYN, SRC, YES	BCR-ABL, FYN, HCK, LYN, SRC, YES
Purvalanol B	Research tool	6-[(3-Chloro)anilino]-2(1R)-(isopropyl-2-hydroxyethylamino)-9-isopropylpurine			CDKs	CDK2, CDK3, CDK4, CDK5, CDK7, CDK8, CDK9, CDK11	CDK2, CDK3, CDK5, CDK7, CDK9,	CDK2, CDK5, CDK6, CDK7, CDK9, CDK10	CDK2, CDK5, CDK7
CZC8004	Research tool	(N*2*-(4-Amino-methyl-phenyl)-5-Fluoro-N*4*-Phenyl-Pyrimidine-2,4-Diamine			pan-kinase				
Vandetanib	Phase 3 clinical	ZD6474; Zactima® (Astra Zeneca)			VEGFR, EGFR, RET	EGFR	EGFR		NA
Sunitinib	Marketed drug	SU-11248; Sutent® (Pfizer)			VEGFR, PDGFR, FLT3, KIT	PDGFRb		KIT	
Staurosporine	Research tool				pan-kinase				
Ro-320-1195	Phase 1 clinical				p38	p38α, p38β, p38γ	p38α, p38β	p38α, p38β	p38α, p38β
Lapatinib	Marketed drug	GW-572016; Tykerb® (GSK)			EGFR, Her-2	EGFR Her-2	EGFR Her-2		NA
Imatinib	Marketed drug	STI-571; Glivec®; Gleevec® (Novartis)			ABL, Kit, PDGFR	ABL, PDGFRb		BCR-ABL KIT	BCR-ABL KIT
Gefitinib	Marketed drug	ZD-1839; Iressa® (Astra Zeneca)			EGFR	EGFR	EGFR		NA
Pelitinib	Phase 2 clinical, development discontinued	EKB-569 (Wyeth)			EGFR, Her-2	EGFR			NA

(Ref. 1) Su, A.I. *et al.:* Large-scale analysis of the human and mouse transcriptomes. Proc. Natl. Acad. Sci. U. S. A 99, 4465-4470 (2002).

Bantscheff *et al.* , **Supplementary Table 2** online

Kinase binding profiles of individual immobilized tool compounds and drugs (data for **Supplementary Fig. 1**). The total number of peptide to spectrum matches (PSMs) are listed as obtained for individual kinases interacting with immobilized tool compounds and drugs. The following compounds or analogues thereof were immobilized: The research tool inhibitors 2-(1-(3-Aminopropyl)-indol-3-yl)-3-(1-methyl-indol-3-yl) maleimide (protein kinase C inhibitor), purvalanol B (cyclin-dependent kinase inhibitor), CZC8004 and staurosporine (pan-kinase inhibitors); and the drugs or drug candidates PD173955 (src kinase inhibitor), vandetanib (VEGFR, EGFR), sunitinib (VEGFR, PDGFR, Flt3, Kit), Ro 320-1195 (p38 MAP kinase), imatinib (Abl, PDGFR, Kit), gefitinib, (EGFR), pelitinib (EGFR), and lapatinib (EGFR, Her-2 inhibitor).

Family	Name	IPI acc. nr.	Bis-indolyl maleimide III		PD173955 analogue		Purvalanol B		CZC8004		Vande-tanib anal.	Sun-itinib anal.	Stauro-sporin e anal.	Ro3201195 analogue		Imatinib analogue		Gefitinib analogue		Peli-tinib anal.	Lapa-tinib anal.
			Number of spectrum-to-sequence matches																		
			HeLa	K562	HeLa	K562	HeLa	K562	HeLa	K562	HeLa	HeLa	HeLa	HeLa	K562	HeLa	K562	HeLa	K562	HeLa	HeLa
TK	ABL	IPI00221171			2	211	2			46							54				
TK	ACK	IPI00442025				12															
TK	ARG	IPI00329488			12	174	54	19									10				
TK	BLK	IPI00306217					4														
TK	BRK	IPI00015927			4						6										
TK	BTK	IPI00029132				238		37		34											
TK	CSK	IPI00013212			30	105	8				10								5		
TK	DDR1	IPI00001477				12															
TK	EGFR	IPI00018274									51							3			251
TK	EphA2	IPI00021267			15		19														
TK	EphA5	IPI00008290					2														
TK	EphA7	IPI00016645				1	3														
TK	EphB1	IPI00008315					2														
TK	EphB2	IPI00021275	1		5	1	15		3												
TK	EphB3	IPI00289329					6														
TK	EphB4	IPI00289342			18	69	52	4			7										
TK	FAK	IPI00413961				11	42	111	22	56											
TK	FER	IPI00029263				58	43	17	21	22		32	49							38	
TK	FGFR1	IPI00005142				3															
TK	FGR	IPI00016871					1														
TK	FRK	IPI00000885			1																
TK	FYN	IPI00219012			3	10	17	5													
TK	HCK	IPI00029769				7	1	2													
TK	HER4/ErbB4	IPI00016371																			1
TK	IGF1R	IPI00027232					29		13	1											
TK	INSR	IPI00025803					40		10												
TK	JAK1	IPI00011633							45	12		120									
TK	KIT	IPI00022296				1															
TK	LYN	IPI00298625			34	91	87		5		36										
TK	PYK2	IPI00029702				13	6	57		7											
TK	SRC	IPI00328867				21	7	24		1	1										
TK	SYK	IPI00018597				12															
TK	TEC	IPI00000878			1	43	10	24	15	39											
TK	TNK1	IPI00022633	53		12	13	18		123	10	38	35	100			5		4			
TK	TRKA	IPI00025076						5													
TK	TYK2	IPI00022353					20		49	25											
TK	YES	IPI00013981	4		110	136	390	34	117	16	160	88									
TKL	ACTR2	IPI00015691			7																
TKL	ALK2	IPI00029219			1	10															
TKL	ARAF	IPI00020578				1															
TKL	BMPR1A	IPI00005731				1															
TKL	BRAF	IPI00303797			2	7															
TKL	ILK	IPI00025644					33													34	
TKL	LIMK2	IPI00022872				2															
TKL	MLK3	IPI00000977					12	5					1								
TKL	RIPK2	IPI00021917			21	66					126			6				161	172		
TKL	TESK2	IPI00102677				3															
TKL	TGFbR1	IPI00005733			11	8															
TKL	ZAK	IPI00329638			3	47															
STE	GCK	IPI00149094				2	2														
STE	KHS1	IPI00294842				19															
STE	MAP2K1	IPI00219604										2								25	
STE	MAP2K2	IPI00003783				1						21								1	
STE	MAP2K5	IPI00185860				6	1		1		4										
STE	MAP3K1	IPI00012318				12													3	31	
STE	MAP3K2	IPI00513803					1														
STE	MAP3K3	IPI00181703				1															
STE	MAP3K4	IPI00386260				82															
STE	MST1	IPI00011488										6									
STE	PAK4	IPI00014068					65	16													
STE	PAK5	IPI00001814					2														
STE	SLK	IPI00022827					2														
STE	TAO1	IPI00002232				1															
STE	TAO3	IPI00410485				5															
CK1	CK1a	IPI00448798					12	10													
CK1	CK1a2	IPI00167096					4														1
CK1	CK1d	IPI00011102					6	19													
CK1	CK1e	IPI00027729					10	7													
CK1	CK1g1	IPI00465058					8	2													
CK1	CK1g2	IPI00297767					3														
CK1	CK1g3	IPI00218437					37	11													
AGC	MRCKa	IPI00640957							8												
AGC	MSK2	IPI00022536					2					3									
AGC	PDK1	IPI00002538											33								
AGC	PKCa	IPI00385449	4																		
AGC	PKCb	IPI00219628		16																	
AGC	PKCd	IPI00329236	4																		
AGC	PKCg	IPI00007128					2														
AGC	PKCt	IPI00029196		14																	
AGC	PKN3	IPI00413780				1															
AGC	ROCK2	IPI00307155					3														
AGC	RSK2	IPI00020898	3				12						2								
AGC	RSK3	IPI00477982					42	26													
AGC	RSK4	IPI00007123					2														
AGC	SGK3	IPI00655852					1														
CAMK	AMPKa1	IPI00410287	10	2	4	27	89	57		1		80	35								

Family	Name	IPI acc. nr.	Bis-indolyl maleimide III		PD173955 analogue		Purvalanol B		CZC8004		Vande-tanib anal.	Sun-itinib anal.	Stauro-sporin e anal.	Ro3201195 analogue		Imatinib analogue		Gefitinib analogue		Peli-tinib anal.	Lapa-tinib anal.
			Number of spectrum-to-sequence matches																		
			HeLa	K562	HeLa	K562	HeLa	K562	HeLa	K562	HeLa	HeLa	HeLa	HeLa	K562	HeLa	K562	HeLa	K562	HeLa	HeLa
CAMK	AMPKa2	IPI00307755										1	4								
CAMK	CHK1	IPI00023664	2																		
CAMK	CaMK2a	IPI00550056					1				16	140	5						13	1	
CAMK	CaMK2b	IPI00221305	2				3				3	13									
CAMK	CaMK2d	IPI00430291	24				121	1	36		4	117	37								
CAMK	CaMK2g	IPI00169392	28	8		1	122	51	91	28	3	182	59								
CAMK	DCaMKL3	IPI00028196	1																		
CAMK	MAPKAPK2	IPI00026054													19						
CAMK	MAPKAPK3	IPI00005777													20						
CAMK	MARK2	IPI00555838				16							59								
CAMK	MARK3	IPI00183118											3								
CAMK	MARK4	IPI00064797				1															
CAMK	MELK	IPI00006471					6														
CAMK	PHKg2	IPI00012891					8					4									
CAMK	PKD2	IPI00009334				11															
CAMK	QIK	IPI00465291				23															
CAMK	QSK	IPI00657720				4															
CAMK	TTN	IPI00179357					8														
Other	AAK1	IPI00298977	5						121	44		96									
Other	AurA	IPI00298940			3	1	2		145	16	3	98	165								
Other	AurB	IPI00176642					1		40	8	31	46	7								
Other	BIKE	IPI00337426							7	44		12									
Other	CK2a1	IPI00016613				9			10	27											
Other	CK2a2	IPI00020602							11	53											
Other	CaMKK1	IPI00166909											7								
Other	CaMKK2	IPI00290239					15	10					10								
Other	GAK	IPI00298949		1	30	267			35	21					17			6	27	109	
Other	GCN2	IPI00163851				2															
Other	HRI	IPI00328149				3															
Other	IKKe	IPI00029045							23			29	10								
Other	MPSK1	IPI00306833			1		9		15	6											
Other	MYT1	IPI00384765				13															
Other	NEK2	IPI00021331				3						24									
Other	NEK9	IPI00301609					267	105	52	47		10				1					
Other	PLK1	IPI00021248					4														
Other	PLK4	IPI00410344							1		1		5								
Other	TBK1	IPI00293613				2	2		168	88		308	118								
Other	ULK3	IPI00411818				3	16		16	15		54								3	
Other	Wee1	IPI00025830				45	19	3	2	3											
CMGC	CDC2	IPI00026689	3				11									2			1		
CMGC	CDK2	IPI00031681	8	7			29	12	29												
CMGC	CDK3	IPI00023503	1				2														
CMGC	CDK5	IPI00023530					100	41											10		
CMGC	CDK7	IPI00000685					24	6													
CMGC	CDK9	IPI00552413					4	1	6												
CMGC	CLK1	IPI00028061						2													
CMGC	CRK7	IPI00021175					1														
CMGC	Erk1	IPI00018195			2	37	39												2		
CMGC	Erk2	IPI00003479		2	21	213	202	152			2	1						8	13		
CMGC	Erk7	IPI00165955					1														
CMGC	GSK3A	IPI00292228	166	88					75	7			13								
CMGC	GSK3B	IPI00216190	206	73					70	8			7								
CMGC	JNK1	IPI00024672			7	62			74	42									2		1
CMGC	JNK2	IPI00303550			6	7			150	39		2						1	6		
CMGC	JNK3	IPI00023547				2												9	19		
CMGC	NLK	IPI00008237				5	2														
CMGC	p38a	IPI00002857	3		31	69	2				5			71	80						
CMGC	p38b	IPI00019473				1									11						
Lipid Kinase	PIK3C2a	IPI00002580					1														
Lipid Kinase	PIP5K2C	IPI00152303			5																
Atypical	A6	IPI00183508	1																		
Atypical	ADCK3	IPI00176469				37															
Atypical	ATM	IPI00298306	6		16		2														6
Atypical	ATR	IPI00412298	1				3				1										7
Atypical	BCR	IPI00004497				193				43							52				
Atypical	BRD3	IPI00014266							1	2											
Atypical	BRD4	IPI00440727								1											
Atypical	DNAPK	IPI00296337	472	242	277	290	346	49	63		218		1	48	82	5	381	7	31	14	281
Atypical	FRAP	IPI00513678	36	8	15		16		3		57						20				10
Atypical	PDHK3	IPI00014849									1										
Atypical	TRRAP	IPI00069084	2																		
TIF1	TIF1b	IPI00438229	1				3														

Bantscheff *et al.* , **Supplementary Table 3** online
Protein binding profiles of of mixed kinase inhibitor beads (kinobeads) (data for Fig. 1a)

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Kinase	TK	ABL	IPI00221171	269	198	747	33	574
Kinase	TK	ACK	IPI00442025	200	44	81	129	423
Kinase	TK	ARG	IPI00329488	942	81	501	788	823
Kinase	TK	BCR-ABL	NA	208	197		5159	36
Kinase	TK	BLK	IPI00306217			78		838
Kinase	TK	BMX	IPI00020899		99		4	
Kinase	TK	BRK	IPI00015927	99				
Kinase	TK	BTK	IPI00029132		239	10	2654	4167
Kinase	TK	CSK	IPI00013212	1539	306	1601	1686	1908
Kinase	TK	DDR1	IPI00001477	239	179	26	84	49
Kinase	TK	DDR2	IPI00004409		86		51	
Kinase	TK	EGFR	IPI00018274	148	497			
Kinase	TK	EphA1	IPI00294250	3	162			
Kinase	TK	EphA2	IPI00021267	851	241			
Kinase	TK	EphA3	IPI00298105	71	130	76		
Kinase	TK	EphA4	IPI00008318		26		4	1
Kinase	TK	EphA5	IPI00008290		22		3	
Kinase	TK	EphA7	IPI00016645		2			
Kinase	TK	EphB1	IPI00008315			2	16	
Kinase	TK	EphB2	IPI00021275	188	274	186	28	
Kinase	TK	EphB3	IPI00289329		57			2
Kinase	TK	EphB4	IPI00289342	591	1299	6	408	2
Kinase	TK	EphB6	IPI00005222		5	68	1	
Kinase	TK	FAK	IPI00413961	279	390	169	1021	227
Kinase	TK	FER	IPI00029263	330	271	166	258	128
Kinase	TK	FES	IPI00294344		427			
Kinase	TK	FGFR1	IPI00005142	19	40	46	82	
Kinase	TK	FGFR3	IPI00220253	1				
Kinase	TK	FGFR4	IPI00304578	19				
Kinase	TK	FGR	IPI00016871		71	5		44
Kinase	TK	FLT3	IPI00005722					11
Kinase	TK	FLT4	IPI00293565		364		12	
Kinase	TK	FMS	IPI00011218		64			
Kinase	TK	FRK	IPI00000885	100	33		58	
Kinase	TK	FYN	IPI00219012	99	78	145	159	129
Kinase	TK	HCK	IPI00029769		187		61	
Kinase	TK	HER2/ErbB2	IPI00300384		3			
Kinase	TK	HER3/ErbB3	IPI00298285	74				
Kinase	TK	IGF1R	IPI00027232	36	22	3		34
Kinase	TK	INSR	IPI00025803	44	44	3	3	74
Kinase	TK	ITK	IPI00004566		1	1484	1	
Kinase	TK	JAK1	IPI00011633	506	374	800	304	2576
Kinase	TK	JAK2	IPI00031016	6		46	40	119
Kinase	TK	JAK3	IPI00219418	7	2	50		16
Kinase	TK	KDR	IPI00021396		72			
Kinase	TK	KIT	IPI00022296		27		140	
Kinase	TK	LCK	IPI00394952	6	16	3818	112	810
Kinase	TK	LYN	IPI00298625	417	815	1	413	944
Kinase	TK	MER	IPI00029756		18	13	23	
Kinase	TK	MET	IPI00294528	102	36			
Kinase	TK	PDGFRa	IPI00027721		137			
Kinase	TK	PDGFRb	IPI00015902	13	539	3		
Kinase	TK	PYK2	IPI00029702	68	218	1519	852	2704
Kinase	TK	RON	IPI00030273	131				
Kinase	TK	SRC	IPI00328867	14	739	289	112	8
Kinase	TK	SYK	IPI00018597		57	6	176	203
Kinase	TK	TEC	IPI00000878	127	32	39	430	159
Kinase	TK	TIE2	IPI00412829		151			
Kinase	TK	TNK1	IPI00022633	1332	6	1	175	
Kinase	TK	TRKA	IPI00025076				60	
Kinase	TK	TXK	IPI00000879			2		
Kinase	TK	TYK2	IPI00022353	302	21	509	227	540
Kinase	TK	YES	IPI00013981	1767	823	128	552	1
Kinase	TK	ZAP70	IPI00329789			74		
Kinase	TKL	ACTR2	IPI00015691	102	26		8	28
Kinase	TKL	ACTR2B	IPI00437565	16	23	44	26	48
Kinase	TKL	ALK1	IPI00293271		3		6	
Kinase	TKL	ALK2	IPI00029219	36	105	88	56	4
Kinase	TKL	ALK4	IPI00005732	42	8	19	11	18
Kinase	TKL	ARAF	IPI00020578	37	6	36	33	59
Kinase	TKL	BMPR1A	IPI00005731	79	21	38	30	52
Kinase	TKL	BMPR2	IPI00221246	16				19
Kinase	TKL	BRAF	IPI00303797	137	53	2	20	40
Kinase	TKL	DLK	IPI00292181			33		4
Kinase	TKL	ILK	IPI00025644	74	35	57	10	2
Kinase	TKL	IRAK1	IPI00293652	29		34	33	29
Kinase	TKL	IRAK3	IPI00026984		24			
Kinase	TKL	IRAK4	IPI00007641			2		
Kinase	TKL	KSR1	IPI00514547				3	
Kinase	TKL	LIMK1	IPI00291702	55	42	111	49	217
Kinase	TKL	LIMK2	IPI00022872	54	266	225	103	160
Kinase	TKL	LRRK1	IPI00306522				3	3
Kinase	TKL	LRRK2	IPI00175649		14		11	
Kinase	TKL	MLK1	IPI00179189	26		38	8	49
Kinase	TKL	MLK3	IPI00000977	89	20	50	37	25
Kinase	TKL	MLK4	IPI00142487	1				
Kinase	TKL	RAF1	IPI00021786	1				
Kinase	TKL	RIPK2	IPI00021917	1151	237		343	1240
Kinase	TKL	RIPK3	IPI00294938		5	12		74
Kinase	TKL	TESK1	IPI00018182	8	12	32	8	25
Kinase	TKL	TESK2	IPI00102677		20	45	32	55
Kinase	TKL	TGFbR1	IPI00005733	169	238	13	79	61
Kinase	TKL	TGFbR2	IPI00164934	21	52	4	19	62
Kinase	TKL	ZAK	IPI00329638	182	151	190	242	32
Kinase	STE	GCK	IPI00149094	45	35	73	38	51
Kinase	STE	HPK1	IPI00020258		12	190	10	168
Kinase	STE	KHS1	IPI00294842	41	82	123	82	73
Kinase	STE	KHS2	IPI00217024	32	38	8	51	3
Kinase	STE	LOK	IPI00304742		1			18
Kinase	STE	MAP2K1	IPI00219604	14	3		10	22
Kinase	STE	MAP2K2	IPI00003783	27	10		17	16
Kinase	STE	MAP2K4	IPI00024674	1	18			
Kinase	STE	MAP2K5	IPI00185860	17	15	29	31	24
Kinase	STE	MAP3K1	IPI00012318	191	12	103	280	872
Kinase	STE	MAP3K2	IPI00513803	49	87	97	19	30

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Kinase	STE	MAP3K3	IPI00181703	17	70	55	39	27
Kinase	STE	MAP3K4	IPI00386260	127	44	403	932	447
Kinase	STE	MAP3K5	IPI00412433	27		47	5	98
Kinase	STE	MAP3K6	IPI00418221	9			4	
Kinase	STE	MAP3K7	IPI00412740	4				
Kinase	STE	MST1	IPI00011488	20	2	39	4	25
Kinase	STE	MST2	IPI00411984	2	10			
Kinase	STE	MST4	IPI00292827	2				
Kinase	STE	PAK4	IPI00014068	192	163	116	105	105
Kinase	STE	PAK5	IPI00001814					2
Kinase	STE	SLK	IPI00022827	28	4	28	28	9
Kinase	STE	STLK5	IPI00300700	6				3
Kinase	STE	TAO1	IPI00002232	19	49		6	
Kinase	STE	TAO2	IPI00465168	42	57	81	111	86
Kinase	STE	TAO3	IPI00410485	11	26	55	44	13
Kinase	STE	ZC1/HGK	IPI00219800			25	2	2
Kinase	STE	ZC2/TNIK	IPI00145805			4	49	
Kinase	CK1	CK1a	IPI00448798	34	13	63	134	62
Kinase	CK1	CK1d	IPI00011102	5	5	2	27	44
Kinase	CK1	CK1e	IPI00027729	45	21	68	113	59
Kinase	CK1	CK1g1	IPI00465058			24	2	6
Kinase	CK1	CK1g2	IPI00297767			4	8	6
Kinase	CK1	CK1g3	IPI00218437	39	42	16	67	72
Kinase	AGC	BARK1	IPI00012497					2
Kinase	AGC	BARK2	IPI00019926			1		
Kinase	AGC	MSK1	IPI00335101		7	5		2
Kinase	AGC	MSK2	IPI00022536	56	37	18		20
Kinase	AGC	PDK1	IPI00002538	130	56	146	107	222
Kinase	AGC	PKCa	IPI00385449	12	114	78	15	41
Kinase	AGC	PKCb	IPI00219628		27	165	338	
Kinase	AGC	PKCd	IPI00329236	34	44	15	40	82
Kinase	AGC	PKCh	IPI00184572			2		
Kinase	AGC	PKCt	IPI00029196		5	163	98	65
Kinase	AGC	PKG1	IPI00436355		67			
Kinase	AGC	PKN1	IPI00412672		7	39	18	13
Kinase	AGC	PKN2	IPI00002804	10		16		
Kinase	AGC	PKN3	IPI00413780	16			33	
Kinase	AGC	ROCK1	IPI00022542			5	2	
Kinase	AGC	ROCK2	IPI00307155	20				
Kinase	AGC	RSK1	IPI00300321		15	3	33	
Kinase	AGC	RSK2	IPI00020898	65	39	73	61	45
Kinase	AGC	RSK3	IPI00477982	211	63	197	301	196
Kinase	AGC	RSK4	IPI00007123		13			
Kinase	CAMK	AMPKa1	IPI00410287	500	343	764	434	383
Kinase	CAMK	AMPKa2	IPI00307755	36				
Kinase	CAMK	BRSK1	IPI00148020			13	12	
Kinase	CAMK	BRSK2	IPI00339265	32				
Kinase	CAMK	CaMK1d	IPI00170508		1	12		71
Kinase	CAMK	CaMK2a	IPI00550056		4		6	7
Kinase	CAMK	CaMK2b	IPI00221305		3	5		12
Kinase	CAMK	CaMK2d	IPI00430291	290	490	564	19	4369
Kinase	CAMK	CaMK2g	IPI00169392	702	1030	1868	533	631
Kinase	CAMK	CaMK4	IPI00430411			9		8
Kinase	CAMK	CaMLCK	IPI00304648	5			4	
Kinase	CAMK	CASK	IPI00024726			3		2
Kinase	CAMK	CHK1	IPI00023664			3		5
Kinase	CAMK	CHK2	IPI00423156			5		7
Kinase	CAMK	DRAK2	IPI00014934				1	13
Kinase	CAMK	LKB1	IPI00219072		1			
Kinase	CAMK	MAPKAPK2	IPI00026054				4	
Kinase	CAMK	MAPKAPK5	IPI00160672			2		
Kinase	CAMK	MARK1	IPI00185037	28				
Kinase	CAMK	MARK2	IPI00555838	383	140	317	290	331
Kinase	CAMK	MARK3	IPI00183118	190	49	184	179	194
Kinase	CAMK	MARK4	IPI00064797			58	38	10
Kinase	CAMK	MELK	IPI00006471	42		63	37	37
Kinase	CAMK	MNK1	IPI00304048				6	
Kinase	CAMK	PHKg2	IPI00012891	12			4	21
Kinase	CAMK	PIM1	IPI00005014				11	
Kinase	CAMK	PKD2	IPI00009334	18	19	38	30	70
Kinase	CAMK	PKD3	IPI00015538	5		2		54
Kinase	CAMK	QIK	IPI00465291	29	15	115	261	252
Kinase	CAMK	QSK	IPI00657720	62	119	158	219	722
Kinase	CAMK	SIK	IPI00025679	100				
Kinase	CAMK	smMLCK	IPI00413604		8			
Kinase	CAMK	STK33	IPI00302351			6		
Kinase	CMGC	CDC2	IPI00026689	26	3	8	13	25
Kinase	CMGC	CDK2	IPI00031681	249	150	180	163	170
Kinase	CMGC	CDK3	IPI00023503					4
Kinase	CMGC	CDK5	IPI00023530	230	125	708	386	482
Kinase	CMGC	CDK6	IPI00023529			17	5	10
Kinase	CMGC	CDK7	IPI00000685	73	16	58	102	83
Kinase	CMGC	CDK9	IPI00552413	72	2	110	62	104
Kinase	CMGC	CDK10	IPI00014873	3	1			10
Kinase	CMGC	CLK1	IPI00028061			82	64	52
Kinase	CMGC	CLK2	IPI00028071	3		26	12	30
Kinase	CMGC	CLK3	IPI00298896			2		
Kinase	CMGC	CRK7	IPI00021175	15		16	2	8
Kinase	CMGC	DYRK1A	IPI00014344	2		86	58	43
Kinase	CMGC	DYRK1B	IPI00000352	1		3		
Kinase	CMGC	Erk1	IPI00018195	53	29	30	30	66
Kinase	CMGC	Erk2	IPI00003479	1086	1124	740	3170	1316
Kinase	CMGC	Erk3	IPI00003431			2	4	
Kinase	CMGC	Erk5	IPI00219601			18		
Kinase	CMGC	Erk7	IPI00165955	1		1		2
Kinase	CMGC	GSK3A	IPI00292228	557	251	434	782	245
Kinase	CMGC	GSK3B	IPI00216190	538	391	600	568	379
Kinase	CMGC	HIPK1	IPI00414744			5	8	
Kinase	CMGC	ICK	IPI00181855		9	8		
Kinase	CMGC	JNK1	IPI00024672	251	105	167	638	298
Kinase	CMGC	JNK2	IPI00303550	534	276	181	468	216
Kinase	CMGC	JNK3	IPI00023547		1			
Kinase	CMGC	NLK	IPI00008237	33		90	134	45
Kinase	CMGC	p38a	IPI00002857	1254	1084	969	1002	1407
Kinase	CMGC	p38b	IPI00019473	9	24	14	26	8
Kinase	CMGC	PCTAIRE2	IPI00376955					6
Kinase	Atypical	A6	IPI00183508	2				
Kinase	Atypical	ADCK1	IPI00412099	21	2	6	11	5
Kinase	Atypical	ADCK3	IPI00176469	54	6	21	143	28
Kinase	Atypical	ADCK4	IPI00647707	26			9	

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Kinase	Atypical	ATM	IPI00298306	79	12	25	57	203
Kinase	Atypical	ATR	IPI00412298	71		11	8	97
Kinase	Atypical	BCR	IPI00004497	64	4		20	6
Kinase	Atypical	BRD2	IPI00014414	13	1	23	20	17
Kinase	Atypical	BRD3	IPI00014266	12	11	34	39	5
Kinase	Atypical	BRD4	IPI00440727	33		67	129	142
Kinase	Atypical	DNAPK	IPI00296337	948	366	793	2098	1799
Kinase	Atypical	FRAP	IPI00513678	237	65	114	288	191
Kinase	Atypical	PDHK1	IPI00655704					7
Kinase	Atypical	PDHK3	IPI00014849	7		5	4	10
Kinase	Atypical	TRRAP	IPI00069084			72	49	42
Kinase	TIF1	TIF1b	IPI00438229	5		3	12	3
Kinase	Non-SUGEN	BMPR2 SF	IPI00027376	12	1	6	4	
Kinase	Non-SUGEN	CDKL1	IPI00383161					2
Kinase	Non-SUGEN	CLK2P	IPI00643723			3		4
Kinase	Non-SUGEN	IPI00396447.2	IPI00396447	5	2	3	5	
Kinase	Non-SUGEN	LOC440332	IPI00455277					7
Kinase	Non-SUGEN	MKNK2	IPI00556585					1
Kinase	Non-SUGEN	RP11-535K18 3	IPI00217264					1
Kinase	Non-SUGEN	SIMILAR TO CASEIN KINASE I, DELTA ISOFORM.	IPI00234463			5	30	8
Kinase	Non-SUGEN	SIMILAR TO INTEGRAL MEMBRANE GLYCOPROTEIN GP210 P	IPI00017837	1				
Kinase	Non-SUGEN	SIMILAR TO MITOGEN-ACTIVA	IPI00087148					2
Kinase	Non-SUGEN	SPFH1	IPI00007940					5
Kinase	Non-SUGEN	SPFH2	IPI00026942		7		5	12
Kinase	Non-SUGEN	TFG	IPI00294619		3			
Kinase	Other	AAK1	IPI00298977	385	212	345	252	2
Kinase	Other	AurA	IPI00298940	688		126	170	302
Kinase	Other	AurB	IPI00176642	174		148	135	98
Kinase	Other	BIKE	IPI00337426	77	35	94	345	434
Kinase	Other	CaMKK1	IPI00166909	62		18	2	
Kinase	Other	CaMKK2	IPI00290239	79	36	111	93	155
Kinase	Other	CK2a1	IPI00016613	48	12	45	116	125
Kinase	Other	CK2a2	IPI00020602	93	102	68	188	194
Kinase	Other	CLIK1L	IPI00166098			2	5	1
Kinase	Other	Fused	IPI00235407	10		3		11
Kinase	Other	GAK	IPI00298949	1425	910	2596	1476	2318
Kinase	Other	GCN2	IPI00163851	102	20	345	99	27
Kinase	Other	HRI	IPI00328149	58		40	35	36
Kinase	Other	IKKa	IPI00005104					2
Kinase	Other	IKKe	IPI00029045	155	13	135	13	390
Kinase	Other	MPSK1	IPI00306833	21	12	10	23	18
Kinase	Other	MYT1	IPI00384765	58		67	142	74
Kinase	Other	NEK1	IPI00552585	19		18	1	48
Kinase	Other	NEK2	IPI00021331	81		67	108	57
Kinase	Other	NEK6	IPI00396662	6			5	
Kinase	Other	NEK7	IPI00152658		10		1	1
Kinase	Other	NEK9	IPI00301609	1455	543	348	729	2279
Kinase	Other	PIK3R4	IPI00024006	13		2		7
Kinase	Other	PLK1	IPI00021248	8				15
Kinase	Other	PLK4	IPI00410344	38		22	27	45
Kinase	Other	SgK223	IPI00166578			2	1	338
Kinase	Other	TBK1	IPI00293613	1483	848	1823	1837	1809
Kinase	Other	TTK	IPI00151170	1				3
Kinase	Other	ULK3	IPI00411818	79	30	55	65	31
Kinase	Other	Wee1	IPI00025830	495	135	553	430	982
Lipid Kinase	-	PIK3C2b	IPI00292056	72	40	174	31	
Lipid Kinase	-	PIK3Cb	IPI00031388		3		20	
Lipid Kinase	-	PIK3Cd	IPI00298410				2	
Lipid Kinase	-	PIK3Cg	IPI00292690					13
Lipid Kinase	-	PIK4Ca	IPI00070943		24	8	41	14
Lipid Kinase	-	PIP5K2A	IPI00009688	6			7	12
Lipid Kinase	-	PIP5K2B	IPI00216470	2				
Lipid Kinase	-	PIP5K2C	IPI00152303	66	1		8	20
Lipid Kinase	-	SIMILAR TO PHOSPHOINOSITIDE-3-KINASE, CLASS 2, AL	IPI00060352		1			
Sugar kinase	-	FRAT1	IPI00023762			1		
Sugar kinase	-	HK1	IPI00220665		7	1	3	
Sugar kinase	-	HK2	IPI00102864	3				
Sugar kinase	-	HKDC1	IPI00414612	11				
Sugar kinase	-	PFKL	IPI00220617	13	22	12	19	14
Sugar kinase	-	PFKM	IPI00465179	7			4	1
Sugar kinase	-	PFKP	IPI00009790	36		39	24	17
Nucleotide kinase	-	AK2	IPI00215901				11	3
Nucleotide kinase	-	CMPK	IPI00219953		3		3	
Nucleotide kinase	-	DCK	IPI00020454	37	7	58	63	126
Nucleotide kinase	-	NME2	IPI00604590		14		33	29
Nucleotide kinase	-	TK1	IPI00299214	8			4	6
Nucleotide kinase	-	TK2	IPI00337439		7			
Nucleotide kinase	-	UCK2	IPI00065671	2		3	1	
Other kinase	-	C21orf124	IPI00013004	65	195	15	42	37
Other kinase	-	NAGK	IPI00296526		12			
Other kinase	-	PANK4	IPI00018946	1	1		5	
Other kinase	-	PGK1	IPI00169383	6			16	4
Other kinase	-	TGM2	IPI00294578		41			
Enzyme	GTPase	GBL	IPI00657689	11		2	9	13
Enzyme	GTPase	RAN	IPI00643041	10	16	6	11	14
Enzyme	GTPase	RHOA	IPI00478231		10		6	4
Enzyme	GTPase	RHOB	IPI00000041		1			
Enzyme	GTPase	RHOG	IPI00017342		3			
Enzyme	GTPase	RHOH	IPI00018882			3		6
Enzyme	GTPase	SIMILAR TO ADP-RIBOSYLATION FACTOR 4 (H. SAPIENS)	IPI00013078			1		
Enzyme	Helicase	ASCC3L1	IPI00420014	11		6	10	5
Enzyme	Helicase	BAT1	IPI00328343				2	
Enzyme	Helicase	BTAF1	IPI00024802	7				
Enzyme	Helicase	CHD8	IPI00719073	8		6	5	18
Enzyme	Helicase	DDX1	IPI00293655	7		3	7	3
Enzyme	Helicase	DDX3Y	IPI00215637	22	7	8	3	2
Enzyme	Helicase	DDX5	IPI00017617	19		13	5	13
Enzyme	Helicase	DDX17	IPI00651677	4	1	6	10	10
Enzyme	Helicase	DDX20	IPI00005904	11			3	10
Enzyme	Helicase	DDX39	IPI00644431	4				
Enzyme	Helicase	DDX46	IPI00329791	3				2
Enzyme	Helicase	DDX48	IPI00009328					3
Enzyme	Helicase	DHX9	IPI00215638					1
Enzyme	Helicase	DHX15	IPI00177366	6		13	6	8
Enzyme	Helicase	DHX32	IPI00644447		3			
Enzyme	Helicase	DHX36	IPI00027415					2
Enzyme	Helicase	EIF4A1	IPI00386604	3		1	12	
Enzyme	Helicase	EIF4A2	IPI00409717					4
Enzyme	Helicase	ERCC2	IPI00029728	102		94	189	63
Enzyme	Helicase	ERCC3	IPI00291364	10		7	19	

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				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Helicase	G3BP	IPI00012442	9		6	3	16
Enzyme	Helicase	GTF2F2	IPI00477686	5				
Enzyme	Helicase	LBA1	IPI00307684				7	18
Enzyme	Helicase	MOV10	IPI00719207			1		
Enzyme	Helicase	RUVBL1	IPI00021187	5			4	
Enzyme	Helicase	RUVBL2	IPI00009104	3				
Enzyme	Helicase	SKIV2L2	IPI00647217					8
Enzyme	Helicase	SMARCA3	IPI00339381					1
Enzyme	Helicase	SMARCA4	IPI00293426					4
Enzyme	Helicase	XRCC5	IPI00220834	11	3	10	20	7
Enzyme	Helicase	XRCC6	IPI00644712	5	5	6		
Enzyme	Hydrolase	37500	IPI00014177		2			4
Enzyme	Hydrolase	40057	IPI00412206		5			4
Enzyme	Hydrolase	ABCE1	IPI00303207			4	2	3
Enzyme	Hydrolase	ABHD3	IPI00012409					2
Enzyme	Hydrolase	ABHD14B	IPI00063827		5	2	2	3
Enzyme	Hydrolase	ACAD10	IPI00418639	1		2	6	4
Enzyme	Hydrolase	ACIN1	IPI00007334	1				
Enzyme	Hydrolase	ACOT8	IPI00298202					3
Enzyme	Hydrolase	ACP1	IPI00218847	1	5	4	10	10
Enzyme	Hydrolase	ACY1L2	IPI00217852	1		2		
Enzyme	Hydrolase	ACYP2	IPI00216461				1	3
Enzyme	Hydrolase	ADAM12	IPI00415037		41			
Enzyme	Hydrolase	ADAM17	IPI00288894					10
Enzyme	Hydrolase	ADAMTS14	IPI00219598					1
Enzyme	Hydrolase	ADAMTSL4	IPI00374068		3		1	
Enzyme	Hydrolase	AFG3L2	IPI00001091	6		6	6	8
Enzyme	Hydrolase	AHCY	IPI00646823	2			9	12
Enzyme	Hydrolase	AHCYL1	IPI00182938	5	1			2
Enzyme	Hydrolase	AICDA	IPI00010186					3
Enzyme	Hydrolase	ALPP	IPI00007289	8	26			
Enzyme	Hydrolase	APEH	IPI00337741	3	3	5	6	5
Enzyme	Hydrolase	APOBEC3C	IPI00555878				4	4
Enzyme	Hydrolase	ARF4	IPI00215918		10		3	
Enzyme	Hydrolase	ARF5	IPI00215919		1			
Enzyme	Hydrolase	ARG1	IPI00398768			2		
Enzyme	Hydrolase	ARL8B	IPI00018871		7			
Enzyme	Hydrolase	ASAH1	IPI00418446				12	
Enzyme	Hydrolase	ATAD3B	IPI00306048	8	6	24	7	37
Enzyme	Hydrolase	ATG4B	IPI00554458					2
Enzyme	Hydrolase	ATP6	IPI00552036					3
Enzyme	Hydrolase	BLMH	IPI00219575			1		
Enzyme	Hydrolase	C1orf57	IPI00514501			3		
Enzyme	Hydrolase	C17orf27	IPI00470478	28	20	221	168	
Enzyme	Hydrolase	CAPN1	IPI00011285		7	2	6	
Enzyme	Hydrolase	CAPN2	IPI00289758	9	7		3	
Enzyme	Hydrolase	CAPN6	IPI00002547		26			
Enzyme	Hydrolase	CAPNS1	IPI00025084	2	3		5	
Enzyme	Hydrolase	CASP2	IPI00291570	2				1
Enzyme	Hydrolase	CASP3	IPI00292140			1	1	1
Enzyme	Hydrolase	CASP14	IPI00013885	4	1	1		16
Enzyme	Hydrolase	CCT8	IPI00302925	11	6	7	7	10
Enzyme	Hydrolase	CDC42	IPI00385447		3	1	4	7
Enzyme	Hydrolase	CDC91L1	IPI00026044			3		4
Enzyme	Hydrolase	COG8	IPI00007060				1	
Enzyme	Hydrolase	CPD	IPI00027078					4
Enzyme	Hydrolase	CTSB	IPI00295741		5		3	2
Enzyme	Hydrolase	CTSC	IPI00022810	1			3	
Enzyme	Hydrolase	CTSD	IPI00011229	11	26		7	3
Enzyme	Hydrolase	CTSZ	IPI00002745		4		5	
Enzyme	Hydrolase	DCTD	IPI00554705				3	
Enzyme	Hydrolase	DFFA	IPI00010882				1	
Enzyme	Hydrolase	DLG1	IPI00218729		3			
Enzyme	Hydrolase	DNM1	IPI00413140		1			
Enzyme	Hydrolase	DNPEP	IPI00015856				5	
Enzyme	Hydrolase	DPP4	IPI00018953		10			
Enzyme	Hydrolase	DPYSL2	IPI00106642		21	6	1	1
Enzyme	Hydrolase	DUSP3	IPI00018671		1			
Enzyme	Hydrolase	DUSP12	IPI00009210	2				
Enzyme	Hydrolase	EFTUD2	IPI00003519			1	4	
Enzyme	Hydrolase	EHD1	IPI00017184		8			5
Enzyme	Hydrolase	EHD2	IPI00100980		3			
Enzyme	Hydrolase	EML1	IPI00550611		4			
Enzyme	Hydrolase	ENDOD1	IPI00001952		2			
Enzyme	Hydrolase	ERCC5	IPI00477535	18			2	
Enzyme	Hydrolase	EXOSC4	IPI00218310	1		1	1	2
Enzyme	Hydrolase	FEN1	IPI00026215				2	3
Enzyme	Hydrolase	FLJ11151	IPI00305010		6		1	
Enzyme	Hydrolase	FLJ25084	IPI00102281					1
Enzyme	Hydrolase	FUCA1	IPI00299026		2			
Enzyme	Hydrolase	GAA	IPI00293088		4			
Enzyme	Hydrolase	GALC	IPI00008790		1		42	
Enzyme	Hydrolase	GANAB	IPI00011454	14	19	12	19	2
Enzyme	Hydrolase	GBE1	IPI00296635	4				
Enzyme	Hydrolase	GCS1	IPI00328170		9			
Enzyme	Hydrolase	GDA	IPI00465184		4			
Enzyme	Hydrolase	GNA12	IPI00328744		2			
Enzyme	Hydrolase	GNA13	IPI00290928					2
Enzyme	Hydrolase	GNAI2	IPI00465121		5			12
Enzyme	Hydrolase	GNAI3	IPI00220578					2
Enzyme	Hydrolase	HAGH	IPI00003933			4		
Enzyme	Hydrolase	HARS2	IPI00152692	1				
Enzyme	Hydrolase	HDHD3	IPI00009931			3		
Enzyme	Hydrolase	HEXB	IPI00647065		3		2	
Enzyme	Hydrolase	HIBCH	IPI00419802				2	
Enzyme	Hydrolase	HINT1	IPI00239077	6		10	10	8
Enzyme	Hydrolase	HINT2	IPI00000335					3
Enzyme	Hydrolase	HM13	IPI00220687					1
Enzyme	Hydrolase	HP	IPI00641737		6			
Enzyme	Hydrolase	HPR	IPI00607707		2			
Enzyme	Hydrolase	HRSP12	IPI00005038				1	
Enzyme	Hydrolase	HTRA2	IPI00001663	4			1	14
Enzyme	Hydrolase	INPP4A	IPI00645392			6		
Enzyme	Hydrolase	INPP5D	IPI00329213					4
Enzyme	Hydrolase	INPPL1	IPI00016932				265	
Enzyme	Hydrolase	ISG20	IPI00647246					14
Enzyme	Hydrolase	ITPA	IPI00018783			3		
Enzyme	Hydrolase	KATNA1	IPI00013075					2
Enzyme	Hydrolase	KIAA0195	IPI00431263	32		3	5	33
Enzyme	Hydrolase	KLKB1	IPI00008558		1			

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				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Hydrolase	KYNU	IPI00003818	1				
Enzyme	Hydrolase	LGMN	IPI00293303		4			
Enzyme	Hydrolase	LNPEP	IPI00307017		21			3
Enzyme	Hydrolase	LOC134147	IPI00383046	10			19	
Enzyme	Hydrolase	LOC221955	IPI00385987		2			
Enzyme	Hydrolase	LOC283871	IPI00177008	2				
Enzyme	Hydrolase	LOC285148	IPI00419194		5	6		12
Enzyme	Hydrolase	LRAP	IPI00465261			5		
Enzyme	Hydrolase	LYPLA1	IPI00007321		6		11	7
Enzyme	Hydrolase	LYPLA2	IPI00027032	4		10	4	5
Enzyme	Hydrolase	LYZ	IPI00019038		3			3
Enzyme	Hydrolase	MACF1	IPI00432363				67	11
Enzyme	Hydrolase	MCM2	IPI00184330				4	
Enzyme	Hydrolase	MCM3	IPI00013214	4		17	11	10
Enzyme	Hydrolase	MCM4	IPI00018349	4			1	1
Enzyme	Hydrolase	MCM5	IPI00018350	10		14	17	13
Enzyme	Hydrolase	MCM6	IPI00031517	3			4	1
Enzyme	Hydrolase	MCM7	IPI00299904	9		15	7	13
Enzyme	Hydrolase	MDN1	IPI00167941	202		181	225	201
Enzyme	Hydrolase	MICROSOMAL SIGNAL PEPTIDASE 18 KDA SUBUNIT.	IPI00104128				3	
Enzyme	Hydrolase	MSH6	IPI00384456	25			6	36
Enzyme	Hydrolase	NDUFS3	IPI00174190		2		1	2
Enzyme	Hydrolase	NIT1	IPI00456664		2			
Enzyme	Hydrolase	NPEPPS	IPI00026216	3	5			
Enzyme	Hydrolase	NRD1	IPI00243221					4
Enzyme	Hydrolase	NT5DC2	IPI00009662			6	1	1
Enzyme	Hydrolase	NTE	IPI00640818			12		
Enzyme	Hydrolase	NUDT1	IPI00004392				3	10
Enzyme	Hydrolase	NUDT14	IPI00412878	40	46	15	10	4
Enzyme	Hydrolase	NUDT18	IPI00217911		8			2
Enzyme	Hydrolase	OPA1	IPI00107753	20	28	15	37	18
Enzyme	Hydrolase	OSGEP	IPI00015809					2
Enzyme	Hydrolase	OTUB1	IPI00000581	6	5		5	6
Enzyme	Hydrolase	OTUB1	IPI00409750		2			
Enzyme	Hydrolase	PAFAH1B2	IPI00026546		1			
Enzyme	Hydrolase	PAPPA	IPI00001869		9			
Enzyme	Hydrolase	PARG	IPI00470743					1
Enzyme	Hydrolase	PGLS	IPI00029997	4	5	5	5	6
Enzyme	Hydrolase	PGPEP1	IPI00020539				1	
Enzyme	Hydrolase	PHPT1	IPI00299977				1	
Enzyme	Hydrolase	PIGS	IPI00465308	1				
Enzyme	Hydrolase	PIGT	IPI00100030			2		
Enzyme	Hydrolase	PLCG2	IPI00329185					33
Enzyme	Hydrolase	PLD3	IPI00328243		6			
Enzyme	Hydrolase	PLGLB1	IPI00019580		32			
Enzyme	Hydrolase	PMPCA	IPI00166749	1			1	
Enzyme	Hydrolase	PMPCB	IPI00289535				3	
Enzyme	Hydrolase	POLD1	IPI00655631			3		4
Enzyme	Hydrolase	PPA1	IPI00015018	1			3	3
Enzyme	Hydrolase	PPM1G	IPI00006167	3		2		1
Enzyme	Hydrolase	PPP1CA	IPI00027423				3	7
Enzyme	Hydrolase	PPP1CB	IPI00218236		11		3	3
Enzyme	Hydrolase	PPP1CC	IPI00218187	4				8
Enzyme	Hydrolase	PPP2CA	IPI00008380	7	7	5	8	27
Enzyme	Hydrolase	PPP3CB	IPI00027809					7
Enzyme	Hydrolase	PPP5C	IPI00019812			4		
Enzyme	Hydrolase	PPP6C	IPI00012970	9	1	7	5	16
Enzyme	Hydrolase	PPT1	IPI00002412		3	2	5	1
Enzyme	Hydrolase	PRKAB1	IPI00220409	68	88	168	143	123
Enzyme	Hydrolase	PROTEASOME BETA 2 SUBUNIT VARIANT (FRAGMENT).	IPI00555590		1			
Enzyme	Hydrolase	PRSS15	IPI00005158				5	
Enzyme	Hydrolase	PSARL	IPI00060545	1	1	1		2
Enzyme	Hydrolase	PSMA1	IPI00472442	4		2	3	
Enzyme	Hydrolase	PSMA2	IPI00219622					3
Enzyme	Hydrolase	PSMA3	IPI00419249		2	1		
Enzyme	Hydrolase	PSMA4	IPI00639869	3		3	5	
Enzyme	Hydrolase	PSMA5	IPI00291922	3	7	3	3	6
Enzyme	Hydrolase	PSMA6	IPI00029623	3		5	4	2
Enzyme	Hydrolase	PSMA7	IPI00024175	4	4	7	7	2
Enzyme	Hydrolase	PSMB1	IPI00025019				8	3
Enzyme	Hydrolase	PSMB2	IPI00028006			5	5	8
Enzyme	Hydrolase	PSMB3	IPI00028004				4	
Enzyme	Hydrolase	PSMB4	IPI00555956		1	2		3
Enzyme	Hydrolase	PSMB5	IPI00375704		2	1	10	2
Enzyme	Hydrolase	PSMB5	IPI00383971	1				
Enzyme	Hydrolase	PSMB6	IPI00000811		2	1	1	2
Enzyme	Hydrolase	PSMB7	IPI00003217	2		1		
Enzyme	Hydrolase	PSMB8	IPI00000783				1	4
Enzyme	Hydrolase	PSMB9	IPI00000787		1			
Enzyme	Hydrolase	PSMC1	IPI00011126	3				
Enzyme	Hydrolase	PSMC2	IPI00021435		1		3	
Enzyme	Hydrolase	PSMC4	IPI00020042	2				
Enzyme	Hydrolase	PSMC6	IPI00021926					5
Enzyme	Hydrolase	PSMD6	IPI00655672					3
Enzyme	Hydrolase	PTER	IPI00100933	5	3		3	
Enzyme	Hydrolase	PTPN11	IPI00658023				2	
Enzyme	Hydrolase	PTPN12	IPI00289082		1			
Enzyme	Hydrolase	PTPN18	IPI00219132			2	4	15
Enzyme	Hydrolase	QPCT	IPI00003919					11
Enzyme	Hydrolase	RAB3B	IPI00300562		6			
Enzyme	Hydrolase	RAB3D	IPI00032808		2			
Enzyme	Hydrolase	RAB4B	IPI00187143		2			
Enzyme	Hydrolase	RAB5A	IPI00023510		3			
Enzyme	Hydrolase	RAB5C	IPI00016339	3	8	4	6	2
Enzyme	Hydrolase	RAB6A	IPI00217943		7	2		
Enzyme	Hydrolase	RAB7	IPI00016342		3			
Enzyme	Hydrolase	RAB11B	IPI00020436		4		3	2
Enzyme	Hydrolase	RAB14	IPI00291928		10	10	6	13
Enzyme	Hydrolase	RAB18	IPI00556060		4	3		8
Enzyme	Hydrolase	RAB27A	IPI00016381				5	
Enzyme	Hydrolase	RAB38	IPI00027981		1			
Enzyme	Hydrolase	RAC1	IPI00555566		14			
Enzyme	Hydrolase	RAC2	IPI00010270			8		
Enzyme	Hydrolase	RAD50	IPI00549205	7		5		14
Enzyme	Hydrolase	RBBP4	IPI00328319	3			4	
Enzyme	Hydrolase	RCE1	IPI00031755			1		2
Enzyme	Hydrolase	RFC2	IPI00017412					2
Enzyme	Hydrolase	RFC3	IPI00031521	4	1			
Enzyme	Hydrolase	RFC4	IPI00017381					4
Enzyme	Hydrolase	RIF1	IPI00477805					22

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				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Hydrolase	RNASET2	IPI00299103				2	
Enzyme	Hydrolase	RNGTT	IPI00000104	1				
Enzyme	Hydrolase	RNPEP	IPI00642211				4	
Enzyme	Hydrolase	RP11-125A7 3	IPI00158296	4		6		7
Enzyme	Hydrolase	RRAS	IPI00020418		1			
Enzyme	Hydrolase	SAR1A	IPI00015954					3
Enzyme	Hydrolase	SEC11L1	IPI00385214		7	3		4
Enzyme	Hydrolase	SEC11L3	IPI00219436					5
Enzyme	Hydrolase	SGPP1	IPI00306840					1
Enzyme	Hydrolase	SIRT3	IPI00183171	7	2	2	3	2
Enzyme	Hydrolase	SPCS2	IPI00472939	1	8	3	4	6
Enzyme	Hydrolase	SPCS3	IPI00300299		4			3
Enzyme	Hydrolase	ST14	IPI00001922		4			7
Enzyme	Hydrolase	STS	IPI00307433		5			
Enzyme	Hydrolase	TA-PP2C	IPI00169326					1
Enzyme	Hydrolase	TGM3	IPI00300376				3	
Enzyme	Hydrolase	THEM2	IPI00020530				1	1
Enzyme	Hydrolase	THOP1	IPI00549189	3				2
Enzyme	Hydrolase	TIMM50	IPI00418497	14	3	7	9	14
Enzyme	Hydrolase	TNS3	IPI00658152	19	10			
Enzyme	Hydrolase	TPP1	IPI00298237				1	
Enzyme	Hydrolase	TPP2	IPI00640197			4		11
Enzyme	Hydrolase	TYSND1	IPI00303214					4
Enzyme	Hydrolase	UCHL3	IPI00011250					7
Enzyme	Hydrolase	USP5	IPI00024664	3			4	4
Enzyme	Hydrolase	USP7	IPI00003965			3		
Enzyme	Hydrolase	USP9X	IPI00221012	14	17	6	40	14
Enzyme	Hydrolase	USP11	IPI00184533			6		
Enzyme	Hydrolase	USP15	IPI00000728				4	
Enzyme	Hydrolase	USP22	IPI00010365			5		4
Enzyme	Hydrolase	USP24	IPI00398505			6	35	6
Enzyme	Hydrolase	USP34	IPI00297593	3		8	5	63
Enzyme	Hydrolase	XRN2	IPI00100151			1		
Enzyme	Hydrolase	YME1L1	IPI00045946					5
Enzyme	Isomerase	BPGM	IPI00215979		8			
Enzyme	Isomerase	DCI	IPI00300567		2		5	
Enzyme	Isomerase	DHRS9	IPI00024782				2	
Enzyme	Isomerase	ECH1	IPI00011416	19	10	3	1	
Enzyme	Isomerase	ERP29	IPI00024911	3	7		4	2
Enzyme	Isomerase	FKBP2	IPI00002535		2			1
Enzyme	Isomerase	FKBP4	IPI00219005	4			3	
Enzyme	Isomerase	FKBP11	IPI00009885					7
Enzyme	Isomerase	HSD3B2	IPI00246994		24			
Enzyme	Isomerase	IDI1	IPI00220014	1				2
Enzyme	Isomerase	ISYNA1	IPI00549569		9			
Enzyme	Isomerase	ITPK1	IPI00296589	3				
Enzyme	Isomerase	KIAA0674	IPI00401282					2
Enzyme	Isomerase	LSS	IPI00009747	5				
Enzyme	Isomerase	MUTED	IPI00171438	1			4	5
Enzyme	Isomerase	P4HB	IPI00550984	7	28		4	
Enzyme	Isomerase	PDIA3	IPI00025252	4	37	1	5	1
Enzyme	Isomerase	PDIA4	IPI00009904	17	8		1	1
Enzyme	Isomerase	PDIA5	IPI00031479		2			
Enzyme	Isomerase	PDIA6	IPI00299571	3			8	
Enzyme	Isomerase	PECI	IPI00639841	6				
Enzyme	Isomerase	PGAM1	IPI00549725	4	10		4	7
Enzyme	Isomerase	PGM1	IPI00217872	2	6			
Enzyme	Isomerase	PGM3	IPI00030116				5	9
Enzyme	Isomerase	PIN1	IPI00013723				2	
Enzyme	Isomerase	PIN4	IPI00006658	6		5	3	
Enzyme	Isomerase	PPIA	IPI00480133	8	32	24	53	56
Enzyme	Isomerase	PPIB	IPI00646304	4	41	9	13	17
Enzyme	Isomerase	PPIF	IPI00026519				2	2
Enzyme	Isomerase	PPIH	IPI00007346				3	4
Enzyme	Isomerase	PPIL1	IPI00007019				6	2
Enzyme	Isomerase	PPIL3	IPI00032473				1	1
Enzyme	Isomerase	PTGES	IPI00297858	1	2			
Enzyme	Isomerase	PTGES3	IPI00015029		4	2	7	3
Enzyme	Isomerase	RPIA	IPI00026513					2
Enzyme	Isomerase	SIMILAR TO MYO-INOSITOL 1-PHOSPHATE SYNTHASE A1.	IPI00145386				1	
Enzyme	Isomerase	SRR	IPI00030328				1	
Enzyme	Isomerase	TPI1	IPI00465028	23	32	4	17	18
Enzyme	Ligase	37316	IPI00062839					3
Enzyme	Ligase	AARS	IPI00027442				10	
Enzyme	Ligase	ACACA	IPI00396015	26		16	15	32
Enzyme	Ligase	ACSL3	IPI00031397	3	7		5	
Enzyme	Ligase	ACSM3	IPI00297635				9	
Enzyme	Ligase	ACSS2	IPI00549564	6				
Enzyme	Ligase	ANAPC2	IPI00002549	12		15	3	7
Enzyme	Ligase	ANAPC4	IPI00002551	19		17	16	10
Enzyme	Ligase	ANAPC5	IPI00008247	51		25	16	33
Enzyme	Ligase	ANAPC10	IPI00007088			8	9	13
Enzyme	Ligase	ANAPC11	IPI00401969					2
Enzyme	Ligase	APPBP1	IPI00646350		1			
Enzyme	Ligase	ASNS	IPI00554777				2	18
Enzyme	Ligase	C20orf129	IPI00480103	3		3		4
Enzyme	Ligase	CARS	IPI00027443				6	3
Enzyme	Ligase	CBLB	IPI00292856				6	
Enzyme	Ligase	CDC23	IPI00005822	24		28	26	26
Enzyme	Ligase	CTPS	IPI00290142	12		22	3	13
Enzyme	Ligase	CTPS2	IPI00514016	3				
Enzyme	Ligase	DARS	IPI00216951	13		10	9	7
Enzyme	Ligase	EDD1	IPI00026320				4	58
Enzyme	Ligase	ELOVL5	IPI00556024	4		4		3
Enzyme	Ligase	EPRS	IPI00013452	111	4	32	52	50
Enzyme	Ligase	FARSLA	IPI00031820	1	3	11	7	9
Enzyme	Ligase	FARSLB	IPI00300074		4		6	15
Enzyme	Ligase	FBXO2	IPI00479583	1				
Enzyme	Ligase	FBXW11	IPI00328796	1				4
Enzyme	Ligase	GARS	IPI00465260	12			11	19
Enzyme	Ligase	GCLM	IPI00010090	5	2			1
Enzyme	Ligase	HECTD3	IPI00456642					1
Enzyme	Ligase	HIP2	IPI00021370				1	
Enzyme	Ligase	HUWE1	IPI00456919	35	4	22	7	29
Enzyme	Ligase	IARS	IPI00644127	30	3	17	28	39
Enzyme	Ligase	KARS	IPI00307092	16		17	2	
Enzyme	Ligase	LARS	IPI00103994	13		6	21	13
Enzyme	Ligase	LARS2	IPI00014213				1	
Enzyme	Ligase	LOC197322	IPI00166395			8		9
Enzyme	Ligase	LOC343515	IPI00457304					1

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				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Ligase	MARS	IPI00008240	14	2	21	20	22
Enzyme	Ligase	MCCC2	IPI00412253	2		2	14	8
Enzyme	Ligase	MTHFD1L	IPI00291646			6	3	
Enzyme	Ligase	MYCBP2	IPI00289776	6		12		19
Enzyme	Ligase	NADSYN1	IPI00306689	1				
Enzyme	Ligase	NARS	IPI00306960					4
Enzyme	Ligase	PARS2	IPI00553006				4	
Enzyme	Ligase	PPIL2	IPI00217324					8
Enzyme	Ligase	PRPS1	IPI00719564	3				4
Enzyme	Ligase	PRPS2	IPI00718888	1				
Enzyme	Ligase	QARS	IPI00026665	19	6	3	15	12
Enzyme	Ligase	RARS	IPI00004860	10	2		4	2
Enzyme	Ligase	RARSL	IPI00549566					3
Enzyme	Ligase	RBAF600	IPI00643014	24		16	76	22
Enzyme	Ligase	RNF5	IPI00012608			2	2	2
Enzyme	Ligase	SLC27A4	IPI00412147			4		
Enzyme	Ligase	SUCLG1	IPI00295625	1	2		2	2
Enzyme	Ligase	SUCLG2	IPI00096066				3	
Enzyme	Ligase	TARS	IPI00329633	11			12	
Enzyme	Ligase	TARSL1	IPI00604527	7				
Enzyme	Ligase	TRAF7	IPI00395631	76	14	18	10	21
Enzyme	Ligase	UBE1	IPI00645078		3	8	3	
Enzyme	Ligase	UBE2C	IPI00013002					1
Enzyme	Ligase	UBE2G2	IPI00010142				2	1
Enzyme	Ligase	UBE2I	IPI00450472				3	
Enzyme	Ligase	UBE2J1	IPI00477999					3
Enzyme	Ligase	UBE2L3	IPI00655957				11	
Enzyme	Ligase	UBE2L6	IPI00329563		10	10	11	21
Enzyme	Ligase	UBE2M	IPI00022597				4	3
Enzyme	Ligase	UBE2N	IPI00003949		1		6	4
Enzyme	Ligase	UBE2NL	IPI00376844	1	1	2		3
Enzyme	Ligase	UBE2O	IPI00028307	9				4
Enzyme	Ligase	UBE2Z	IPI00011996		2			
Enzyme	Ligase	UBE3A	IPI00011609			5		1
Enzyme	Ligase	UBE4A	IPI00028957			1		2
Enzyme	Ligase	UBR1	IPI00217405	4		2		
Enzyme	Ligase	UBR2	IPI00217407	3		9		
Enzyme	Ligase	UCHL1	IPI00018352					8
Enzyme	Ligase	VARS	IPI00000873	9			13	15
Enzyme	Ligase	WARS	IPI00295400		2			
Enzyme	Lyase	ACO2	IPI00017855				5	
Enzyme	Lyase	ALAD	IPI00442121		2			
Enzyme	Lyase	ALDOA	IPI00465439	9	9	6	17	13
Enzyme	Lyase	C17orf25	IPI00032575		6	1	2	2
Enzyme	Lyase	CA1	IPI00215983		9			
Enzyme	Lyase	CA2	IPI00218414		2			
Enzyme	Lyase	CBS	IPI00219649			1	7	13
Enzyme	Lyase	CTH	IPI00031557				1	1
Enzyme	Lyase	ECHS1	IPI00024993	3			3	
Enzyme	Lyase	ENO1	IPI00465248	18	4		31	11
Enzyme	Lyase	FASN	IPI00026781	105	18	36	91	143
Enzyme	Lyase	FECH	IPI00554589	81	15	118	297	49
Enzyme	Lyase	FH	IPI00296053				5	
Enzyme	Lyase	GMDS	IPI00030207	7	5	2	8	12
Enzyme	Lyase	HADHA	IPI00031522	20	11	5	16	12
Enzyme	Lyase	HADHB	IPI00022793	4	2		12	
Enzyme	Lyase	HCCS	IPI00023406	11		5	6	7
Enzyme	Lyase	HMGCL	IPI00293564		5		3	2
Enzyme	Lyase	KIDINS220	IPI00033429	3				6
Enzyme	Lyase	LTC4S	IPI00004509		8			
Enzyme	Motor - dynein	DYNC1H1	IPI00477531	155	188	152	361	253
Enzyme	Motor - dynein	DYNC1I2	IPI00302712	2			3	2
Enzyme	Motor - dynein	DYNLL2	IPI00019329	23	16	3	25	64
Enzyme	Motor - dynein	DYNLRB1	IPI00412497				1	
Enzyme	Motor - dynein	DYNLRB2	IPI00178188					1
Enzyme	Motor - dynein	DYNLT1	IPI00019495				2	
Enzyme	Motor - dynein	DYNLT3	IPI00639982	2	2		2	1
Enzyme	Motor - kinesin	KIF2C	IPI00290435	1		5	6	5
Enzyme	Motor - kinesin	KIF4A	IPI00178150	2				6
Enzyme	Motor - kinesin	KIF5B	IPI00012837		10	4	4	
Enzyme	Motor - kinesin	KIF21A	IPI00425409	1				
Enzyme	Motor - kinesin	KIFC1	IPI00306400					1
Enzyme	Motor - myosin	MYL4	IPI00386712				1	
Enzyme	Motor - myosin	MYL6	IPI00473069	6	6	8	2	9
Enzyme	Motor - myosin	MYL9	IPI00220278		3			
Enzyme	Motor - myosin	MYO9B	IPI00336047					7
Enzyme	Motor - myosin	MYO15B	IPI00306532					3
Enzyme	Motor - myosin	SIMILAR TO MYOSIN REGULATORY LIGHT CHAIN-LIKE.	IPI00087597			2		
Enzyme	Motor - other	CENPE	IPI00296365					7
Enzyme	Motor - other	SMC1L1	IPI00291939			1		3
Enzyme	Oxydoreductase	ACAD8	IPI00446874				3	1
Enzyme	Oxydoreductase	ACAD9	IPI00152981					3
Enzyme	Oxydoreductase	ACADS	IPI00027701		1			
Enzyme	Oxydoreductase	ACADVL	IPI00028031	5	19			
Enzyme	Oxydoreductase	ACOX1	IPI00296907				7	
Enzyme	Oxydoreductase	ACOX3	IPI00020226	81	425	166	132	41
Enzyme	Oxydoreductase	AKR1B1	IPI00413641		12			4
Enzyme	Oxydoreductase	AKR1C3	IPI00641279	1				
Enzyme	Oxydoreductase	ALDH2	IPI00006663				5	
Enzyme	Oxydoreductase	ALDH3A2	IPI00394758	9				
Enzyme	Oxydoreductase	ALDH7A1	IPI00221234		2			
Enzyme	Oxydoreductase	ALDH18A1	IPI00008982				5	9
Enzyme	Oxydoreductase	AOC3	IPI00004457		5			
Enzyme	Oxydoreductase	BDH1	IPI00025341			5		9
Enzyme	Oxydoreductase	BLVRB	IPI00219910		10		8	
Enzyme	Oxydoreductase	CBR1	IPI00295386	7	11		3	
Enzyme	Oxydoreductase	CBR4	IPI00384297					2
Enzyme	Oxydoreductase	CPOX	IPI00093057		18		5	1
Enzyme	Oxydoreductase	CYB5R1	IPI00470674		11			
Enzyme	Oxydoreductase	CYB5R3	IPI00328415.		1			
Enzyme	Oxydoreductase	CYCS	IPI00465315	4				
Enzyme	Oxydoreductase	CYP2J2	IPI00019411		2			
Enzyme	Oxydoreductase	CYP11A1	IPI00295771		43			
Enzyme	Oxydoreductase	CYP19A1	IPI00465065		21			
Enzyme	Oxydoreductase	CYTOCHROME C.	IPI00465315		2		8	1
Enzyme	Oxydoreductase	DCXR	IPI00448095			4	1	6
Enzyme	Oxydoreductase	DECR1	IPI00003482			1	5	4
Enzyme	Oxydoreductase	DECR2	IPI00010190	10		7		
Enzyme	Oxydoreductase	DHCR7	IPI00294501	37	2	8	5	26
Enzyme	Oxydoreductase	DHRS1	IPI00065063	1				

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Oxydoreductase	DHRS2	IPI00376377		3			
Enzyme	Oxydoreductase	DHRS7B	IPI00550165		1			
Enzyme	Oxydoreductase	DLD	IPI00015911		1		7	4
Enzyme	Oxydoreductase	DNAJC10	IPI00293260	11	16	24	36	47
Enzyme	Oxydoreductase	ERO1L	IPI00479733		3	4		
Enzyme	Oxydoreductase	ETFA	IPI00010810		7		6	
Enzyme	Oxydoreductase	ETFB	IPI00556451		3		4	
Enzyme	Oxydoreductase	FADS1	IPI00396229					2
Enzyme	Oxydoreductase	FADS2	IPI00183786					6
Enzyme	Oxydoreductase	FDFT1	IPI00020944	3		3	5	7
Enzyme	Oxydoreductase	FDX1	IPI00019326		3			
Enzyme	Oxydoreductase	FN1	IPI00339227		85			
Enzyme	Oxydoreductase	FVT1	IPI00029015		3			
Enzyme	Oxydoreductase	G6PD	IPI00216008	7		10		
Enzyme	Oxydoreductase	GAPDH	IPI00219018	46	46	28	32	41
Enzyme	Oxydoreductase	GCDH	IPI00024317	4			4	7
Enzyme	Oxydoreductase	GLUD1	IPI00016801	4			3	
Enzyme	Oxydoreductase	GPD1L	IPI00032959		1			
Enzyme	Oxydoreductase	GPD2	IPI00017895	17	6			
Enzyme	Oxydoreductase	GSR	IPI00016862	3	4	3	8	
Enzyme	Oxydoreductase	GSTO1	IPI00019755			3		
Enzyme	Oxydoreductase	HADH2	IPI00017726	5	16	7	4	24
Enzyme	Oxydoreductase	HIBADH	IPI00479966		5			
Enzyme	Oxydoreductase	HMOX1	IPI00215893		1			
Enzyme	Oxydoreductase	HMOX2	IPI00026824	5		4	1	6
Enzyme	Oxydoreductase	HSD11B2	IPI00300050		31			
Enzyme	Oxydoreductase	HSD17B1	IPI00719246		47			
Enzyme	Oxydoreductase	HSD17B2	IPI00019872		15			
Enzyme	Oxydoreductase	HSD17B12	IPI00007676	8	6			7
Enzyme	Oxydoreductase	HSDL2	IPI00414384	4			3	2
Enzyme	Oxydoreductase	IDH1	IPI00027223	1			2	
Enzyme	Oxydoreductase	IDH2	IPI00011107			1	5	
Enzyme	Oxydoreductase	IDH3A	IPI00030702				1	2
Enzyme	Oxydoreductase	IPI00177674.1	IPI00177674	1	2			
Enzyme	Oxydoreductase	JMJD1A	IPI00479179					3
Enzyme	Oxydoreductase	LDHA	IPI00217966	8	11		9	19
Enzyme	Oxydoreductase	LDHB	IPI00219217	8	3	5	9	14
Enzyme	Oxydoreductase	LDHC	IPI00554498		2			
Enzyme	Oxydoreductase	LEPREL2	IPI00217056		9		5	
Enzyme	Oxydoreductase	MAOA	IPI00008483		16			
Enzyme	Oxydoreductase	MDH1	IPI00291005	4	2		5	3
Enzyme	Oxydoreductase	MDH2	IPI00291006	6	19		10	9
Enzyme	Oxydoreductase	MGC23280	IPI00059955					1
Enzyme	Oxydoreductase	MSRB3	IPI00479793		3			
Enzyme	Oxydoreductase	ND3	IPI00071334				1	2
Enzyme	Oxydoreductase	ND4	IPI00008495					8
Enzyme	Oxydoreductase	ND5	IPI00008511					2
Enzyme	Oxydoreductase	NDUFA4	IPI00011770	2			3	5
Enzyme	Oxydoreductase	NDUFA5	IPI00412545	4		2	3	2
Enzyme	Oxydoreductase	NDUFA8	IPI00219034			3	4	
Enzyme	Oxydoreductase	NDUFA11	IPI00329301					3
Enzyme	Oxydoreductase	NDUFA12	IPI00005966					3
Enzyme	Oxydoreductase	NDUFA13	IPI00219685			1		4
Enzyme	Oxydoreductase	NDUFB4	IPI00220059					3
Enzyme	Oxydoreductase	NDUFB5	IPI00013459					2
Enzyme	Oxydoreductase	NDUFB9	IPI00255052				1	4
Enzyme	Oxydoreductase	NDUFB10	IPI00479905			4		5
Enzyme	Oxydoreductase	NDUFB11	IPI00478450			1	1	3
Enzyme	Oxydoreductase	NDUFS3	IPI00025796					5
Enzyme	Oxydoreductase	NDUFS7	IPI00307749			4		
Enzyme	Oxydoreductase	NDUFS7	IPI00385965				2	4
Enzyme	Oxydoreductase	NDUFS8	IPI00010845					1
Enzyme	Oxydoreductase	NOS3	IPI00218845		8			
Enzyme	Oxydoreductase	NQO1	IPI00012069	61	43	38	69	
Enzyme	Oxydoreductase	NQO2	IPI00219129	1392	355	2445	4641	136
Enzyme	Oxydoreductase	P4HA1	IPI00009923			5		11
Enzyme	Oxydoreductase	PDCD8	IPI00000690	5	3	7	17	8
Enzyme	Oxydoreductase	PDHA1	IPI00306301	41		16	48	51
Enzyme	Oxydoreductase	PDHB	IPI00003925	46	34	25	36	57
Enzyme	Oxydoreductase	PGD	IPI00219525	2			6	
Enzyme	Oxydoreductase	PHGDH	IPI00011200	12		9	17	12
Enzyme	Oxydoreductase	PNPO	IPI00018272				1	
Enzyme	Oxydoreductase	POR	IPI00470467		4			
Enzyme	Oxydoreductase	PYCR1	IPI00550882	2			4	4
Enzyme	Oxydoreductase	PYCRL	IPI00646105	2		2	2	4
Enzyme	Oxydoreductase	PYRROLINE 5-CARBOXYLATE REDUCTASE.	IPI00470610				2	
Enzyme	Oxydoreductase	RDH10	IPI00218086		1			
Enzyme	Oxydoreductase	RDH11	IPI00339384			10		9
Enzyme	Oxydoreductase	RDH13	IPI00301204		3			
Enzyme	Oxydoreductase	RetSat	IPI00296157	2				
Enzyme	Oxydoreductase	RRM1	IPI00013871	9			5	8
Enzyme	Oxydoreductase	RRM2	IPI00011118					7
Enzyme	Oxydoreductase	RRM2B	IPI00100213					6
Enzyme	Oxydoreductase	SC4MOL	IPI00019899			1		2
Enzyme	Oxydoreductase	SDHA	IPI00305166	4	15	19	13	25
Enzyme	Oxydoreductase	SDHB	IPI00294911		3	3		7
Enzyme	Oxydoreductase	SEPX1	IPI00654889				1	
Enzyme	Oxydoreductase	SIMILAR TO CYTOCHROME C.	IPI00176698			1		
Enzyme	Oxydoreductase	SOD1	IPI00218733		5		3	
Enzyme	Oxydoreductase	SOD2	IPI00022314				3	
Enzyme	Oxydoreductase	SOD3	IPI00027827		2			
Enzyme	Oxydoreductase	SPR	IPI00017469	9			23	
Enzyme	Oxydoreductase	SQRDL	IPI00009634	1				
Enzyme	Oxydoreductase	SRD5A2L	IPI00002344			8		
Enzyme	Oxydoreductase	TXN	IPI00216298	16	9	14	15	11
Enzyme	Oxydoreductase	TXNDC	IPI00395887	5	2	27	26	11
Enzyme	Oxydoreductase	TXNDC12	IPI00026328		3		6	
Enzyme	Oxydoreductase	TXNL1	IPI00642032		7			10
Enzyme	Oxydoreductase	TXNRD1	IPI00554786	2	4	3		
Enzyme	Oxydoreductase	UGDH	IPI00031420	4				
Enzyme	Oxydoreductase	VCL	IPI00307162		13		4	
Enzyme	Oxydoreductase	VKORC1	IPI00166079		3	5	1	7
Enzyme	Oxydoreductase	VKORC1	IPI00644735			1		
Enzyme	Oxydoreductase	YWHAB	IPI00216318	28	27	41	49	86
Enzyme	Peptidase	MEST	IPI00298947		9			
Enzyme	Peroxidase	CAT	IPI00465436	4	7	1		9
Enzyme	Peroxidase	GPX1	IPI00293975		3			
Enzyme	Peroxidase	GPX4	IPI00304814		4			
Enzyme	Peroxidase	GPX7	IPI00045798		5			
Enzyme	Peroxidase	MGST3	IPI00639812	1	13		2	3

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				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Peroxidase	PRDX1	IPI00000874		108	46	50	49
Enzyme	Peroxidase	PRDX2	IPI00027350		21		6	6
Enzyme	Peroxidase	PRDX3	IPI00024919		19	7	7	12
Enzyme	Peroxidase	PRDX4	IPI00011937	21	11	7	6	12
Enzyme	Peroxidase	PRDX5	IPI00024915	3	5		6	
Enzyme	Peroxidase	PRDX6	IPI00220301	8	25	4	19	11
Enzyme	Peroxidase	PTGS1	IPI00298267				4	
Enzyme	Peroxidase	SAPS1	IPI00402008	7		12	6	7
Enzyme	Peroxidase	SAPS2	IPI00414872				1	
Enzyme	Peroxidase	SAPS3	IPI00719725	5			5	
Enzyme	Phospholipase	LYSOPHOSPHOLIPASE LPL-I.	IPI00385212		10		9	8
Enzyme	Protease	C1QC	IPI00022394		4			
Enzyme	Protease	C7	IPI00296608		2			
Enzyme	Protease	C8A	IPI00011252		10			
Enzyme	Protease	C8B	IPI00294395		7			
Enzyme	Protease	C8G	IPI00011261		6			
Enzyme	Protease	CFH	IPI00029739		16			
Enzyme	Protease	SIMILAR TO TRANSMEMBRANE PROTEASE, SERINE 3 (SERI	IPI00023802	8				
Enzyme	Transferase	AASDHPPT	IPI00250297				2	2
Enzyme	Transferase	ACAA2	IPI00001539				2	
Enzyme	Transferase	ACAT1	IPI00030363				10	
Enzyme	Transferase	ACAT2	IPI00291419	2				
Enzyme	Transferase	AGPAT1	IPI00019141			3	4	
Enzyme	Transferase	AGPAT2	IPI00464993	2			1	
Enzyme	Transferase	AGPAT5	IPI00028491		1			
Enzyme	Transferase	AGPS	IPI00010349	2		2		3
Enzyme	Transferase	AKAP2	IPI00032064		3	1		
Enzyme	Transferase	ALG1	IPI00549761	3				4
Enzyme	Transferase	ALG3	IPI00178700	3	5		1	6
Enzyme	Transferase	ALG10	IPI00105827	4	7	6		15
Enzyme	Transferase	ANP32A	IPI00025849	18	11	23	5	14
Enzyme	Transferase	ANP32B	IPI00007423	14	3	19	11	9
Enzyme	Transferase	ANP32C	IPI00018262	2				
Enzyme	Transferase	ASMTL	IPI00003119					3
Enzyme	Transferase	AYTL2	IPI00171626	3		2	1	1
Enzyme	Transferase	BAT2D1	IPI00083708					2
Enzyme	Transferase	BCAT1	IPI00382412				5	11
Enzyme	Transferase	BGN	IPI00010790		3			
Enzyme	Transferase	C20orf38	IPI00640240		3			
Enzyme	Transferase	C21orf2	IPI00414362	3				13
Enzyme	Transferase	CDS2	IPI00032150		5			1
Enzyme	Transferase	CEPT1	IPI00005775					3
Enzyme	Transferase	CHSY1	IPI00329141					3
Enzyme	Transferase	CINP	IPI00013263			1		
Enzyme	Transferase	CKB	IPI00022977	2			5	
Enzyme	Transferase	CMAS	IPI00303158		1			
Enzyme	Transferase	COASY	IPI00184821					3
Enzyme	Transferase	COMMD3	IPI00015773					3
Enzyme	Transferase	COMT	IPI00011284		5		10	
Enzyme	Transferase	CPT1A	IPI00032038	18	3	16		3
Enzyme	Transferase	CRKL	IPI00004839	6	12	8	45	27
Enzyme	Transferase	CS	IPI00719297				2	3
Enzyme	Transferase	DAD1	IPI00009407	1	2	2	1	
Enzyme	Transferase	DC2	IPI00414361	2	6	4	3	6
Enzyme	Transferase	DCN	IPI00012119		53			
Enzyme	Transferase	DCTN5	IPI00032498		1			
Enzyme	Transferase	DDOST	IPI00297084			3	3	3
Enzyme	Transferase	DHPS	IPI00026829				15	
Enzyme	Transferase	DKFZP586A0522	IPI00022300		2			1
Enzyme	Transferase	DLAT	IPI00604707	74	65	182	199	97
Enzyme	Transferase	DNMT1	IPI00031519			2		8
Enzyme	Transferase	DPM1	IPI00514278	4	3	3	4	6
Enzyme	Transferase	ELOVL5	IPI00647062				2	
Enzyme	Transferase	ELOVL6	IPI00031695	4			1	
Enzyme	Transferase	F13A1	IPI00297550		44			
Enzyme	Transferase	FBL	IPI00025039			6		9
Enzyme	Transferase	FDPS	IPI00101405	1				
Enzyme	Transferase	FLAD1	IPI00220299					3
Enzyme	Transferase	FLII	IPI00031023	5				5
Enzyme	Transferase	FLJ10774	IPI00300127			1		1
Enzyme	Transferase	FLJ21901	IPI00386852				6	
Enzyme	Transferase	FN3K	IPI00023729	3			2	
Enzyme	Transferase	FN3KRP	IPI00099986	83	163	22	22	28
Enzyme	Transferase	FNTA	IPI00026813				1	
Enzyme	Transferase	FUT8	IPI00004668					7
Enzyme	Transferase	GALNT2	IPI00004669	2				2
Enzyme	Transferase	GFPT1	IPI00217952	6	21		7	1
Enzyme	Transferase	GNPAT	IPI00005677			1		
Enzyme	Transferase	GOT2	IPI00018206				7	2
Enzyme	Transferase	GSTM3	IPI00246975	11	7	3		
Enzyme	Transferase	GSTP1	IPI00219757.		23	6	12	17
Enzyme	Transferase	HAT1	IPI00024719			1	3	2
Enzyme	Transferase	HRMT1L2	IPI00018522	3			8	17
Enzyme	Transferase	HRMT1L3	IPI00103026					4
Enzyme	Transferase	HS2ST1	IPI00549891					3
Enzyme	Transferase	HTF9C	IPI00337307			27		3
Enzyme	Transferase	ICMT	IPI00031458			4		4
Enzyme	Transferase	ILVBL	IPI00554541	3	13			4
Enzyme	Transferase	JTV1	IPI00011916	3			3	5
Enzyme	Transferase	LRRC1	IPI00427739		6			
Enzyme	Transferase	LRRC47	IPI00170935			4		2
Enzyme	Transferase	LRRC59	IPI00396321	14	8	4	7	8
Enzyme	Transferase	LRRIQ2	IPI00383439			2		
Enzyme	Transferase	LUM	IPI00020986		3			
Enzyme	Transferase	MAPKAP1	IPI00028195					2
Enzyme	Transferase	MAT2A	IPI00010157	3			3	5
Enzyme	Transferase	MGC5297	IPI00031696	3				
Enzyme	Transferase	MGC5352	IPI00063242	7	2	13	13	17
Enzyme	Transferase	MGMT	IPI00028618			7		6
Enzyme	Transferase	MGST1	IPI00021805					4
Enzyme	Transferase	MMAB	IPI00029665					1
Enzyme	Transferase	MOCOS	IPI00304895	5				
Enzyme	Transferase	MPP1	IPI00215610		5			
Enzyme	Transferase	MTAP	IPI00011876	103	69			12
Enzyme	Transferase	MULK	IPI00019353	2		1	4	7
Enzyme	Transferase	MYBBP1A	IPI00607584	11				
Enzyme	Transferase	NMT1	IPI00329692				3	2
Enzyme	Transferase	NP	IPI00017672	3	5		4	3
Enzyme	Transferase	OACT1	IPI00374294			1	3	
Enzyme	Transferase	OACT5	IPI00306419	8	26	1		6

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Enzyme	Transferase	OAT	IPI00022334				1	
Enzyme	Transferase	OGT	IPI00005780	2		2		2
Enzyme	Transferase	OTTHUMP00000042411.	IPI00552282					2
Enzyme	Transferase	PARP1	IPI00449049	19		17	24	15
Enzyme	Transferase	PARP4	IPI00296909	1				
Enzyme	Transferase	PCMT1	IPI00411680	3	4		11	6
Enzyme	Transferase	PCNA	IPI00021700	9		10	4	12
Enzyme	Transferase	PCYT1A	IPI00384629	4				2
Enzyme	Transferase	PDHX	IPI00298423	25	7	11	44	
Enzyme	Transferase	PHKA1	IPI00216725	26				
Enzyme	Transferase	PHKA2	IPI00004237	59	18		3	70
Enzyme	Transferase	PIGH	IPI00005263		2	3	2	2
Enzyme	Transferase	PIK3AP1	IPI00419050					1
Enzyme	Transferase	PKM2	IPI00220644	29	15	11	8	37
Enzyme	Transferase	PNMT	IPI00003466				2	
Enzyme	Transferase	POLE4	IPI00008436					2
Enzyme	Transferase	POLR1D	IPI00032439				1	
Enzyme	Transferase	POLR2B	IPI00027808	5		8		
Enzyme	Transferase	POLR2E	IPI00291093				2	
Enzyme	Transferase	POLR2H	IPI00003309	5		2	2	3
Enzyme	Transferase	PRAMEF1	IPI00480135					2
Enzyme	Transferase	PRKAG1	IPI00413318	194	128	268	249	215
Enzyme	Transferase	PTAR1	IPI00399115					2
Enzyme	Transferase	PTDSS1	IPI00010746	12	10	8	7	26
Enzyme	Transferase	QPRT	IPI00300086		2			
Enzyme	Transferase	RABGGTB	IPI00295849	5				3
Enzyme	Transferase	RCSD1	IPI00514815					2
Enzyme	Transferase	RLTPR	IPI00456628					3
Enzyme	Transferase	RNMT	IPI00410657					1
Enzyme	Transferase	RPN1	IPI00025874	15	38	32	13	22
Enzyme	Transferase	RPN2	IPI00301271		11	11	2	9
Enzyme	Transferase	RSU1	IPI00643346	75	39	82	8	16
Enzyme	Transferase	SCAP1	IPI00289536			14		
Enzyme	Transferase	SCRIB	IPI00410666	5				
Enzyme	Transferase	SHMT2	IPI00002520				7	
Enzyme	Transferase	SIMILAR TO ATP SYNTHASE GAMMA CHAIN, MITOCHONDRIA	IPI00244574					3
Enzyme	Transferase	SKB1	IPI00441473	5		2		
Enzyme	Transferase	SKP2	IPI00163172	3				
Enzyme	Transferase	SNRPA1	IPI00183920	5		2	4	3
Enzyme	Transferase	SOAT1	IPI00019898	13		9	3	9
Enzyme	Transferase	SPTLC1	IPI00432425	5	3	2	7	
Enzyme	Transferase	SPTLC2	IPI00005751	3				22
Enzyme	Transferase	SRP72	IPI00215888	1		3	1	
Enzyme	Transferase	STT3A	IPI00297492		25	8	4	5
Enzyme	Transferase	STT3B	IPI00152377		5	9		
Enzyme	Transferase	TALDO1	IPI00550488		7		6	
Enzyme	Transferase	TARBP1	IPI00298447	17	2	90	27	45
Enzyme	Transferase	TGM1	IPI00305622	3	5			
Enzyme	Transferase	TJP2	IPI00003843		2		4	38
Enzyme	Transferase	TKT	IPI00021716	3	13	3	11	4
Enzyme	Transferase	TRMT1	IPI00020508	3				
Enzyme	Transferase	TROVE2	IPI00019450	1			1	5
Enzyme	Transferase	TUSC3	IPI00013328		4			
Enzyme	Transferase	TYMS	IPI00221108	3				
Enzyme	Transferase	UBIAD1	IPI00002468					2
Enzyme	Transferase	UBOX5	IPI00074719	15				
Enzyme	Transferase	UGCGL1	IPI00024466	15	25	25	6	17
Enzyme	Transferase	UPP1	IPI00004406		9			
Enzyme	Transferase	WFS1	IPI00008711		5			
Enzyme	Transferase	ZC3HAV1	IPI00410071				1	
Enzyme	Transferase	ZDHHC17	IPI00410687					1
Enzyme	Transferase	ZDHHC18	IPI00183979			2		
Enzyme	Glucosidase	PRKCSH	IPI00026154	3	9	3	5	
Enzyme	Phosphatase	DCD	IPI00027547	7	10	6	4	8
Enzyme	Phosphatase	PTPN22	IPI00298016					5
Enzyme	Phosphatase	TENC1	IPI00550368		24			
Enzyme	Phosphodiesterase	APEX1	IPI00215911	11				
Enzyme	Phosphodiesterase	ENPP1	IPI00184311		5			
Enzyme	Phosphodiesterase	MGC5139	IPI00414629			51		33
Enzyme	Phosphodiesterase	PDE2A	IPI00655740	4	3			
Enzyme	Phosphodiesterase	PDE4A	IPI00020973				32	
Enzyme	Phosphodiesterase	PDE6D	IPI00015161	5	13	5	4	13
Enzyme	Phosphodiesterase	PDE7A	IPI00217833			1		
Enzyme	Phosphodiesterase	PDE7B	IPI00619901		2			
Enzyme	Phosphodiesterase	PDE10A	IPI00215786	307	52			
Enzyme	Phosphodiesterase	SAMHD1	IPI00294739		2			1
Enzyme	Phosphodiesterase	UNC119	IPI00013262			54		28
Enzyme	Ubiquitinylation	ANAPC1	IPI00033907	93		64	24	55
Enzyme	Ubiquitinylation	ANAPC7	IPI00008248	23		13	12	22
Enzyme	Ubiquitinylation	ANAPC11	IPI00100459				1	
Enzyme	Ubiquitinylation	FBXO22	IPI00183208					4
Enzyme	Ubiquitinylation	FBXO45	IPI00174438			1		1
Enzyme	Ubiquitinylation	PSMD1	IPI00299608	1	3	1	6	
Enzyme	Ubiquitinylation	PSMD3	IPI00011603	6				13
Enzyme	Ubiquitinylation	PSMD4	IPI00216247				3	
Enzyme	Ubiquitinylation	PSMD8	IPI00010201	6				
Enzyme	Ubiquitinylation	PSMD10	IPI00003565		2		3	
Enzyme	Ubiquitinylation	PSMD11	IPI00105598				5	3
Enzyme	Ubiquitinylation	PSMD12	IPI00185374	3				
Enzyme	Ubiquitinylation	PSMD13	IPI00375380					2
Heat Shock Proteins	-	CRYAB	IPI00021369		17			
Heat Shock Proteins	-	DERL2	IPI00304264			3		
Heat Shock Proteins	-	DERL3	IPI00430407					1
Heat Shock Proteins	-	DJ-1	IPI00298547		12	6	16	13
Heat Shock Proteins	-	DNAJA1	IPI00012535	13		15	8	17
Heat Shock Proteins	-	DNAJB2	IPI00015948		1			
Heat Shock Proteins	-	DNAJB6	IPI00024523			3		5
Heat Shock Proteins	-	HSPA1A	IPI00514377	116	46	33	94	42
Heat Shock Proteins	-	HSPA2	IPI00007702	3	26			
Heat Shock Proteins	-	HSPA4	IPI00002966	3		3	12	2
Heat Shock Proteins	-	HSPA4L	IPI00295485				2	
Heat Shock Proteins	-	HSPA6	IPI00339269		1			1
Heat Shock Proteins	-	HSPA8	IPI00003865	334	91	332	204	214
Heat Shock Proteins	-	HSPB1	IPI00025512	9	64		19	17
Heat Shock Proteins	-	HSPB6	IPI00022433		3			
Heat Shock Proteins	-	HSPCA	IPI00382470	82	104	49	52	56
Heat Shock Proteins	-	HSPCB	IPI00414676	101	72	90	110	99
Heat Shock Proteins	-	HSPD1	IPI00472102	44	18	38	40	41
Heat Shock Proteins	-	HSPE1	IPI00220362	4			15	5
Heat Shock Proteins	-	HSPH1	IPI00514983			7	6	

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Heat Shock Proteins	-	PTMA	IPI00385149					4
Heat Shock Proteins	-	SERPINH1	IPI00032140	6			15	
Heat Shock Proteins	-	SERPINH1	IPI00442080		1			
Heat Shock Proteins	-	SIMILAR TO 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRI	IPI00413048			3		
Heat Shock Proteins	-	SIMILAR TO CDC37 HOMOLOG.	IPI00259127					1
Heat Shock Proteins	-	SIMILAR TO HEAT SHOCK 70KD PROTEIN 9B (MORTALIN-2	IPI00096692				4	2
Heat Shock Proteins	-	SIMILAR TO HEAT SHOCK 70KD PROTEIN BINDING PROTEI	IPI00107552				2	
Heat Shock Proteins	-	SIMILAR TO HEAT SHOCK COGNATE 71 KDA PROTEIN.	IPI00258419	1		1	5	1
Heat Shock Proteins	-	STIP1	IPI00013894				13	3
Heat Shock Proteins	-	TOR1A	IPI00477657		2			
Heat Shock Proteins	-	TXNDC4	IPI00401264				3	
Heat Shock Proteins	ER protein folding	CANX	IPI00020984	8	23		8	7
Heat Shock Proteins	ER protein folding	ORMDL1	IPI00009364		2	2	2	
Heat Shock Proteins	ER protein folding	ORMDL2	IPI00171701	2		1		6
Heat Shock Proteins	ER protein folding	ORMDL3	IPI00166066		5	4	1	4
Nucleic acid binding	Purine metabolism	ACLY	IPI00021290	16	11	14	12	5
Nucleic acid binding	Purine metabolism	ADA	IPI00296441			11		3
Nucleic acid binding	Purine metabolism	ADK	IPI00290279	82	248	51	161	301
Nucleic acid binding	Purine metabolism	APRT	IPI00218693		6	3	8	
Nucleic acid binding	Purine metabolism	ATIC	IPI00289499	1		1	5	
Nucleic acid binding	Purine metabolism	GART	IPI00025273	5		16	14	6
Nucleic acid binding	Purine metabolism	GMPS	IPI00029079	18		9	7	7
Nucleic acid binding	Purine metabolism	HPRT1	IPI00513722	2	3	5	3	9
Nucleic acid binding	Purine metabolism	IMPDH2	IPI00291510	1				
Nucleic acid binding	Purine metabolism	MTHFD1	IPI00218342	9		28	22	
Nucleic acid binding	Purine metabolism	NME1	IPI00375531	2		1		2
Nucleic acid binding	Purine metabolism	NME1-NME2	IPI00604590	19		18	3	
Nucleic acid binding	Purine metabolism	NME3	IPI00012315	4	51		9	10
Nucleic acid binding	Purine metabolism	NME4	IPI00658182	15	102	28	10	
Nucleic acid binding	Purine metabolism	PAICS	IPI00217223	71		17	35	46
Nucleic acid binding	Purine metabolism	PFAS	IPI00004534	2		4		5
Nucleic acid binding	Purine metabolism	PPAT	IPI00029534					4
Nucleic acid binding	Purine metabolism	SMEK2	IPI00414323			6		2
Nucleic acid binding	Pyrimidine metabolism	CAD	IPI00301263	396	18	659	479	1228
Nucleic acid binding	Pyrimidine metabolism	CDA	IPI00027983	4	11			
Nucleic acid binding	Pyrimidine metabolism	CPS1	IPI00011062	115				
Nucleic acid binding	Pyrimidine metabolism	DUT	IPI00013679		3	19	15	52
Nucleic acid binding	Pyrimidine metabolism	ERH	IPI00029631			5	5	
Nucleic acid binding	Pyrimidine metabolism	FLJ32942	IPI00218505				2	3
Nucleic acid binding	Receptor activity	ARF3	IPI00215917		8	2	11	7
Nucleic acid binding	Receptor activity	G3BP2	IPI00009057	3				5
Nucleic acid binding	Ribosomal protein	20 KDA PROTEIN.	IPI00478310			4		
Nucleic acid binding	Ribosomal protein	40S RIBOSOMAL PROTEIN S23.	IPI00218606		2		3	2
Nucleic acid binding	Ribosomal protein	ARL6IP	IPI00014232		1			2
Nucleic acid binding	Ribosomal protein	EIF2A	IPI00012462	5				
Nucleic acid binding	Ribosomal protein	ETF1	IPI00429191	2				
Nucleic acid binding	Ribosomal protein	GADD45A	IPI00029104				6	
Nucleic acid binding	Ribosomal protein	GADD45B	IPI00307805				5	8
Nucleic acid binding	Ribosomal protein	ITGB4BP	IPI00010105				2	
Nucleic acid binding	Ribosomal protein	LOC388519	IPI00450975		7	3	14	9
Nucleic acid binding	Ribosomal protein	LOC391701	IPI00376564					1
Nucleic acid binding	Ribosomal protein	LOC401016	IPI00419880	4				
Nucleic acid binding	Ribosomal protein	LOC401676	IPI00457031				1	
Nucleic acid binding	Ribosomal protein	LOC441112	IPI00008527					2
Nucleic acid binding	Ribosomal protein	LOC441912	IPI00218606					2
Nucleic acid binding	Ribosomal protein	MRPL12	IPI00005537				4	3
Nucleic acid binding	Ribosomal protein	MRPL14	IPI00418290					1
Nucleic acid binding	Ribosomal protein	MRPL32	IPI00011077	2				
Nucleic acid binding	Ribosomal protein	MRPL49	IPI00555553				1	
Nucleic acid binding	Ribosomal protein	MRPS7	IPI00006440	1				
Nucleic acid binding	Ribosomal protein	MRPS11	IPI00010244				3	
Nucleic acid binding	Ribosomal protein	MRPS17	IPI00465185				1	
Nucleic acid binding	Ribosomal protein	MRPS21	IPI00014812	1		1	2	1
Nucleic acid binding	Ribosomal protein	NAG	IPI00333913				12	
Nucleic acid binding	Ribosomal protein	PREDICTED: SIMILAR TO RIBOSOMAL PROTEIN L7 .	IPI00018680				1	
Nucleic acid binding	Ribosomal protein	RPL4	IPI00003918				3	
Nucleic acid binding	Ribosomal protein	RPL11	IPI00376798		4	6	4	5
Nucleic acid binding	Ribosomal protein	RPL12	IPI00456966		6		12	7
Nucleic acid binding	Ribosomal protein	RPL18	IPI00215719				2	
Nucleic acid binding	Ribosomal protein	RPL22	IPI00219153	4	3		3	5
Nucleic acid binding	Ribosomal protein	RPL23	IPI00010153	11	12	9	12	23
Nucleic acid binding	Ribosomal protein	RPL30	IPI00219156	6	4	5	6	9
Nucleic acid binding	Ribosomal protein	RPL38	IPI00215790	4	3		6	7
Nucleic acid binding	Ribosomal protein	RPLP0	IPI00008530	2	2		2	2
Nucleic acid binding	Ribosomal protein	RPLP2	IPI00008529	4			5	8
Nucleic acid binding	Ribosomal protein	RPS3	IPI00455589	15	8	10	11	5
Nucleic acid binding	Ribosomal protein	RPS4X	IPI00217030	14	13	13	17	11
Nucleic acid binding	Ribosomal protein	RPS5	IPI00008433			6	5	11
Nucleic acid binding	Ribosomal protein	RPS8	IPI00216587				5	
Nucleic acid binding	Ribosomal protein	RPS9	IPI00221088					1
Nucleic acid binding	Ribosomal protein	RPS10	IPI00454704		3		2	6
Nucleic acid binding	Ribosomal protein	RPS11	IPI00025091			6	3	7
Nucleic acid binding	Ribosomal protein	RPS12	IPI00013917	3			3	
Nucleic acid binding	Ribosomal protein	RPS12	IPI00414922		4	5		
Nucleic acid binding	Ribosomal protein	RPS13	IPI00221089		3	3	5	6
Nucleic acid binding	Ribosomal protein	RPS14	IPI00026271	3	8	5	12	8
Nucleic acid binding	Ribosomal protein	RPS15A	IPI00221091	3	2	6	3	7
Nucleic acid binding	Ribosomal protein	RPS17	IPI00414603				6	
Nucleic acid binding	Ribosomal protein	RPS18	IPI00013296		3	5	5	8
Nucleic acid binding	Ribosomal protein	RPS19	IPI00215780	6	6	2	11	7
Nucleic acid binding	Ribosomal protein	RPS20	IPI00012493	1	2	4	3	5
Nucleic acid binding	Ribosomal protein	RPS21	IPI00387084					5
Nucleic acid binding	Ribosomal protein	RPS25	IPI00012750	3		3	8	6
Nucleic acid binding	Ribosomal protein	RPS26P10	IPI00176696				2	
Nucleic acid binding	Ribosomal protein	RPS27	IPI00221096	4				
Nucleic acid binding	Ribosomal protein	RPS27	IPI00422085		5			8
Nucleic acid binding	Ribosomal protein	RPS27A	IPI00387164	46	14	62	21	72
Nucleic acid binding	Ribosomal protein	RPS28	IPI00556589					3
Nucleic acid binding	Ribosomal protein	RPSA	IPI00553164	3	2	3	4	6
Nucleic acid binding	Ribosomal protein	SIMILAR TO 40S RIBOSOMAL PROTEIN S12.	IPI00414922					4
Nucleic acid binding	Ribosomal protein	SIMILAR TO 60S ACIDIC RIBOSOMAL PROTEIN P1 (H. SA	IPI00059481				1	
Nucleic acid binding	Ribosomal protein	SIMILAR TO DJ753D5.2 (NOVEL PROTEIN SIMILAR TO RP	IPI00414447				1	
Nucleic acid binding	Ribosomal protein	SIMILAR TO RIBOSOMAL PROTEIN L9.	IPI00140907				1	
Nucleic acid binding	Ribosomal protein	SIMILAR TO RIBOSOMAL PROTEIN L31.	IPI00181443				1	
Nucleic acid binding	Ribosomal protein	SIMILAR TO RIBOSOMAL PROTEIN S10 (H. SAPIENS).	IPI00037555					5
Nucleic acid binding	Ribosomal protein	SIMILAR TO RIBOSOMAL PROTEIN S27.	IPI00451483			6	8	
Nucleic acid binding	Ribosomal protein	SIMILAR TO RIBOSOMAL PROTEIN S29.	IPI00160699					1
Nucleic acid binding	Ribosomal protein	SIMILAR TO RIBOSOMAL PROTEIN.	IPI00095888					2
Nucleic acid binding	Ribosomal protein	UBA52	IPI00328348	18	4		9	
Nucleic acid binding	Transcription factor	AFF1	IPI00396310	44		7	49	17

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Nucleic acid binding	Transcription factor	AFF4	IPI00004344	106		4	50	45
Nucleic acid binding	Transcription factor	AIP	IPI00010460	3		5		12
Nucleic acid binding	Transcription factor	BATF	IPI00007422					1
Nucleic acid binding	Transcription factor	CARM1	IPI00639957				4	5
Nucleic acid binding	Transcription factor	CBFA2T3	IPI00306845				2	
Nucleic acid binding	Transcription factor	CBL	IPI00027269				1	
Nucleic acid binding	Transcription factor	COPS5	IPI00009958		1			
Nucleic acid binding	Transcription factor	EDF1	IPI00021570	2	1		8	6
Nucleic acid binding	Transcription factor	ELL	IPI00023467				4	4
Nucleic acid binding	Transcription factor	FMNL2	IPI00464953		2			
Nucleic acid binding	Transcription factor	FUBP1	IPI00163782	7		2	2	
Nucleic acid binding	Transcription factor	G10	IPI00013180					4
Nucleic acid binding	Transcription factor	GTF2F1	IPI00017450					1
Nucleic acid binding	Transcription factor	GTF2H1	IPI00030380	4		3		3
Nucleic acid binding	Transcription factor	GTF2H2	IPI00377097	3			8	5
Nucleic acid binding	Transcription factor	GTF2H3	IPI00100791				6	1
Nucleic acid binding	Transcription factor	GTF2H4	IPI00016839				5	
Nucleic acid binding	Transcription factor	GTF2I	IPI00054042					11
Nucleic acid binding	Transcription factor	GTF3C3	IPI00015806				1	
Nucleic acid binding	Transcription factor	HCFC1	IPI00019848			1		
Nucleic acid binding	Transcription factor	HCLS1	IPI00026156			137		
Nucleic acid binding	Transcription factor	HDAC1	IPI00013774	2		4		10
Nucleic acid binding	Transcription factor	HDAC2	IPI00289601					1
Nucleic acid binding	Transcription factor	HDAC6	IPI00005711	5		13	15	22
Nucleic acid binding	Transcription factor	HDAC10	IPI00012439	19	3	15	11	9
Nucleic acid binding	Transcription factor	HIGH MOBILITY GROUP PROTEIN HMG-I/HMG-Y.	IPI00177716				3	
Nucleic acid binding	Transcription factor	HMGA1	IPI00179700		6			3
Nucleic acid binding	Transcription factor	HMGB2	IPI00219097			12	4	12
Nucleic acid binding	Transcription factor	HNRPD	IPI00028888		22			6
Nucleic acid binding	Transcription factor	HSD17B8	IPI00641330		1	1		4
Nucleic acid binding	Transcription factor	HSPC016	IPI00006378		2		4	4
Nucleic acid binding	Transcription factor	Huntingtin	IPI00002335			4	12	51
Nucleic acid binding	Transcription factor	ID1	IPI00012718					2
Nucleic acid binding	Transcription factor	IFI16	IPI00003443	1		4		5
Nucleic acid binding	Transcription factor	ILF3	IPI00418313		2			
Nucleic acid binding	Transcription factor	IRF4	IPI00289982					7
Nucleic acid binding	Transcription factor	IRF8	IPI00026224					1
Nucleic acid binding	Transcription factor	KHDRBS1	IPI00008575	5				7
Nucleic acid binding	Transcription factor	KNTC1	IPI00001458	10		4	3	12
Nucleic acid binding	Transcription factor	Kua	IPI00397947		1		6	3
Nucleic acid binding	Transcription factor	LASS2	IPI00305304		6	6	3	13
Nucleic acid binding	Transcription factor	LASS2	IPI00472101	11				
Nucleic acid binding	Transcription factor	LOC440719	IPI00455474					1
Nucleic acid binding	Transcription factor	MAFK	IPI00031018					3
Nucleic acid binding	Transcription factor	MED31	IPI00007021			1		
Nucleic acid binding	Transcription factor	MED31	IPI00023537					8
Nucleic acid binding	Transcription factor	MLLT1	IPI00100630	23		10	27	23
Nucleic acid binding	Transcription factor	MMS19L	IPI00154451	15		3	4	1
Nucleic acid binding	Transcription factor	MSRB2	IPI00032871		6		8	
Nucleic acid binding	Transcription factor	NFKB2	IPI00024116	4		2		
Nucleic acid binding	Transcription factor	NPM1	IPI00014923			3		
Nucleic acid binding	Transcription factor	PA2G4	IPI00299000				5	
Nucleic acid binding	Transcription factor	PAF1	IPI00300333			1	3	4
Nucleic acid binding	Transcription factor	PBXIP1	IPI00332106		1			
Nucleic acid binding	Transcription factor	PCDH1	IPI00176458		4			
Nucleic acid binding	Transcription factor	PFDN1	IPI00000051		2		2	4
Nucleic acid binding	Transcription factor	PFDN5	IPI00015361			3	3	
Nucleic acid binding	Transcription factor	PHB	IPI00017334	51	46	41	26	65
Nucleic acid binding	Transcription factor	PHF5A	IPI00005511	4		2	4	6
Nucleic acid binding	Transcription factor	PHOX2A	IPI00024171	1				
Nucleic acid binding	Transcription factor	PIR	IPI00012575	1				
Nucleic acid binding	Transcription factor	POU2AF1	IPI00293727					7
Nucleic acid binding	Transcription factor	PPARGC1B	IPI00152517			1		
Nucleic acid binding	Transcription factor	PSMC3	IPI00018398	3		1	3	
Nucleic acid binding	Transcription factor	PURA	IPI00023591		3			
Nucleic acid binding	Transcription factor	RB1	IPI00302829			9		
Nucleic acid binding	Transcription factor	RBM14	IPI00013174			2		
Nucleic acid binding	Transcription factor	RNF20	IPI00251559					2
Nucleic acid binding	Transcription factor	RPAP1	IPI00402657	10		3		6
Nucleic acid binding	Transcription factor	RTF1	IPI00303832	1			3	2
Nucleic acid binding	Transcription factor	RUNX1	IPI00218943			3		
Nucleic acid binding	Transcription factor	SAP18	IPI00011698				4	
Nucleic acid binding	Transcription factor	SFRS2	IPI00005978	1		3	5	8
Nucleic acid binding	Transcription factor	SMAD1	IPI00019549			3		
Nucleic acid binding	Transcription factor	SMARCC1	IPI00234252				7	
Nucleic acid binding	Transcription factor	SMARCC2	IPI00216047					1
Nucleic acid binding	Transcription factor	SND1	IPI00140420	1	1		3	1
Nucleic acid binding	Transcription factor	STAT3	IPI00298887	8		5	6	
Nucleic acid binding	Transcription factor	STAT5A	IPI00030783		13		13	
Nucleic acid binding	Transcription factor	SUB1	IPI00221222	32	9	11	51	6
Nucleic acid binding	Transcription factor	SUPT4H1	IPI00442913			2	2	2
Nucleic acid binding	Transcription factor	SUPT5H	IPI00298058	7				3
Nucleic acid binding	Transcription factor	SUPT6H	IPI00456681	2				
Nucleic acid binding	Transcription factor	SUPT16H	IPI00026970	28				
Nucleic acid binding	Transcription factor	TARDBP	IPI00025815				4	5
Nucleic acid binding	Transcription factor	TBR1	IPI00003421			3		
Nucleic acid binding	Transcription factor	TFAM	IPI00020928	7	2			
Nucleic acid binding	Transcription factor	TFCP2	IPI00037599					6
Nucleic acid binding	Transcription factor	TIAL1	IPI00005615	12	1		8	17
Nucleic acid binding	Transcription factor	TRFP	IPI00174852					2
Nucleic acid binding	Transcription factor	TRIM22	IPI00477812					6
Nucleic acid binding	Transcription factor	TRIM25	IPI00029629	11	13	4	6	
Nucleic acid binding	Transcription factor	TRIP11	IPI00003515					1
Nucleic acid binding	Transcription factor	TRIP13	IPI00003505	4			5	4
Nucleic acid binding	Transcription factor	UBTF	IPI00014533	4		6		
Nucleic acid binding	Transcription factor	VARSL	IPI00640597				1	2
Nucleic acid binding	Transcription factor	WDR39	IPI00008791	7	1		1	6
Nucleic acid binding	Transcription factor	YEATS4	IPI00008536	36		65	23	81
Nucleic acid binding	Transcription factor	ZNF207	IPI00013457				3	
Nucleic acid binding	Transcription factor	ZNF265	IPI00029400	8		8	8	15
Nucleic acid binding	Transcription factor	ZNF277	IPI00479533		2			
Nucleic acid binding	Translation factor	BZW1	IPI00556167	5			6	7
Nucleic acid binding	Translation factor	BZW2	IPI00022305				3	7
Nucleic acid binding	Translation factor	DENR	IPI00306280	3			3	
Nucleic acid binding	Translation factor	EEF1A1	IPI00472724		34	12		30
Nucleic acid binding	Translation factor	EEF1A2	IPI00014424	60	78	8	102	35
Nucleic acid binding	Translation factor	EEF1B2	IPI00178440	2	2		3	1
Nucleic acid binding	Translation factor	EEF1D	IPI00023048	6	6		4	7
Nucleic acid binding	Translation factor	EEF1G	IPI00000875	3	5	3	20	2
Nucleic acid binding	Translation factor	EEF2	IPI00186290	22	12	11	18	31

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Nucleic acid binding	Translation factor	EIF1	IPI00015077	5				2
Nucleic acid binding	Translation factor	EIF1AY	IPI00719092	8	4	8	8	7
Nucleic acid binding	Translation factor	EIF2S1	IPI00219678	3	2		1	1
Nucleic acid binding	Translation factor	EIF2S3	IPI00419827	17	1			
Nucleic acid binding	Translation factor	EIF3S1	IPI00290461	85	57	127	129	146
Nucleic acid binding	Translation factor	EIF3S2	IPI00012795	10		4	10	10
Nucleic acid binding	Translation factor	EIF3S3	IPI00647650	7	2	4	7	7
Nucleic acid binding	Translation factor	EIF3S4	IPI00290460				1	7
Nucleic acid binding	Translation factor	EIF3S5	IPI00240909					3
Nucleic acid binding	Translation factor	EIF3S5	IPI00654777	4			4	3
Nucleic acid binding	Translation factor	EIF3S6	IPI00013068	4		2	4	11
Nucleic acid binding	Translation factor	EIF3S7	IPI00006181	7		5	4	12
Nucleic acid binding	Translation factor	EIF3S8	IPI00016910	14		9	13	6
Nucleic acid binding	Translation factor	EIF3S9	IPI00719752	17	1	8	13	12
Nucleic acid binding	Translation factor	EIF3S10	IPI00029012	48		14		47
Nucleic acid binding	Translation factor	EIF3S12	IPI00033143				6	7
Nucleic acid binding	Translation factor	EIF4B	IPI00012079	9			4	5
Nucleic acid binding	Translation factor	EIF4E	IPI00027485	1	2	2	4	4
Nucleic acid binding	Translation factor	EIF4G1	IPI00479262	13				6
Nucleic acid binding	Translation factor	EIF5	IPI00022648	2				
Nucleic acid binding	Translation factor	EIF5A2	IPI00376005		8		20	6
Nucleic acid binding	Translation factor	EIF5B	IPI00299254	28		5	5	4
Nucleic acid binding	Translation factor	EUKARYOTIC TRANSLATION ELONGATION FACTOR 1 ALPHA	IPI00513808			8		
Nucleic acid binding	Translation factor	GCN1L1	IPI00001159	315	58	89	295	475
Nucleic acid binding	Translation factor	GSPT1	IPI00218829	7				9
Nucleic acid binding	Translation factor	KIAA0664	IPI00024425	38		10		3
Nucleic acid binding	Translation factor	LOC143244	IPI00218084			5		
Nucleic acid binding	Translation factor	PABPC1	IPI00008524		6			
Nucleic acid binding	Translation factor	TCEA1	IPI00333215				3	2
Nucleic acid binding	Translation factor	TCEA2	IPI00472949					2
Nucleic acid binding	Translation factor	TUFM	IPI00027107	8		3	16	3
Nucleic acid binding	Translation factor	WBSCR1	IPI00014263	6	4	1	2	4
Nucleic acid binding	Translation factor	WDR44	IPI00444371	5	13	9	5	
Nucleic acid binding	Other	AFF3	IPI00515069					31
Nucleic acid binding	Other	ARL5A	IPI00412787		3			
Nucleic acid binding	Other	ARL10	IPI00446829					11
Nucleic acid binding	Other	ARL15	IPI00005163				2	1
Nucleic acid binding	Other	C14orf156	IPI00009922	5			6	
Nucleic acid binding	Other	C16orf34	IPI00072955					1
Nucleic acid binding	Other	CD19	IPI00305031					3
Nucleic acid binding	Other	CHERP	IPI00333010				1	
Nucleic acid binding	Other	CIRBP	IPI00180954		11	2		3
Nucleic acid binding	Other	CPSF2	IPI00419531	5			3	3
Nucleic acid binding	Other	CPSF3	IPI00007818	2				6
Nucleic acid binding	Other	CSPG4	IPI00019157		7			
Nucleic acid binding	Other	CSTF2	IPI00013256	2				
Nucleic acid binding	Other	DDB1	IPI00293464	12	7	15	15	35
Nucleic acid binding	Other	DENND4A	IPI00396063					1
Nucleic acid binding	Other	DYNC1LI1	IPI00007675					5
Nucleic acid binding	Other	DYNC1LI2	IPI00011592	1	1			
Nucleic acid binding	Other	ERAL1	IPI00026512				1	2
Nucleic acid binding	Other	FANCG	IPI00005769	2		1	1	1
Nucleic acid binding	Other	FRG1	IPI00004655			7		3
Nucleic acid binding	Other	GIMAP1	IPI00103387		3	3		
Nucleic acid binding	Other	H1F0	IPI00550239		8			
Nucleic acid binding	Other	H2AFV	IPI00654702					1
Nucleic acid binding	Other	H2AFZ	IPI00644478					4
Nucleic acid binding	Other	HIST1H1B	IPI00217468		8			
Nucleic acid binding	Other	HIST1H1C	IPI00217465		26			
Nucleic acid binding	Other	HIST1H1E	IPI00217466	2	11	1		
Nucleic acid binding	Other	HIST1H2BN	IPI00719084	3	8	9		4
Nucleic acid binding	Other	HIST3H2BB	IPI00619923					4
Nucleic acid binding	Other	HIST4H4	IPI00453473	6	4	7	3	7
Nucleic acid binding	Other	HMGB3	IPI00217477	3	30			
Nucleic acid binding	Other	HMGN2	IPI00478470					1
Nucleic acid binding	Other	HNRPA0	IPI00011913		2			
Nucleic acid binding	Other	HNRPH2	IPI00026230	1				2
Nucleic acid binding	Other	HNRPL	IPI00027834		3	4	1	5
Nucleic acid binding	Other	HNRPM	IPI00171903	20		2	12	19
Nucleic acid binding	Other	HNRPR	IPI00644055	2		2		
Nucleic acid binding	Other	HNRPU	IPI00025054	31	22	11	22	9
Nucleic acid binding	Other	HNRPUL1	IPI00013070			3	3	10
Nucleic acid binding	Other	HSPA12B	IPI00307820		3			
Nucleic acid binding	Other	HYOU1	IPI00000877		4			
Nucleic acid binding	Other	HYPOTHETICAL PROTEIN XP_016170.	IPI00180730		1			
Nucleic acid binding	Other	IFITM3	IPI00303726	9	1		5	
Nucleic acid binding	Other	IPI00003262.1	IPI00003262	2				
Nucleic acid binding	Other	KHSRP	IPI00479786	5	3	31	38	34
Nucleic acid binding	Other	KLHDC3	IPI00062558	4				3
Nucleic acid binding	Other	LANCL2	IPI00032995	2		2	2	3
Nucleic acid binding	Other	LARP1	IPI00185919					2
Nucleic acid binding	Other	LIME1	IPI00553175			6		3
Nucleic acid binding	Other	LRPPRC	IPI00329745	15			13	13
Nucleic acid binding	Other	LRRFIP1	IPI00656067					6
Nucleic acid binding	Other	MCM3AP	IPI00028954					2
Nucleic acid binding	Other	MCTS1	IPI00645446		4		2	
Nucleic acid binding	Other	NACA	IPI00023748	6	1	2	2	2
Nucleic acid binding	Other	NCK2	IPI00306531	8			27	35
Nucleic acid binding	Other	NCL	IPI00604620	9	8		9	
Nucleic acid binding	Other	NHP2L1	IPI00026167	3	3	2	1	3
Nucleic acid binding	Other	NOLA2	IPI00041325					2
Nucleic acid binding	Other	NOLC1	IPI00216654	30		14	23	32
Nucleic acid binding	Other	NOM1	IPI00145593			2		5
Nucleic acid binding	Other	NPM3	IPI00026496					1
Nucleic acid binding	Other	NUBP2	IPI00644674	3	2	3	5	4
Nucleic acid binding	Other	PBP	IPI00454722		6		7	4
Nucleic acid binding	Other	PDCD5	IPI00023640	3			4	
Nucleic acid binding	Other	PDLIM5	IPI00007935		6			
Nucleic acid binding	Other	PLCG1	IPI00016736			16		
Nucleic acid binding	Other	POLDIP3	IPI00440688	3				4
Nucleic acid binding	Other	POM121	IPI00032358					1
Nucleic acid binding	Other	PPP4C	IPI00012833	11	4	11	10	21
Nucleic acid binding	Other	PRPF39	IPI00383823	4			1	8
Nucleic acid binding	Other	PSPC1	IPI00103525					2
Nucleic acid binding	Other	PTRF	IPI00176903				2	
Nucleic acid binding	Other	PUM1	IPI00032355					1
Nucleic acid binding	Other	RAB2	IPI00031169		4		1	2
Nucleic acid binding	Other	RAB8A	IPI00028481		3			1
Nucleic acid binding	Other	RAB17	IPI00007866	28	8			
Nucleic acid binding	Other	RAB21	IPI00007755	1	8	3	2	4

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Nucleic acid binding	Other	RAD23B	IPI00008223		12			
Nucleic acid binding	Other	RAP2B	IPI00018364		3			
Nucleic acid binding	Other	RAVER1	IPI00217661					3
Nucleic acid binding	Other	RBM3	IPI00024320	4	7	1		3
Nucleic acid binding	Other	RBM17	IPI00176706				2	
Nucleic acid binding	Other	RBM25	IPI00004273			11	6	4
Nucleic acid binding	Other	RCC2	IPI00465044	7	2	17	10	15
Nucleic acid binding	Other	RNPC2	IPI00163505	8		5	5	11
Nucleic acid binding	Other	SAR1B	IPI00002149		1	1		2
Nucleic acid binding	Other	SF3A1	IPI00017451	1			5	
Nucleic acid binding	Other	SF3B1	IPI00026089	10		9	9	23
Nucleic acid binding	Other	SF3B2	IPI00221106			2		10
Nucleic acid binding	Other	SF3B14	IPI00032827	3		5		7
Nucleic acid binding	Other	SFRS6	IPI00012345	2				
Nucleic acid binding	Other	SHANK2	IPI00220490	17				
Nucleic acid binding	Other	SIMILAR TO CGI-55 PROTEIN.	IPI00185197		3	2	4	4
Nucleic acid binding	Other	SNRPF	IPI00220528				3	6
Nucleic acid binding	Other	SRP14	IPI00293434	3	8	9	9	12
Nucleic acid binding	Other	SRP19	IPI00295889		3	2	2	2
Nucleic acid binding	Other	SRP68	IPI00168388	5	3	2	6	
Nucleic acid binding	Other	SRRM1	IPI00328293	9		19	32	23
Nucleic acid binding	Other	SRRM2	IPI00099730	9		21	34	73
Nucleic acid binding	Other	SSB	IPI00009032	1			5	
Nucleic acid binding	Other	SSBP1	IPI00029744	3	2	3	3	10
Nucleic acid binding	Other	SYNCRIP	IPI00018140	4			6	7
Nucleic acid binding	Other	THOC2	IPI00158615			2		
Nucleic acid binding	Other	TIA1	IPI00291398	2		7	8	10
Nucleic acid binding	Other	TSN	IPI00018768	1	1	2	4	4
Nucleic acid binding	Other	TTC14	IPI00550503	10		8	11	5
Nucleic acid binding	Other	XPOT	IPI00306290	19	11	23	28	30
Nucleic acid binding	Other	ZNF9	IPI00430812	3	2	2	1	5
Nucleic acid binding	Other	ZNF291	IPI00307114			4		
Nucleic acid binding	Other	ZNF706	IPI00183657	2		1	2	2
Nucleic acid binding	Other	ZWILCH	IPI00329679					5
Protein binding	Cytoskeleton	14-3-3 zeta human	IPI00021263	88	4	53	111	26
Protein binding	Cytoskeleton	ANK3	IPI00472779					1
Protein binding	Cytoskeleton	AP3M1	IPI00032459	1				
Protein binding	Cytoskeleton	AP3S1	IPI00014624		3		2	2
Protein binding	Cytoskeleton	ARCN1	IPI00298520	5	4	2		5
Protein binding	Cytoskeleton	ARPC1B	IPI00005160		1			
Protein binding	Cytoskeleton	ARPC5	IPI00645266		4			5
Protein binding	Cytoskeleton	ARPC5L	IPI00304459		1		1	1
Protein binding	Cytoskeleton	BASP1	IPI00299024	5	62			
Protein binding	Cytoskeleton	CEP192	IPI00456708	9		1	1	17
Protein binding	Cytoskeleton	CKAP4	IPI00141318		32			3
Protein binding	Cytoskeleton	CLTA	IPI00014587	2	2	1	2	
Protein binding	Cytoskeleton	CLTB	IPI00014589				4	
Protein binding	Cytoskeleton	COPZ1	IPI00032851				3	
Protein binding	Cytoskeleton	CSRP1	IPI00442073	8	20			
Protein binding	Cytoskeleton	CSRP2	IPI00002824		27			
Protein binding	Cytoskeleton	CYFIP1	IPI00644231	40	18		89	
Protein binding	Cytoskeleton	CYFIP2	IPI00655548			8		29
Protein binding	Cytoskeleton	EML2	IPI00015944	29				
Protein binding	Cytoskeleton	EML3	IPI00167909	10				
Protein binding	Cytoskeleton	EML4	IPI00001466	7	48			
Protein binding	Cytoskeleton	FLG	IPI00026256	3	1	2	4	9
Protein binding	Cytoskeleton	HSPG2	IPI00024284		5		13	
Protein binding	Cytoskeleton	IPI00037367.2	IPI00037367		3			
Protein binding	Cytoskeleton	IPI00105140.1	IPI00105140		1			
Protein binding	Cytoskeleton	IPI00332047.2	IPI00332047		1			
Protein binding	Cytoskeleton	ITGA1	IPI00106698				4	2
Protein binding	Cytoskeleton	LMNB1	IPI00217975		3			15
Protein binding	Cytoskeleton	LMNB2	IPI00009771		3			2
Protein binding	Cytoskeleton	LOC387805	IPI00005162		6	4	4	7
Protein binding	Cytoskeleton	MAP4	IPI00396171		7			
Protein binding	Cytoskeleton	MAP4	IPI00411375		3		1	
Protein binding	Cytoskeleton	MAP7	IPI00022628	7				
Protein binding	Cytoskeleton	NCKAP1L	IPI00604736			10	5	4
Protein binding	Cytoskeleton	NPM1	IPI00549248	7				1
Protein binding	Cytoskeleton	PAXILLIN VARIANT (FRAGMENT).	IPI00555917					1
Protein binding	Cytoskeleton	PFN1	IPI00216691	16	13	22	19	13
Protein binding	Cytoskeleton	PFN2	IPI00107555	11	2	8		6
Protein binding	Cytoskeleton	PSTPIP2	IPI00170554				9	
Protein binding	Cytoskeleton	SIMILAR TO 40S RIBOSOMAL PROTEIN S11.	IPI00078131					2
Protein binding	Cytoskeleton	TAGLN2	IPI00647915		55	3	15	11
Protein binding	Cytoskeleton	TBCD	IPI00030774	3		11	3	
Protein binding	Cytoskeleton	TLN1	IPI00298994	12	155	10	42	11
Protein binding	Cytoskeleton	TUBA1	IPI00007750	5				3
Protein binding	Cytoskeleton	TUBA6	IPI00387144	156	179	221	174	215
Protein binding	Cytoskeleton	TUBAL3	IPI00015671					1
Protein binding	Cytoskeleton	TUBB	IPI00011654	206	103	308	217	152
Protein binding	Cytoskeleton	TUBB2A	IPI00013475	12	5	5	4	
Protein binding	Cytoskeleton	TUBB3	IPI00152453	3	1		1	4
Protein binding	Cytoskeleton	TUBB4	IPI00655896	28	111	24	32	30
Protein binding	Cytoskeleton	TUBB6	IPI00034283	4	4		6	
Protein binding	Cytoskeleton	TUBGCP2	IPI00029705	7		5		4
Protein binding	Cytoskeleton	TUBGCP3	IPI00033516	5				2
Protein binding	Cytoskeleton	TUBGCP5	IPI00045492			1		
Protein binding	Enzyme inhibitor	A2M	IPI00478003		156			
Protein binding	Enzyme inhibitor	AGT	IPI00032220		4			
Protein binding	Enzyme inhibitor	AHRR	IPI00025277	2	14	18	24	15
Protein binding	Enzyme inhibitor	AMBP	IPI00022426		4			
Protein binding	Enzyme inhibitor	ANGPTL3	IPI00004957					1
Protein binding	Enzyme inhibitor	ANP32E	IPI00165393	6		6		6
Protein binding	Enzyme inhibitor	ANXA1	IPI00218918		278		2	4
Protein binding	Enzyme inhibitor	ANXA2	IPI00418169	19	12	1	11	5
Protein binding	Enzyme inhibitor	ANXA3	IPI00024095		3			
Protein binding	Enzyme inhibitor	ANXA5	IPI00329801.		18			
Protein binding	Enzyme inhibitor	Axin1	IPI00204189			5	1	
Protein binding	Enzyme inhibitor	BIRC5	IPI00218095					2
Protein binding	Enzyme inhibitor	BIRC6	IPI00299635	9			12	20
Protein binding	Enzyme inhibitor	C3	IPI00164623		33			
Protein binding	Enzyme inhibitor	C4A	IPI00719024		16			
Protein binding	Enzyme inhibitor	C5	IPI00032291		4			
Protein binding	Enzyme inhibitor	CNOT1	IPI00166010	1		27	10	13
Protein binding	Enzyme inhibitor	COL6A3	IPI00022200		7			
Protein binding	Enzyme inhibitor	CST3	IPI00032293		2			
Protein binding	Enzyme inhibitor	CSTA	IPI00032325	4	4	1	5	9
Protein binding	Enzyme inhibitor	CSTB	IPI00021828	6	2	9		3
Protein binding	Enzyme inhibitor	FSTL3	IPI00025155	1	1			

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Protein binding	Enzyme inhibitor	HSPA5	IPI00003362	132	102	68	71	109
Protein binding	Enzyme inhibitor	IGBP1	IPI00019148					1
Protein binding	Enzyme inhibitor	ITIH1	IPI00292530		2			
Protein binding	Enzyme inhibitor	ITIH4	IPI00294193		1			
Protein binding	Enzyme inhibitor	KNG1	IPI00032328		18			
Protein binding	Enzyme inhibitor	NF1	IPI00299512	13	4	12	27	21
Protein binding	Enzyme inhibitor	PPP2R1A	IPI00419307	21	13	19	21	77
Protein binding	Enzyme inhibitor	PPP2R2A	IPI00332511	5			5	10
Protein binding	Enzyme inhibitor	PPP4R2	IPI00103654	16	8	30		25
Protein binding	Enzyme inhibitor	PROTEIN PHOSPHATASE 4 REGULATORY SUBUNIT 2.	IPI00067514					3
Protein binding	Enzyme inhibitor	RNH1	IPI00550069				1	
Protein binding	Enzyme inhibitor	SEL1L	IPI00002790	1	6	2		2
Protein binding	Enzyme inhibitor	SET	IPI00072377	17	3	4		8
Protein binding	Enzyme inhibitor	SET	IPI00301311		2		4	2
Protein binding	Enzyme inhibitor	STS-1	IPI00154910			62	186	40
Protein binding	Enzyme inhibitor	TFPI2	IPI00009198		18			
Protein binding	Enzyme inhibitor	TIMP2	IPI00027166		3			
Protein binding	Enzyme inhibitor	TIMP3	IPI00218247		3			
Protein binding	Enzyme inhibitor	TRAF1	IPI00011549	2				26
Protein binding	GTPase regulator	ABR	IPI00030389					2
Protein binding	GTPase regulator	ARFGEF1	IPI00002188	3		3		10
Protein binding	GTPase regulator	ARFGEF2	IPI00002186	42		12		26
Protein binding	GTPase regulator	ARHGDIA	IPI00003815		3	1		
Protein binding	GTPase regulator	ARHGDIB	IPI00003817		1	3	1	3
Protein binding	GTPase regulator	ARHGEF2	IPI00643259				1	
Protein binding	GTPase regulator	ARHGEF18	IPI00179437			1		
Protein binding	GTPase regulator	ARL2	IPI00003326		2		1	
Protein binding	GTPase regulator	CENTD1	IPI00292471	41		13	2	7
Protein binding	GTPase regulator	CENTD2	IPI00646915				6	
Protein binding	GTPase regulator	CENTD3	IPI00103380				48	
Protein binding	GTPase regulator	CTAGE6	IPI00470926	2				
Protein binding	GTPase regulator	DNMBP	IPI00174025					1
Protein binding	GTPase regulator	DOCK2	IPI00022449			56	13	30
Protein binding	GTPase regulator	DOCK8	IPI00552545					20
Protein binding	GTPase regulator	EIF2B1	IPI00221300				1	1
Protein binding	GTPase regulator	EIF2B4	IPI00220232	1				1
Protein binding	GTPase regulator	EIF2B5	IPI00011898					3
Protein binding	GTPase regulator	EPS8L1	IPI00301250		7			
Protein binding	GTPase regulator	EVI5L	IPI00060473		1		3	4
Protein binding	GTPase regulator	FARP1	IPI00450955		3			
Protein binding	GTPase regulator	FGD3	IPI00384357		2			
Protein binding	GTPase regulator	GAPVD1	IPI00292753	149	24	242	187	234
Protein binding	GTPase regulator	GBF1	IPI00021954	9		3		18
Protein binding	GTPase regulator	GBL	IPI00549974		7			
Protein binding	GTPase regulator	GDI2	IPI00031461				5	
Protein binding	GTPase regulator	GNB1	IPI00026268		3		2	2
Protein binding	GTPase regulator	GNB1L	IPI00107339				12	3
Protein binding	GTPase regulator	GNB2	IPI00003348		6	3		
Protein binding	GTPase regulator	GNB4	IPI00012451					4
Protein binding	GTPase regulator	HERC2	IPI00005826				13	
Protein binding	GTPase regulator	IQGAP1	IPI00009342	59	71	7	9	20
Protein binding	GTPase regulator	IQGAP2	IPI00299048		55	3	7	
Protein binding	GTPase regulator	KIAA1244	IPI00179164	4				
Protein binding	GTPase regulator	LOC389842	IPI00399212	2			10	5
Protein binding	GTPase regulator	PTPLAD1	IPI00008998	14	18	4	7	14
Protein binding	GTPase regulator	RAB3-GAP150	IPI00554590	4		4		
Protein binding	GTPase regulator	RANBP2	IPI00221325	9		3		32
Protein binding	GTPase regulator	RANBP5	IPI00329200	31	7	36	24	65
Protein binding	GTPase regulator	RANBP6	IPI00514622					4
Protein binding	GTPase regulator	RANBP10	IPI00039864	1				
Protein binding	GTPase regulator	RANGAP1	IPI00411570					5
Protein binding	GTPase regulator	RAP1GDS1	IPI00607591			1		
Protein binding	GTPase regulator	RASA1	IPI00026262		19		2	
Protein binding	GTPase regulator	RCC1	IPI00001661				4	
Protein binding	GTPase regulator	RGS13	IPI00024710					6
Protein binding	GTPase regulator	RIN1	IPI00014454	47				
Protein binding	GTPase regulator	TBC1D1	IPI00164610					1
Protein binding	GTPase regulator	TBC1D4	IPI00220901	3				43
Protein binding	GTPase regulator	TBC1D15	IPI00154645			2		
Protein binding	GTPase regulator	TSC2	IPI00028493			17		8
Protein binding	GTPase regulator	VAV1	IPI00011696			32	5	3
Protein binding	GTPase regulator	VAV3	IPI00299763			6		
Protein binding	GTPase regulator	WAS	IPI00001545					5
Protein binding	Kinase regulatory subunit	AHSG	IPI00022431		7			
Protein binding	Kinase regulatory subunit	AZI2	IPI00008255	108	68	153	135	129
Protein binding	Kinase regulatory subunit	CABLES1	IPI00291427	22				32
Protein binding	Kinase regulatory subunit	CABLES2	IPI00030512			27		3
Protein binding	Kinase regulatory subunit	CABLES2	IPI00552732					1
Protein binding	Kinase regulatory subunit	CCNH	IPI00021305	63	10	57	100	92
Protein binding	Kinase regulatory subunit	CCNI	IPI00028541	12		21	26	53
Protein binding	Kinase regulatory subunit	CDC16	IPI00022091	24		30	13	15
Protein binding	Kinase regulatory subunit	CDC26	IPI00169387				6	
Protein binding	Kinase regulatory subunit	CDC27	IPI00294575	35		6	9	15
Protein binding	Kinase regulatory subunit	CDK5R1	IPI00014316			14		
Protein binding	Kinase regulatory subunit	CDKN2A	IPI00001560	9				
Protein binding	Kinase regulatory subunit	CKS1B	IPI00015104	2			2	
Protein binding	Kinase regulatory subunit	CSNK2B	IPI00010865	40	62	136	101	132
Protein binding	Kinase regulatory subunit	GMFG	IPI00028414					2
Protein binding	Kinase regulatory subunit	IKBKAP	IPI00293735	25		20		11
Protein binding	Kinase regulatory subunit	MADD	IPI00103536					2
Protein binding	Kinase regulatory subunit	MAP2K1IP1	IPI00030919					9
Protein binding	Kinase regulatory subunit	PAG1	IPI00020464			120		278
Protein binding	Kinase regulatory subunit	PIK3R1	IPI00021448		6		14	3
Protein binding	Kinase regulatory subunit	PIK3R2	IPI00011736				19	
Protein binding	Kinase regulatory subunit	PRKAB2	IPI00013905	123	78	56	33	59
Protein binding	Kinase regulatory subunit	PRKAG2	IPI00005367	28	99	12	17	36
Protein binding	Kinase regulatory subunit	PRKAR1A	IPI00021831					2
Protein binding	Kinase regulatory subunit	Rictor	IPI00455500	14				2
Protein binding	Kinase regulatory subunit	SFN	IPI00013890	19				3
Protein binding	Kinase regulatory subunit	TBKBP1	IPI00006064	190	11	53	158	63
Protein binding	Kinase regulatory subunit	YWHAG	IPI00220642	86	25	37	82	63
Protein binding	Kinase regulatory subunit	YWHAH	IPI00216319	26	19	22	38	42
Protein binding	Receptor binding	ACTN1	IPI00013508		7	2	1	
Protein binding	Receptor binding	ACTN4	IPI00013808		32		30	
Protein binding	Receptor binding	AKAP9	IPI00220628					11
Protein binding	Receptor binding	ARTS-1	IPI00165949		5	3	4	
Protein binding	Receptor binding	AZGP1	IPI00166729	2	1	3		1
Protein binding	Receptor binding	BCAP31	IPI00218200		5			
Protein binding	Receptor binding	BID	IPI00420084			3	1	
Protein binding	Receptor binding	BID	IPI00472003					2

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Protein binding	Receptor binding	BST2	IPI00026241	2	3	3		7
Protein binding	Receptor binding	C20orf14	IPI00305068				1	
Protein binding	Receptor binding	CCNE1	IPI00031077	11			7	4
Protein binding	Receptor binding	CD74	IPI00022933					11
Protein binding	Receptor binding	CMTM6	IPI00015801			1		3
Protein binding	Receptor binding	CSH2	IPI00025785		86			
Protein binding	Receptor binding	CTNNB1	IPI00017292		10			
Protein binding	Receptor binding	DIAPH1	IPI00030876	10	1	12		
Protein binding	Receptor binding	DOK1	IPI00015287			4	12	9
Protein binding	Receptor binding	DOK2	IPI00022602		2	2	34	
Protein binding	Receptor binding	EBI3	IPI00034088		3			
Protein binding	Receptor binding	ENSA	IPI00410177	1				
Protein binding	Receptor binding	FAM3C	IPI00334282		2			
Protein binding	Receptor binding	FGF2	IPI00154603				17	
Protein binding	Receptor binding	FHL2	IPI00396967		3			
Protein binding	Receptor binding	FYB	IPI00073110			93		
Protein binding	Receptor binding	GABARAPL2	IPI00026358					4
Protein binding	Receptor binding	GH1	IPI00000890		2			
Protein binding	Receptor binding	GLG1	IPI00414717		2	8		2
Protein binding	Receptor binding	GNB2L1	IPI00641950	7	4	3	2	6
Protein binding	Receptor binding	GPI	IPI00027497	2			2	
Protein binding	Receptor binding	GRB2	IPI00021327		6	6	152	7
Protein binding	Receptor binding	HDGF	IPI00514127	4				
Protein binding	Receptor binding	HYPOTHETICAL PROTEIN.	IPI00655954		2			
Protein binding	Receptor binding	JAG2	IPI00032416	1				
Protein binding	Receptor binding	KL	IPI00295265		29			
Protein binding	Receptor binding	LAMA2	IPI00218725		3			
Protein binding	Receptor binding	LIME1	IPI00646802					90
Protein binding	Receptor binding	MIF	IPI00293276	173	363	285	251	242
Protein binding	Receptor binding	MSN	IPI00514912	14	9	17	22	
Protein binding	Receptor binding	NCK1	IPI00028065				1	
Protein binding	Receptor binding	P11	IPI00006995		6			
Protein binding	Receptor binding	PDGFC	IPI00099977		1			
Protein binding	Receptor binding	PSMC5	IPI00023919	3		1	4	3
Protein binding	Receptor binding	REEP5	IPI00024670		9			
Protein binding	Receptor binding	REEP6	IPI00646963				3	
Protein binding	Receptor binding	RETN	IPI00006988		1			
Protein binding	Receptor binding	SCYE1	IPI00006252	9				3
Protein binding	Receptor binding	SNW1	IPI00013830					1
Protein binding	Receptor binding	SOCS2	IPI00033944				2	
Protein binding	Receptor binding	SRI	IPI00027175		10		3	6
Protein binding	Receptor binding	STOML2	IPI00477195	14	3	3	3	11
Protein binding	Receptor binding	TGFBI	IPI00018219		6			
Protein binding	Receptor binding	TMED1	IPI00009976		1			
Protein binding	Receptor binding	TOLLIP	IPI00654582	2				
Protein binding	Receptor binding	TRA1	IPI00027230	14	77		16	
Protein binding	Receptor binding	TRAP1	IPI00030275	4		3	4	
Protein binding	Receptor binding	TRIP6	IPI00301561				1	
Protein binding	Receptor binding	TXLNA	IPI00470779	7		9	11	4
Protein binding	Receptor binding	YARS	IPI00007074				4	
Protein binding	Enzyme activator	AHSA1	IPI00030706	2				4
Protein binding	Enzyme activator	ALOX5AP	IPI00022975					2
Protein binding	Enzyme activator	ARL1	IPI00219518		4	2		6
Protein binding	Enzyme activator	CACYBP	IPI00395627	15		18	19	10
Protein binding	Enzyme activator	DBNL	IPI00101968		10			2
Protein binding	Enzyme activator	FBLN1	IPI00296534		39			
Protein binding	Enzyme activator	FZR1	IPI00383919	12			7	
Protein binding	Enzyme activator	GM2A	IPI00018236					5
Protein binding	Enzyme activator	MAP3K7IP1	IPI00019459					4
Protein binding	Enzyme activator	MRCL3	IPI00220573		1			5
Protein binding	Enzyme activator	PLAA	IPI00550517			2	3	4
Protein binding	Enzyme activator	PSME1	IPI00479722	17	17	18	10	26
Protein binding	Enzyme activator	PSME2	IPI00384051	9	7	14	7	22
Protein binding	Enzyme activator	PSME3	IPI00219445	9		4	1	12
Protein binding	Enzyme activator	PYCARD	IPI00001699				3	
Protein binding	Enzyme activator	RFC1	IPI00375358					2
Protein binding	Enzyme activator	TIFA	IPI00514147					4
Protein binding	Proteinase inhibitor	IPI00098880.1	IPI00098880					1
Protein binding	Proteinase inhibitor	SERPINA1	IPI00553177		28			
Protein binding	Proteinase inhibitor	SERPINB1	IPI00027444	8			5	4
Protein binding	Proteinase inhibitor	SERPINB2	IPI00007117		53			
Protein binding	Proteinase inhibitor	SERPINB3	IPI00022204					16
Protein binding	Proteinase inhibitor	SERPINB6	IPI00413451		6		2	
Protein binding	Proteinase inhibitor	SERPINB9	IPI00032139		8		11	16
Protein binding	Proteinase inhibitor	SERPINB12	IPI00643202	3	3			3
Protein binding	Proteinase inhibitor	SERPINC1	IPI00032179		4			
Protein binding	Other	XTP3TPA	IPI00012197	8	8	27	58	110
Protein binding	Other	39326	IPI00033025		4	2	3	
Protein binding	Other	39692	IPI00022082		1			
Protein binding	Other	40787	IPI00019376		1		1	
Protein binding	Other	42248	IPI00030877	2	2	2		3
Protein binding	Other	ABI1	IPI00431025	4			20	
Protein binding	Other	ACTA2	IPI00640698		43	3	6	3
Protein binding	Other	ACTG1	IPI00021439	36	73	35	124	99
Protein binding	Other	ACTL6A	IPI00003627	1			4	3
Protein binding	Other	ACTR2	IPI00470573		2		2	5
Protein binding	Other	ACTR3	IPI00028091					4
Protein binding	Other	ADRM1	IPI00033030	3			4	2
Protein binding	Other	AHNAK	IPI00021812	28	62		54	
Protein binding	Other	AKAP8L	IPI00297455	4		5	8	3
Protein binding	Other	ALB	IPI00022434	12	441	7		8
Protein binding	Other	ANKRD13	IPI00217831					2
Protein binding	Other	ANKRD28	IPI00477505			10	15	1
Protein binding	Other	ANKRD44	IPI00395999	1		9	5	7
Protein binding	Other	AP1B1	IPI00328257		6		3	9
Protein binding	Other	AP1M1	IPI00032516				3	
Protein binding	Other	AP2B1	IPI00220991	71	28		102	39
Protein binding	Other	API5	IPI00555572	2				
Protein binding	Other	ARF6	IPI00215920		4			3
Protein binding	Other	ARL6IP5	IPI00007426		6			
Protein binding	Other	ARMC8	IPI00332835	1				
Protein binding	Other	ARPC4	IPI00554811		7		2	3
Protein binding	Other	ASF1A	IPI00292168			2	2	
Protein binding	Other	AVEN	IPI00006904			1		
Protein binding	Other	AXIN1	IPI00005188	4		5	8	
Protein binding	Other	BAG2	IPI00000643	7		5	9	5
Protein binding	Other	BAX	IPI00444945					5
Protein binding	Other	BET1	IPI00470941		1	2		3
Protein binding	Other	BIRC2	IPI00013418			3	10	8
Protein binding	Other	BIRC3	IPI00013409	2				68

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Protein binding	Other	BLOC1S1	IPI00020319					2
Protein binding	Other	BUB3	IPI00013468	7			4	5
Protein binding	Other	C1orf19	IPI00514682				1	
Protein binding	Other	C1orf73	IPI00550858	2		4		1
Protein binding	Other	C1QBP	IPI00014230	4		3	3	7
Protein binding	Other	C6orf82	IPI00034319					1
Protein binding	Other	C9orf32	IPI00549389					3
Protein binding	Other	C9orf89	IPI00336153		2	4		6
Protein binding	Other	C15orf23	IPI00294680	1				
Protein binding	Other	C20orf18	IPI00010266					11
Protein binding	Other	CALCOCO2	IPI00102070	19		26		15
Protein binding	Other	CALD1	IPI00014516		59			
Protein binding	Other	CALM2	IPI00075248.	7	9	9	17	8
Protein binding	Other	CAND1	IPI00100160	10	19	28	10	23
Protein binding	Other	CAP1	IPI00639931		7		4	
Protein binding	Other	CAPG	IPI00027341	1	1			
Protein binding	Other	CAPZA1	IPI00005969	4	12	9	15	11
Protein binding	Other	CAPZA2	IPI00026182		6			3
Protein binding	Other	CAPZB	IPI00218782	3	19	17	12	20
Protein binding	Other	CARHSP1	IPI00304409				3	
Protein binding	Other	CAV1	IPI00009236		4			
Protein binding	Other	CBX3	IPI00297579		2	4	2	3
Protein binding	Other	CCNA2	IPI00022865	26			12	11
Protein binding	Other	CCNB1	IPI00294696	51		45	92	12
Protein binding	Other	CCNB2	IPI00028266	3		5	3	6
Protein binding	Other	CCND3	IPI00025817			3		6
Protein binding	Other	CCNE2	IPI00014085					1
Protein binding	Other	CCNK	IPI00431127	7		14	5	6
Protein binding	Other	CCNT1	IPI00030247	57		45	83	111
Protein binding	Other	CCNT2	IPI00030313	23			12	6
Protein binding	Other	CCT2	IPI00297779	10	8	13	11	5
Protein binding	Other	CCT3	IPI00553185	10	2	12	14	30
Protein binding	Other	CCT4	IPI00302927	14	5	3	5	17
Protein binding	Other	CCT5	IPI00010720	13	5	8	13	19
Protein binding	Other	CCT6A	IPI00027626	12	6	15	7	21
Protein binding	Other	CCT7	IPI00018465	15		18	7	17
Protein binding	Other	CD81	IPI00000190		1			3
Protein binding	Other	CDC37	IPI00013122	5	5	3	19	21
Protein binding	Other	CDC45L	IPI00025695			2		
Protein binding	Other	CDC73	IPI00300659	5			5	14
Protein binding	Other	CDH1	IPI00025861		2			
Protein binding	Other	CEP57	IPI00465200					3
Protein binding	Other	ch-TOG	IPI00028275				4	12
Protein binding	Other	CHCHD2	IPI00007673		2		5	4
Protein binding	Other	CHCHD3	IPI00015833	14	27	30	7	24
Protein binding	Other	CHCHD6	IPI00031622	6		7	2	
Protein binding	Other	CIB1	IPI00018451		2			1
Protein binding	Other	CKAP1	IPI00293126			1		1
Protein binding	Other	CLTC	IPI00024067	53	41	33	38	45
Protein binding	Other	CNAP1	IPI00299524	7		16		13
Protein binding	Other	CNN2	IPI00015262	8		7	4	25
Protein binding	Other	CNN3	IPI00216682		2			
Protein binding	Other	COG4	IPI00149849		1		1	1
Protein binding	Other	COG5	IPI00377050			2	5	2
Protein binding	Other	COG7	IPI00164005	3		7	5	4
Protein binding	Other	COL6A1	IPI00291136		10			
Protein binding	Other	COL6A2	IPI00304840		4			
Protein binding	Other	COL14A1	IPI00176193		53			
Protein binding	Other	COPB	IPI00295851	33	26	21	24	32
Protein binding	Other	CORO1A	IPI00010133			6		5
Protein binding	Other	CORO1C	IPI00008453		1		8	
Protein binding	Other	CPSF1	IPI00026219	13		15	3	15
Protein binding	Other	CPSF3L	IPI00063404			1		
Protein binding	Other	CTNNA1	IPI00473136	9	8			
Protein binding	Other	CTNND1	IPI00182540		7			
Protein binding	Other	CTTN	IPI00062884	11	4			
Protein binding	Other	CUL1	IPI00014310	9				
Protein binding	Other	CUL2	IPI00014311			1		
Protein binding	Other	CUL3	IPI00014312			9	1	4
Protein binding	Other	DAAM1	IPI00337800					5
Protein binding	Other	DAG1	IPI00028911		1			
Protein binding	Other	DCTN1	IPI00029485	7		18		14
Protein binding	Other	DCTN3	IPI00027014		2			1
Protein binding	Other	DEPDC6	IPI00290560					3
Protein binding	Other	DIABLO	IPI00008418		2		4	9
Protein binding	Other	DKFZP564A022 PROTEIN.	IPI00384679		4			1
Protein binding	Other	DMXL1	IPI00294728					6
Protein binding	Other	DNAJA2	IPI00032406	7		4	6	8
Protein binding	Other	DNAJA3	IPI00294610					5
Protein binding	Other	DNAJA5	IPI00413366	1				
Protein binding	Other	DNAJB6	IPI00556073	1				
Protein binding	Other	DNAJB11	IPI00008454					4
Protein binding	Other	DNAJB12	IPI00014400					3
Protein binding	Other	DNAJC7	IPI00329629	6				11
Protein binding	Other	DNAJC12	IPI00029149	3				
Protein binding	Other	DNAJC14	IPI00396326	3		3	6	2
Protein binding	Other	DNAJC19	IPI00304306	5	1		4	2
Protein binding	Other	DPT	IPI00292130		2			
Protein binding	Other	DRG1	IPI00031836				1	
Protein binding	Other	DRIM	IPI00004970	5				23
Protein binding	Other	DSC1	IPI00386975			2		3
Protein binding	Other	DSG1	IPI00025753	22	20	22	17	9
Protein binding	Other	DSP	IPI00013933	81	63	28	40	55
Protein binding	Other	DSTN	IPI00473014		15	3	4	6
Protein binding	Other	DYSF	IPI00020210		55			
Protein binding	Other	EEF1E1	IPI00003588		3	2	11	7
Protein binding	Other	EFS	IPI00011652		19			
Protein binding	Other	EIF3S6IP	IPI00465233	12	2	6	4	20
Protein binding	Other	ELAVL1	IPI00301936		1			
Protein binding	Other	ELMO1	IPI00219532		2	8	4	7
Protein binding	Other	EMD	IPI00032003	8	6		2	10
Protein binding	Other	ENG	IPI00017567		2			
Protein binding	Other	EPB41L2	IPI00015973				2	
Protein binding	Other	EPB41L3	IPI00032230		24			
Protein binding	Other	ERGIC1	IPI00022887	7	8	6	6	10
Protein binding	Other	EVL	IPI00218245					2
Protein binding	Other	EWSR1	IPI00009841	38	1	31	37	31
Protein binding	Other	EWSR1	IPI00335961	2				
Protein binding	Other	FANCA	IPI00006170	3		5		10
Protein binding	Other	FANCD2	IPI00075081	15		26		11

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Protein binding	Other	FBXO6	IPI00171291				1	
Protein binding	Other	FGA	IPI00021885		14			
Protein binding	Other	FGB	IPI00298497		10			
Protein binding	Other	FGG	IPI00021891		22			
Protein binding	Other	FIBP	IPI00012443	32	14	26	20	74
Protein binding	Other	FIS1	IPI00007052	2	4	2	1	4
Protein binding	Other	FLJ12529	IPI00550821			2	1	
Protein binding	Other	FLJ14668	IPI00303722	4		2		2
Protein binding	Other	FLJ20297	IPI00007929					3
Protein binding	Other	FLNA	IPI00333541	17	171	50	24	12
Protein binding	Other	FLNB	IPI00289334		29	36	34	
Protein binding	Other	FLNC	IPI00178352				64	
Protein binding	Other	FLOT1	IPI00027438					4
Protein binding	Other	FLOT2	IPI00386741					4
Protein binding	Other	FSCN1	IPI00163187				9	
Protein binding	Other	FUS	IPI00260715	27		29	16	21
Protein binding	Other	FXR1	IPI00016249	5		6		
Protein binding	Other	G1P2	IPI00375631		1	8		
Protein binding	Other	GEMIN4	IPI00027717	12		17	5	2
Protein binding	Other	GEMIN5	IPI00291783	21		1	2	14
Protein binding	Other	GEMIN6	IPI00103087			1	1	2
Protein binding	Other	GEMIN7	IPI00003027					2
Protein binding	Other	GMCL1	IPI00063669			11		8
Protein binding	Other	GOLGA2	IPI00478549	3			4	1
Protein binding	Other	GOLGB1	IPI00004671	10		10	15	13
Protein binding	Other	GRPEL1	IPI00029557					2
Protein binding	Other	GSN	IPI00026314		4			
Protein binding	Other	HAX1	IPI00010440	3				9
Protein binding	Other	HBXIP	IPI00012831					1
Protein binding	Other	HEATR1	IPI00024279	50		14	20	19
Protein binding	Other	HIRIP5	IPI00455153	1	2	1	2	1
Protein binding	Other	HIST3H2A	IPI00219037	7	17	5	11	12
Protein binding	Other	HMG1L1	IPI00419258	38	14	16	18	11
Protein binding	Other	HNRPA1	IPI00215965	8	9		5	4
Protein binding	Other	HNRPA2B1	IPI00396378	3	12		2	2
Protein binding	Other	HNRPC	IPI00216592		6			
Protein binding	Other	HNRPF	IPI00003881	4		6	11	16
Protein binding	Other	HNRPH1	IPI00479191	11	7	3	12	5
Protein binding	Other	HNRPK	IPI00216746	15	51	14	5	10
Protein binding	Other	HSPA9B	IPI00007765	186	20	46	127	75
Protein binding	Other	HSPBP1	IPI00100748	4				7
Protein binding	Other	HSPC152	IPI00106374	3		2	2	4
Protein binding	Other	IGFBP1	IPI00031086		1			
Protein binding	Other	IGHA1	IPI00430842		1			
Protein binding	Other	IGJ	IPI00178926		4	1		8
Protein binding	Other	IGSF8	IPI00056478			1		
Protein binding	Other	IMMT	IPI00009960	32	62	72	39	76
Protein binding	Other	INCENP	IPI00024970	27		45	37	38
Protein binding	Other	INT1	IPI00175295	9		5		4
Protein binding	Other	ISGF3G	IPI00094740					17
Protein binding	Other	ISOC2	IPI00003031		7	9	41	22
Protein binding	Other	IVNS1ABP	IPI00014319			5		2
Protein binding	Other	JUP	IPI00554711	11	28	9	15	17
Protein binding	Other	KBTBD7	IPI00383044					1
Protein binding	Other	KEAP1	IPI00106502	3		2		15
Protein binding	Other	KIAA0174	IPI00024660		4			
Protein binding	Other	KIAA1604	IPI00177381			4	1	2
Protein binding	Other	KIAA1698	IPI00304676			3		
Protein binding	Other	KLHL23	IPI00062213			10		1
Protein binding	Other	LAMB1	IPI00013976		1			
Protein binding	Other	LAMC1	IPI00298281		9			
Protein binding	Other	LAT2	IPI00395993					4
Protein binding	Other	LCP1	IPI00010471		9	29	10	35
Protein binding	Other	LIN7C	IPI00019997		4	3	3	5
Protein binding	Other	LMNA	IPI00021405	2	6			6
Protein binding	Other	LOC149329	IPI00554749	12	24	15	27	107
Protein binding	Other	LOC391039	IPI00457307		31	11	29	17
Protein binding	Other	LSM8	IPI00219871	1				1
Protein binding	Other	LSM14A	IPI00478300	3		4	4	12
Protein binding	Other	LUZP5	IPI00396058			6		
Protein binding	Other	MAD2L1	IPI00012369			5	4	10
Protein binding	Other	MAD2L2	IPI00645963				1	
Protein binding	Other	Magmas	IPI00218463	1			2	3
Protein binding	Other	MAGOH	IPI00641469		1	1		
Protein binding	Other	MAPRE1	IPI00017596	4			4	
Protein binding	Other	MARCKS	IPI00219301		19			
Protein binding	Other	MARCKSL1	IPI00641181	1			1	
Protein binding	Other	MGC52010	IPI00219006					4
Protein binding	Other	MIG12	IPI00009730			5		3
Protein binding	Other	MNAT1	IPI00294701	58	6	48	87	72
Protein binding	Other	MSH2	IPI00017303				6	
Protein binding	Other	MTPN	IPI00179589			1	2	3
Protein binding	Other	MUTED	IPI00154778		1	2	1	
Protein binding	Other	MYH9	IPI00019502	139	10	59	47	56
Protein binding	Other	MYH10	IPI00397526	32	2	3	13	
Protein binding	Other	MYH11	IPI00020501		18			
Protein binding	Other	MYO1B	IPI00376344			1		
Protein binding	Other	MYO1C	IPI00010418		1			
Protein binding	Other	MYO1F	IPI00414576					3
Protein binding	Other	NAP1L1	IPI00023860	3		1	1	
Protein binding	Other	NAP1L4	IPI00017763	5				
Protein binding	Other	NCBP1	IPI00019380			3	8	1
Protein binding	Other	NCBP2	IPI00183500				8	6
Protein binding	Other	NCKAP1	IPI00409684	22	7		86	
Protein binding	Other	NID1	IPI00026944		3			
Protein binding	Other	NIFIE14	IPI00013293			3	2	2
Protein binding	Other	NOMO1	IPI00465432	3		1		
Protein binding	Other	NONO	IPI00304596	12		5	8	12
Protein binding	Other	NUDT21	IPI00646917	2	2	2	3	2
Protein binding	Other	NUMA1	IPI00292771	6		48	5	5
Protein binding	Other	NUP85	IPI00171542	3		4		4
Protein binding	Other	NUP205	IPI00472675	78	21	101	9	82
Protein binding	Other	NUP210	IPI00291755	14		23	6	19
Protein binding	Other	NXT1	IPI00007605			1		
Protein binding	Other	PABPN1	IPI00005792		1			
Protein binding	Other	PARVA	IPI00018963	45	16			
Protein binding	Other	PARVB	IPI00382605	28	7		7	
Protein binding	Other	PARVG	IPI00005512			36		9
Protein binding	Other	PCBP1	IPI00016610	28	40	20	15	62
Protein binding	Other	PCBP2	IPI00216689	7	6	9	12	7

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				HeLa	Placenta	Jurkat	K562	Ramos
Protein binding	Other	PCDH9	IPI00409626	5				
Protein binding	Other	PDCD6IP	IPI00246058	6	11	4	9	4
Protein binding	Other	PDLIM2	IPI00396593		1			
Protein binding	Other	PEF1	IPI00018235	5	6	8	4	9
Protein binding	Other	PEX3	IPI00010232					1
Protein binding	Other	PEX11B	IPI00021978	2	2	10	5	9
Protein binding	Other	PFDN2	IPI00006052	2	2	2	6	5
Protein binding	Other	PHKB	IPI00218571	41	17	12	16	24
Protein binding	Other	PIP	IPI00022974	3	7	3	2	2
Protein binding	Other	PKP1	IPI00071509		3	2	3	2
Protein binding	Other	PLEC1	IPI00014898		9	19	37	59
Protein binding	Other	PLEKHC1	IPI00000856		6			
Protein binding	Other	POTE2	IPI00455547					1
Protein binding	Other	PRPF8	IPI00007928			8	33	
Protein binding	Other	PRPF40A	IPI00337387			5	6	3
Protein binding	Other	PSMD2	IPI00012268	22	8	6	12	9
Protein binding	Other	PSMD9	IPI00010860		2	4	4	6
Protein binding	Other	PTBP1	IPI00183626	9	14	3	8	11
Protein binding	Other	PURB	IPI00045051		1			
Protein binding	Other	PXN	IPI00220031		15			2
Protein binding	Other	RAB1A	IPI00005719		14		6	7
Protein binding	Other	RABL3	IPI00102897	8	6	14	7	10
Protein binding	Other	RAE1	IPI00019733					1
Protein binding	Other	RAI14	IPI00292953		1			
Protein binding	Other	RALB	IPI00444204		3		1	
Protein binding	Other	RAP1A	IPI00015148		6		4	3
Protein binding	Other	RASSF2	IPI00414179					6
Protein binding	Other	RASSF5	IPI00332633			7	3	
Protein binding	Other	RBBP5	IPI00021035			1	1	2
Protein binding	Other	RBBP7	IPI00646512				2	
Protein binding	Other	RBL1	IPI00005139			3		4
Protein binding	Other	RBL2	IPI00304028			15	6	8
Protein binding	Other	RBMXL1	IPI00304692		2			
Protein binding	Other	RBX1	IPI00003386	7	6	8	9	9
Protein binding	Other	RCD-8	IPI00376317	12		6		1
Protein binding	Other	RDX	IPI00017367	13			2	
Protein binding	Other	REPS1	IPI00337532	25				10
Protein binding	Other	RGS19	IPI00028108					7
Protein binding	Other	RNF7	IPI00033132	3	1	2	2	2
Protein binding	Other	RRAS2	IPI00012512		1			
Protein binding	Other	RTN4	IPI00021766		1			
Protein binding	Other	SAMSN1	IPI00185526				4	
Protein binding	Other	SCC-112	IPI00303063	2		20		8
Protein binding	Other	SDC1	IPI00002441		9			
Protein binding	Other	SDFR1	IPI00018311		1			
Protein binding	Other	SERBP1	IPI00410693	10	3	5	5	7
Protein binding	Other	SERF2	IPI00024781	3				8
Protein binding	Other	SERF2	IPI00335001				1	
Protein binding	Other	SF3B3	IPI00300371	14		22	14	17
Protein binding	Other	SF3B4	IPI00017339				1	
Protein binding	Other	SFPQ	IPI00010740	22		21	23	30
Protein binding	Other	SFRS1	IPI00218591	3	6	2	5	4
Protein binding	Other	SFRS3	IPI00010204		3			
Protein binding	Other	SFRS7	IPI00003377					2
Protein binding	Other	SGTA	IPI00013949				2	
Protein binding	Other	SH2D1A	IPI00032401			2		
Protein binding	Other	SH2D2A	IPI00220388			2	12	
Protein binding	Other	SH3BGRL	IPI00025318				1	
Protein binding	Other	SHANK2	IPI00643662	8				
Protein binding	Other	SHC1	IPI00021326				20	
Protein binding	Other	SIAHBP1	IPI00069750	6			2	14
Protein binding	Other	SIMILAR TO U2 SMALL NUCLEAR RIBONUCLEOPROTEIN B.	IPI00550235	2	1			
Protein binding	Other	SIP1	IPI00024281	3				1
Protein binding	Other	SKP1A	IPI00163974		6	6	6	10
Protein binding	Other	SMC2L1	IPI00007927	7		16	4	35
Protein binding	Other	SMC4L1	IPI00411559	26		41	2	26
Protein binding	Other	SMCHD1	IPI00465022				3	
Protein binding	Other	SMN1	IPI00003394	4		1		5
Protein binding	Other	SMNDC1	IPI00025176			2		3
Protein binding	Other	SNAP23	IPI00010438		4	4		8
Protein binding	Other	SNAPAP	IPI00018331			1		2
Protein binding	Other	SNRPA	IPI00012382				2	
Protein binding	Other	SNRPB	IPI00329512					4
Protein binding	Other	SNRPB2	IPI00029267	1		2	4	3
Protein binding	Other	SNRPD1	IPI00302850	3		2	6	4
Protein binding	Other	SNRPD2	IPI00017963	7	4	9	16	13
Protein binding	Other	SNRPD3	IPI00017964	3	3	4	5	8
Protein binding	Other	SNRPE	IPI00029266	1			3	
Protein binding	Other	SNRPG	IPI00016572					1
Protein binding	Other	SNTB1	IPI00026059					8
Protein binding	Other	SNTB2	IPI00009505					17
Protein binding	Other	SNX1	IPI00183530		5			3
Protein binding	Other	SNX22	IPI00307039					13
Protein binding	Other	SPTAN1	IPI00478292			131	84	
Protein binding	Other	SPTBN1	IPI00005614		5	72	106	
Protein binding	Other	SQSTM1	IPI00179473	4				
Protein binding	Other	SSR3	IPI00009235		2	2		2
Protein binding	Other	SSRP1	IPI00005154	19				
Protein binding	Other	STMN1	IPI00479997		5		18	7
Protein binding	Other	STN2	IPI00103521				8	
Protein binding	Other	STRN4	IPI00003016					1
Protein binding	Other	STX4A	IPI00029730		2			
Protein binding	Other	STX18	IPI00027194					1
Protein binding	Other	SUMO2	IPI00140827	2				
Protein binding	Other	SYMPK	IPI00023344	1		3		7
Protein binding	Other	SYNE1	IPI00386444					9
Protein binding	Other	SYNE2	IPI00239406					26
Protein binding	Other	SYVN1	IPI00166996	3		4		8
Protein binding	Other	TAGLN	IPI00216138		57			
Protein binding	Other	TANK	IPI00299166	182	124	215	225	585
Protein binding	Other	TBCA	IPI00217236	4	2		5	
Protein binding	Other	TCEB1	IPI00300341	8		8	5	7
Protein binding	Other	TCEB2	IPI00410162	4	1	5	6	16
Protein binding	Other	TCL1A	IPI00178749					13
Protein binding	Other	TCP1	IPI00290566	11	5	8	10	12
Protein binding	Other	THOC4	IPI00328840	11		24	13	24
Protein binding	Other	TMEM4	IPI00443909		1		1	
Protein binding	Other	TMPO	IPI00030131				1	
Protein binding	Other	TMPO	IPI00216230				2	7
Protein binding	Other	TNIP1	IPI00237449					1

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Protein binding	Other	TNKS1BP1	IPI00304589		4			
Protein binding	Other	TNS1	IPI00307545	102	14			
Protein binding	Other	TPD52	IPI00218323		1			2
Protein binding	Other	TPD52L2	IPI00399265	1	3			
Protein binding	Other	TPM1	IPI00218319	21	15	15	19	9
Protein binding	Other	TPM1	IPI00442122		8			
Protein binding	Other	TPM2	IPI00220709		3			
Protein binding	Other	TPM4	IPI00216975		28	4		
Protein binding	Other	TRAF3	IPI00297473			4		
Protein binding	Other	TRAF5	IPI00005760					2
Protein binding	Other	TRIM31	IPI00643935	2				
Protein binding	Other	TRIM59	IPI00432462				32	
Protein binding	Other	TRIM65	IPI00419451			2		2
Protein binding	Other	U2AF1	IPI00619914	6	4		3	5
Protein binding	Other	UBAP2L	IPI00412535	2				11
Protein binding	Other	URP2	IPI00397834	1			1	1
Protein binding	Other	UTRN	IPI00009329			31	1	211
Protein binding	Other	UTRN	IPI00514575			4		6
Protein binding	Other	VAMP3	IPI00514389		3			
Protein binding	Other	VASP	IPI00301058				4	
Protein binding	Other	VBP1	IPI00334159			2		
Protein binding	Other	VIL2	IPI00479359	4	53			5
Protein binding	Other	VIM	IPI00418471		7		24	
Protein binding	Other	VPS28	IPI00328913		4	3	3	
Protein binding	Other	VPS35	IPI00018931	1	6	3	5	
Protein binding	Other	VWF	IPI00023014		7			
Protein binding	Other	WASF2	IPI00472164	5			14	4
Protein binding	Other	WBP2	IPI00032050					1
Protein binding	Other	WDR1	IPI00216256		7	4		
Protein binding	Other	WDR5	IPI00005492		1		5	3
Protein binding	Other	WDR68	IPI00006754	8	2	11	15	17
Protein binding	Other	XPO5	IPI00640703	51	5	47	52	41
Protein binding	Other	YWHAE	IPI00000816	123	72	99	150	80
Protein binding	Other	YWHAQ	IPI00018146	30	19	57	68	89
Protein binding	Other	YWHAZ	IPI00180776		53	8	3	116
Protein binding	Other	ZMYM1	IPI00643628	2				
Protein binding	Other	ZNF294	IPI00015593	46	6		8	31
Protein binding	Other	ZNF313	IPI00032955			5		
Protein binding	Other	ZNF364	IPI00337608	1				
Protein binding	Other	ZNF598	IPI00328737	1				
Protein binding	Other	ZW10	IPI00011631	2				3
Protein binding	Other	ZYX	IPI00020513		9			
Transporter	Amine	SLC1A4	IPI00015476					1
Transporter	Amine	SLC1A5	IPI00019472		2			6
Transporter	Amine	SLC7A1	IPI00027728			1		
Transporter	Amine	SLC7A5	IPI00008986	13	6	8	17	22
Transporter	Amine	SLC7A8	IPI00296114		1			
Transporter	Amine	SLC7A11	IPI00010474	39				1
Transporter	Amine	SLC25A22	IPI00003004	3	3		4	7
Transporter	Amine	SLC38A1	IPI00023030	1				1
Transporter	Antigen	TAP2	IPI00328112	3	2	6	1	11
Transporter	Drug	EBP	IPI00008599	2		8		8
Transporter	Ion	ATP1A1	IPI00006482	15	14	13	2	31
Transporter	Ion	ATP1B3	IPI00008167					7
Transporter	Ion	ATP2A2	IPI00219078	38	34	51	31	60
Transporter	Ion	ATP2A3	IPI00303760			2	3	5
Transporter	Ion	ATP2B1	IPI00021695		23		1	3
Transporter	Ion	ATP2B2	IPI00009791					1
Transporter	Ion	ATP2B4	IPI00012490		8			
Transporter	Ion	ATP2C1	IPI00607568			3		3
Transporter	Ion	ATP5A1	IPI00440493	25	22	19	13	21
Transporter	Ion	ATP5B	IPI00303476	27	12	7	15	16
Transporter	Ion	ATP5C1	IPI00478410	18	9	9	8	8
Transporter	Ion	ATP5D	IPI00024920			2	1	2
Transporter	Ion	ATP5F1	IPI00029133		7	11	11	21
Transporter	Ion	ATP5H	IPI00220487		10	9	7	19
Transporter	Ion	ATP5I	IPI00218848					5
Transporter	Ion	ATP5J2	IPI00220300	4		5		2
Transporter	Ion	ATP5L	IPI00027448	2	4	2	3	7
Transporter	Ion	ATP5O	IPI00007611	2	16	17	20	28
Transporter	Ion	ATP6_HUMAN	IPI00654820			2	2	6
Transporter	Ion	ATP6V0A2	IPI00000425					13
Transporter	Ion	ATP6V1A	IPI00007682		5		3	
Transporter	Ion	ATP6V1H	IPI00296191	1	2		2	
Transporter	Ion	CACNA1A	IPI00217498					2
Transporter	Ion	CLIC1	IPI00010896	2	7		9	3
Transporter	Ion	CLIC3	IPI00000692		5			
Transporter	Ion	CLIC4	IPI00001960		5		2	
Transporter	Ion	CLIC5	IPI00027193		2			
Transporter	Ion	COX2	IPI00017510		6	4		6
Transporter	Ion	COX4I1	IPI00006579	5		4	3	8
Transporter	Ion	COX5A	IPI00025086				3	2
Transporter	Ion	COX6B1	IPI00216085				1	1
Transporter	Ion	COX17	IPI00477819				1	1
Transporter	Ion	HEPH	IPI00107855				3	
Transporter	Ion	ITPR1	IPI00333753					7
Transporter	Ion	ITPR2	IPI00031545		5	36	9	5
Transporter	Ion	ITPR3	IPI00291607					3
Transporter	Ion	KCTD5	IPI00004506					2
Transporter	Ion	KCTD12	IPI00060715		4			
Transporter	Ion	LASP1	IPI00386803		39			
Transporter	Ion	MGC15619	IPI00153005			1	1	2
Transporter	Ion	MON2	IPI00465246	33	4	11	3	24
Transporter	Ion	NNT	IPI00337541			8	1	6
Transporter	Ion	NOLA1	IPI00302176					4
Transporter	Ion	NUP153	IPI00292059			1		
Transporter	Ion	PLP2	IPI00030362		1			
Transporter	Ion	SFXN3	IPI00329606		11			
Transporter	Ion	SIMILAR TO VOLTAGE-DEPENDENT ANION-SELECTIVE CHAN	IPI00056004		3			4
Transporter	Ion	SLC3A2	IPI00554481	45	12	3	8	10
Transporter	Ion	SLC4A1	IPI00022361		4			
Transporter	Ion	SLC5A6	IPI00031822		3		2	
Transporter	Ion	SLC9A3R1	IPI00003527		2			
Transporter	Ion	SLC12A2	IPI00022649					6
Transporter	Ion	SLC22A18	IPI00410347	2				
Transporter	Ion	SLC25A3	IPI00022202	49	88	56	38	74
Transporter	Ion	SLC25A11	IPI00219729	2	28	8		2
Transporter	Ion	SLC25A12	IPI00386271			3		6
Transporter	Ion	SLC25A13	IPI00007084		9			2
Transporter	Ion	SLC30A7	IPI00302605	7	6			3

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				HeLa	Placenta	Jurkat	K562	Ramos
Transporter	Ion	SLC39A1	IPI00100585	1				
Transporter	Ion	SLC39A3	IPI00029337				3	
Transporter	Ion	SLC39A9	IPI00020030			1		
Transporter	Ion	SLC40A1	IPI00005547		4			
Transporter	Ion	UQCRC2	IPI00305383	2			1	5
Transporter	Ion	VDAC2	IPI00024145	16	39	20	19	63
Transporter	Ion	VDAC3	IPI00294779	7	4	6	2	4
Transporter	Ion	TF	IPI00022463		73			
Transporter	Lipid	APOA1	IPI00021841		39			
Transporter	Lipid	APOB	IPI00022229		169			
Transporter	Lipid	APOE	IPI00021842		7			
Transporter	Lipid	CDIPT	IPI00374969		11	2		5
Transporter	Lipid	HDLBP	IPI00022228	7	2	2	2	
Transporter	Lipid	HSD17B4	IPI00019912	36	33	17	872	7
Transporter	Lipid	KIAA1212	IPI00171134	4				
Transporter	Lipid	LDLR	IPI00000070	2				
Transporter	Lipid	LRP1	IPI00020557		32			
Transporter	Lipid	RFT1	IPI00059368	4	1	7	8	8
Transporter	Lipid	SLCO2A1	IPI00295132		2			
Transporter	Lipid	SORL1	IPI00022608					71
Transporter	Mitochondrial	FXC1	IPI00001538	5	3	6	4	9
Transporter	Mitochondrial	MCFP	IPI00290827					5
Transporter	Mitochondrial	MTCH2	IPI00003833		3	4		7
Transporter	Mitochondrial	SIMILAR TO MITOCHONDRIAL IMPORT INNER MEMBRANE TR	IPI00549865	1				
Transporter	Mitochondrial	SLC25A35	IPI00654813		3			
Transporter	Mitochondrial	TIMM9	IPI00001541				6	7
Transporter	Mitochondrial	TIMM10	IPI00001543	2			6	6
Transporter	Nucleic acid	SLC25A4	IPI00022891		3			3
Transporter	Nucleic acid	SLC25A5	IPI00007188	12	27	40	13	63
Transporter	Nucleoporin	NUP35	IPI00329650					1
Transporter	Nucleoporin	NUP37	IPI00171665	1				1
Transporter	Nucleoporin	NUP88	IPI00001738	2		1	2	
Transporter	Nucleoporin	NUP93	IPI00397904	5	3	22		12
Transporter	Nucleoporin	NUP98	IPI00337397			1		
Transporter	Nucleoporin	NUP133	IPI00291200	1				
Transporter	Nucleoporin	NUP155	IPI00026625	31	7	21	17	36
Transporter	Nucleoporin	NUP188	IPI00477040	40		25		26
Transporter	Nucleoporin	NUP214	IPI00183294					2
Transporter	Nucleoporin	SEH1L	IPI00220609				1	2
Transporter	Nucleoporin	TMEM48	IPI00386760			2		14
Transporter	Nucleoporin	TPR	IPI00022970			1		22
Transporter	Nucleoporin	XPO4	IPI00028357	8			9	22
Transporter	Nucleotide	C6orf108	IPI00007926		1		4	
Transporter	Organic acid	SLC16A1	IPI00024650	3				23
Transporter	Organic acid	SLC16A3	IPI00006666	7	5			3
Transporter	Organic acid	SLC16A7	IPI00386167	1				3
Transporter	Organic acid	SLC25A1	IPI00294159		7			
Transporter	Organic acid	SLC25A10	IPI00217277	4		5		4
Transporter	Peptide	ABCB7	IPI00556553	6				
Transporter	Peptide	SLC38A5	IPI00102509	1				
Transporter	Peptide	TAP1	IPI00646625			9		5
Transporter	Protein	AP1S1	IPI00152898		2		4	1
Transporter	Protein	AP2S1	IPI00219840	9		2	15	13
Transporter	Protein	C3orf1	IPI00299387		5			
Transporter	Protein	COG2	IPI00000057					5
Transporter	Protein	COPA	IPI00295857	25	10	11	7	27
Transporter	Protein	COPB2	IPI00220219	8	6		4	2
Transporter	Protein	COPE	IPI00465132		2			
Transporter	Protein	CSE1L	IPI00022744	42	26	34	26	42
Transporter	Protein	IPO4	IPI00398009	5		13	7	
Transporter	Protein	IPO7	IPI00007402	37	11	17	27	46
Transporter	Protein	IPO8	IPI00007401	7		8	4	2
Transporter	Protein	IPO9	IPI00514686	9	3	12	9	13
Transporter	Protein	IPO11	IPI00301107	5	6	20	17	4
Transporter	Protein	IPO13	IPI00005651		1	2	1	
Transporter	Protein	KPNA2	IPI00002214	3				1
Transporter	Protein	KPNA3	IPI00299033					5
Transporter	Protein	KPNA4	IPI00012578	3		1	1	8
Transporter	Protein	KPNA5	IPI00413214					2
Transporter	Protein	KPNB1	IPI00001639	10	8	9	12	10
Transporter	Protein	MTX2	IPI00025717	1	3	3	2	6
Transporter	Protein	SEC13L1	IPI00375370	5	3	6	14	10
Transporter	Protein	SEC61A1	IPI00218466	46	20	11	19	17
Transporter	Protein	SEC61B	IPI00220835	6	6	6	7	6
Transporter	Protein	SLC25A17	IPI00014440			2		3
Transporter	Protein	SORT1	IPI00217882			4	3	
Transporter	Protein	STX7	IPI00289876		5			4
Transporter	Protein	STX12	IPI00329332					2
Transporter	Protein	TIMM23	IPI00007309					4
Transporter	Protein	TIMM44	IPI00306516					1
Transporter	Protein	TNPO1	IPI00024364	22	15	18	16	19
Transporter	Protein	TNPO2	IPI00409698		2	3	2	
Transporter	Protein	TOMM20	IPI00016676					3
Transporter	Protein	VDAC1	IPI00216308	15	54	31	27	79
Transporter	Protein	VDP	IPI00031583		4		4	
Transporter	Protein	XPO1	IPI00298961	48	27	38	39	21
Transporter	Protein	XPO6	IPI00639925	12		13	10	14
Transporter	Protein	XPO7	IPI00302458	10	21	27	26	9
Transporter	Sugar	SLC2A1	IPI00220194		61			19
Transporter	Sugar	SLC2A5	IPI00027452					2
Transporter	Sugar	SLC2A14	IPI00152505				3	
Transporter	Sugar	SLC37A4	IPI00217409				1	1
Transporter	Trafficking	TRAPPC3	IPI00004324		5		2	
Transporter	Vitamin	TTR	IPI00022432		7			
Transporter	Amino acid	SLC43A2	IPI00171004		16			
Transporter	ER / Golgi	SEC22L1	IPI00006865		12	6		9
Transporter	ER / Golgi	SEC23A	IPI00017375	7	10	4		8
Transporter	ER / Golgi	SEC23B	IPI00017376	6	4	11	9	16
Transporter	ER / Golgi	SEC23IP	IPI00026969					5
Transporter	ER / Golgi	SEC24B	IPI00030851		4			2
Transporter	ER / Golgi	SEC24C	IPI00024661		6	5	7	26
Transporter	Other	ABCB8	IPI00019022	5		3		4
Transporter	Other	ABCB10	IPI00015826			3		
Transporter	Other	ABCD1	IPI00291373	7	10			
Transporter	Other	ABCD3	IPI00002372		1	8		10
Transporter	Other	ABCF1	IPI00302146		2	1	2	
Transporter	Other	ECM1	IPI00645849				1	
Transporter	Other	GC	IPI00555812		8			
Transporter	Other	HBB	IPI00382950	5	148	2	5	4
Transporter	Other	HBB	IPI00472787		6			

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Transporter	Other	HBG1	IPI00030809	1	334		13	3
Transporter	Other	HBZ	IPI00334432	3	295	2	2	6
Transporter	Other	HBZ	IPI00480146		5		10	
Transporter	Other	HPX	IPI00022488		5			
Transporter	Other	KIAA1012	IPI00007253					1
Transporter	Other	NAPA	IPI00009253				1	
Transporter	Other	NAPB	IPI00651644					2
Transporter	Other	NUP160	IPI00221235	17	7	30		24
Transporter	Other	PPGB	IPI00640525		1			
Transporter	Other	SLC25A4	IPI00291467	24	71	12	6	14
Transporter	Other	SLC33A1	IPI00006205	1	1	1	2	6
Transporter	Other	SLC35E1	IPI00101952	1	3	2	1	7
Transporter	Other	SNAP29	IPI00032831	1	2	1	8	5
Transporter	Other	SV2A	IPI00644025			2		
Receptor	-	(XM_374569) SIMILAR TO T CELL RECEPTOR BETA.	IPI00397415			5		
Receptor	-	B2M	IPI00004656	6		3	3	5
Receptor	-	BCAM	IPI00002406		4			
Receptor	-	BZRP	IPI00026850					2
Receptor	-	CD2	IPI00027484			8		
Receptor	-	CD3D	IPI00022934			1		
Receptor	-	CD3E	IPI00012923			3		
Receptor	-	CD3G	IPI00016020			1		
Receptor	-	CD3Z	IPI00218634			8		
Receptor	-	CD4	IPI00003983		1	28		
Receptor	-	CD38	IPI00006071					10
Receptor	-	CD79A	IPI00008473					1
Receptor	-	CD79B	IPI00027668					7
Receptor	-	CLDN4	IPI00021944		4			
Receptor	-	COLEC12	IPI00247616		4			
Receptor	-	CRIM1	IPI00009294		1			
Receptor	-	CRSP3	IPI00477404	34		60	17	27
Receptor	-	CXCR4	IPI00216445			3		23
Receptor	-	DERL1	IPI00013271		3	4		6
Receptor	-	DMBT1	IPI00553058			2		
Receptor	-	DOCK10	IPI00333770					3
Receptor	-	ELOVL4	IPI00009295			2		
Receptor	-	EPS15	IPI00292134				7	
Receptor	-	FBN1	IPI00328113		2			
Receptor	-	FCGR2B	IPI00013971		1		2	
Receptor	-	FCRLM1	IPI00292096					15
Receptor	-	FKBP1A	IPI00413778	3	4	9	6	4
Receptor	-	FKBP3	IPI00024157	2	2			
Receptor	-	FLVCR	IPI00022344	2				
Receptor	-	GPR89	IPI00008847	4	6		2	11
Receptor	-	GUCY1B3	IPI00289033		2			
Receptor	-	HLA-A	IPI00472882	12				2
Receptor	-	HLA-B	IPI00472073		2			2
Receptor	-	HLA-B	IPI00604445	8				4
Receptor	-	HLA-B	IPI00646083	2				
Receptor	-	HLA-BW62 ANTIGEN (FRAGMENT).	IPI00604470					1
Receptor	-	HLA-C	IPI00472162	8		3		11
Receptor	-	HLA-CW3 (FRAGMENT).	IPI00553154					1
Receptor	-	HLA-DOB	IPI00010410					1
Receptor	-	HLA-DQA1	IPI00719648					4
Receptor	-	HLA-DQB2	IPI00472169					1
Receptor	-	HLA-DRB1	IPI00472236					9
Receptor	-	HMMR	IPI00337772	11		6	10	14
Receptor	-	HPGD	IPI00305286		54	1	4	
Receptor	-	ICAM1	IPI00008494		1			1
Receptor	-	IGF2R	IPI00289819	4	5	37	28	20
Receptor	-	IL28RA	IPI00216651					3
Receptor	-	ITGA1	IPI00472202		3			
Receptor	-	ITGA3	IPI00290043		1			
Receptor	-	ITGA4	IPI00009803			10		1
Receptor	-	ITGA5	IPI00306604		10		4	
Receptor	-	ITGA6	IPI00010697		17			
Receptor	-	ITGAL	IPI00219896			1		7
Receptor	-	ITGB1	IPI00217561		20			
Receptor	-	ITGB2	IPI00291792			4		
Receptor	-	ITGB4	IPI00027422		35			
Receptor	-	KDELR1	IPI00028116		5	3		5
Receptor	-	KDELR2	IPI00018248	3				5
Receptor	-	KDELR3	IPI00376991		1			
Receptor	-	LAMA5	IPI00641693		6			
Receptor	-	LANCL1	IPI00005724		1			
Receptor	-	LBR	IPI00292135			1		
Receptor	-	LENG4	IPI00657706	9	8		1	
Receptor	-	LEPR	IPI00472452	1	2		1	4
Receptor	-	LEPROTL1	IPI00029397					2
Receptor	-	LGALS3BP	IPI00023673	90	5	4	15	
Receptor	-	LRP2	IPI00024292		7			
Receptor	-	MRC1	IPI00027848		1			
Receptor	-	MS4A1	IPI00007880					5
Receptor	-	MYD88	IPI00001062		3			6
Receptor	-	NRP1	IPI00299594		1			
Receptor	-	OLFM4	IPI00022255		7			
Receptor	-	OPRS1	IPI00218268		4	1	2	3
Receptor	-	PDAP1	IPI00013297	4		3		3
Receptor	-	PHB2	IPI00027252	62	66	40	27	88
Receptor	-	PLXNB2	IPI00398435		2			
Receptor	-	PPARBP	IPI00427522	1				
Receptor	-	PTGIR	IPI00016317					1
Receptor	-	PTPRC	IPI00306325			18		5
Receptor	-	PTPRF	IPI00465186		3			
Receptor	-	PVRL4	IPI00043992		5			
Receptor	-	RRBP1	IPI00215743		62			
Receptor	-	RTN4RL2	IPI00328746			1		
Receptor	-	SEC63	IPI00218922		1		6	4
Receptor	-	SELS	IPI00020468					3
Receptor	-	SIT1	IPI00004407					1
Receptor	-	SLAMF6	IPI00101172					6
Receptor	-	SRPR	IPI00385267				1	
Receptor	-	SRPRB	IPI00295098	6	2		4	5
Receptor	-	TACSTD2	IPI00297910		3			
Receptor	-	TFRC	IPI00022462	26	41	5	7	10
Receptor	-	TGFB1I1	IPI00011663		9			
Receptor	-	THADA	IPI00444843	68		34	23	53
Receptor	-	THRAP4	IPI00219430			2	2	
Receptor	-	THRAP6	IPI00063213				2	
Receptor	-	TMED7	IPI00428967		4			

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Receptor	-	TNPO3	IPI00455125	17	5	15	14	15
Receptor	-	TOMM22	IPI00024976					2
Receptor	-	TRAF2	IPI00292635	58	18	70	56	191
Receptor	-	TRAM1	IPI00219111					3
Receptor	-	TVB1_HUMAN	IPI00003986			4		
Lipid binding	-	ACBD3	IPI00009315			1		2
Lipid binding	-	ANXA6	IPI00221226			4		
Lipid binding	-	ANXA7	IPI00514510		15			
Lipid binding	-	ANXA11	IPI00414320		14			
Lipid binding	-	AP1G1	IPI00643591			3	4	
Lipid binding	-	AP2A1	IPI00304577	53	43	10	100	42
Lipid binding	-	AP2A2	IPI00016621	23	16		44	25
Lipid binding	-	AP2M1	IPI00022256	21	4		48	5
Lipid binding	-	AP3B1	IPI00021129			4	9	4
Lipid binding	-	AP3D1	IPI00719680	13	4		1	
Lipid binding	-	APOL2	IPI00220007	4	1	1		1
Lipid binding	-	APOL3	IPI00302796					2
Lipid binding	-	CD48	IPI00013831					4
Lipid binding	-	CD59	IPI00011302		5			
Lipid binding	-	CHPT1	IPI00329548				3	
Lipid binding	-	CLU	IPI00400826		5			
Lipid binding	-	EEA1	IPI00329536		17			
Lipid binding	-	FABP4	IPI00215746		3			
Lipid binding	-	FABP5	IPI00007797	7	9	8	12	21
Lipid binding	-	GPAA1	IPI00021594				1	
Lipid binding	-	HIP1R	IPI00024417	8				52
Lipid binding	-	M11S1	IPI00402233	3		1		2
Lipid binding	-	NCF1	IPI00027007					3
Lipid binding	-	PGRMC2	IPI00005202		10			
Lipid binding	-	PITPNB	IPI00395939				1	
Lipid binding	-	RUFY1	IPI00465429				1	
Lipid binding	-	SCP2	IPI00026105			4		2
Lipid binding	-	SNX9	IPI00001883				3	
Lipid binding	-	SNX24	IPI00022302					2
Lipid binding	-	VCP	IPI00478540	30	57	44	21	36
Sugar binding	-	APCS	IPI00022391		2			
Sugar binding	-	BSG	IPI00218019		8			16
Sugar binding	-	CD22	IPI00295133					1
Sugar binding	-	CSPG2	IPI00009802	1				
Sugar binding	-	LGALS1	IPI00219219	4	2		8	
Sugar binding	-	LGALS7	IPI00219221					10
Sugar binding	-	LGALS8	IPI00215644		1			
Sugar binding	-	PRG2	IPI00010341		4			
Sugar binding	-	PRG3	IPI00005778		1			
Sugar binding	-	SVEP1	IPI00301288		6			
Sugar binding	-	VTN	IPI00298971		3			
Metabolite binding	Calcium	CALR	IPI00020599	6	11		2	
Metabolite binding	Calcium	CAPS	IPI00465352		6			
Metabolite binding	Calcium	CHP	IPI00218924		5	2	6	9
Metabolite binding	Calcium	HPCAL1	IPI00219344					7
Metabolite binding	Calcium	HRNR	IPI00398625	26	55	23	36	19
Metabolite binding	Calcium	S100A7	IPI00328396	1				5
Metabolite binding	Calcium	S100A8	IPI00007047	6	7		4	10
Metabolite binding	Calcium	S100A9	IPI00027462	7	7	2		12
Metabolite binding	Calcium	S100A11	IPI00013895	3	13		5	
Metabolite binding	Calcium	S100A14	IPI00010214	1				
Metabolite binding	Calcium	S100A16	IPI00062120		3	1		
Metabolite binding	Calcium	S100P	IPI00017526		12			
Metabolite binding	Copper	SCO2	IPI00014458	5				6
Metabolite binding	Metal	FHL1	IPI00055606		8			
Metabolite binding	Metal	MT1G	IPI00413064	3	3	1	4	
Metabolite binding	Metal	SELK	IPI00428100			1		
Metabolite binding	Metal	SELT	IPI00008351					4
Metabolite binding	Zinc	CRIP2	IPI00006034		6			
Metabolite binding	Zinc	LIMS2	IPI00398576		2			
Metabolite binding	Zinc	LIMS3	IPI00244212	47	16	28	11	13
Metabolite binding	Zinc	LPXN	IPI00299066					10
Metabolite binding	Zinc	LUC7L2	IPI00006932	7	2		4	7
Metabolite binding	Zinc	PREI3	IPI00386122			2		3
Metabolite binding	Zinc	PREI3	IPI00477800					4
Metabolite binding	Zinc	SPIRE1	IPI00171145	3				
Metabolite binding	Zinc	ZFYVE26	IPI00470896	3	2	1	7	
Metabolite binding	-	HEBP1	IPI00148063	4	24	5	4	
Metabolite binding	-	SCARA5	IPI00399026					6
Metabolite binding	-	SEC14L1	IPI00021887					2
Vesicle Trafficking	ER / Golgi	COG3	IPI00414858					5
Vesicle Trafficking	ER / Golgi	COG6	IPI00642611			5		
Vesicle Trafficking	ER / Golgi	COG8	IPI00140201					6
Vesicle Trafficking	ER / Golgi	COPG	IPI00001890		4			
Vesicle Trafficking	ER / Golgi	DAB2	IPI00179438		22			
Vesicle Trafficking	ER / Golgi	LRMP	IPI00006158					24
Vesicle Trafficking	ER / Golgi	RER1	IPI00005728		10			6
Vesicle Trafficking	ER / Golgi	RER1	IPI00549335	2		3		
Vesicle Trafficking	ER / Golgi	SCAMP2	IPI00218850		1			
Vesicle Trafficking	ER / Golgi	SCAMP3	IPI00306382	2				
Vesicle Trafficking	ER / Golgi	SCAMP4	IPI00056310		1		2	
Vesicle Trafficking	ER / Golgi	SCFD1	IPI00479223	3	3			
Vesicle Trafficking	ER / Golgi	SEC15L2	IPI00294133		2			
Vesicle Trafficking	ER / Golgi	SEC31L1	IPI00515103		6			
Vesicle Trafficking	ER / Golgi	SSR1	IPI00301021		2			3
Vesicle Trafficking	ER / Golgi	SSR4	IPI00647461	3	9	3	4	9
Vesicle Trafficking	ER / Golgi	TMED2	IPI00016608		5		1	2
Vesicle Trafficking	ER / Golgi	TMED9	IPI00023542		4		2	
Vesicle Trafficking	ER / Golgi	TMED10	IPI00028055		5	3	1	3
Vesicle Trafficking	ER / Golgi	TRAPPC6A	IPI00012211					1
Vesicle Trafficking	ER / Golgi	TRAPPC6B	IPI00384047				1	
Vesicle Trafficking	ER / Golgi	VAMP2	IPI00477183	1				9
Vesicle Trafficking	ER / Golgi	VAMP5	IPI00293756			3		
Vesicle Trafficking	ER / Golgi	VAMP8	IPI00030911	9	5			5
Vesicle Trafficking	ER / Golgi	VAPA	IPI00374657	1	4		2	
Vesicle Trafficking	ER / Golgi	VAPB	IPI00006211		4			
Vesicle Trafficking	ER / Golgi	VPS13C	IPI00465428			17		19
Vesicle Trafficking	ER / Golgi	VPS18	IPI00001985		3			
Vesicle Trafficking	ER / Golgi	VPS29	IPI00184284		1			
Vesicle Trafficking	ER / Golgi	VPS33A	IPI00073179		1			2
Vesicle Trafficking	ER / Golgi	VPS37B	IPI00002926			2		
Vesicle Trafficking	ER / Golgi	WDR48	IPI00658210	9		1		3
Unknown	-	67 KDA PROTEIN.	IPI00640857	1			3	2
Unknown	-	75KDA PROTEIN.	IPI00052996	1				
Unknown	-	90 KDA PROTEIN.	IPI00479092					1

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Unknown	-	AAAS	IPI00024143			8		
Unknown	-	ABC1	IPI00464999				2	
Unknown	-	AFF2	IPI00020903					23
Unknown	-	AMMECR1	IPI00022258					3
Unknown	-	ARMET	IPI00328748		7	5	1	4
Unknown	-	Ataxin-10	IPI00642301				1	
Unknown	-	AUP1	IPI00001891					4
Unknown	-	AYP1	IPI00382985			1		
Unknown	-	BAIAP2L1	IPI00179326	1				
Unknown	-	BBC3	IPI00044436					1
Unknown	-	BC002942	IPI00385495	6				
Unknown	-	BOLA2	IPI00301434		2		4	4
Unknown	-	BRAIN MY047 PROTEIN.	IPI00029397	1		2		4
Unknown	-	BRD4-NUT FUSION ONCOPROTEIN.	IPI00465212		1	25	5	
Unknown	-	BRI3BP	IPI00103599			3	3	14
Unknown	-	BRRN1	IPI00299507					2
Unknown	-	C1orf35	IPI00293746	2			1	4
Unknown	-	C1orf45	IPI00514908	3	12	9	12	2
Unknown	-	C1orf68	IPI00023078		3	3	3	1
Unknown	-	C1orf112	IPI00178512	4		3		
Unknown	-	C1orf128	IPI00015351		3	2	6	6
Unknown	-	C2orf18	IPI00550440		4	2	1	
Unknown	-	C2orf18	IPI00643625			2	2	
Unknown	-	C2orf28	IPI00412376					1
Unknown	-	C2orf30	IPI00549597		1			
Unknown	-	C3orf10	IPI00000296					2
Unknown	-	C3orf37	IPI00024618					3
Unknown	-	C3orf60	IPI00399053	3			3	3
Unknown	-	C4orf9	IPI00022613			5		
Unknown	-	C6orf1	IPI00328453	3				
Unknown	-	C6orf60	IPI00413868					1
Unknown	-	C6orf66	IPI00023064				3	6
Unknown	-	C6orf111	IPI00165995				2	1
Unknown	-	C6orf129	IPI00513945			2	2	3
Unknown	-	C6orf167	IPI00394816			8		
Unknown	-	C7orf24	IPI00031564		5	4	5	10
Unknown	-	C7orf27	IPI00658145	6		9	10	7
Unknown	-	C8orf30A	IPI00009335					1
Unknown	-	C8orf41	IPI00306207			1		
Unknown	-	C8orf55	IPI00171421		2	10	2	3
Unknown	-	C9orf5	IPI00607576		2	1		1
Unknown	-	C9orf40	IPI00017504					1
Unknown	-	C9orf46	IPI00307547		4	2		
Unknown	-	C9orf77	IPI00643071			3		
Unknown	-	C9orf88	IPI00456750		17			
Unknown	-	C9orf114	IPI00418229			1		
Unknown	-	C10orf57	IPI00290807		1			
Unknown	-	C10orf64	IPI00175026					25
Unknown	-	C10orf64	IPI00646942					76
Unknown	-	C10orf70	IPI00020510	6				
Unknown	-	C10orf104	IPI00060893	4		3	2	2
Unknown	-	C10orf119	IPI00478758					1
Unknown	-	C10orf137	IPI00183424					2
Unknown	-	C11orf51	IPI00022312					1
Unknown	-	C11orf52	IPI00059185		4			
Unknown	-	C12orf34	IPI00180066			8		
Unknown	-	C13orf1	IPI00030959					1
Unknown	-	C14orf125	IPI00329192	9				
Unknown	-	C14orf129	IPI00009374				3	2
Unknown	-	C14orf166	IPI00006980				5	7
Unknown	-	C14orf173	IPI00008339	5				
Unknown	-	C17orf63	IPI00291010	17		50	49	15
Unknown	-	C18orf19	IPI00290799					4
Unknown	-	C18orf24	IPI00059912					2
Unknown	-	C18orf25	IPI00059687	1				
Unknown	-	C18orf45	IPI00645638					2
Unknown	-	C18orf55	IPI00306439				1	
Unknown	-	C19orf28	IPI00166640	2				
Unknown	-	C20orf43	IPI00297121	5				6
Unknown	-	C20orf52	IPI00016046					2
Unknown	-	C20orf80	IPI00334710	2				4
Unknown	-	C21orf33	IPI00024913	1		2	6	1
Unknown	-	C21orf70	IPI00027898	12				
Unknown	-	C21orf124	IPI00642485					36
Unknown	-	C22orf18	IPI00031566					4
Unknown	-	CCDC6	IPI00000634					1
Unknown	-	CCDC43	IPI00329147	3				
Unknown	-	CCDC44	IPI00019903	2				
Unknown	-	CCDC56	IPI00022277				3	
Unknown	-	CCDC58	IPI00046828				2	
Unknown	-	CCDC59	IPI00329594	1		1	1	
Unknown	-	CCDC69	IPI00410093					4
Unknown	-	CCL28	IPI00221002					2
Unknown	-	CD81	IPI00657752					1
Unknown	-	CDKAL1	IPI00015713					1
Unknown	-	CGI-38	IPI00306413		25			
Unknown	-	CHAC2	IPI00103047					2
Unknown	-	CHCHD1	IPI00060107	2				
Unknown	-	CHCHD4	IPI00177428				1	
Unknown	-	CHMP4B	IPI00025974					1
Unknown	-	CKAP2	IPI00071824					3
Unknown	-	CLN6	IPI00016597	3				3
Unknown	-	CLNS1A	IPI00004795	3				
Unknown	-	COBLL1	IPI00007133		28			
Unknown	-	COL1A1	IPI00297646		2			
Unknown	-	COMMD4	IPI00413500					3
Unknown	-	COMMD9	IPI00305212					2
Unknown	-	COQ7	IPI00294073				3	
Unknown	-	COX4NB	IPI00005740		1			
Unknown	-	CRR9	IPI00151358					1
Unknown	-	CTDP1	IPI00647363	1				
Unknown	-	CXorf15	IPI00019994	3				2
Unknown	-	CXorf56	IPI00335006	1				
Unknown	-	CYB5B	IPI00303954				1	
Unknown	-	DCUN1D5	IPI00165361	1				
Unknown	-	DKFZp586C1924	IPI00031064		2	2	3	6
Unknown	-	DKFZp667B1218	IPI00174390	8	9	5	2	10
Unknown	-	DKFZp686K16132	IPI00397883	52	19		9	1
Unknown	-	DOPEY2	IPI00294653					6
Unknown	-	DREV1	IPI00100239	1				

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Unknown	-	DSCR2	IPI00030770				1	
Unknown	-	DYM	IPI00296211			2		6
Unknown	-	E2IG5 PROTEIN.	IPI00554692	1		1	1	1
Unknown	-	EAF1	IPI00328258					1
Unknown	-	EAF2	IPI00093988					6
Unknown	-	EFHD1	IPI00031091		2			
Unknown	-	EFHD2	IPI00060181		2		1	
Unknown	-	EI24	IPI00023185					3
Unknown	-	ELOVL1	IPI00010187	1			2	3
Unknown	-	EPDR1	IPI00657648	33	29	108		
Unknown	-	EXOC1	IPI00019427		1	1		
Unknown	-	EXOC4	IPI00059279		2			
Unknown	-	F11R	IPI00001754		2			
Unknown	-	FADS1	IPI00385842				1	
Unknown	-	FAM32A	IPI00022402			3		5
Unknown	-	FAM33A	IPI00103149					2
Unknown	-	FAM36A	IPI00103057	2	2	2	3	6
Unknown	-	FAM49A	IPI00006574		3			
Unknown	-	FAM49B	IPI00303318				3	
Unknown	-	FAM58A	IPI00395371	6		8		10
Unknown	-	FAM62A	IPI00022143			1	10	10
Unknown	-	FAM62B	IPI00409635	4	1	13	3	
Unknown	-	FAM83A	IPI00328846	5			152	
Unknown	-	FAM96B	IPI00007024	2	4	2	2	7
Unknown	-	FAM98A	IPI00174442					1
Unknown	-	FAM105B	IPI00101734					1
Unknown	-	FER1L3	IPI00021048		19			
Unknown	-	FGFR1OP2	IPI00014903			6		2
Unknown	-	FKSG24	IPI00186732					2
Unknown	-	FLAD1	IPI00060574					1
Unknown	-	FLJ10808	IPI00023647			6	7	11
Unknown	-	FLJ12688	IPI00034201					1
Unknown	-	FLJ13910	IPI00009707				1	
Unknown	-	FLJ14346	IPI00410094					3
Unknown	-	FLJ14803	IPI00045764					10
Unknown	-	FLJ20272	IPI00183938	3			4	3
Unknown	-	FLJ20397	IPI00242630	4		2	3	
Unknown	-	FLJ20625	IPI00016670		1		2	12
Unknown	-	FLJ20699	IPI00550644				2	
Unknown	-	FLJ22555	IPI00291751		4	3	4	5
Unknown	-	FLJ34931	IPI00397879					2
Unknown	-	FLJ36004	IPI00167858	1				
Unknown	-	FLJ46072	IPI00394829				22	
Unknown	-	FLOTILLIN 1.	IPI00514818				1	
Unknown	-	FRMD6	IPI00043622			1		
Unknown	-	FRYL	IPI00159652.			9		20
Unknown	-	GALGT PROTEIN.	IPI00384413				1	
Unknown	-	GBAS	IPI00016077	3			3	
Unknown	-	GCET2	IPI00167003					2
Unknown	-	GDF1	IPI00019462	1				
Unknown	-	GHITM	IPI00023567				2	6
Unknown	-	GOLGA3	IPI00305267	4				
Unknown	-	GOLGA7	IPI00395534	1				
Unknown	-	GOLGA7	IPI00480022		2	5		9
Unknown	-	GOLT1B	IPI00007061					1
Unknown	-	GPSN2	IPI00644037	8	29	18		14
Unknown	-	GRAMD1A	IPI00180434	51		170	206	129
Unknown	-	GRAMD1B	IPI00008177	3				
Unknown	-	GRAMD1C	IPI00217850	9				
Unknown	-	GRAMD3	IPI00305868	3				
Unknown	-	GTL3	IPI00001655			2		7
Unknown	-	HBLD1	IPI00376195			2		
Unknown	-	hCAP-D3	IPI00000899	4		7		3
Unknown	-	HCAP-G	IPI00106495					12
Unknown	-	HDDC2	IPI00386751				1	
Unknown	-	HDGF2	IPI00013290			3	1	4
Unknown	-	HERV-FRD	IPI00398064		4			
Unknown	-	hfl-B5	IPI00000495				2	7
Unknown	-	HIGD1A	IPI00176824	3	1	2	2	
Unknown	-	HPS6	IPI00015505					1
Unknown	-	HSPC117	IPI00550689	2	2	5	2	
Unknown	-	HSPC138	IPI00021637				1	
Unknown	-	HYPOTHETICAL PROTEIN DKFZP686E23209.	IPI00470798		4			
Unknown	-	HYPOTHETICAL PROTEIN FLJ46024.	IPI00444177		1			
Unknown	-	HYPOTHETICAL PROTEIN XP_051477.	IPI00385962		2			
Unknown	-	HYPOTHETICAL PROTEIN XP_066073.	IPI00044536					1
Unknown	-	HYPOTHETICAL PROTEIN XP_067264.	IPI00056251		1			
Unknown	-	HYPOTHETICAL PROTEIN XP_067436.	IPI00056985					1
Unknown	-	HYPOTHETICAL PROTEIN XP_067755.	IPI00058119			2		
Unknown	-	HYPOTHETICAL PROTEIN XP_067988.	IPI00058956					1
Unknown	-	HYPOTHETICAL PROTEIN XP_070964.	IPI00053204	5	1			
Unknown	-	HYPOTHETICAL PROTEIN XP_074598.	IPI00056710					1
Unknown	-	HYPOTHETICAL PROTEIN XP_077601.	IPI00051491					1
Unknown	-	HYPOTHETICAL PROTEIN XP_089118.	IPI00077192	1				
Unknown	-	HYPOTHETICAL PROTEIN XP_089347.	IPI00102791				5	
Unknown	-	HYPOTHETICAL PROTEIN XP_090110.	IPI00090052				1	
Unknown	-	HYPOTHETICAL PROTEIN XP_091115.	IPI00080641	1				
Unknown	-	HYPOTHETICAL PROTEIN XP_092572.	IPI00094646	5				
Unknown	-	HYPOTHETICAL PROTEIN XP_093117.	IPI00083315		3			
Unknown	-	HYPOTHETICAL PROTEIN XP_093525.	IPI00084638	4				
Unknown	-	HYPOTHETICAL PROTEIN XP_094022.	IPI00095488					1
Unknown	-	HYPOTHETICAL PROTEIN XP_094185.	IPI00096060				1	
Unknown	-	HYPOTHETICAL PROTEIN XP_094427.	IPI00097031					1
Unknown	-	HYPOTHETICAL PROTEIN XP_095377.	IPI00086787					1
Unknown	-	HYPOTHETICAL PROTEIN XP_095701.	IPI00088092		1			
Unknown	-	HYPOTHETICAL PROTEIN XP_096748.	IPI00078833					1
Unknown	-	HYPOTHETICAL PROTEIN XP_099313.	IPI00092745		1			
Unknown	-	HYPOTHETICAL PROTEIN XP_103875.	IPI00083209	1				1
Unknown	-	HYPOTHETICAL PROTEIN XP_104170.	IPI00093000	1				5
Unknown	-	HYPOTHETICAL PROTEIN XP_108488.	IPI00077790					2
Unknown	-	HYPOTHETICAL PROTEIN XP_120423.	IPI00150581		1			
Unknown	-	HYPOTHETICAL PROTEIN XP_120656.	IPI00151048				1	
Unknown	-	HYPOTHETICAL PROTEIN XP_120711.	IPI00151187					1
Unknown	-	HYPOTHETICAL PROTEIN XP_121796.	IPI00146153				1	
Unknown	-	HYPOTHETICAL PROTEIN XP_298883.	IPI00259288					1
Unknown	-	HYPOTHETICAL PROTEIN XP_299754.	IPI00245792				2	1
Unknown	-	HYPOTHETICAL PROTEIN XP_303855.	IPI00260484			1		
Unknown	-	HYPOTHETICAL PROTEIN XP_304252.	IPI00244572				1	2
Unknown	-	HYPOTHETICAL PROTEIN XP_353184.	IPI00374663	2				
Unknown	-	HYPOTHETICAL PROTEIN.	IPI00303912	2		2		

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Unknown	-	HYPOTHETICAL PROTEIN.	IPI00719079		2			
Unknown	-	IPI00005505.1	IPI00005505	1				
Unknown	-	IPI00040071.1	IPI00040071		3			
Unknown	-	IPI00068275.1	IPI00068275	5				
Unknown	-	IPI00075282.1	IPI00075282				1	
Unknown	-	IPI00098658.4	IPI00098658	2				
Unknown	-	IPI00100064.1	IPI00100064			2		
Unknown	-	IPI00104877.1	IPI00104877	3		1		
Unknown	-	IPI00150225.1	IPI00150225	1				
Unknown	-	IPI00154147.1	IPI00154147	5				
Unknown	-	IPI00157357.1	IPI00157357				2	3
Unknown	-	IPI00179072.1	IPI00179072				5	
Unknown	-	IPI00180955.1	IPI00180955					4
Unknown	-	IPI00221136.3	IPI00221136					2
Unknown	-	IPI00333081.1	IPI00333081	3	3		3	
Unknown	-	IPI00333348.1	IPI00333348	1				
Unknown	-	IPI00335775.1	IPI00335775			5		
Unknown	-	IPI00396487.1	IPI00396487		1			
Unknown	-	IPI00411598.1	IPI00411598		1			
Unknown	-	IPI00413331.1	IPI00413331			1		
Unknown	-	IPI00414413.1	IPI00414413	11				
Unknown	-	IQCC	IPI00018690					1
Unknown	-	JAGN1	IPI00329025				2	
Unknown	-	KIAA0101	IPI00014147					2
Unknown	-	KIAA0103	IPI00014149		4	1		1
Unknown	-	KIAA0133	IPI00028980	3		27		9
Unknown	-	KIAA0152	IPI00029046		4	5		2
Unknown	-	KIAA0196	IPI00029175					3
Unknown	-	KIAA0261	IPI00412441					2
Unknown	-	KIAA0310	IPI00641384	30		64	62	60
Unknown	-	KIAA0368	IPI00157790	37			2	6
Unknown	-	KIAA0372	IPI00005634					2
Unknown	-	KIAA0404	IPI00304926	2				
Unknown	-	KIAA0406	IPI00011702			10	4	
Unknown	-	KIAA0528	IPI00465142	102	45	366	88	225
Unknown	-	KIAA0683	IPI00016868				3	
Unknown	-	KIAA0690	IPI00101186	1			1	
Unknown	-	KIAA0746	IPI00470809					3
Unknown	-	KIAA0802	IPI00411635					7
Unknown	-	KIAA0922	IPI00021671					6
Unknown	-	KIAA0963	IPI00024900					1
Unknown	-	KIAA0999	IPI00440492					4
Unknown	-	KIAA1033	IPI00298991	1			1	
Unknown	-	KIAA1414	IPI00479069					2
Unknown	-	KIAA1430	IPI00075805					1
Unknown	-	KIAA1524	IPI00154283	8				
Unknown	-	KIAA1618	IPI00242962	8		86	65	
Unknown	-	KIAA1632	IPI00400765	4		10		7
Unknown	-	KIAA1715	IPI00028369				7	
Unknown	-	KIAA1787	IPI00064219	1				
Unknown	-	KIAA1794	IPI00477345	68		40		28
Unknown	-	KIAA1797	IPI00383607	9		9		13
Unknown	-	KIAA1833	IPI00376747	4	7			7
Unknown	-	KIAA1840	IPI00101923			4	8	5
Unknown	-	KIAA1967	IPI00182757			1		
Unknown	-	KIAA2010	IPI00217013	25	10	50	18	30
Unknown	-	KTN1	IPI00328753				2	
Unknown	-	LAMP2	IPI00216172		1			
Unknown	-	LANCL3	IPI00643639				1	
Unknown	-	LAS1L	IPI00641990	2				
Unknown	-	LETM1	IPI00017592			2		1
Unknown	-	LGP1	IPI00427501	1				12
Unknown	-	LIMD2	IPI00549972					4
Unknown	-	LOC51035	IPI00396563	5		3	6	1
Unknown	-	LOC90580	IPI00157215	6	3	6	9	8
Unknown	-	LOC92345	IPI00063219	1				3
Unknown	-	LOC116143	IPI00465211					5
Unknown	-	LOC128977	IPI00418459				1	
Unknown	-	LOC129138	IPI00025746				27	65
Unknown	-	LOC146206 PROTEIN.	IPI00384567					1
Unknown	-	LOC203547	IPI00334343					3
Unknown	-	LOC255326	IPI00457009					1
Unknown	-	LOC283377	IPI00291643					1
Unknown	-	LOC284106	IPI00401947			6		
Unknown	-	LOC339766	IPI00216817					3
Unknown	-	LOC388015	IPI00375947		17			
Unknown	-	LOC388568	IPI00398588			2		10
Unknown	-	LOC391352	IPI00397191		1		1	1
Unknown	-	LOC391722	IPI00376572				1	
Unknown	-	LOC392758	IPI00375167					2
Unknown	-	LOC401531	IPI00401259					3
Unknown	-	LOC441454	IPI00454810					1
Unknown	-	LOC441899	IPI00457324		1			
Unknown	-	LOC493856	IPI00166865					5
Unknown	-	LOC494150 PROTEIN.	IPI00386435			3		
Unknown	-	LRBA	IPI00002255					28
Unknown	-	LSM12	IPI00410324			2	2	1
Unknown	-	LYSMD2	IPI00216874			2		
Unknown	-	M6PRBP1	IPI00303882		4			
Unknown	-	MAC30	IPI00020004		2			2
Unknown	-	MAD1L1	IPI00470519				7	
Unknown	-	MAEA	IPI00607605				1	
Unknown	-	MAGED1	IPI00398845			4		
Unknown	-	MAPBPIP	IPI00477441			1		3
Unknown	-	MESDC2	IPI00399089		3			
Unknown	-	MFSD1	IPI00152959	1				
Unknown	-	MFSD5	IPI00301554					3
Unknown	-	MGC2803	IPI00031526			4		3
Unknown	-	MGC10993	IPI00012251	1				
Unknown	-	MGC13096	IPI00031647					5
Unknown	-	MGC14289	IPI00062866		2	6	1	
Unknown	-	MGC33214	IPI00181160				1	
Unknown	-	MGC52424	IPI00177509					2
Unknown	-	MGC61571	IPI00376478	1		2	2	2
Unknown	-	MGP	IPI00028714		1			
Unknown	-	Mitsugumin 23	IPI00031697		4		2	6
Unknown	-	MLC1SA	IPI00027255				2	
Unknown	-	MLLT3	IPI00000033	4				
Unknown	-	MLSTD2	IPI00478838	2				
Unknown	-	MORF4L1	IPI00409675	1				

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Unknown	-	MOSC2	IPI00329552	2				
Unknown	-	MPDU1	IPI00025292		5	1		
Unknown	-	MR-1	IPI00382557	2	1	2	2	2
Unknown	-	MRPL46	IPI00023161	4				
Unknown	-	MRPL53	IPI00061531	2				
Unknown	-	MRPS26	IPI00006606				1	
Unknown	-	MTP18	IPI00383766					2
Unknown	-	MVP	IPI00000105	3				
Unknown	-	NBEAL2	IPI00297242	3		9	3	
Unknown	-	NCDN	IPI00549543	2				1
Unknown	-	NDRG1	IPI00022078		1			
Unknown	-	NIFUN	IPI00022240				4	
Unknown	-	NIPSNAP1	IPI00304435				2	
Unknown	-	NOL9	IPI00002902					3
Unknown	-	NRM	IPI00217557			1		
Unknown	-	NSUN2	IPI00306369	8				
Unknown	-	NUDC	IPI00550746	3			7	7
Unknown	-	NUDCD1	IPI00306398	2		3	1	3
Unknown	-	NUDCD2	IPI00103142				3	4
Unknown	-	NUDT16L1	IPI00031650		7	9	7	13
Unknown	-	NYREN18	IPI00377271	1				2
Unknown	-	OCIAD2	IPI00555902			5		3
Unknown	-	ODZ3	IPI00398020		4			
Unknown	-	ORF1-FL49	IPI00382821			1		
Unknown	-	OSBP	IPI00024971	3	1			
Unknown	-	PACAP	IPI00102821					3
Unknown	-	PACSIN2	IPI00027009		1			
Unknown	-	PAGE4	IPI00299244		4			
Unknown	-	PAPD1	IPI00470416					4
Unknown	-	PDCD10	IPI00298558	1	4	5	2	5
Unknown	-	PDCL2	IPI00166688		2	1		1
Unknown	-	PHLDA2	IPI00019551		2			
Unknown	-	PHLDB2	IPI00410259					1
Unknown	-	PNPLA1	IPI00167613					4
Unknown	-	POPDC2	IPI00328717				1	
Unknown	-	PP3971.	IPI00170670					1
Unknown	-	PQLC3	IPI00167098		2			
Unknown	-	PREDICTED: SIMILAR TO GOLGI AUTOANTIGEN, GOLGIN S	IPI00399155			2		
Unknown	-	PROSC	IPI00016346	2	8	15	7	8
Unknown	-	PSG1	IPI00163720		1			
Unknown	-	PSG9	IPI00293461		4			
Unknown	-	PTMA	IPI00015550	16	7	21	5	19
Unknown	-	PTMS	IPI00719158	2	4			
Unknown	-	PXMP4	IPI00218925					2
Unknown	-	RAFTLIN	IPI00032395					26
Unknown	-	RAG1AP1	IPI00305185					2
Unknown	-	RHBDF1	IPI00290292		1			
Unknown	-	RHBDL6	IPI00433499					3
Unknown	-	RHBDL7	IPI00010255					1
Unknown	-	RP1-14N1 3	IPI00397801	12	20	9	23	9
Unknown	-	RP5-1104E15 5	IPI00300223				1	
Unknown	-	RP11-98F14 6	IPI00100313					5
Unknown	-	RP11-217H1 1	IPI00301202		5			
Unknown	-	RQCD1	IPI00023101			6		4
Unknown	-	RTN2	IPI00024983				1	
Unknown	-	RTN3	IPI00398795		6	1		
Unknown	-	RTN3	IPI00555783	1			3	3
Unknown	-	RTTN	IPI00645947	9		7		
Unknown	-	SAAL1	IPI00304935	1		1	1	1
Unknown	-	SAMM50	IPI00412713		4			
Unknown	-	SART1	IPI00021417			3		
Unknown	-	SBSN	IPI00373937	1				
Unknown	-	SF3B5	IPI00010404				2	3
Unknown	-	SFRS16	IPI00013107					1
Unknown	-	SFT2D2	IPI00029002					1
Unknown	-	SH2BP1	IPI00005625				1	
Unknown	-	SIKE	IPI00305186					1
Unknown	-	SIMILAR TO BX34-P1.	IPI00063142					1
Unknown	-	SIMILAR TO CHROMOSOME 21 OPEN READING FRAME 70.	IPI00067466					1
Unknown	-	SIMILAR TO COX11 (YEAST) HOMOLOG, CYTOCHROME C OX	IPI00142866			1		
Unknown	-	SIMILAR TO DJ604K5.1 (15 KDA SELENOPROTEIN).	IPI00104903				1	
Unknown	-	SIMILAR TO E2F TRANSCRIPTION FACTOR -LIKE PROTEIN	IPI00183869					2
Unknown	-	SIMILAR TO FRG1 PROTEIN (FSHD REGION GENE 1 PROTE	IPI00019816				3	
Unknown	-	SIMILAR TO HYPOTHETICAL PROTEIN (H. SAPIENS).	IPI00036670				1	
Unknown	-	SIMILAR TO HYPOTHETICAL PROTEIN FLJ10292.	IPI00004316	1			1	1
Unknown	-	SIMILAR TO HYPOTHETICAL PROTEIN FLJ10902 (H. SAPI	IPI00043770					1
Unknown	-	SIMILAR TO HYPOTHETICAL PROTEIN FLJ12457.	IPI00076139		2			
Unknown	-	SIMILAR TO HYPOTHETICAL PROTEIN MGC29729.	IPI00047508	1	3	2	3	2
Unknown	-	SIMILAR TO KARYOPHERIN ALPHA 1 (IMPORTIN ALPHA 5)	IPI00097143	2				
Unknown	-	SIMILAR TO NONSYNDROMIC HEARING IMPAIRMENT PROTEI	IPI00106625			1		
Unknown	-	SIMILAR TO PEPTIDYLPROLYL ISOMERASE A (CYCLOPHILI	IPI00094886				1	
Unknown	-	SIMILAR TO PESCADILLO HOMOLOG 1.	IPI00074223					1
Unknown	-	SIMILAR TO PROLINE-SERINE-THREONINE PHOSPHATASE I	IPI00141076	1				
Unknown	-	SIMILAR TO R27-2 PROTEIN - TRYPANOSOMA CRUZI.	IPI00161341					5
Unknown	-	SIMILAR TO RETICULON PROTEIN 3 (NEUROENDOCRINE-SP	IPI00177423			3		
Unknown	-	SIMILAR TO SERINE/THREONINE-PROTEIN KINASE PAK 2	IPI00158354			1		1
Unknown	-	SIMILAR TO STEROID HORMONE RECEPTOR HOMOLOG - FRU	IPI00096097				1	
Unknown	-	SIMILAR TO TANDEM PORE DOMAIN POTASSIUM CHANNEL T	IPI00041219					1
Unknown	-	SPAG9	IPI00218097	2				
Unknown	-	SPBC24	IPI00168317			2		
Unknown	-	SPBC25	IPI00010219			1		
Unknown	-	SSNA1	IPI00014437					4
Unknown	-	SSU72	IPI00023556			1		
Unknown	-	STARD7	IPI00024548					3
Unknown	-	STATIP1	IPI00015560				2	1
Unknown	-	STOM	IPI00219682	6	8		2	1
Unknown	-	STRA6	IPI00465247		4			
Unknown	-	STRAP	IPI00294536					2
Unknown	-	STXBP6	IPI00178314					1
Unknown	-	SUGT1	IPI00009149					3
Unknown	-	SURF4	IPI00005737	15	80	37	12	36
Unknown	-	SYNGR2	IPI00013946		3			
Unknown	-	SYNGR2	IPI00654744			2		
Unknown	-	SYNGR3	IPI00013947					2
Unknown	-	TBL2	IPI00000948					4
Unknown	-	TCOF1	IPI00298696	25		7	26	30
Unknown	-	TEX264	IPI00006372	6	2	9	3	19
Unknown	-	THUMPD1	IPI00465054				1	
Unknown	-	TIPRL	IPI00180637			3	3	2
Unknown	-	TMCO1	IPI00026111			4		3

Protein family	Subfamily	Protein name (Sugen nomenclature for kinases when available, rest from IPI)	IPI acc. no.	Number of spectrum-to-sequence matches				
				HeLa	Placenta	Jurkat	K562	Ramos
Unknown	-	TMEM2	IPI00170706		13			
Unknown	-	TMEM16F	IPI00151710		3	5		
Unknown	-	TMEM32	IPI00166785		2	3		2
Unknown	-	TMEM33	IPI00299084	11	13	12	4	14
Unknown	-	TMEM38B	IPI00018237				1	1
Unknown	-	TMEM41A	IPI00063334					2
Unknown	-	TMEM41B	IPI00555703	3			1	
Unknown	-	TMEM43	IPI00301280		14			
Unknown	-	TMEM49	IPI00062469					1
Unknown	-	TMEM50A	IPI00385141					5
Unknown	-	TMEM50B	IPI00010146					5
Unknown	-	TMEM66	IPI00604763	13	3	5	2	6
Unknown	-	TMEM103	IPI00107155				1	
Unknown	-	TMEM111	IPI00020472			1		
Unknown	-	TMEM113	IPI00152695	2				4
Unknown	-	TMPIT	IPI00470533	2	3	2		
Unknown	-	TNFAIP8	IPI00027627			3		2
Unknown	-	TPARL	IPI00307572	2	2	1		2
Unknown	-	TRAM2	IPI00014218		1			
Unknown	-	TRAPPC1	IPI00009654					2
Unknown	-	TSC1	IPI00022043					5
Unknown	-	TSPAN14	IPI00303059		2	1		
Unknown	-	TTC7B	IPI00456534		4			
Unknown	-	UBL5	IPI00013241					1
Unknown	-	UBXD2	IPI00293946					2
Unknown	-	UFC1	IPI00294495					3
Unknown	-	UNC45A	IPI00072534	8		2	3	1
Unknown	-	UNC93B1	IPI00008490					4
Unknown	-	UNG2	IPI00186099	1				
Unknown	-	UNQ501	IPI00063130					1
Unknown	-	UNQ5783	IPI00478640					1
Unknown	-	USMG5	IPI00640630					3
Unknown	-	VAC14	IPI00025160				6	1
Unknown	-	VCY	IPI00297427		1			
Unknown	-	WBSCR19	IPI00477590		2			
Unknown	-	WDR18	IPI00032533					2
Unknown	-	WDR42A	IPI00290071	1		2		
Unknown	-	WDR58	IPI00328985					1
Unknown	-	WDR61	IPI00019269				1	4
Unknown	-	WDR62	IPI00470483					1
Unknown	-	WIBG	IPI00305092				1	
Unknown	-	WRB	IPI00010873					3
Unknown	-	XX-FW81657B9 4	IPI00032314				2	
Unknown	-	YIF1A	IPI00658171	3	2			2
Unknown	-	YIF1B	IPI00063544	1	2		1	
Unknown	-	YIPF4	IPI00031127				1	
Unknown	-	YIPF5	IPI00607768		2	2		3
Unknown	-	YPEL5	IPI00429538				2	
Unknown	-	YRDC	IPI00384180					2
Unknown	-	YTHDF2	IPI00306043	2				9

Bantscheff *et al.* , **Supplementary Table 4** online
Kinobeads competition data calculated from iTRAQ reporter signals for bosutinib, dasatinib, and imatinib in K562 cell lysate (data for **Fig. 3b** and **3c**)

Abbreviations: SSM; number of spectrum-to-sequence matches, NA; not available.

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00012197	XTP3TPA		235	7	4	0.92	1.03	0.86	0.87	0.88	0.90	0.69	0.51	>10	0.933	6	0.88	1.02	0.81	0.52	0.89	1.04	0.55	0.67	>10	0.202	2	0.87	1.56	0.91	0.91	0.82	0.80	>10	NA
IPI00298977	AAK1	AAK1	1181	87	36	0.90	0.97	1.07	1.00	1.07	0.92	0.91	0.55	>10	3.411	34	0.95	0.91	1.02	0.90	1.02	0.96	0.87	0.75	>10	NA	21	1.06	1.07	0.96	0.91	0.94	0.83	>10	NA
IPI00063827	ABHD14B		57	2	1	1.10	1.30	0.64	NA	NA	NA	NA	NA	>10	NA	1	1.44	1.63	0.69	NA	NA	NA	NA	NA	>10	NA	1	1.10	NA	1.15	NA	0.65	NA	>10	NA
IPI00329488	ABL2	ARG	2998	529	117	0.93	0.94	0.90	0.68	0.51	0.32	0.25	0.19	0.102	0.071	121	0.99	0.95	0.77	0.42	0.37	0.25	0.22	0.17	0.031	0.019	53	1.05	1.17	0.91	0.66	0.47	0.30	0.711	0.272
IPI00020226	ACOX3		1344	62	42	1.02	1.01	1.07	1.04	1.07	1.04	0.92	0.78	>10	NA	42	1.05	0.97	0.99	0.92	0.99	1.34	0.72	0.83	>10	NA	27	1.03	1.02	1.01	0.92	0.87	0.76	>10	NA
IPI00640698	ACTA2		364	17	4	1.02	1.13	0.99	1.08	1.19	0.45	0.44	0.46	0.257	0.205	8	0.82	0.64	0.72	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00021439	ACTG1		1221	104	39	1.37	1.16	1.04	1.03	1.01	0.69	0.63	0.48	>10	0.267	40	1.10	0.96	0.96	0.92	0.90	0.85	0.59	0.53	>10	0.436	28	1.02	1.23	1.10	0.95	0.88	0.75	>10	NA
IPI00013808	ACTN4		66	9	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	0.75	0.99	1.37	1.63	0.62	1.01	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00029219	ACVR1	ALK2	544	35	11	0.91	1.01	1.02	1.04	1.10	0.94	0.96	0.72	>10	NA	10	0.99	0.94	0.91	0.91	0.95	0.98	0.74	0.69	>10	NA	10	0.98	1.18	0.96	0.97	0.92	0.78	>10	NA
IPI00005732	ACVR1B	ALK4	238	14	2	0.94	1.09	1.14	NA	0.73	NA	0.49	NA	0.273	0.091	1	NA	NA	0.97	NA	0.88	NA	0.54	NA	>10	NA	2	0.88	NA	0.94	NA	0.85	NA	>10	NA
IPI00437565	ACVR2B	ACTR2B	282	14	8	0.98	1.22	1.09	1.18	1.08	0.91	0.92	0.76	>10	NA	8	1.13	1.10	0.92	1.20	0.82	0.92	0.64	0.57	>10	0.356	4	0.94	1.52	1.01	1.06	0.65	0.94	>10	NA
IPI00007709	ADAM28		57	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	NA	NA	0.99	NA	0.80	NA	0.71	NA	>10	NA	1	0.92	NA	0.68	NA	0.68	NA	>10	NA
IPI00412099	ADCK1	ADCK1	119	10	2	0.85	0.90	1.01	NA	1.33	NA	0.98	NA	>10	NA	2	1.02	0.97	0.97	0.96	1.16	0.71	0.90	0.75	>10	NA	2	NA	0.97	NA	1.02	NA	0.70	>10	NA
IPI00290279	ADK		1163	89	52	0.93	0.96	1.10	1.02	1.23	0.95	0.85	0.67	>10	NA	48	1.09	1.00	1.03	1.08	0.88	1.08	0.72	0.55	>10	0.893	25	1.02	1.22	0.94	0.99	0.84	0.82	>10	NA
IPI00004344	AFF4		247	24	2	1.21	1.16	1.10	1.04	1.20	0.93	0.88	0.73	>10	NA	2	NA	NA	1.15	1.08	0.95	1.16	0.67	0.78	>10	NA	1	1.29	1.09	1.35	0.84	0.83	0.62	>10	NA
IPI00019141	AGPAT1		57	2	1	NA	NA	1.76	NA	1.87	NA	1.71	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00719440	AHRR		200	5	4	0.87	0.90	0.93	NA	NA	NA	NA	NA	>10	NA	3	0.91	0.75	0.93	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00215901	AK2		82	1	1	0.67	0.87	1.56	NA	NA	NA	NA	NA	>10	NA	1	0.91	0.76	0.62	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00103467	ALDH1B1		74	3	1	0.85	0.82	0.83	NA	NA	NA	NA	NA	>10	NA	1	0.97	0.80	0.68	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00465439	ALDOA		216	12	4	1.18	1.01	1.09	NA	1.15	NA	1.01	NA	>10	NA	7	1.44	1.18	1.44	0.83	1.20	1.04	1.39	0.62	>10	NA	3	0.87	NA	1.19	NA	0.93	NA	>10	NA
IPI00005731	ALK3	BMPR1A	200	8	3	0.88	1.01	1.01	1.02	1.09	0.85	0.75	0.74	>10	NA	3	1.22	1.03	1.02	0.91	0.96	0.94	0.78	0.65	>10	NA	4	1.01	1.28	0.95	0.93	0.93	0.78	>10	NA
IPI00008247	ANAPC5		84	3	2	0.80	1.06	0.70	NA	NA	NA	NA	NA	>10	NA	2	1.16	0.86	0.96	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00008248	ANAPC7		70	6	1	1.04	1.15	0.98	NA	0.32	NA	0.53	NA	>10	0.014	2	2.11	1.63	1.77	1.00	0.63	1.32	0.92	0.72	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00025849	ANP32A		59	2	2	NA	NA	1.45	0.78	0.81	0.88	1.46	1.13	>10	NA	1	NA	NA	NA	0.76	NA	0.67	NA	1.68	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00007423	ANP32B		79	5	2	0.95	0.72	0.94	0.63	NA	0.61	NA	1.54	>10	NA	1	0.20	0.73	0.92	0.30	NA	0.79	NA	2.47	>10	0.314	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00218918	ANXA1		110	5	2	2.84	2.22	1.51	NA	NA	NA	NA	NA	>10	NA	1	1.00	0.94	1.05	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00418169	ANXA2		54	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	3	1.29	0.76	1.01	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00304577	AP2A1		618	26	8	1.00	0.95	1.02	0.70	0.78	0.77	0.55	0.42	3.164	0.663	6	0.99	1.10	0.89	0.96	0.75	1.06	0.62	0.66	>10	NA	10	0.93	1.10	0.82	0.75	0.73	0.51	>10	0.544
IPI00016621	AP2A2		436	14	3	1.06	1.06	0.96	NA	0.70	NA	0.43	NA	0.454	0.107	2	1.06	1.16	1.08	0.68	0.77	0.51	0.58	0.49	>10	0.027	1	1.21	NA	1.05	NA	0.59	NA	>10	NA
IPI00220991	AP2B1		383	17	12	0.95	0.87	0.88	0.76	0.78	0.63	0.54	0.39	1.695	0.485	11	0.96	0.90	0.87	0.74	0.65	0.52	0.47	0.40	0.508	0.076	6	1.09	1.23	0.97	0.85	0.64	0.51	>10	0.543
IPI00022256	AP2M1		353	14	5	0.97	1.11	0.85	0.91	NA	0.78	NA	0.34	2.163	0.737	8	1.68	1.35	1.04	0.79	0.79	0.65	0.46	0.70	>10	0.060	1	NA	0.92	NA	0.90	NA	0.72	>10	NA
IPI00219840	AP2S1		73	3	2	1.15	1.04	0.98	NA	NA	NA	NA	NA	>10	NA	1	0.96	1.24	0.96	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00218693	APRT		39	2	1	1.24	0.65	1.40	NA	NA	NA	NA	NA	>10	NA	1	1.31	1.13	0.62	NA	0.66	NA	0.70	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00020578	ARAF	ARAF	329	24	7	1.15	1.06	1.05	0.99	1.14	0.78	0.97	0.72	>10	NA	5	1.23	1.36	1.10	0.92	1.01	0.93	0.79	0.66	>10	NA	4	1.05	1.35	0.95	0.89	0.93	0.70	>10	NA
IPI00306048	ATAD3B		166	7	3	1.02	1.10	0.84	NA	NA	NA	NA	NA	>10	NA	3	1.24	1.37	1.09	1.64	NA	1.18	NA	0.80	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00440493	ATP5A1		588	19	14	1.32	1.26	1.15	NA	1.06	NA	0.82	NA	>10	NA	14	1.16	1.10	1.06	0.83	1.13	1.03	0.92	0.69	>10	NA	3	1.00	0.60	1.06	0.69	1.01	0.40	7.343	8.090
IPI00303476	ATP5B		424	9	8	1.12	1.02	1.08	NA	1.43	NA	0.95	NA	>10	NA	7	1.15	1.06	0.97	0.65	1.35	0.85	0.74	0.76	>10	NA	1	NA	1.38	NA	0.68	NA	0.93	>10	NA
IPI00478410	ATP5C1		172	6	3	0.85	1.19	0.92	NA	NA	NA	NA	NA	>10	NA	2	0.80	0.94	0.86	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00019025	ATP5G1		74	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	1.14	NA	1.05	NA	1.02	>10	NA
IPI00298940	AURKA	AurA	1184	89	39	1.08	1.08	1.10	1.06	1.15	1.01	0.92	0.81	>10	NA	35	1.01	1.00	0.97	1.02	1.04	1.12	0.83	0.86	>10	NA	29	1.09	1.31	0.99	0.90	0.91	0.80	>10	NA
IPI00176642	AURKB	AurB	673	33	20	1.02	1.02	1.04	1.17	0.97	1.08	0.67	0.78	>10	NA	21	1.07	0.96	0.99	0.91	1.05	1.07	0.75	0.78	>10	NA	10	0.96	1.26	0.96	0.97	0.78	0.70	>10	NA
IPI00008255	AZI2		806	41	20	1.04	1.07	0.97	0.97	1.02	0.86	0.74	0.41	4.586	1.674	20	1.08	1.07	0.97	1.00	0.94	0.99	0.78	0.76	>10	NA	16	1.06	1.09	0.90	0.93	0.83	0.70	>10	NA
IPI00004497	BCR	BCR	3234	413	1	NA	NA	1.29	NA	0.96	NA	0.53	NA	>10	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	3	0.67	NA	1.23	NA	0.44	NA	0.838	NA
NA	BCR-ABL		7490	1030	402	0.90	0.90	0.84	0.62	0.48	0.33	0.26	0.20	0.085	0.059	312	1.00	1.00	0.81	0.55	0.35	0.31	0.21	0.20	0.045	0.026	92	1.02	1.12	0.84	0.61	0.49	0.28	0.694	0.250
IPI00337426	BMP2K	BIKE	1522	92	56	0.93	0.99	1.06	0.99	1.12	0.91	0.77	0.50	>10	1.062	51	0.95	0.96	0.93	0.98	0.91	0.95	0.70	0.79	>10	NA	33	1.10	1.10	1.04	0.92	0.91	0.79	>10	NA
IPI00010862	BMPR1B	BMPR1B	92	6	1	NA	NA	1.40	NA	1.40	NA	1.22	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00303797	BRAF	BRAF	203	12	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.48	1.34	0.88	0.80	NA	1.11	NA	0.72	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00029132	BTK	BTK	3959	503	366	0.89	0.95	0.95	0.83	0.68	0.39	0.26	0.16	0.213	0.175	321	0.99	0.94	0.85	0.64	0.34	0.26	0.15	0.18	0.054	0.042	246	1.05	1.07	0.92	0.91	0.85	0.79	>10	NA
IPI00291010	C17orf63		145	6	3	1.15	0.92	1.08	1.03	1.25	0.82	1.00	0.45	7.961	3.921	3	1.07	0.91	0.92	1.07	0.90	1.03	0.47	0.39	0.948	0.771	2	0.79	1.50	1.00	0.86	0.86	0.88	>10	NA
IPI00013004	C21orf124		310	20	8	1.17	1.04	1.07	1.14	1.27	0.88	0.92	0.85	>10	NA	11	1.14	0.96	1.06	0.76	1.16	0.78	0.92	0.59	>10	1.571	9	0.96	1.39	1.05	0.99	0.89	0.73	>10	NA
IPI00176469	CABC1	ADCK3	1431	132	62	0.87	0.95	1.03	1.05	1.45	1.00	0.96	0.80	>10	NA	67	1.02	0.95	1.03	1.03	0.99	1.03	0.69	0.52	>10	0.901	31	1.01	1.06	0.95	0.93	0.83	0.78	>10	NA
IPI00030512	CABLES2		104	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.21	1.83	1.58	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00301263	CAD		2690	128	60	1.00	0.96	1.02	1.10	1.05	0.95	0.88	0.77	>10	NA	61	1.06	1.07	1.03	0.96	0.92	0.94	0.77	0.77	>10	NA	33	1.04	1.24	0.98	1.01	0.87	0.77	>10	NA
IPI00075248	CALM2		165	8	8	1.23	1.29	1.14	0.94	1.05	0.79	0.54	0.31	1.129	0.633	7	0.84	0.91	1.19	0.61	NA	0.74	NA	0.47	8.536	0.204	2	0.63	NA	0.74	NA	0.54	NA	>10	NA
IPI00020599	CALR		90	9	1	1.14	1.06	1.13	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	1.61	NA	1.20	NA	0.58	NA	>10	NA	1	1.54	NA	1.06	NA	0.92	NA	>10	NA
IPI00430291	CAMK2D	CaMK2d	712	71	7	1.08	1.01	0.98	1.08	1.08	0.99	0.77	0.65	>10	NA	7	1.02	1.01	1.00	1.02	0.87	1.09	0.66	0.93	>10	NA	6	0.95	1.65	0.96	0.97	0.85	1.07	>10	NA
IPI00169392	CAMK2G	CaMK2g	1621	476	123	0.84	0.89	0.99	0.99	1.04	0.91	0.82	0.57	>10	1.518	111	1.01	1.01	1.02	0.95	0.97	0.91	0.79	0.78	>10	NA	69	1.04	1.28	0.96	0.89	0.91	0.81	>10	NA
IPI00290239	CAMKK2	CaMKK2	1112	81	41	0.91	0.93	1.01	1.02	1.15	0.97	0.85	0.49	6.728	1.426	39	0.97	0.96	0.97	0.93	0.89	1.03	0.77	0.76	>10	NA	24	1.06	1.11	1.03	0.92	0.90	0.72	>10	NA
IPI00005969	CAPZA1		110	8	2	0.97	0.93	1.07	0.84	1.09	0.83	0.93	0.68	>10	NA	2	NA	NA	0.89	1.21	0.99	1.05	0.78	0.99	>10	NA	3	1.03	1.20	1.04	0.88	0.90	0.84	>10	NA
IPI00026182	CAPZA2		86	6	1	NA	NA	NA	1.11	NA	0.80	NA	0.99	>10	NA	3	1.02	0.96	0.84	NA	NA	NA	NA	NA	>10	NA	1	0.89	NA	0.94	NA	0.96	NA	>10	NA
IPI00218782	CAPZB		74	3	2	1.22	1.16	1.06	1.04	NA	0.84	NA	0.50	>10	0.405	1	NA	NA	1.19	0.93	0.92	1.01	0.62	0.80	>10	NA	1	1.15	NA	1.01	NA	0.71	NA	>10	NA
IPI00013885	CASP14		224	13	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	12	0.96	1.28	3.17	NA	NA	NA	NA	NA	>10	NA	2	NA	4.15	NA	0.98	NA	0.75	>10	NA
IPI00219649	CBS		98	7	2	1.12	1.09	1.06	1.06	1.62	0.97	1.01	0.85	>10	NA	2	0.99	1.02	1.00	1.16	1.15	0.99	1.07	0.89	>10	NA	1	0.82	0.86	1.00	0.81	0.78	0.45	8.158	3.603
IPI00022865	CCNA2		154	13	3	0.81	0.86	0.90	0.93	1.33	1.21	1.00	1.03	>10	NA	3	0.88	0.88	1.00	1.30	0.99	1.20	0.68	1.01	>10	NA	4	1.06	0.79	0.98	0.83	0.89	0.75	>10	NA
IPI00294696	CCNB1		193	14	6	0.98	0.99	1.06	1.26	1.21	1.39	0.87	1.03	>10	NA	4	1.19	1.12	0.97	0.83	0.74	0.87	0.52	0.63	>10	0.095	3	0.93	1.53	0.82	0.87	0.72	0.70	>10	NA
IPI00021305	CCNH		1045	148	50	0.96	0.95	1.01	1.05	1.10	0.96	0.86	0.71	>10	NA	45	1.02	0.95	1.00	1.05	0.98	1.06	0.77	0.83	>10	NA	28	1.03	1.09	1.00	0.93	0.90	0.78	>10	NA
IPI00028541	CCNI		49	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	NA	NA	0.72	NA	0.98	NA	0.53	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00030247	CCNT1		411	15	8	1.02	1.01	0.94	0.85	1.04	0.79	0.80	0.54	>10	2.188	6	1.39	1.53	1.38	1.13	1.13	0.87	0.83	0.83	>10	NA	6	0.97	1.53	1.04	1.06	0.96	0.80	>10	NA
IPI00297779	CCT2		57	5	1	1.02	1.05	1.44	NA	NA	NA	NA	NA	>10	NA	1	2.00	1.23	1.24	NA	0.46	NA	0.47	NA	0.059	0.037	1	1.35	1.20	1.09	0.98	0.87	0.67	>10	NA
IPI00302927	CCT4		115	5	2	1.26	1.06	1.05	NA	NA	NA	NA	NA	>10	NA	2	1.29	1.42	0.86	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00027626	CCT6A		65	3	1	0.89	0.96	1.34	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00018465	CCT7		170	6	4	1.21	1.20	1.09	NA	NA	NA	NA	NA	>10	NA	5	1.28	1.12	0.97	NA	NA	NA	NA	NA	>10	NA	2	NA	1.57	NA	1.63	NA	0.74	>10	NA
IPI00026689	CDC2	CDC2	250	29	2	1.07	0.69	0.88	NA	0.65	NA	0.57	NA	>10	0.024	2	1.36	1.37	1.09	NA	1.43	NA	0.57	NA	>10	0.559	1	0.76	NA	0.81	NA	0.40	NA	0.620	NA
IPI00013122	CDC37		70	6	1	NA	NA	NA	1.06	NA	1.25	NA	0.66	>10	NA	2	1.60	1.22	1.44	NA	NA	NA	NA	NA	>10	NA	2	0.47	0.89	1.06	0.91	0.70	0.60	>10	0.092
IPI00031681	CDK2	CDK2	1040	120	68	0.92	0.96	1.05	1.04	1.11	0.98	0.85	0.74	>10	NA	60	1.02	0.93	0.99	1.06	0.91	1.13	0.75	0.91	>10	NA	38	0.99	1.01	0.95	0.90	0.85	0.73	>10	NA
IPI00023530	CDK5	CDK5	1461	184	119	1.05	1.05	1.13	1.11	1.22	1.00	0.95	0.78	>10	NA	103	1.34	1.13	1.18	1.06	1.08	1.04	0.82	0.83	>10	NA	62	1.14	1.22	1.02	0.95	0.88	0.79	>10	NA
IPI00023529	CDK6	CDK6	103	13	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	0.86	0.73	0.80	NA	NA	NA	NA	NA	>10	NA	1	NA	0.97	NA	1.14	NA	0.86	>10	NA
IPI00000685	CDK7	CDK7	915	99	52	0.87	0.91	0.99	0.99	1.06	0.90	0.84	0.65	>10	NA	58	0.99	0.93	0.94	0.91	0.93	1.02	0.77	0.80	>10	NA	25	0.98	1.05	0.91	0.86	0.83	0.74	>10	NA
IPI00552413	CDK9	CDK9	587	57	17	0.94	1.03	1.05	1.06	1.22	1.05	0.97	0.85	>10	NA	20	1.08	0.98	0.98	1.02	0.97	1.03	0.75	0.73	>10	NA	15	0.96	1.04	0.92	0.93	0.81	0.77	>10	NA
IPI00022977	CKB		66	2	1	1.45	1.33	1.88	NA	NA	NA	NA	NA	>10	NA	2	1.20	0.91	1.06	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00010896	CLIC1		202	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	4	1.09	0.96	0.76	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00028061	CLK1	CLK1	373	45	10	0.92	0.92	1.11	1.13	1.12	0.95	0.86	0.60	>10	NA	15	0.86	0.98	0.98	1.09	1.04	1.07	0.71	0.72	>10	NA	8	1.01	1.11	0.84	0.88	0.75	0.77	>10	NA
IPI00028071	CLK2	CLK2	162	5	4	0.88	0.90	1.00	0.82	1.31	0.94	0.71	0.35	1.675	1.102	3	1.09	1.04	1.07	0.96	0.96	1.32	0.45	0.79	>10	0.587	1	1.56	NA	1.75	NA	1.76	NA	>10	NA
IPI00219341	CLK3	CLK3	92	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	1.05	NA	1.28	NA	0.98	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00004839	CRKL		444	23	16	1.08	1.07	1.20	1.01	1.17	0.97	0.99	0.71	>10	NA	14	1.06	0.98	1.05	0.96	0.95	1.04	0.72	0.73	>10	NA	8	1.15	1.31	1.08	0.98	0.89	0.76	>10	NA
IPI00013212	CSK	CSK	2461	344	268	0.93	0.93	1.04	0.97	1.01	0.71	0.52	0.20	0.964	0.707	264	1.00	0.95	0.96	0.86	0.54	0.39	0.20	0.18	0.145	0.102	177	1.07	1.06	0.95	0.90	0.90	0.82	>10	NA
IPI00448798	CSNK1A1	CK1a	1131	63	38	0.99	1.03	1.07	1.02	1.15	0.94	0.94	0.69	>10	NA	37	1.02	0.98	0.94	0.90	0.98	0.93	0.79	0.70	>10	NA	21	1.12	1.18	1.01	0.88	0.86	0.83	>10	NA
IPI00011102	CSNK1D	CK1d	691	59	11	1.00	1.01	0.99	1.00	1.03	0.98	0.77	0.47	3.267	1.105	5	NA	NA	1.00	NA	1.07	NA	0.84	NA	>10	NA	4	1.07	0.90	1.03	1.01	0.69	0.61	>10	NA
IPI00027729	CSNK1E	CK1e	798	54	10	1.03	1.10	1.08	0.88	1.20	0.85	0.91	0.43	6.856	3.573	4	1.10	1.01	1.04	1.08	1.05	1.04	0.82	0.72	>10	NA	6	1.07	1.30	1.18	0.90	0.93	0.77	>10	NA

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00465058	CSNK1G1	CK1g1	457	15	2	1.05	0.82	0.90	1.01	NA	0.90	NA	0.67	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00218437	CSNK1G3	CK1g3	932	76	31	0.83	0.94	1.00	0.97	1.08	0.91	0.92	0.83	>10	NA	35	0.94	0.95	0.97	0.97	0.93	1.07	0.71	0.88	>10	NA	13	1.05	1.15	1.04	0.96	0.93	0.81	>10	NA
IPI00016613	CSNK2A1	CK2a1	572	41	24	1.00	1.08	1.02	0.90	0.98	0.86	0.75	0.69	>10	NA	22	1.01	0.96	0.86	1.05	0.79	0.96	0.58	0.86	>10	0.518	20	1.01	1.20	0.91	0.85	0.71	0.56	>10	0.373
IPI00020602	CSNK2A2	CK2a2	1101	82	57	0.95	0.95	1.02	0.96	1.03	0.89	0.80	0.83	>10	NA	56	1.05	1.00	0.99	0.95	0.95	0.97	0.69	0.78	>10	NA	20	1.11	1.30	0.96	0.90	0.94	0.67	>10	NA
IPI00010865	CSNK2B		457	38	13	1.06	1.17	1.16	0.97	1.11	0.92	0.91	0.77	>10	NA	14	1.11	1.25	1.01	1.11	0.87	1.04	0.76	0.91	>10	NA	12	1.04	1.02	1.00	0.90	0.85	0.56	>10	3.351
IPI00290142	CTPS		51	6	1	NA	NA	1.07	NA	1.15	NA	0.82	NA	>10	NA	2	NA	NA	0.98	0.84	1.04	0.92	0.70	0.66	>10	NA	1	NA	1.97	NA	0.63	NA	1.17	>10	NA
IPI00644231	CYFIP1		107	5	2	0.95	0.85	0.75	NA	NA	NA	NA	NA	>10	NA	2	1.20	1.15	0.58	NA	NA	NA	NA	NA	>10	NA	1	0.98	NA	1.68	NA	0.76	NA	>10	NA
IPI00020454	DCK		416	21	14	0.92	0.93	1.00	1.12	1.17	0.91	0.92	0.92	>10	NA	13	1.06	1.04	1.00	1.14	1.01	1.12	0.77	0.97	>10	NA	5	1.01	1.03	1.01	0.88	0.85	0.86	>10	NA
IPI00001477	DDR1	DDR1	473	25	11	0.90	0.87	0.91	1.01	1.01	0.85	0.62	0.44	1.885	0.767	8	1.04	0.96	0.94	1.00	0.72	0.51	0.39	0.44	0.275	0.113	6	0.95	0.92	0.65	0.42	0.53	0.28	0.179	0.090
IPI00026829	DHPS		377	9	8	0.94	1.05	0.92	1.36	1.20	1.03	0.86	0.84	>10	NA	8	1.11	1.04	1.19	0.81	1.12	0.96	0.97	0.58	>10	2.725	3	1.88	2.23	1.26	1.01	1.22	1.10	>10	NA
IPI00298547	DJ-1		105	4	2	1.57	1.22	0.94	NA	NA	NA	NA	NA	>10	NA	3	1.13	1.11	1.00	0.84	NA	0.86	NA	0.53	>10	0.504	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00397883	DKFZp686K16132		129	10	1	NA	NA	0.93	NA	0.83	NA	0.61	NA	>10	NA	2	NA	NA	0.89	NA	1.07	NA	0.55	NA	>10	NA	3	1.04	1.12	0.83	0.84	0.70	0.71	>10	NA
IPI00604707	DLAT		1034	77	31	0.93	1.02	1.01	0.93	0.97	0.88	0.89	0.75	>10	NA	38	0.99	0.95	0.96	1.00	0.95	0.97	0.73	0.79	>10	NA	31	1.03	1.00	0.95	0.87	0.80	0.78	>10	NA
IPI00293260	DNAJC10		221	10	5	1.10	1.15	1.08	1.07	1.04	0.96	0.84	0.85	>10	NA	4	1.11	0.98	0.88	1.18	0.89	1.20	0.77	0.86	>10	NA	4	0.99	1.01	0.95	1.00	0.81	0.77	>10	NA
IPI00022602	DOK2		577	34	9	0.93	0.95	1.02	0.86	0.97	0.63	0.46	0.25	0.716	0.461	8	0.96	0.95	0.86	0.64	0.41	0.34	0.14	0.25	0.067	0.045	10	0.90	1.42	0.95	1.06	0.71	0.75	>10	NA
IPI00025753	DSG1		68	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	1.19	1.16	1.27	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00019329	DYNLL2		244	39	12	1.13	1.07	1.06	0.98	1.07	1.04	0.89	0.77	>10	NA	10	1.00	0.96	0.95	1.13	1.01	1.33	0.79	1.14	>10	NA	8	1.10	1.24	1.01	0.99	0.87	0.78	>10	NA
IPI00014344	DYRK1A	DYRK1A	147	19	4	1.14	1.12	0.99	1.04	0.97	0.90	0.84	0.74	>10	NA	4	1.10	1.00	0.92	1.11	0.96	1.16	0.71	0.96	>10	NA	2	1.09	NA	0.75	NA	0.90	NA	>10	NA
IPI00472724	EEF1A1		759	34	24	1.37	1.23	1.12	0.93	1.07	0.72	0.86	0.65	>10	NA	26	1.12	0.93	1.00	1.13	0.99	1.27	0.89	1.06	>10	NA	11	0.94	1.16	1.01	0.83	0.84	0.79	>10	NA
IPI00014424	EEF1A2		759	34	2	1.62	1.17	0.99	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00000875	EEF1G		132	3	2	1.48	1.15	1.18	NA	NA	NA	NA	NA	>10	NA	3	1.55	1.32	1.04	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00186290	EEF2		196	15	3	1.13	1.18	1.05	1.26	1.01	0.85	0.91	0.78	>10	NA	7	1.06	0.89	0.91	0.93	0.91	1.09	0.63	0.78	>10	NA	4	0.82	1.81	0.91	0.88	0.92	0.63	>10	NA
IPI00328149	EIF2AK1	HRI	370	17	7	0.81	0.88	1.03	1.03	1.11	0.82	0.74	0.41	3.072	1.220	8	1.16	1.06	0.91	0.89	0.85	1.04	0.57	0.54	>10	0.719	4	1.08	1.22	1.10	0.94	0.96	0.61	>10	NA
IPI00163851	EIF2AK4	GCN2	399	15	10	1.02	1.06	1.03	0.84	0.80	0.76	0.61	0.75	>10	NA	4	0.94	0.91	1.09	0.95	1.20	0.96	1.15	0.98	>10	NA	4	0.94	1.17	0.83	0.98	0.80	0.78	>10	NA
IPI00290461	EIF3S1		652	72	21	0.98	0.99	0.97	1.02	1.10	0.97	0.83	0.76	>10	NA	20	0.94	0.94	0.92	0.77	0.95	0.96	0.76	0.71	>10	NA	14	0.91	0.94	0.95	0.73	0.80	0.60	>10	1.256
IPI00386604	EIF4A1		52	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.06	1.21	0.48	0.98	NA	1.05	NA	0.68	>10	0.866	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00465248	ENO1		436	19	7	1.84	1.26	1.27	NA	1.62	NA	1.30	NA	>10	NA	9	1.17	0.98	0.71	NA	NA	NA	NA	NA	>10	NA	3	0.89	NA	1.40	NA	0.93	NA	>10	NA
IPI00008318	EPHA4	EphA4	142	9	1	0.69	1.27	0.85	NA	NA	NA	NA	NA	>10	NA	1	1.32	1.12	0.83	NA	NA	NA	NA	NA	>10	NA	1	0.80	0.89	1.20	0.88	0.70	0.55	>10	0.765
IPI00008315	EPHB1	EphB1	492	29	5	1.03	0.99	1.08	0.84	1.05	0.74	0.47	0.40	0.707	0.369	4	1.02	1.00	0.74	NA	NA	NA	NA	NA	>10	NA	4	0.97	1.69	1.08	0.97	0.94	0.76	>10	NA
IPI00021275	EPHB2	EphB2	457	28	8	0.89	0.88	0.85	0.90	0.76	0.96	0.51	0.78	>10	3.697	7	1.06	0.92	0.64	NA	0.51	NA	0.50	NA	0.339	0.003	5	1.15	1.38	1.20	1.15	1.07	0.81	>10	NA
IPI00289329	EPHB3	EphB3	546	43	1	NA	NA	0.93	NA	0.86	NA	0.46	NA	0.422	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00289342	EPHB4	EphB4	2052	136	59	0.97	0.98	0.86	0.65	0.52	0.37	0.33	0.24	0.108	0.048	57	1.04	0.99	0.62	0.28	0.32	0.23	0.22	0.18	0.014	0.009	46	1.04	1.34	1.00	0.97	0.91	0.81	>10	NA
IPI00029728	ERCC2		1902	105	69	0.95	0.97	1.04	0.92	1.11	0.91	0.81	0.67	>10	NA	74	1.02	0.98	0.98	1.06	0.94	1.08	0.74	0.84	>10	NA	36	1.00	1.14	0.99	0.97	0.85	0.79	>10	NA
IPI00291364	ERCC3		107	6	2	1.14	1.00	1.93	NA	1.36	NA	0.65	NA	>10	NA	1	0.72	0.82	0.77	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00009841	EWSR1		107	14	3	1.05	1.29	1.09	0.99	0.88	0.92	0.61	0.76	>10	NA	2	1.10	1.49	1.06	1.75	0.70	2.06	0.58	0.66	>10	0.112	2	1.21	1.51	1.27	0.96	1.19	0.71	>10	NA
IPI00328846	FAM83A		891	64	35	0.87	0.92	1.03	1.02	1.11	0.97	0.90	0.58	>10	1.829	38	1.03	0.99	1.00	0.93	1.13	0.95	0.97	0.77	>10	NA	17	1.07	1.25	1.02	0.94	0.95	0.78	>10	NA
IPI00026781	FASN		240	20	4	1.37	1.14	1.09	NA	1.01	NA	0.52	NA	>10	0.185	4	0.85	0.78	0.74	0.97	NA	1.06	NA	0.83	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00554589	FECH		1356	132	84	0.94	1.01	1.03	1.07	1.07	0.99	0.87	0.80	>10	NA	71	1.01	1.01	0.98	0.95	1.06	1.01	0.81	0.78	>10	NA	58	1.04	1.09	0.95	0.93	0.86	0.73	>10	NA
IPI00029263	FER	FER	1551	131	63	0.94	0.93	1.04	1.07	1.09	0.94	0.69	0.37	1.851	0.978	55	1.05	0.95	0.97	1.06	0.99	1.12	0.75	0.84	>10	NA	44	1.04	1.22	0.94	0.92	0.85	0.75	>10	NA
IPI00005142	FGFR1	FGFR1	344	30	9	0.91	0.88	1.07	1.13	1.32	0.96	0.91	0.73	>10	NA	6	1.01	0.98	1.04	1.04	1.27	1.12	0.87	0.81	>10	NA	8	1.08	1.00	1.04	0.94	0.79	0.70	>10	NA
IPI00012443	FIBP		497	21	11	0.98	1.09	1.09	1.08	1.27	0.96	0.87	0.87	>10	NA	11	1.01	0.96	0.94	0.90	0.95	0.90	0.69	0.71	>10	NA	7	0.94	1.29	0.98	1.03	0.81	0.87	>10	NA
IPI00060574	FLAD1		43	2	1	NA	NA	NA	1.18	NA	2.47	NA	1.25	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00026256	FLG		169	27	1	NA	NA	0.90	0.94	0.44	0.81	NA	0.48	>10	0.041	4	NA	NA	1.08	NA	2.63	NA	1.19	NA	>10	NA	8	NA	9.23	NA	0.93	NA	0.72	>10	NA
IPI00442821	FLJ26613		132	6	1	NA	NA	NA	0.85	NA	0.99	NA	0.79	>10	NA	2	1.14	1.01	0.91	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00332067	FLJ35880		78	17	2	0.82	0.88	0.87	0.99	0.89	0.96	0.68	0.78	>10	NA	2	1.04	0.98	0.91	NA	0.88	NA	0.73	NA	>10	NA	1	1.04	2.22	1.03	0.83	0.76	0.69	>10	NA
IPI00018522	FLJ46072		55	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	NA	1.77	NA	0.80	NA	0.77	>10	NA
IPI00099986	FN3KRP		301	16	10	0.96	0.99	1.11	0.97	1.27	0.94	0.95	0.83	>10	NA	8	0.93	0.86	0.87	1.07	0.94	1.19	0.69	0.93	>10	NA	4	0.91	1.37	0.90	0.89	0.84	0.73	>10	NA
IPI00000885	FRK	FRK	154	14	5	0.96	0.87	0.90	1.01	NA	0.79	NA	0.29	0.649	0.507	1	0.98	0.64	0.74	NA	NA	NA	NA	NA	>10	NA	5	1.06	1.13	1.24	0.93	0.97	0.78	>10	NA
IPI00163187	FSCN1		53	2	1	1.59	1.12	1.02	NA	NA	NA	NA	NA	>10	NA	1	0.85	1.08	0.65	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00260715	FUS		151	13	4	0.83	1.00	1.18	1.05	1.42	0.93	0.96	0.68	>10	NA	3	0.85	0.87	0.98	0.92	0.89	0.88	0.68	0.65	>10	NA	3	1.51	1.44	1.43	1.44	1.28	1.29	>10	NA
IPI00219012	FYN	FYN	1380	238	38	0.93	0.99	0.96	0.88	0.85	0.63	0.45	0.33	0.700	0.324	35	1.05	1.00	0.85	0.56	0.62	0.52	0.30	0.24	0.199	0.052	20	1.00	0.99	0.96	1.02	0.79	0.72	>10	NA
IPI00298949	GAK	GAK	4403	327	214	0.87	0.88	0.81	0.56	0.41	0.28	0.21	0.17	0.056	0.036	201	1.04	0.98	0.97	0.95	0.74	0.59	0.34	0.26	0.422	0.227	154	1.06	1.14	0.99	0.91	0.84	0.68	>10	NA
IPI00008790	GALC		506	18	17	0.96	1.10	1.04	1.00	0.92	0.94	0.88	0.66	>10	NA	9	1.03	1.02	0.99	0.93	1.03	1.16	0.74	0.84	>10	NA	5	1.02	1.16	0.93	0.89	0.85	0.76	>10	NA
IPI00011454	GANAB		104	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	0.99	0.82	0.93	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00219018	GAPDH		562	21	11	1.94	1.50	1.18	1.17	1.38	0.85	1.19	0.96	>10	NA	13	1.22	0.99	1.00	0.95	1.15	1.30	0.73	0.80	>10	NA	8	0.97	1.91	1.19	0.85	1.08	0.73	>10	NA
IPI00292753	GAPVD1		788	51	18	0.96	0.89	1.02	1.01	1.04	0.94	0.81	0.56	>10	1.213	21	1.00	0.99	1.03	0.98	1.00	1.14	0.68	0.76	>10	NA	17	1.02	1.21	1.06	0.93	0.92	0.75	>10	NA
IPI00001159	GCN1L1		1271	41	28	0.99	0.98	0.96	1.09	1.00	1.05	0.82	0.77	>10	NA	28	1.03	1.03	1.06	0.93	1.07	1.11	0.68	0.83	>10	NA	8	1.00	1.19	0.88	0.99	0.96	0.79	>10	NA
IPI00029079	GMPS		68	3	1	1.11	1.13	0.96	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00107339	GNB1L		71	4	1	NA	NA	NA	1.08	NA	0.86	NA	0.59	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00180434	GRAMD1A		878	67	26	1.06	0.93	1.03	0.98	1.15	0.90	0.85	0.72	>10	NA	30	1.00	1.04	0.98	1.21	0.94	1.27	0.69	0.85	>10	NA	24	1.11	1.13	1.04	0.95	0.89	0.78	>10	NA
IPI00021327	GRB2		735	41	36	0.97	0.94	0.81	0.47	0.35	0.20	0.24	0.16	0.034	0.024	30	0.95	0.88	0.72	0.35	0.33	0.24	0.27	0.16	0.021	0.016	16	1.06	0.95	0.79	0.48	0.41	0.26	0.365	0.143
IPI00292228	GSK3A	GSK3A	1909	300	91	0.93	1.01	1.03	1.01	1.03	0.92	0.86	0.77	>10	NA	91	1.04	1.02	0.98	0.92	0.94	0.97	0.74	0.78	>10	NA	79	1.06	1.08	0.97	0.95	0.90	0.82	>10	NA
IPI00216190	GSK3B	GSK3B	1740	238	60	1.03	1.00	1.03	1.02	1.11	0.94	0.89	0.70	>10	NA	57	1.04	0.99	0.97	1.01	0.98	0.99	0.82	0.83	>10	NA	51	1.10	1.05	0.98	0.97	0.88	0.83	>10	NA
IPI00016862	GSR		168	5	3	1.12	1.11	1.09	1.09	NA	1.00	NA	0.87	>10	NA	3	0.90	0.92	0.99	NA	1.12	NA	1.00	NA	>10	NA	1	1.28	NA	1.05	NA	1.07	NA	>10	NA
IPI00219757	GSTP1		143	3	2	1.71	1.46	1.28	NA	NA	NA	NA	NA	>10	NA	3	1.08	0.93	0.74	1.29	NA	0.95	NA	0.70	>10	NA	1	1.65	NA	1.27	NA	1.75	NA	>10	NA
IPI00031522	HADHA		930	26	20	1.03	1.07	0.91	1.08	1.16	0.90	0.56	0.59	>10	0.389	17	1.07	1.03	1.02	1.09	0.83	0.89	0.66	0.68	>10	NA	4	0.85	1.39	0.85	0.92	0.81	0.77	>10	NA
IPI00022793	HADHB		360	12	8	0.99	1.06	1.06	0.91	0.95	0.89	0.85	0.74	>10	NA	10	0.99	0.94	1.04	1.13	0.90	0.98	0.76	0.77	>10	NA	2	1.05	1.17	1.19	0.80	0.92	0.88	>10	NA
IPI00480146	HBZ		56	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	1.24	0.98	0.86	0.88	NA	1.15	NA	0.90	>10	NA	1	NA	1.56	NA	1.38	NA	1.28	>10	NA
IPI00029769	HCK	HCK	783	69	16	0.87	0.91	0.99	0.93	0.95	0.70	0.56	0.34	1.178	0.580	12	1.05	1.03	0.97	NA	0.73	NA	0.41	NA	0.439	0.155	7	1.04	1.11	1.04	0.95	0.94	0.84	>10	NA
IPI00719084	HIST1H2BN		169	6	2	8.86	1.38	1.59	NA	NA	NA	NA	NA	>10	NA	2	1.56	1.56	3.56	NA	0.88	NA	0.21	NA	0.163	0.145	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00453473	HIST4H4		81	3	2	13.45	1.23	1.09	NA	NA	NA	NA	NA	>10	NA	2	0.88	0.79	3.27	NA	0.78	NA	0.26	NA	>10	0.050	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00028888	HNRPD		63	2	1	1.14	1.10	1.01	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00003881	HNRPF		159	7	3	0.70	0.97	1.09	0.79	1.32	1.20	0.77	0.93	>10	NA	5	1.22	1.15	1.24	NA	1.43	NA	1.04	NA	>10	NA	2	NA	2.04	NA	0.70	NA	0.47	0.805	NA
IPI00479191	HNRPH1		76	10	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	NA	0.74	NA	0.86	NA	0.41	3.053	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00216746	HNRPK		112	7	1	0.95	1.28	0.78	0.75	NA	0.57	NA	0.62	>10	0.008	3	1.50	1.18	0.95	NA	0.94	NA	0.66	NA	>10	NA	2	0.85	0.96	0.85	0.99	0.80	0.58	>10	1.115
IPI00025054	HNRPU		65	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.36	1.17	0.89	NA	0.80	NA	0.62	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00398625	HRNR		3221	266	8	0.81	1.24	0.95	1.09	1.11	0.80	0.65	0.64	>10	NA	122	1.15	1.22	1.20	NA	1.48	NA	0.67	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00019912	HSD17B4		2774	228	130	1.06	1.11	1.10	1.03	1.17	1.00	0.92	0.81	>10	NA	117	1.10	1.07	1.05	0.98	1.03	1.03	0.83	0.81	>10	NA	89	1.09	1.15	1.03	0.99	0.91	0.82	>10	NA
IPI00514377	HSPA1A		800	78	21	1.08	1.06	1.03	0.92	0.82	0.74	0.53	0.48	3.366	0.186	21	1.09	1.10	0.89	0.75	0.69	0.68	0.45	0.52	>10	0.025	14	1.00	1.22	0.92	0.93	0.70	0.66	>10	NA
IPI00002966	HSPA4		62	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	0.80	0.74	0.97	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00003362	HSPA5		945	38	15	1.10	1.01	0.95	0.87	0.92	0.67	0.71	0.54	>10	0.337	17	1.09	0.99	0.88	0.95	0.77	0.97	0.54	0.72	>10	0.150	12	1.09	1.33	0.95	0.87	0.79	0.67	>10	NA
IPI00003865	HSPA8		1685	82	52	0.99	0.97	0.97	0.78	0.76	0.57	0.49	0.37	0.747	0.156	42	1.07	0.93	0.87	0.74	0.65	0.60	0.42	0.44	0.830	0.043	26	1.15	1.11	0.94	0.76	0.66	0.54	>10	0.345
IPI00007765	HSPA9B		862	38	22	1.21	1.11	0.97	0.92	0.77	0.66	0.53	0.42	1.318	0.202	28	0.99	0.95	0.92	0.68	0.79	0.62	0.51	0.43	1.922	0.143	15	1.00	1.10	0.95	0.85	0.76	0.61	>10	NA
IPI00025512	HSPB1		64	7	1	1.33	1.69	1.20	NA	1.41	NA	0.80	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.10	12.34	1.41	0.57	1.66	0.70	>10	NA
IPI00382470	HSPCA		511	39	4	1.52	1.25	1.11	1.03	1.10	0.65	0.73	0.61	>10	NA	5	1.17	0.94	0.92	0.81	0.81	0.91	0.65	0.64	>10	NA	5	0.98	1.17	1.00	0.74	0.82	0.66	>10	NA
IPI00414676	HSPCB		864	64	15	1.44	1.21	1.09	0.97	1.19	0.82	0.86	0.75	>10	NA	19	1.16	1.04	0.97	0.81	0.84	0.89	0.60	0.68	>10	NA	10	1.04	1.24	1.05	0.81	0.81	0.64	>10	NA
IPI00472102	HSPD1		669	23	14	1.44	1.20	1.12	1.34	1.51	0.98	0.86	0.81	>10	NA	12	1.09	0.83	0.83	0.78	0.98	0.97	0.61	0.63	>10	NA	9	0.92	1.31	1.01	0.85	0.78	0.68	>10	NA
IPI00024284	HSPG2		102	7	2	0.82	1.06	1.06	NA	NA	NA	NA	NA	>10	NA	2	0.82	0.98	0.83	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00163147	HYPOTHETICAL		49	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	0.71	0.41	1.36	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00175647	IFT80		346	27	2	NA	NA	0.92	NA	1.13	NA	0.82	NA	>10	NA	3	NA	NA	1.16	1.12	0.94	1.04	1.03	0.77	>10	NA	5	0.71	0.78	0.64	0.86	0.47	0.69	>10	0.967
IPI00024970	INCENP		97	10	3	NA	NA	1.00	NA	0.91	NA	0.79	NA	>10	NA	3	NA	NA	0.96	0.97	1.03	0.73	0.67	0.94	>10	NA	1	0.99	0.72	0.90	0.96	1.00	0.70	>10	NA
IPI00016932	SHIP2		2244	180	65	0.90	0.89	0.80	0.58	0.41	0.35	0.26	0.21	0.061	0.040	79	1.01	0.96	0.78	0.54	0.35	0.44	0.21	0.29	0.044	0.019	40	0.99	1.09	0.82	0.63	0.46	0.32	0.660	0.242
IPI00017503	IPI00030755.1		65	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	0.76	NA	1.00	NA	0.62	NA	>10	NA
IPI00067503	IPI00067503.1		43	2	1	NA	NA	0.91	NA	0.99	NA	0.98	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00335775	IPI00335775.1		66	2	2	1.16	1.57	0.73	NA	NA	NA	NA	NA	>10	NA	2	1.07	1.24	1.40	NA	0.85	NA	0.45	NA	0.268	0.135	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00007402	IPO7		199	6	4	0.88	0.99	0.95	NA	1.34	NA	0.98	NA	>10	NA	5	1.02	1.02	1.07	0.86	0.83	1.02	0.84	0.88	>10	NA	1	0.94	1.48	0.81	1.36	0.68	0.71	>10	NA

IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	bosutinib: highest SSM used for quantification	bosutinib: kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00014255	IQCB1		57	3	1	NA	NA	NA	0.28	NA	0.95	NA	0.59	>10	NA
IPI00293652	IRAK1	IRAK1	214	12	4	0.87	1.17	0.99	NA	1.09	NA	0.72	NA	>10	NA
IPI00003031	ISOC2		320	16	7	0.95	1.01	0.97	0.95	1.06	0.97	0.79	0.61	>10	NA
IPI00011633	JAK1	JAK1	2091	105	69	0.97	0.95	1.04	0.94	1.12	0.92	0.89	0.61	>10	NA
IPI00031016	JAK2	JAK2	156	9	2	NA	NA	0.98	NA	0.97	NA	0.52	NA	>10	NA
IPI00554711	JUP		61	4	1	NA	NA	1.38	NA	1.14	NA	1.24	NA	>10	NA
IPI00028116	KDELR1		41	1	1	1.04	0.94	0.83	NA	NA	NA	NA	NA	>10	NA
IPI00018248	KDELR2		55	3	1	1.13	1.39	1.48	NA	NA	NA	NA	NA	>10	NA
IPI00008575	KHDRBS1		87	10	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00166708	KHDRBS2		75	8	1	NA	NA	1.20	0.89	0.85	0.81	0.85	0.83	>10	NA
IPI00479786	KHSRP		259	14	6	0.99	1.03	1.03	0.82	1.03	0.75	0.63	0.60	>10	NA
IPI00641384	KIAA0310		494	25	14	0.93	0.98	0.96	0.91	1.00	0.83	0.73	0.65	>10	NA
IPI00465142	KIAA0528		794	59	14	0.94	0.93	0.94	0.93	1.00	0.85	0.80	0.79	>10	NA
IPI00657720	KIAA0999	QSK	957	84	20	1.02	1.01	1.06	0.95	0.92	0.73	0.48	0.39	0.969	0.346
IPI00022296	KIT	KIT	1008	85	32	0.89	0.88	1.00	0.94	0.99	0.87	0.83	0.64	>10	NA
IPI00001639	KPNB1		117	5	2	1.07	1.04	0.94	0.25	NA	0.92	NA	0.54	>10	0.013
IPI00010471	LCP1		94	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00217966	LDHA		240	10	5	2.66	1.83	1.28	NA	1.58	NA	1.14	NA	>10	NA
IPI00148061	LDHAL6A		67	8	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00219217	LDHB		155	7	2	NA	NA	1.64	1.06	1.82	0.81	1.84	0.82	>10	NA
IPI00023673	LGALS3BP		67	4	2	0.92	0.93	0.90	1.12	1.35	1.06	1.04	0.85	>10	NA
IPI00291702	LIMK1	LIMK1	506	21	15	1.06	1.06	1.10	0.92	1.20	1.00	0.90	0.80	>10	NA
IPI00022872	LIMK2	LIMK2	636	48	16	1.05	1.02	1.07	1.14	1.28	1.08	0.93	0.81	>10	NA
IPI00025746	LOC129138		161	11	2	1.16	1.20	1.28	1.10	0.83	0.57	0.78	0.34	>10	0.204
IPI00218084	LOC143244		82	3	2	1.93	1.80	1.48	NA	NA	NA	NA	NA	>10	NA
IPI00016861	LOC149329		187	12	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00021396	LOC389322		47	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00399212	LOC389842		59	3	1	1.13	1.17	1.25	NA	NA	NA	NA	NA	>10	NA
IPI00457307	LOC391039		108	9	2	1.54	1.40	1.11	NA	0.84	NA	0.41	NA	0.202	0.129
IPI00022865	LOC402102		37	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00456800	LOC441388		55	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00396563	LOC51035		47	4	2	NA	NA	2.10	1.46	2.51	1.80	1.25	0.72	>10	NA
IPI00396321	LRRC59		76	8	1	1.13	1.23	0.88	0.67	NA	0.78	NA	0.52	>10	0.012
IPI00006932	LUC7L2		104	5	2	1.23	1.16	0.97	NA	NA	NA	NA	NA	>10	NA
IPI00298625	LYN	LYN	2234	394	112	0.86	0.89	0.98	0.91	0.88	0.63	0.43	0.21	0.647	0.496
IPI00007321	LYPLA1		80	2	2	0.79	0.96	0.75	NA	NA	NA	NA	NA	>10	NA
IPI00027032	LYPLA2		84	3	1	1.12	1.08	1.21	NA	NA	NA	NA	NA	>10	NA
IPI00220817	MAN2C1		37	1	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00003783	MAP2K2	MAP2K2	84	6	1	NA	NA	0.95	NA	0.90	NA	0.80	NA	>10	NA
IPI00185860	MAP2K5	MAP2K5	287	8	3	1.09	1.08	1.12	NA	1.17	NA	0.81	NA	>10	NA
IPI00012318	MAP3K1	MAP3K1	762	54	21	1.07	1.05	1.04	0.81	0.80	0.55	0.49	0.33	0.695	0.156
IPI00000977	MAP3K11	MLK3	260	16	7	1.07	1.05	1.08	0.99	1.02	0.88	0.78	0.51	>10	1.540
IPI00513803	MAP3K2	MAP3K2	397	33	3	0.88	0.98	0.91	0.91	0.98	0.66	0.69	0.41	3.246	0.968
IPI00181703	MAP3K3	MAP3K3	310	28	6	0.95	1.04	0.93	1.11	0.98	0.78	0.61	0.39	1.753	0.612
IPI00386260	MAP3K4	MAP3K4	3204	195	122	0.93	0.95	0.97	0.92	0.83	0.61	0.49	0.34	0.752	0.299
IPI00412433	MAP3K5	MAP3K5	69	7	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00020258	MAP4K1	HPK1	79	7	1	1.08	1.00	0.96	NA	NA	NA	NA	NA	>10	NA
IPI00149094	MAP4K2	GCK	236	15	3	1.13	1.25	1.05	0.84	0.95	0.68	0.56	0.36	1.357	0.431
IPI00217024	MAP4K3	KHS2	239	13	7	1.19	1.09	1.03	0.81	0.74	0.53	0.53	0.44	0.814	0.084
IPI00294842	MAP4K5	KHS1	344	20	9	0.93	0.89	0.83	0.81	0.75	0.61	0.56	0.40	1.933	0.493
IPI00003479	MAPK1	Erk2	2422	942	411	0.92	0.94	1.05	1.02	1.18	0.97	0.92	0.79	>10	NA
IPI00019473	MAPK11	p38b	445	39	6	0.91	0.99	1.08	1.04	1.29	1.03	0.95	0.75	>10	NA
IPI00002857	MAPK14	p38a	1628	775	210	0.90	0.96	1.06	1.01	1.16	0.93	0.91	0.73	>10	NA
IPI00018195	MAPK3	Erk1	1099	229	12	0.94	1.02	1.06	1.03	1.17	0.93	0.75	0.62	>10	NA
IPI00024672	MAPK8	JNK1	1693	403	90	1.01	0.99	1.05	1.00	1.08	0.94	0.85	0.74	>10	NA
IPI00303550	MAPK9	JNK2	1429	189	59	1.08	1.05	1.06	1.05	1.06	1.01	0.84	0.78	>10	NA
IPI00555838	MARK2	MARK2	884	65	19	0.93	1.02	1.01	0.94	1.06	0.98	0.84	0.72	>10	NA
IPI00183118	MARK3	MARK3	505	36	9	0.90	0.99	1.06	0.98	1.07	0.92	0.72	0.69	>10	NA
IPI00010157	MAT2A		55	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00412253	MCCC2		279	9	3	1.08	1.06	1.14	0.99	1.68	0.92	1.26	0.96	>10	NA
IPI00291006	MDH2		181	10	3	2.19	1.84	1.27	NA	1.53	NA	0.98	NA	>10	NA
IPI00006471	MELK	MELK	263	18	8	1.01	0.97	0.99	1.12	1.24	0.99	0.82	0.70	>10	NA
IPI00029756	MERTK	MER	153	14	5	0.92	0.93	1.17	1.15	1.08	0.90	0.71	0.48	5.011	0.746
IPI00063242	MGC5352		44	3	1	1.04	1.34	0.93	1.24	0.98	1.14	0.69	0.56	>10	0.806
IPI00293276	MIF		444	134	54	1.04	1.06	1.05	1.03	1.15	1.06	0.85	0.77	>10	NA
IPI00100630	MLLT1		108	14	2	NA	NA	1.26	0.96	1.50	1.00	1.25	0.80	>10	NA
IPI00294701	MNAT1		858	55	32	0.96	1.00	1.00	0.97	1.11	0.90	0.86	0.75	>10	NA
IPI00514912	MSN		99	5	3	2.36	1.50	0.93	NA	NA	NA	NA	NA	>10	NA
IPI00513678	mTOR	FRAP	726	24	15	1.09	1.08	0.97	NA	0.79	NA	0.63	NA	>10	NA
IPI00306531	NCK2		347	22	6	0.93	1.06	1.01	0.95	0.93	0.57	0.47	0.24	0.620	0.354
IPI00604620	NCL		134	7	2	0.97	0.97	1.10	0.98	NA	0.62	NA	0.91	>10	NA
IPI00021331	NEK2	NEK2	632	45	17	1.02	1.08	1.08	1.08	1.18	0.94	0.94	0.66	>10	NA
IPI00301609	NEK9	NEK9	2909	272	143	0.97	0.97	1.03	0.96	1.07	0.90	0.80	0.68	>10	NA
IPI00008237	NLK	NLK	719	84	26	0.98	1.03	1.01	0.98	1.03	0.83	0.76	0.48	7.991	1.101
IPI00375531	NME1		104	8	2	0.93	0.93	0.95	NA	NA	NA	NA	NA	>10	NA
IPI00026260	NME2		152	8	4	1.49	1.50	1.21	NA	NA	NA	NA	NA	>10	NA
IPI00216654	NOLC1		118	4	2	0.73	0.74	0.71	NA	NA	NA	NA	NA	>10	NA
IPI00012069	NQO1		462	18	13	1.01	1.05	1.18	1.06	1.25	1.05	1.03	0.77	>10	NA
IPI00219129	NQO2		1611	603	398	0.98	0.99	1.05	0.98	1.09	0.94	0.88	0.78	>10	NA
IPI00025076	NTRK1	TRKA	735	51	23	0.86	0.92	1.03	0.94	1.05	0.88	0.80	0.63	>10	NA
IPI00107753	OPA1		78	6	1	0.77	1.05	1.04	NA	NA	NA	NA	NA	>10	NA
IPI00217223	PAICS		400	19	11	0.97	1.01	0.92	0.90	1.08	0.86	0.83	0.68	>10	NA
IPI00014068	PAK4	PAK4	723	58	15	0.92	0.97	1.09	0.96	1.13	0.90	0.83	0.66	>10	NA
IPI00449049	PARP1		92	5	3	2.39	1.30	0.94	NA	NA	NA	NA	NA	>10	NA
IPI00553006	PARS2		41	2	1	NA	NA	NA	0.61	NA	0.67	NA	0.45	3.114	NA
IPI00016610	PCBP1		375	18	10	1.13	1.03	1.09	0.97	1.19	0.96	0.97	0.76	>10	NA
IPI00000690	PDCD8		111	4	2	1.02	1.00	0.91	NA	NA	NA	NA	NA	>10	NA
IPI00306301	PDHA1		235	18	4	0.95	0.99	0.96	0.94	1.13	0.94	0.73	0.73	>10	NA
IPI00003925	PDHB		236	13	3	1.03	1.05	1.01	1.03	0.89	0.99	0.89	0.72	>10	NA
IPI00298423	PDHX		278	20	7	0.98	1.10	1.03	1.11	1.08	0.95	0.89	0.79	>10	NA
IPI00002538	PDPK1	PDK1	661	52	17	1.04	0.98	1.02	0.98	1.09	0.94	0.90	0.76	>10	NA
IPI00018235	PEF1		52	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00216691	PFN1		120	2	1	8.19	5.38	3.67	NA	NA	NA	NA	NA	>10	NA
IPI00169383	PGK1		97	4	2	1.09	1.01	0.95	NA	NA	NA	NA	NA	>10	NA
IPI00017334	PHB		316	16	7	1.36	1.21	1.08	1.14	1.08	1.18	0.84	0.87	>10	NA
IPI00027252	PHB2		433	19	9	0.98	1.08	1.04	1.06	1.05	0.93	0.89	0.73	>10	NA

IPI acc. no.	dasatinib: highest SSM used for quantification	dasatinib: kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00014255	1	NA	NA	1.29	1.53	1.07	1.75	0.60	0.94	>10	NA
IPI00293652	5	1.01	0.96	1.02	NA	0.97	NA	0.80	NA	>10	NA
IPI00003031	11	1.08	1.12	1.01	0.91	1.05	0.96	0.65	0.58	>10	0.562
IPI00011633	66	1.09	1.06	0.99	0.96	0.91	0.93	0.73	0.62	>10	NA
IPI00031016	3	0.66	0.89	0.52	NA	NA	NA	NA	NA	0.012	NA
IPI00554711	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00028116	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00018248	1	1.17	1.17	1.07	NA	NA	NA	NA	NA	>10	NA
IPI00008575	1	NA	NA	1.41	NA	1.53	NA	0.86	NA	>10	NA
IPI00166708	1	1.20	1.18	1.24	0.99	NA	1.11	NA	0.78	>10	NA
IPI00479786	3	1.46	1.09	1.04	0.91	1.24	1.20	0.75	0.76	>10	NA
IPI00641384	12	0.90	0.93	0.97	1.02	0.87	1.01	0.72	0.59	>10	0.904
IPI00465142	17	1.04	1.01	0.98	0.85	0.94	1.06	0.75	0.69	>10	NA
IPI00657720	27	0.99	0.91	0.90	0.92	0.80	0.65	0.39	0.33	0.587	0.323
IPI00022296	32	1.02	0.92	0.92	0.92	0.75	0.65	0.36	0.29	0.551	0.299
IPI00001639	3	1.05	0.81	1.23	NA	NA	NA	NA	NA	>10	NA
IPI00010471	1	0.71	0.66	0.90	0.58	NA	1.04	NA	0.75	>10	NA
IPI00217966	4	1.03	0.86	0.90	NA	1.33	NA	0.92	NA	>10	NA
IPI00148061	1	NA	NA	1.10	NA	1.42	NA	0.41	NA	0.776	NA
IPI00219217	2	0.94	0.88	1.18	0.74	1.09	0.95	0.82	0.65	>10	NA
IPI00023673	2	0.90	0.74	0.81	1.59	0.87	1.38	0.58	0.84	>10	0.014
IPI00291702	12	1.15	1.02	1.01	0.89	1.11	1.00	0.64	0.51	>10	0.725
IPI00022872	17	0.98	0.97	0.96	0.99	0.81	0.86	0.55	0.44	1.517	0.587
IPI00025746	2	0.91	0.84	0.85	0.77	NA	0.58	NA	0.43	2.291	0.371
IPI00218084	2	1.52	1.55	1.11	NA	NA	NA	NA	NA	>10	NA
IPI00016861	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00021396	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00399212	1	1.10	0.67	0.90	NA	NA	NA	NA	NA	>10	NA
IPI00457307	2	1.13	1.02	0.92	NA	0.61	NA	0.60	NA	>10	0.017
IPI00022865	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00456800	1	0.89	0.94	0.76	NA	NA	NA	NA	NA	>10	NA
IPI00396563	2	NA	NA	4.38	1.12	4.16	1.46	2.18	0.82	>10	NA
IPI00396321	2	NA	NA	1.08	NA	0.70	NA	0.58	NA	>10	NA
IPI00006932	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00298625	111	0.98	0.96	0.91	0.91	0.57	0.48	0.19	0.27	0.182	0.116
IPI00007321	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00027032	2	0.95	0.79	0.90	NA	NA	NA	NA	NA	>10	NA
IPI00220817	1	NA	NA	NA	1.11	NA	1.20	NA	0.95	>10	NA
IPI00003783	2	0.60	0.69	0.83	0.93	0.84	1.08	0.86	0.61	>10	NA
IPI00185860	5	1.11	0.97	0.99	1.10	0.96	1.03	0.61	0.37	1.200	0.888
IPI00012318	19	1.07	1.04	1.09	1.05	1.03	0.93	0.62	0.58	>10	0.466
IPI00000977	6	1.21	1.11	0.99	0.74	0.83	0.83	0.55	0.47	4.871	0.341
IPI00513803	3	0.78	0.90	0.89	0.93	0.94	0.95	0.70	0.50	>10	43.273
IPI00181703	6	0.83	0.92	0.94	1.28	1.09	1.21	0.75	0.88	>10	NA
IPI00386260	130	1.03	1.04	0.95	0.92	0.81	0.71	0.54	0.41	1.917	0.326
IPI00412433	1	NA	NA	NA	1.04	NA	0.91	NA	0.69	>10	NA
IPI00020258	1	0.92	1.01	1.02	NA	0.68	NA	0.84	NA	>10	NA
IPI00149094	4	1.24	1.09	1.03	0.90	1.04	1.02	0.86	0.60	>10	1.183
IPI00217024	6	0.91	0.92	0.86	1.08	0.92	1.08	0.75	0.68	>10	NA
IPI00294842	10	0.97	0.87	0.83	0.85	0.73	0.72	0.63	0.41	3.982	1.419
IPI00003479	390	1.00	0.97	1.02	1.05	0.90	1.06	0.72	0.84	>10	NA
IPI00019473	6	0.94	0.96	0.96	0.85	0.82	0.91	0.74	0.82	>10	NA
IPI00002857	195	1.01	0.98	0.98	1.01	0.92	0.93	0.60	0.50	3.572	0.653
IPI00018195	12	1.15	1.14	1.01	0.93	0.97	0.91	0.77	0.74	>10	NA
IPI00024672	80	1.01	1.01	1.02	0.97	0.96	0.95	0.78	0.74	>10	NA
IPI00303550	68	1.16	1.04	1.13	0.97	0.96	1.00	0.72	0.82	>10	NA
IPI00555838	20	0.93	0.87	0.94	0.92	0.95	0.85	0.69	0.77	>10	NA
IPI00183118	5	1.02	1.06	1.00	0.94	0.90	0.91	0.84	0.72	>10	NA
IPI00010157	2	0.95	0.97	0.79	NA	NA	NA	NA	NA	>10	NA
IPI00412253	5	0.92	0.82	0.80	NA	0.75	NA	0.59	NA	>10	0.071
IPI00291006	4	1.21	1.03	1.20	1.20	1.26	1.17	0.81	0.88	>10	NA
IPI00006471	7	1.13	0.99	0.96	1.00	0.97	1.08	0.73	0.71	>10	NA
IPI00029756	7	1.04	0.96	0.94	0.91	NA	0.92	NA	0.72	>10	NA
IPI00063242	1	NA	NA	0.80	NA	0.77	NA	0.58	NA	>10	NA
IPI00293276	64	1.13	1.02	1.06	1.06	0.91	1.11	0.75	0.89	>10	NA
IPI00100630	1	0.89	1.12	0.86	1.27	NA	1.46	NA	1.20	>10	NA
IPI00294701	34	1.01	0.92	0.97	0.95	1.01	0.99	0.82	0.79	>10	NA
IPI00514912	2	0.95	0.78	0.74	NA	NA	NA	NA	NA	>10	NA
IPI00513678	12	1.10	1.03	0.97	NA	NA	NA	NA	NA	>10	NA
IPI00306531	6	0.96	0.93	0.86	0.63	0.47	0.27	0.22	0.22	0.073	0.049
IPI00604620	3	0.99	0.97	1.04	0.63	1.54	0.81	1.00	1.34	>10	NA
IPI00021331	20	1.02	0.99	1.02	0.99	1.05	1.01	0.82	0.76	>10	NA
IPI00301609	144	1.09	1.08	0.99	0.93	0.85	0.90	0.65	0.72	>10	NA
IPI00008237	24	1.04	1.04	0.95	1.00	0.89	0.99	0.56	0.36	1.101	0.864
IPI00375531	4	1.03	0.85	0.92	0.92	NA	0.85	NA	0.58	>10	0.508
IPI00026260	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00216654	3	0.80	0.90	0.78	1.47	NA	0.60	NA	1.09	>10	NA
IPI00012069	16	0.97	0.88	0.88	0.89	0.95	0.88	0.71	0.77	>10	NA
IPI00219129	353	0.99	0.95	1.04	1.01	0.99	0.99	1.01	0.83	>10	NA
IPI00025076	21	0.89	0.87	0.92	0.96	0.95	1.08	0.62	0.84	>10	NA
IPI00107753	2	0.83	0.79	0.63	0.77	NA	1.06	NA	0.61	>10	NA
IPI00217223	12	1.17	1.17	1.03	0.85	0.84	1.05	0.60	0.86	>10	NA
IPI00014068	16	0.97	0.91	0.93	1.02	0.90	1.19	0.67	0.87	>10	NA
IPI00449049	1	NA	NA	NA	0.86	NA	1.02	NA	0.59	>10	NA
IPI00553006	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA
IPI00016610	11	1.08	0.95	0.97	0.96	0.94	1.19	0.62	0.91	>10	NA
IPI00000690	2	0.96	0.74	0.99	NA	NA	NA	NA	NA	>10	NA
IPI00306301	6	1.18	1.28	1.45	0.98	0.88	0.97	0.69	0.73	>10	NA
IPI00003925	4	1.13	1.36	0.93	0.96	1.15	1.11	0.88	0.85	>10	NA
IPI00298423	6	1.05	0.99	0.99	1.00	0.97	0.98	0.73	0.80	>10	NA
IPI00002538	16	0.98	1.06	1.02	0.87	0.99	0.97	0.78	0.66	>10	NA
IPI00018235	1	0.80	0.83	0.81	NA	NA	NA	NA	NA	>10	NA
IPI00216691	2	1.38	0.93	0.78	NA	NA	NA	NA	NA	>10	NA
IPI00169383	2	0.93	0.91	0.56	NA	NA	NA	NA	NA	>10	NA
IPI00017334	7	0.96	0.84	0.84	0.84	1.02	0.97	0.64	0.74	>10	NA
IPI00027252	8	1.07	0.90	0.91	0.87	0.97	0.95	0.72	1.05	>10	NA

IPI acc. no.	imatinib: highest SSM used for quantification	imatinib: kinobeads binding relative to vehicle at 0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00014255	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00293652	1	0.80	NA	1.01	NA	1.16	NA	>10	NA
IPI00003031	8	1.22	1.15	1.00	0.96	0.95	0.73	>10	NA
IPI00011633	31	1.04	1.04	0.95	0.81	0.82	0.58	>10	1.200
IPI00031016	1	1.03	NA	1.04	NA	0.80	NA	>10	NA
IPI00554711	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00028116	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00018248	1	NA	4.03	NA	0.90	NA	0.74	>10	NA
IPI00008575	3	0.86	1.96	0.96	0.83	0.79	0.79	>10	NA
IPI00166708	1	NA	1.11	NA	1.08	NA	0.72	>10	NA
IPI00479786	4	1.10	1.27	1.07	0.89	0.92	0.71	>10	NA
IPI00641384	10	1.01	1.60	0.96	1.06	0.89	0.92	>10	NA
IPI00465142	12	1.04	1.27	1.07	0.94	0.82	0.73	>10	NA
IPI00657720	17	1.04	1.13	1.07	0.76	0.87	0.74	>10	NA
IPI00022296	20	0.95	1.26	0.97	0.89	0.86	0.67	>10	NA
IPI00001639	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00010471	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00217966	1	0.79	NA	1.26	NA	1.07	NA	>10	NA
IPI00148061	1	0.50	NA	1.03	NA	0.37	NA	0.521	NA
IPI00219217	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00023673	1	1.59	1.05	0.90	1.12	1.05	1.09	>10	NA
IPI00291702	6	1.05	0.88	0.98	0.88	0.75	0.70	>10	NA
IPI00022872	15	1.10	1.40	1.02	0.90	0.93	0.80	>10	NA
IPI00025746	2	0.93	0.97	0.88	1.00	0.48	0.77	>10	0.549
IPI00218084	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00016861	3	NA	1.13	NA	1.02	NA	0.89	>10	NA
IPI00021396	1	1.45	NA	1.09	NA	1.07	NA	>10	NA
IPI00399212	1	1.32	NA	0.86	NA	1.24	NA	>10	NA
IPI00457307	3	1.24	NA	1.52	NA	1.07	NA	>10	NA
IPI00022865	1	NA	2.72	NA	1.13	NA	0.13	0.607	NA
IPI00456800	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00396563	1	1.29	0.93	1.39	1.44	0.74	0.49	1.738	1.000
IPI00396321	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00006932	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00298625	71	1.12	1.03	0.95	0.92	0.89	0.65	>10	NA
IPI00007321	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00027032	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00220817	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00003783	1	0.99	NA	1.08	NA	0.91	NA	>10	NA
IPI00185860	2	0.91	0.96	0.86	0.80	0.73	0.64	>10	NA
IPI00012318	16	1.13	1.18	1.08	0.77	0.84	0.64	>10	NA
IPI00000977	4	1.04	1.34	1.00	0.89	0.87	0.70	>10	NA
IPI00513803	3	1.13	1.32	1.04	0.90	0.86	0.74	>10	NA
IPI00181703	2	0.97	1.08	1.19	0.77	0.87	0.85	>10	NA
IPI00386260	71	1.06	1.13	0.97	0.89	0.86	0.76	>10	NA
IPI00412433	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00020258	1	1.42	NA	1.45	NA	1.10	NA	>10	NA
IPI00149094	4	0.97	1.06	1.03	0.92	0.99	0.81	>10	NA
IPI00217024	4	1.10	1.10	0.96	0.93	0.74	0.70	>10	NA
IPI00294842	8	1.03	1.29	0.99	0.96	0.99	0.76	>10	NA
IPI00003479	216	1.04	1.09	0.99	0.92	0.90	0.79	>10	NA
IPI00019473	6	0.99	1.40	0.99	0.99	0.86	0.83	>10	NA
IPI00002857	146	1.10	1.12	0.95	0.95	0.88	0.76	>10	NA
IPI00018195	10	0.97	1.05	1.00	0.89	0.87	0.72	>10	NA
IPI00024672	44	1.04	1.07	0.97	0.90	0.87	0.69	>10	NA
IPI00303550	37	0.96	1.13	0.94	0.97	0.78	0.71	>10	NA
IPI00555838	14	1.02	1.36	0.99	0.91	0.80	0.81	>10	NA
IPI00183118	5	1.02	0.96	0.96	0.83	0.92	0.69	>10	NA
IPI00010157	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00412253	1	1.10	NA	1.08	NA	1.10	NA	>10	NA
IPI00291006	3	1.07	1.23	1.35	0.68	1.03	0.67	>10	NA
IPI00006471	4	1.11	NA	0.98	NA	0.76	NA	>10	NA
IPI00029756	3	1.28	1.32	1.18	0.98	0.77	0.82	>10	NA
IPI00063242	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00293276	45	0.92	0.96	0.90	0.86	0.79	0.67	>10	NA
IPI00100630	1	0.89	2.21	1.20	0.76	0.62	0.98	>10	NA
IPI00294701	18	1.02	1.18	0.98	0.89	0.85	0.69	>10	NA
IPI00514912	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00513678	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00306531	8	1.00	1.29	0.93	0.98	0.82	0.72	>10	NA
IPI00604620	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00021331	10	0.95	1.24	0.89	0.90	0.84	0.79	>10	NA
IPI00301609	99	1.02	1.08	0.98	0.91	0.85	0.73	>10	NA
IPI00008237	11	1.07	1.21	0.93	0.90	0.87	0.86	>10	NA
IPI00375531	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00026260	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00216654	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00012069	7	0.97	1.54	1.05	1.02	0.93	0.86	>10	NA
IPI00219129	197	0.88	0.68	0.43	0.28	0.23	0.18	0.073	0.043
IPI00025076	18	1.00	1.00	0.95	0.85	0.87	0.74	>10	NA
IPI00107753	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00217223	5	1.10	1.44	1.08	0.88	0.87	0.79	>10	NA
IPI00014068	10	1.03	1.17	0.96	0.94	0.89	0.82	>10	NA
IPI00449049	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00553006	1	NA	1.69	NA	0.85	NA	0.68	>10	NA
IPI00016610	5	0.96	1.36	0.85	0.96	0.87	0.80	>10	NA
IPI00000690	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00306301	5	1.12	1.65	1.01	0.84	0.91	0.78	>10	NA
IPI00003925	3	0.92	1.02	0.82	0.97	0.93	0.79	>10	NA
IPI00298423	9	1.01	1.29	0.94	0.85	0.84	0.79	>10	NA
IPI00002538	11	1.07	1.02	1.03	0.90	0.93	0.77	>10	NA
IPI00018235	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00216691	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00169383	1	1.24	NA	1.60	NA	1.29	NA	>10	NA
IPI00017334	5	1.02	1.30	0.89	1.11	0.81	0.77	>10	NA
IPI00027252	7	1.18	1.20	1.08	0.85	0.86	0.80	>10	NA

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at						[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
						0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM				0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM				0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM		
IPI00011200	PHGDH		312	7	6	1.26	1.03	0.98	NA	NA	NA	NA	NA	>10	NA	5	1.15	1.00	0.82	1.23	NA	1.24	NA	0.80	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00005014	PIM1	PIM1	56	2	1	NA	NA	1.46	NA	1.41	NA	1.04	NA	>10	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00009688	PIP5K2A	PIP5K2A	46	7	1	1.11	1.08	1.03	0.95	1.06	0.83	0.78	0.56	>10	0.919	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	2.30	NA	0.70	NA	0.38	0.518	NA
IPI00216470	PIP5K2B	PIP5K2B	57	6	1	NA	NA	0.99	NA	1.53	NA	0.73	NA	>10	NA	1	NA	NA	0.84	NA	1.09	NA	0.68	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00152303	PIP5K2C	PIP5K2C	67	7	1	0.76	1.34	1.36	0.85	0.90	0.96	0.97	0.69	>10	NA	2	0.60	0.82	1.04	0.96	1.20	1.12	0.96	0.74	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00220644	PKM2		179	6	4	1.51	1.18	1.17	NA	NA	NA	NA	NA	>10	NA	5	1.00	0.98	0.85	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00384765	PKMYT1	MYT1	1054	68	40	1.02	0.95	1.10	1.10	1.08	0.79	0.58	0.36	1.289	0.536	34	1.08	1.03	0.98	1.03	0.93	0.95	0.58	0.42	1.384	0.703	22	1.00	1.20	0.94	0.90	0.91	0.74	>10	NA
IPI00412672	PKN1	PKN1	139	12	5	1.00	0.91	1.17	1.00	1.11	1.10	0.99	0.69	>10	NA	4	0.98	1.04	1.09	NA	1.05	NA	0.74	NA	>10	NA	3	1.08	0.89	1.07	0.99	0.96	0.72	>10	NA
IPI00413780	PKN3	PKN3	150	16	4	1.03	1.05	1.12	0.87	NA	0.86	NA	0.63	>10	NA	6	1.09	1.02	0.92	0.95	NA	1.13	NA	0.96	>10	NA	3	0.91	1.19	0.92	0.98	0.89	0.53	>10	1.298
IPI00410344	PLK4	PLK4	181	10	4	1.01	1.01	1.15	1.08	1.21	1.11	0.97	0.77	>10	NA	4	1.03	1.17	0.98	NA	1.06	NA	0.77	NA	>10	NA	3	0.93	1.28	1.04	1.16	0.92	0.63	>10	NA
IPI00216694	PLS3		48	5	1	NA	NA	1.13	NA	0.88	NA	0.80	NA	>10	NA	1	1.61	1.31	1.05	NA	NA	NA	NA	NA	>10	NA	1	1.03	0.78	1.05	0.73	0.89	0.61	>10	NA
IPI00455547	POTE2		143	10	1	0.78	1.05	0.68	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00480133	PPIA		343	16	6	1.70	1.23	1.12	1.20	1.36	0.96	0.89	0.76	>10	NA	10	1.21	0.97	1.09	1.39	1.13	1.64	0.72	0.79	>10	NA	8	0.97	0.99	1.15	0.75	0.78	0.79	>10	NA
IPI00008380	PPP2CA		216	7	1	1.07	1.18	1.00	0.80	0.64	0.36	0.38	0.48	0.177	0.042	3	1.16	1.29	1.24	NA	NA	NA	NA	NA	>10	NA	2	1.02	NA	1.17	NA	0.74	NA	>10	NA
IPI00419307	PPP2R1A		310	19	5	1.06	1.00	1.02	0.98	0.93	1.01	0.83	0.72	>10	NA	4	1.08	1.15	0.96	0.76	0.78	1.01	0.53	0.47	6.010	0.582	3	1.11	1.08	1.16	1.18	0.76	1.30	>10	NA
IPI00332511	PPP2R2A		132	8	3	1.12	1.27	1.23	NA	1.27	NA	1.03	NA	>10	NA	2	NA	NA	0.98	NA	0.81	NA	0.56	NA	>10	NA	3	1.14	1.10	1.07	0.85	0.99	0.84	>10	NA
IPI00184845	PPP2R2D		86	7	2	0.96	0.90	0.83	NA	NA	NA	NA	NA	>10	NA	1	0.75	0.75	0.59	NA	NA	NA	NA	NA	>10	NA	2	1.08	NA	1.18	NA	0.80	NA	>10	NA
IPI00000874	PRDX1		357	17	8	1.53	1.28	1.12	1.14	1.22	0.85	0.97	0.93	>10	NA	10	1.06	1.00	1.00	0.95	1.01	1.12	0.65	0.70	>10	NA	4	0.89	1.11	0.88	0.88	0.83	0.78	>10	NA
IPI00011937	PRDX4		103	6	3	0.71	1.32	1.07	NA	NA	NA	NA	NA	>10	NA	2	0.76	0.65	0.85	NA	0.83	NA	0.75	NA	>10	NA	1	NA	1.20	NA	0.98	NA	0.58	>10	NA
IPI00220301	PRDX6		252	10	6	1.35	1.19	1.12	1.02	1.25	0.85	0.96	0.74	>10	NA	5	1.14	0.91	0.87	1.15	0.89	1.15	0.67	1.11	>10	NA	5	0.96	1.48	1.04	0.82	0.80	0.79	>10	NA
IPI00410287	PRKAA1	AMPKa1	1943	213	132	1.02	1.01	1.08	1.02	1.11	0.93	0.83	0.59	>10	1.060	147	1.06	1.01	1.04	1.12	0.88	1.07	0.72	0.83	>10	NA	71	1.08	1.22	0.97	0.95	0.89	0.80	>10	NA
IPI00220409	PRKAB1		720	106	44	0.91	0.94	1.12	1.01	1.21	0.98	0.91	0.63	>10	NA	37	1.05	0.99	0.99	0.85	0.97	0.97	0.81	0.70	>10	NA	21	1.08	1.02	0.98	0.92	0.96	0.76	>10	NA
IPI00013905	PRKAB2		482	39	7	0.73	1.03	1.01	1.10	0.93	0.85	0.84	0.54	>10	2.235	10	1.00	0.94	1.01	0.91	1.12	0.86	0.83	0.86	>10	NA	5	1.11	0.78	0.96	0.76	0.93	0.78	>10	NA
IPI00413318	PRKAG1		1831	145	106	0.96	0.99	1.10	1.03	1.16	0.94	0.88	0.61	>10	NA	81	1.04	0.99	0.96	1.01	0.97	0.99	0.78	0.78	>10	NA	52	1.17	1.04	1.02	0.93	0.88	0.79	>10	NA
IPI00005367	PRKAG2		609	34	8	1.10	1.04	0.96	1.06	0.88	1.05	0.60	0.68	>10	NA	10	1.29	1.10	1.14	0.92	0.96	0.97	0.74	0.83	>10	NA	3	1.23	1.08	0.83	0.95	0.68	0.88	>10	NA
IPI00385449	PRKCA	PKCa	675	62	5	0.74	0.85	0.97	0.96	1.02	0.91	0.83	0.70	>10	NA	6	0.94	0.96	0.94	0.86	0.94	0.94	0.66	0.64	>10	NA	3	1.07	1.09	1.09	0.85	1.02	0.70	>10	NA
IPI00219628	PRKCB1	PKCb	1167	236	63	0.76	0.78	0.99	1.02	1.14	0.93	0.92	0.80	>10	NA	69	0.92	0.95	0.99	1.13	1.03	1.03	0.71	0.88	>10	NA	26	1.00	1.15	0.92	0.94	0.86	0.79	>10	NA
IPI00329236	PRKCD	PKCd	300	23	4	0.56	0.92	1.13	0.84	1.09	0.82	0.88	0.66	>10	0.009	5	0.86	0.77	0.80	0.99	0.92	0.87	0.62	0.72	>10	NA	4	1.38	0.97	0.83	1.23	0.79	0.69	>10	NA
IPI00329236	PRKCD	IPI00329236.	300	23	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	4	1.38	1.68	0.83	1.73	0.79	1.47	>10	NA
IPI00029196	PRKCQ	PKCt	486	43	12	0.87	0.95	0.98	1.04	1.13	0.92	0.84	0.49	7.913	1.565	15	0.93	0.89	1.01	0.95	0.95	1.01	0.76	0.68	>10	NA	10	1.07	1.14	1.15	0.93	0.93	0.84	>10	NA
IPI00009334	PRKD2	PKD2	283	21	4	0.98	0.93	1.10	1.20	1.20	1.01	0.90	0.68	>10	NA	3	1.17	1.25	1.19	1.38	1.17	1.09	0.94	0.59	>10	1.738	4	1.19	0.90	0.98	0.74	0.77	0.76	>10	NA
IPI00296337	PRKDC	DNAPK	5464	182	142	1.06	1.02	1.03	0.98	1.02	0.84	0.78	0.64	>10	NA	133	1.07	1.03	0.99	0.96	0.99	0.94	0.70	0.83	>10	NA	32	1.03	1.32	0.92	0.97	0.84	0.77	>10	NA
IPI00375380	PSMD13		77	2	1	1.69	1.18	0.97	NA	NA	NA	NA	NA	>10	NA	1	1.36	1.24	0.25	NA	NA	NA	NA	NA	0.003	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00384051	PSME2		62	6	2	NA	NA	1.07	1.24	0.88	1.35	0.74	0.95	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00170554	PSTPIP2		201	14	5	1.01	0.96	1.14	1.40	1.13	0.95	0.70	0.40	2.309	0.776	5	0.90	0.94	0.80	NA	0.72	NA	0.37	NA	0.408	0.310	6	1.00	1.27	0.91	0.96	0.90	0.75	>10	NA
IPI00183626	PTBP1		242	5	3	1.58	1.25	1.07	NA	NA	NA	NA	NA	>10	NA	3	1.19	0.97	0.78	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00413961	PTK2	FAK	3025	346	147	1.00	0.98	1.06	0.98	1.10	0.90	0.74	0.42	3.187	1.079	141	1.07	0.99	0.99	1.02	0.91	1.05	0.76	0.75	>10	NA	101	1.04	1.11	1.00	0.89	0.86	0.73	>10	NA
IPI00029702	PTK2B	PYK2	2672	234	108	0.96	0.95	1.02	0.97	1.02	0.89	0.75	0.45	4.500	1.216	95	1.02	0.92	0.96	0.94	0.94	0.96	0.72	0.73	>10	NA	72	1.03	1.13	0.98	0.93	0.85	0.77	>10	NA
IPI00015550	PTMA		118	6	1	NA	NA	NA	1.04	NA	0.62	NA	0.43	0.670	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00643041	RAN		101	4	2	1.38	1.13	1.03	NA	NA	NA	NA	NA	>10	NA	3	1.16	0.99	0.80	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00329200	RANBP5		175	7	3	0.94	0.75	0.86	0.73	1.00	0.72	0.78	0.45	>10	1.378	2	1.27	1.03	0.76	1.03	0.83	1.50	0.34	0.70	>10	0.616	1	0.82	0.95	1.17	0.76	0.68	0.72	>10	NA
IPI00465044	RCC2		211	10	8	0.83	0.88	1.12	1.26	1.50	1.07	1.05	1.03	>10	NA	6	0.94	1.03	1.02	0.98	1.24	1.28	0.76	0.80	>10	NA	3	0.83	NA	0.94	NA	0.86	NA	>10	NA
IPI00607634	RGPD1		131	12	2	0.99	1.01	0.98	NA	NA	NA	NA	NA	>10	NA	2	0.92	0.88	0.92	1.24	NA	1.05	NA	0.82	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00021917	RIPK2	RIPK2	1711	157	109	0.97	1.02	1.04	1.05	1.10	0.99	0.86	0.71	>10	NA	125	1.09	1.03	1.00	0.85	0.65	0.54	0.36	0.33	0.322	0.092	67	1.12	1.36	1.00	0.98	0.91	0.79	>10	NA
IPI00397801	RP1-14N1 3		99	1	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	1.63	NA	0.26	NA	0.22	NA	0.055	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00387164	RPS27A		232	18	9	1.10	1.07	0.96	0.96	NA	0.85	NA	0.47	8.474	0.968	5	0.83	0.71	0.92	1.02	0.86	0.84	0.67	0.57	>10	0.548	4	0.81	0.96	1.08	0.73	0.86	0.69	>10	NA
IPI00477982	RPS6KA1	RSK3	1925	178	69	0.98	0.99	1.03	1.00	1.04	0.89	0.85	0.72	>10	NA	56	1.05	0.98	0.97	0.93	0.87	0.98	0.67	0.79	>10	NA	31	1.02	1.12	0.87	0.96	0.83	0.79	>10	NA
IPI00300321	RPS6KA2	RSK1	488	42	1	0.68	0.95	0.96	NA	0.91	NA	0.80	NA	>10	NA	2	1.17	0.97	1.23	NA	0.94	NA	0.50	NA	>10	0.132	2	0.87	1.05	0.94	1.16	0.73	1.02	>10	NA
IPI00020898	RPS6KA3	RSK2	1066	85	8	0.92	0.99	1.10	0.94	1.25	0.96	0.96	0.44	5.583	2.386	11	1.02	0.97	0.96	1.09	0.92	0.94	0.69	0.75	>10	NA	7	1.10	1.31	0.98	1.04	0.80	0.77	>10	NA
IPI00328396	S100A7		48	25	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	9.18	NA	NA	NA	0.22	1.969	NA
IPI00185526	SAMSN1		41	2	1	NA	NA	1.10	NA	1.16	NA	0.95	NA	>10	NA	1	NA	NA	NA	0.74	NA	0.82	NA	0.61	>10	NA	1	1.12	NA	1.14	NA	0.72	NA	>10	NA
IPI00373937	SBSN		66	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.15	0.96	1.43	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00305166	SDHA		42	4	1	NA	NA	0.47	NA	1.32	NA	0.36	NA	0.496	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	0.93	NA	0.86	NA	0.66	>10	NA
IPI00375370	SEC13L1		194	6	4	1.13	1.27	1.02	1.08	1.12	1.01	0.95	0.62	>10	NA	5	0.96	0.88	1.86	0.77	1.29	1.00	1.38	0.73	>10	NA	2	0.97	1.06	1.00	0.84	0.95	0.64	>10	NA
IPI00218466	SEC61A1		322	11	8	1.00	0.98	0.91	0.89	NA	0.82	NA	0.70	>10	NA	7	0.97	0.77	0.83	0.66	0.85	0.97	0.71	0.61	>10	NA	1	NA	1.50	NA	0.79	NA	0.66	>10	NA
IPI00410693	SERBP1		108	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	0.83	0.80	0.80	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00027444	SERPINB1		99	6	1	NA	NA	NA	1.19	NA	0.67	NA	0.62	>10	NA	2	0.78	0.77	0.85	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00022204	SERPINB3		163	11	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00032134	SERPINB8		52	10	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	1.19	NA	0.65	NA	0.50	NA	>10	NA	1	1.27	NA	2.03	NA	1.34	NA	>10	NA
IPI00019880	SERPINH1		138	6	2	1.07	1.02	0.93	NA	0.84	NA	0.73	NA	>10	NA	2	0.80	0.64	0.83	NA	0.79	NA	0.79	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00072377	SET		219	7	4	1.53	1.09	1.18	NA	NA	NA	NA	NA	>10	NA	4	0.60	0.81	0.75	NA	0.90	NA	0.46	NA	>10	0.063	2	0.83	1.44	0.60	0.84	0.57	0.80	>10	0.060
IPI00010740	SFPQ		215	17	4	0.90	0.89	0.85	0.91	NA	0.90	NA	0.57	>10	2.945	4	0.58	0.57	0.62	0.85	NA	1.01	NA	0.82	>10	0.019	6	1.04	0.92	0.78	0.86	0.79	0.66	>10	NA
IPI00010204	SFRS3		118	4	2	0.87	0.72	0.70	NA	NA	NA	NA	NA	>10	NA	3	1.02	0.83	0.46	NA	NA	NA	NA	NA	0.003	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00021326	SHC1		392	29	6	1.02	1.04	1.02	0.81	0.59	0.45	0.38	0.55	0.185	0.045	8	0.87	0.91	0.76	0.43	0.61	0.30	0.25	0.12	0.077	0.078	6	1.09	1.09	0.85	0.77	0.56	0.54	>10	0.154
IPI00069750	SIAHBP1		59	1	1	0.95	1.07	0.96	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00094233	SIMILAR TO		66	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00066346	SIMILAR TO		61	12	2	NA	NA	1.02	NA	1.09	NA	0.73	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00234463	SIMILAR TO		721	54	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	11	0.91	0.85	0.69	1.10	0.77	1.08	0.55	0.88	>10	1.696	2	1.13	NA	0.68	NA	1.06	NA	>10	NA
IPI00174920	SIMILAR TO		99	10	1	1.88	1.75	1.91	NA	1.00	NA	0.60	NA	>10	NA	1	NA	NA	1.59	NA	1.27	NA	0.99	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00398985	SIMILAR TO FATTY		58	4	2	1.41	5.45	0.62	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00106485	SIMILAR TO		47	3	1	NA	NA	0.73	NA	1.04	NA	0.73	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00020557	SIMILAR TO		49	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.16	NA	0.94	NA	0.85	NA	>10	NA
IPI00022202	SLC25A3		426	23	11	1.02	1.08	1.25	0.90	1.07	0.80	0.80	0.68	>10	NA	10	1.02	0.89	0.82	0.87	0.92	0.92	0.62	0.83	>10	NA	8	0.92	1.02	0.95	0.93	0.89	0.78	>10	NA
IPI00007188	SLC25A5		493	17	11	0.95	0.94	1.22	1.07	1.19	0.92	0.82	0.69	>10	NA	12	1.04	0.88	0.83	0.99	0.97	0.98	0.67	0.72	>10	NA	6	0.97	1.37	0.91	0.92	0.83	0.85	>10	NA
IPI00554481	SLC3A2		56	2	1	1.60	1.22	1.52	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00008986	SLC7A5		368	10	8	1.12	1.30	0.87	1.10	NA	0.81	NA	0.77	>10	NA	7	0.96	0.95	0.79	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00022827	SLK	SLK	399	31	12	0.94	0.91	0.96	0.88	0.73	0.47	0.41	0.15	0.383	0.301	9	1.11	0.90	0.93	0.90	0.73	0.91	0.96	0.93	>10	NA	5	0.82	0.99	0.77	0.84	0.61	0.66	>10	NA
IPI00023011	SMR3B		80	19	6	0.85	0.50	0.86	NA	3.19	NA	0.44	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00465291	SNF1LK2	QIK	734	62	21	0.96	0.97	0.96	0.83	0.78	0.42	0.35	0.24	0.281	0.175	18	1.00	0.94	0.90	0.73	0.60	0.34	0.34	0.22	0.152	0.082	19	1.09	1.06	0.95	0.96	0.88	0.82	>10	NA
IPI00017469	SPR		265	13	5	0.97	0.93	1.38	0.95	1.20	1.00	1.01	0.69	>10	NA	6	1.38	1.69	1.03	0.93	0.98	0.96	0.72	0.81	>10	NA	5	1.03	1.36	0.99	0.91	0.81	0.71	>10	NA
IPI00328867	SRC	SRC	1621	162	52	0.86	0.95	0.97	0.75	0.80	0.45	0.42	0.19	0.400	0.299	49	1.00	0.95	0.84	0.63	0.41	0.28	0.25	0.20	0.062	0.039	37	1.13	1.02	1.00	0.90	0.90	0.74	>10	NA
IPI00009032	SSB		71	5	2	0.92	1.09	1.20	NA	NA	NA	NA	NA	>10	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00013894	STIP1		46	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	0.69	0.68	0.74	NA	NA	NA	NA	NA	0.000	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00306833	STK16	MPSK1	168	9	4	0.91	0.99	1.07	1.02	1.17	0.94	0.90	0.80	>10	NA	5	1.00	0.98	0.96	0.67	0.97	0.75	0.65	0.63	>10	NA	2	1.01	0.73	1.23	1.02	0.90	0.74	>10	NA
IPI00477195	STOML2		71	5	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	0.81	0.72	0.56	1.13	NA	1.18	NA	0.74	>10	0.018	1	0.98	1.76	0.93	1.28	1.07	0.88	>10	NA
IPI00154910	STS-1		1348	180	44	1.01	0.95	1.05	0.78	0.69	0.49	0.36	0.20	0.303	0.166	40	0.89	0.85	0.86	0.61	0.47	0.34	0.22	0.19	0.086	0.052	41	0.98	1.10	0.82	0.75	0.62	0.46	4.129	0.313
IPI00221222	SUB1		250	9	7	0.91	0.81	0.97	1.00	1.22	1.21	1.14	0.68	>10	NA	6	0.82	0.76	0.93	1.24	0.66	1.28	0.55	1.01	>10	NA	2	1.31	1.24	1.20	1.41	0.97	0.99	>10	NA
IPI00455831	SUB1P1		53	4	1	NA	NA	1.07	NA	0.79	NA	0.97	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	0.87	NA	0.75	NA	0.87	NA	>10	NA
IPI00005737	SURF4		237	6	5	0.85	0.84	1.15	NA	1.00	NA	0.62	NA	>10	NA	6	1.01	0.66	1.06	0.87	0.52	1.05	0.47	0.63	>10	0.511	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00018597	SYK	SYK	1163	90	30	0.96	1.02	1.05	1.01	1.02	0.78	0.65	0.38	2.125	0.745	33	1.02	0.99	0.97	0.92	0.76	0.70	0.49	0.42	1.417	0.223	22	1.05	1.18	1.02	0.87	0.85	0.72	>10	NA
IPI00299166	TANK		959	58	25	1.11	1.03	1.11	0.99	1.05	0.98	0.78	0.47	5.336	1.144	25	0.89	0.85	0.91	1.02	0.91	1.03	0.76	0.84	>10	NA	20	0.98	1.32	0.90	0.91	0.76	0.80	>10	NA
IPI00002232	TAOK1	TAO1	198	15	1	1.05	0.82	1.02	0.93	1.21	0.80	0.94	0.58	>10	2.629	1	1.38	1.15	1.45	NA	1.04	NA	1.09	NA	>10	NA	1	1.37	NA	0.91	NA	0.96	NA	>10	NA
IPI00465168	TAOK2	TAO2	224	18	2	1.09	1.15	1.26	1.07	1.24	0.80	1.11	0.70	>10	NA	5	0.89	0.88	0.76	1.18	NA	1.06	NA	0.85	>10	NA	3	0.98	1.29	0.78	0.72	0.72	0.68	>10	NA
IPI00410485	TAOK3	TAO3	221	18	6	1.01	1.04	1.09	1.04	1.30	1.28	0.96	0.83	>10	NA	4	NA	NA	1.18	1.11	1.41	1.41	0.76	0.46	1.448	1.031	7	1.39	1.26	1.16	0.92	0.86	0.87	>10	NA
IPI00293613	TBK1	TBK1	3346	334	213	0.93	0.93	1.02	0.99	1.00	0.94	0.76	0.41	2.629	1.259	189	1.02	0.96	0.98	1.01	0.96	1.01	0.74	0.80	>10	NA	133	1.06	1.06	0.95	0.89	0.86	0.70	>10	NA
IPI00006064	TBKBP1		931	74	23	0.89	0.96	1.16	0.91	1.04	0.85	0.68	0.41	2.628	0.878	18	0.79	0.81	0.90	0.83	0.97	0.83	0.71	0.65	>10	NA	17	0.99	1.41	1.03	0.97	0.85	0.79	>10	NA

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at						[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
						0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM				0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM				0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	10 uM		
IPI00000878	TEC	TEC	2469	213	126	0.99	0.98	1.00	0.95	0.98	0.80	0.63	0.46	2.964	0.567	103	1.06	0.98	0.96	0.69	0.52	0.38	0.24	0.21	0.115	0.060	88	1.01	1.07	0.93	0.87	0.80	0.70	>10	NA
IPI00102677	TESK2	TESK2	309	21	6	0.99	1.03	1.01	1.08	1.06	1.03	0.73	0.90	>10	NA	5	0.93	0.92	0.98	0.88	0.80	0.65	0.38	0.30	0.582	0.348	7	0.95	1.25	0.94	0.84	0.92	0.73	>10	NA
IPI00294619	TFG		405	18	2	1.07	0.98	0.87	NA	NA	NA	NA	NA	>10	NA	2	0.86	0.81	0.75	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00005733	TGFBR1	TGFbR1	522	26	13	0.96	1.00	1.01	0.93	1.07	0.92	0.91	0.67	>10	NA	13	0.96	0.98	0.91	1.06	0.93	0.92	0.71	0.69	>10	NA	7	1.04	1.13	0.96	0.92	0.94	0.73	>10	NA
IPI00164934	TGFBR2	TGFbR2	87	4	3	0.96	0.98	0.88	NA	NA	NA	NA	NA	>10	NA	2	0.87	0.68	0.90	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00328840	THOC4		101	12	1	0.80	0.83	0.72	NA	NA	NA	NA	NA	>10	NA	2	0.77	0.85	0.81	NA	0.79	NA	0.67	NA	>10	NA	1	1.50	1.78	1.07	1.14	1.14	0.75	>10	NA
IPI00021716	TKT		119	5	1	1.20	0.91	1.27	NA	NA	NA	NA	NA	>10	NA	1	0.92	0.60	0.93	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00145805	TNIK	ZC2_TNIK	243	22	4	0.92	0.93	0.89	0.74	NA	0.48	NA	0.25	0.268	0.144	7	1.01	0.96	1.02	0.91	1.02	0.57	0.62	0.38	>10	0.250	2	0.99	1.36	1.01	1.05	0.81	0.70	>10	NA
IPI00022633	TNK1	TNK1	713	49	19	1.13	1.06	1.05	1.00	1.04	0.91	0.82	0.76	>10	NA	23	1.06	1.07	0.96	0.84	0.91	0.84	0.69	0.66	>10	NA	13	1.04	1.17	1.04	0.96	0.81	0.78	>10	NA
IPI00442025	TNK2	ACK	530	29	15	1.08	1.14	1.05	1.02	0.99	0.65	0.51	0.32	0.863	0.316	18	1.22	1.16	0.98	0.87	0.76	0.58	0.39	0.35	0.475	0.172	12	1.01	1.16	0.95	1.01	0.82	0.76	>10	NA
IPI00465028	TPI1		131	4	1	1.38	1.29	1.11	0.97	NA	0.60	NA	0.43	0.569	0.211	2	0.81	0.58	1.06	NA	1.15	NA	0.91	NA	>10	0.004	1	0.81	NA	1.08	NA	0.92	NA	>10	NA
IPI00292635	TRAF2		397	26	11	0.90	0.84	1.18	1.04	1.09	0.97	0.79	0.45	3.000	1.190	14	0.92	0.87	1.00	0.86	1.02	1.01	0.69	0.72	>10	NA	7	1.00	1.99	0.96	0.87	0.74	0.79	>10	NA
IPI00395631	TRAF7		99	5	1	NA	NA	0.97	0.89	1.17	1.00	0.63	1.04	>10	NA	1	NA	NA	0.95	1.22	1.09	1.01	0.65	0.94	>10	NA	1	NA	1.60	NA	0.92	NA	0.84	>10	NA
IPI00432462	TRIM59		346	27	6	1.37	1.17	1.15	0.80	1.52	1.06	1.05	0.72	>10	NA	6	1.11	0.94	1.02	NA	1.39	NA	0.86	NA	>10	NA	3	1.00	0.98	1.28	0.93	0.99	0.84	>10	NA
IPI00179709	TUBA2		1060	38	1	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	0.77	NA	0.66	NA	0.81	NA	>10	NA
IPI00387144	TUBA6		1481	231	58	1.08	1.04	1.13	1.07	1.12	0.95	0.84	0.70	>10	NA	73	1.06	0.92	1.02	0.84	1.04	0.92	0.67	0.67	>10	NA	38	1.06	1.09	1.00	0.88	0.83	0.75	>10	NA
IPI00011654	TUBB		1668	116	31	0.90	0.97	1.21	1.10	1.18	0.95	0.96	0.75	>10	NA	25	1.05	1.06	1.01	1.12	0.97	1.24	0.70	0.89	>10	NA	12	1.07	1.15	0.90	0.89	0.77	0.70	>10	NA
IPI00013475	TUBB2A		1016	78	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.11	1.09	0.97	NA	NA	NA	NA	NA	>10	NA	1	1.17	NA	0.80	NA	0.64	NA	>10	NA
IPI00655896	TUBB4		1488	102	15	1.07	1.08	1.12	1.09	0.90	0.99	0.75	0.68	>10	NA	12	0.87	0.77	0.93	0.78	1.03	0.77	0.67	0.51	>10	1.043	9	0.94	1.29	0.94	1.09	0.74	0.85	>10	NA
IPI00027107	TUFM		131	5	3	0.95	1.00	1.05	NA	NA	NA	NA	NA	>10	NA	3	0.74	0.77	0.73	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00470779	TXLNA		107	8	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	0.78	0.73	0.69	NA	NA	NA	NA	NA	>10	NA	1	1.55	NA	1.09	NA	0.99	NA	>10	NA
IPI00216298	TXN		61	6	2	NA	NA	1.27	1.11	1.32	0.87	1.51	1.12	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00395887	TXNDC		124	8	2	0.89	0.95	1.45	0.99	1.40	0.85	0.91	0.76	>10	NA	4	NA	NA	0.88	0.87	0.95	0.95	0.66	0.72	>10	NA	2	1.08	1.46	0.98	0.99	0.76	0.75	>10	NA
IPI00022353	TYK2	TYK2	1787	118	62	0.96	0.95	1.00	1.00	1.00	0.90	0.80	0.70	>10	NA	63	1.08	1.02	0.99	0.90	0.88	0.90	0.64	0.50	>10	0.835	38	1.07	1.18	0.99	0.95	0.86	0.79	>10	NA
IPI00328348	UBA52		159	11	3	NA	NA	0.98	NA	0.77	NA	0.47	NA	0.336	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	2	0.96	NA	0.94	NA	0.78	NA	>10	NA
IPI00411818	ULK3	ULK3	933	45	24	0.96	1.00	1.77	1.10	1.09	1.09	0.72	0.58	>10	0.842	33	0.98	0.94	1.74	0.82	1.09	0.95	0.93	0.68	>10	NA	14	1.07	1.05	1.08	0.92	0.95	0.75	>10	NA
IPI00640597	VARSL		100	4	1	1.34	1.63	1.36	NA	NA	NA	NA	NA	>10	NA	1	1.67	0.94	0.50	NA	NA	NA	NA	NA	>10	NA	1	NA	0.87	NA	0.69	NA	0.64	>10	NA
IPI00478540	VCP		105	3	2	0.88	0.96	1.41	NA	1.43	NA	1.05	NA	>10	NA	1	0.96	0.92	0.72	NA	NA	NA	NA	NA	>10	NA	1	0.87	3.05	0.77	1.06	0.94	0.61	>10	NA
IPI00418471	VIM		154	8	4	0.84	0.76	0.88	NA	NA	NA	NA	NA	>10	NA	2	0.79	0.61	0.98	NA	0.96	NA	0.98	NA	>10	NA	2	0.43	1.29	0.52	1.07	0.49	0.49	>10	0.013
IPI00006754	WDR68		222	7	3	0.84	0.74	1.60	NA	1.63	NA	0.98	NA	>10	NA	2	0.93	0.98	1.13	0.81	1.25	1.35	0.92	0.72	>10	NA	1	0.98	NA	0.80	NA	0.82	NA	>10	NA
IPI00025830	WEE1	Wee1	1415	100	56	0.93	0.99	1.02	1.06	1.08	0.90	0.74	0.44	3.471	1.027	64	1.00	1.00	0.95	0.97	0.87	0.94	0.63	0.53	>10	0.727	33	1.06	1.26	1.04	0.95	0.84	0.76	>10	NA
IPI00298961	XPO1		476	22	11	1.04	0.91	1.02	NA	NA	NA	NA	NA	>10	NA	15	1.08	0.99	0.93	NA	NA	NA	NA	NA	>10	NA	1	NA	1.76	NA	0.71	NA	1.03	>10	NA
IPI00640703	XPO5		275	12	5	1.11	1.05	1.91	NA	1.27	NA	0.90	NA	>10	NA	4	1.25	1.21	1.00	1.18	1.00	1.29	0.38	0.67	>10	0.594	1	NA	0.69	NA	0.96	NA	0.74	>10	NA
IPI00302458	XPO7		165	6	5	1.11	1.04	0.84	NA	NA	NA	NA	NA	>10	NA	2	1.06	0.90	1.00	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00306290	XPOT		198	6	3	0.82	0.74	0.90	0.72	NA	0.94	NA	1.06	>10	NA	5	0.86	0.74	0.78	1.25	NA	1.17	NA	0.64	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00013981	YES1	YES	1803	218	74	0.90	0.94	0.97	0.81	0.85	0.59	0.49	0.29	0.784	0.404	73	0.90	0.89	0.82	0.67	0.51	0.35	0.22	0.18	0.105	0.087	50	1.07	1.45	0.98	0.90	0.87	0.75	>10	NA
IPI00216318	YWHAB		422	22	4	0.76	0.87	1.14	0.74	NA	0.80	NA	0.27	1.447	0.774	1	0.91	1.50	0.96	NA	0.96	NA	0.38	NA	0.268	0.153	1	0.82	NA	1.04	NA	0.80	NA	>10	NA
IPI00000816	YWHAE		646	41	17	0.93	0.94	1.11	0.72	0.73	0.44	0.45	0.31	0.286	0.109	17	0.87	0.73	0.79	0.65	0.53	0.61	0.36	0.37	0.435	0.152	16	1.03	1.09	0.88	0.77	0.61	0.47	4.174	0.299
IPI00220642	YWHAG		895	36	25	0.95	1.00	0.95	0.82	0.69	0.51	0.39	0.33	0.341	0.120	25	0.89	0.85	0.81	0.68	0.59	0.52	0.36	0.29	0.319	0.182	9	0.98	1.06	0.82	0.66	0.56	0.43	1.519	0.218
IPI00216319	YWHAH		498	30	7	1.17	1.12	0.92	0.80	0.83	0.54	0.41	0.20	0.467	0.293	6	0.92	0.98	0.83	0.50	0.41	0.29	0.25	0.16	0.046	0.029	3	0.94	0.95	0.77	0.54	0.56	0.33	0.890	0.207
IPI00018146	YWHAQ		399	25	5	0.89	0.77	1.08	0.64	0.84	0.53	0.45	0.14	0.617	1.238	3	1.06	0.62	0.62	0.71	0.69	0.69	0.36	0.35	0.697	0.130	2	1.14	1.10	0.89	0.69	0.62	0.50	>10	0.231
IPI00180776	YWHAZ		733	41	18	1.00	1.07	1.05	0.88	0.77	0.58	0.49	0.37	0.672	0.144	15	0.82	0.78	0.83	0.63	0.60	0.57	0.42	0.32	0.538	0.501	11	1.15	1.17	0.95	0.73	0.67	0.46	3.932	0.463
IPI00329638	ZAK	ZAK	948	149	42	0.92	0.93	1.12	1.00	1.05	0.84	0.55	0.36	1.164	0.610	36	1.07	1.03	1.00	0.81	0.82	0.60	0.38	0.25	0.556	0.271	28	1.03	1.05	0.97	0.89	0.84	0.71	>10	NA
Additional kinases with confidence >90%																																		
IPI00064797	MARK4	MARK4	197	12	1	NA	NA	NA	1.02	NA	1.18	NA	0.59	>10	NA	1	0.97	1.52	1.17	1.03	NA	1.07	NA	0.61	>10	NA	2	NA	0.94	NA	1.15	NA	0.69	>10	NA
IPI00556369	BOLA2	SMG1	64	8	2	NA	NA	0.94	0.92	1.02	0.76	0.77	0.56	>10	0.836	1	1.04	0.85	1.08	0.67	0.90	0.86	1.07	0.64	>10	NA	1	NA	1.02	NA	1.06	NA	0.75	>10	NA
IPI00003431	MAPK6	Erk3	165	44	1	NA	NA	NA	0.87	NA	0.89	NA	0.66	>10	NA	1	NA	NA	1.16	0.73	0.92	0.67	0.83	0.70	>10	NA	1	1.09	0.79	0.78	0.90	1.17	0.80	>10	NA
IPI00029045	IKBKE	IKKe	131	10	1	1.36	1.42	1.69	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00004472	WNK1	Wnk1	60	10	1	NA	NA	0.68	NA	0.88	NA	0.29	NA	0.599	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	NA	1.23	NA	1.19	NA	1.01	>10	NA
IPI00004409	DDR2	DDR2	47	6	1	NA	NA	0.96	NA	1.02	NA	0.51	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00014266	BRD3	BRD3	38	4	1	NA	NA	1.18	NA	1.19	NA	0.69	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00250316	CDC2L6	CDK11	31	5	1	NA	NA	NA	1.37	NA	1.30	NA	0.49	4.635	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	>10	NA
IPI00003479	PIK3C2A	PIK3C2a	31	8	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>10	NA	1	1.32	NA	0.78	NA	0.73	NA	>10	NA

Bantscheff *et al* ., **Supplementary Table 5** online
Kinobeads competition data calculated from iTRAQ reporter signals for compounds added to K562 cells in culture
(data for **Supplementary Fig. 5**)

Abbreviations: SSM; number of spectrum-to-sequence matches, NA; not available.

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00012197	XTP3TPA		421	16	11	1.113	1.171	1.148	0.912	0.908	0.877	0.752	0.727	>5	NA	6	0.767	0.884	0.969	0.697	1.213	1.162	0.755	0.608	>5	NA	5	0.948	1.095	1.134	1.076	0.768	0.911	>5	NA
IPI00642069	32 KDA PROTEIN.		45	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	0.885	NA	0.526	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00472946	62 KDA PROTEIN.		88	4	2	1.058	1.038	1.139	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	1.073	NA	0.467	2.598	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00298977	AAK1	AAK1	1299	111	35	0.959	0.945	0.906	0.829	0.812	0.675	0.487	0.397	1.193	0.411	42	0.815	0.982	0.883	0.842	1.052	0.976	0.903	0.684	>5	NA	26	1.247	1.142	1.322	1.249	0.857	0.992	>5	NA
IPI00063827	ABHD14B		60	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.009	1.031	1.412	0.851	0.566	0.572	>5	0.364	1	0.952	1.637	1.347	1.903	0.794	0.768	>5	NA
IPI00329488	ABL2	ARG	2193	523	64	0.955	0.919	0.466	0.283	0.281	0.239	0.181	0.149	0.009	0.006	51	0.997	0.747	0.299	0.094	0.219	0.162	0.150	0.094	0.003	0.002	49	0.972	0.834	0.906	0.635	0.468	0.330	0.741	0.393
IPI00020226	ACOX3		1036	64	30	0.952	0.944	0.992	0.841	0.914	0.806	0.814	0.673	>5	NA	32	0.947	1.032	0.981	0.934	1.206	1.132	0.797	0.705	>5	NA	24	1.108	0.883	1.120	1.049	0.840	0.715	>5	NA
IPI00021439	ACTG1		994	98	39	1.034	1.079	0.993	0.672	0.792	0.650	0.505	0.478	2.383	0.065	40	1.277	1.422	1.143	1.350	0.982	1.072	0.636	0.520	>5	0.833	32	1.135	1.145	1.189	1.094	0.798	0.884	>5	NA
IPI00013808	ACTN4		99	13	2	NA	NA	1.030	0.866	0.857	0.908	0.729	0.744	>5	NA	2	NA	NA	1.122	1.789	1.099	1.600	0.783	1.108	>5	NA	1	1.096	NA	1.008	NA	1.184	NA	>5	NA
IPI00029219	ACVR1	ALK2	432	28	13	1.344	1.125	1.056	0.873	0.854	0.761	0.658	0.616	>5	NA	14	0.826	0.998	1.007	0.749	1.038	0.851	0.776	0.563	>5	1.395	12	1.103	1.006	1.104	1.021	0.737	0.895	>5	NA
IPI00005732	ACVR1B	ALK4	190	15	1	0.877	0.982	1.030	0.098	NA	0.223	NA	0.121	0.019	0.018	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00015691	ACVR2A	ACTR2	231	9	1	1.338	1.101	1.183	NA	NA	NA	NA	NA	>5	NA	2	0.808	1.215	1.288	0.996	NA	0.553	NA	0.540	>5	0.050	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00437565	ACVR2B	ACTR2B	289	16	5	1.233	0.982	0.941	0.783	0.814	0.671	0.527	0.496	3.407	0.153	5	0.789	0.979	0.902	0.908	1.008	0.799	0.580	0.395	1.403	0.732	5	1.253	0.860	1.194	0.988	0.869	0.697	>5	NA
IPI00007709	ADAM28		57	3	1	1.076	0.917	0.939	0.815	0.928	0.802	0.665	0.707	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00412099	ADCK1	ADCK1	110	10	1	NA	NA	1.239	NA	1.297	NA	0.556	NA	>5	NA	2	NA	NA	0.858	NA	1.063	NA	0.912	NA	>5	NA	2	1.055	1.026	1.087	1.114	0.768	0.985	>5	NA
IPI00290279	ADK		1231	113	60	0.802	0.897	0.868	0.788	0.793	0.800	0.587	0.545	>5	0.687	32	0.973	0.959	0.957	1.053	1.010	0.916	0.700	0.441	2.479	0.977	28	0.955	1.000	1.023	0.979	0.876	0.857	>5	NA
IPI00004344	AFF4		215	24	3	0.915	1.000	0.859	0.874	0.793	0.746	0.561	0.490	3.624	0.470	1	1.004	1.175	1.100	NA	1.069	NA	0.842	NA	>5	NA	2	0.874	0.832	1.142	1.513	0.800	0.881	>5	NA
IPI00646823	AHCY		52	5	1	NA	NA	1.095	NA	0.907	NA	0.813	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00215901	AK2		75	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	0.938	NA	0.814	NA	0.438	NA	0.308	NA	1	NA	1.242	NA	1.250	NA	1.307	>5	NA
IPI00216805	ALDH1A2		74	5	1	0.902	0.977	0.851	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00026663	ALDH1A3		55	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.701	NA	0.868	NA	0.764	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00103467	ALDH1B1		30	5	1	1.180	1.063	1.141	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00465439	ALDOA		280	17	7	NA	NA	0.782	1.003	0.939	1.047	0.656	0.705	>5	NA	6	NA	NA	1.088	1.077	0.998	1.140	0.752	0.666	>5	NA	6	1.281	0.968	0.991	0.842	0.900	0.833	>5	NA
IPI00005731	ALK3	BMPR1A	216	10	3	1.220	1.135	0.892	0.864	1.025	0.835	0.671	0.702	>5	NA	5	0.866	0.979	0.989	NA	1.119	1.005	0.783	0.658	>5	NA	4	1.050	1.008	1.311	1.415	0.863	1.065	>5	NA
IPI00008247	ANAPC5		42	3	1	0.770	0.913	0.612	NA	0.363	NA	0.331	NA	0.037	0.012	1	NA	NA	NA	0.609	NA	0.890	NA	1.290	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00008248	ANAPC7		77	5	1	NA	NA	0.773	0.774	1.337	0.555	0.457	0.438	0.367	0.280	1	NA	NA	0.325	NA	1.089	NA	0.332	NA	>5	NA	1	NA	0.604	NA	1.068	NA	0.758	>5	NA
IPI00025849	ANP32A		87	6	1	NA	NA	1.100	0.936	0.632	1.783	0.609	0.694	>5	NA	3	NA	NA	1.686	0.910	1.295	1.235	0.978	1.214	>5	NA	1	1.394	NA	1.185	NA	2.842	NA	>5	NA
IPI00007423	ANP32B		82	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.593	NA	0.675	NA	1.045	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00218918	ANXA1		56	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.277	1.267	1.435	NA	1.631	1.105	1.091	0.404	3.085	2.606	1	1.221	NA	1.497	NA	0.975	NA	>5	NA
IPI00418169	ANXA2		91	7	2	NA	NA	NA	0.615	NA	0.800	NA	0.463	3.055	NA	1	NA	NA	0.907	NA	1.105	1.250	0.919	1.035	>5	NA	2	0.770	1.092	1.248	1.220	0.596	0.859	>5	0.574
IPI00304577	AP2A1		501	31	8	1.036	0.852	0.571	0.622	0.511	0.520	0.329	0.326	0.095	0.013	8	0.940	0.731	0.532	0.421	0.592	0.489	0.418	0.323	0.025	0.001	10	1.288	0.908	0.894	0.720	0.566	0.481	2.737	0.292
IPI00016621	AP2A2		276	11	2	1.144	1.125	0.677	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00220991	AP2B1		295	29	8	1.039	0.957	0.561	0.561	0.409	0.503	0.263	0.311	0.042	0.005	6	0.860	0.746	0.580	0.630	0.463	0.510	0.378	0.333	0.123	0.023	9	1.221	0.918	1.010	0.691	0.615	0.499	>5	0.269
IPI00022256	AP2M1		160	16	4	1.379	0.967	0.732	0.472	0.649	0.408	NA	0.278	0.077	0.019	3	1.723	0.868	0.710	NA	0.627	0.509	0.412	0.448	0.215	0.012	5	1.207	NA	1.112	NA	0.698	NA	>5	NA
IPI00219840	AP2S1		53	5	2	1.052	1.132	0.838	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	1.045	NA	1.182	NA	0.816	>5	NA
IPI00218693	APRT		43	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.270	NA	1.499	NA	0.867	NA	>5	NA	1	0.305	0.982	1.003	1.035	0.549	1.494	>5	0.014
IPI00020578	ARAF	ARAF	348	31	6	1.099	1.065	1.062	0.992	0.807	0.807	0.647	0.830	>5	NA	6	0.913	1.038	0.901	0.949	0.991	1.011	0.812	0.816	>5	NA	7	1.144	1.176	1.213	1.124	0.786	0.908	>5	NA
IPI00306048	ATAD3B		155	10	4	0.890	0.920	1.087	NA	NA	NA	NA	NA	>5	NA	3	1.006	1.175	0.858	NA	0.567	NA	0.636	NA	>5	0.010	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00440493	ATP5A1		213	10	5	1.107	1.016	1.130	0.705	1.296	1.334	0.793	0.680	>5	NA	4	1.000	0.980	0.846	1.072	0.997	1.017	0.790	0.522	>5	1.081	2	0.987	0.864	1.070	0.912	0.862	0.579	>5	1.983
IPI00303476	ATP5B		163	9	4	1.049	0.824	1.155	0.742	NA	0.622	NA	0.579	>5	0.030	3	1.182	1.419	1.217	1.348	1.721	1.130	1.254	0.849	>5	NA	1	1.177	NA	0.815	NA	0.796	NA	>5	NA
IPI00028482	ATP5G2		69	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	0.771	NA	0.361	1.633	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00298940	AURKA	AurA	1220	91	43	1.135	1.084	1.087	0.859	0.922	0.774	0.708	0.629	>5	NA	37	0.955	1.173	1.108	1.057	1.211	1.052	0.916	0.725	>5	NA	25	1.299	1.016	1.224	1.133	0.963	0.910	>5	NA
IPI00176642	AURKB	AurB	659	48	15	1.108	0.960	1.007	0.839	0.870	0.772	0.619	0.646	>5	NA	21	0.894	0.957	0.884	0.806	1.160	1.106	0.849	0.579	>5	6.126	16	1.298	1.094	1.241	1.093	0.918	0.809	>5	NA
IPI00008255	AZI2		715	48	16	1.061	0.968	0.904	0.859	0.761	0.719	0.474	0.344	1.163	0.703	22	1.038	1.053	0.962	0.966	0.972	0.954	0.697	0.652	>5	NA	20	1.150	0.898	1.103	1.014	0.886	0.772	>5	NA
	BCR-ABL		6219	794	218	0.884	0.746	0.312	0.238	0.245	0.226	0.152	0.135	0.004	0.003	137	0.922	0.555	0.271	0.248	0.271	0.228	0.188	0.144	0.002	0.001	162	0.875	0.707	0.735	0.491	0.370	0.261	0.370	0.237
IPI00337426	BMP2K	BIKE	1382	106	33	0.903	1.026	0.957	0.806	0.720	0.549	0.331	0.295	0.364	0.190	44	0.888	0.955	0.870	0.936	1.047	1.052	0.834	0.774	>5	NA	37	1.120	0.921	1.167	0.968	0.847	0.809	>5	NA
IPI00010862	BMPR1B	BMPR1B	100	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.050	1.420	1.372	1.086	NA	1.106	NA	0.768	>5	NA	1	1.931	NA	1.570	NA	0.933	NA	>5	NA
IPI00301434	BOLA2		87	8	2	NA	NA	0.901	NA	0.757	NA	0.464	NA	0.332	NA	2	NA	NA	0.842	NA	1.217	1.176	0.828	0.440	1.534	1.072	2	0.876	1.004	0.999	1.192	0.670	1.131	>5	NA
IPI00556369	BOLA2	SMG1	87	8	2	NA	NA	0.901	NA	0.757	NA	0.464	NA	0.332	NA	2	NA	NA	0.842	NA	1.217	1.176	0.828	0.440	1.534	1.072	2	0.876	1.004	0.999	1.192	0.670	1.131	>5	NA
IPI00303797	BRAF	BRAF	296	21	2	0.713	0.705	1.058	1.371	NA	0.981	NA	1.316	>5	NA	2	NA	NA	0.979	1.028	1.228	1.163	0.723	0.703	>5	NA	1	0.957	NA	1.198	NA	0.628	NA	>5	NA
IPI00014266	BRD3	BRD3	208	22	2	NA	NA	0.783	0.919	0.715	0.951	0.562	0.618	>5	0.858	2	0.828	0.758	0.904	NA	0.921	NA	0.658	NA	>5	NA	4	1.066	1.072	1.223	1.164	1.212	0.992	>5	NA
IPI00440727	BRD4	BRD4	232	12	3	0.797	0.625	0.728	0.865	NA	0.806	NA	0.607	>5	NA	2	0.843	0.906	0.711	0.747	NA	0.506	NA	0.505	>5	0.031	3	1.231	NA	1.372	NA	1.028	NA	>5	NA
IPI00465212	BRD4-NUT FUSION		220	10	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.839	NA	1.006	NA	0.604	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00029132	BTK	BTK	3551	549	219	0.991	0.932	0.700	0.441	0.293	0.218	0.140	0.121	0.027	0.019	170	0.976	0.980	0.598	0.245	0.260	0.175	0.169	0.104	0.013	0.011	259	1.016	0.948	0.989	0.945	0.793	0.795	>5	NA
IPI00291010	C17orf63		106	6	3	1.142	1.015	0.997	0.741	0.927	0.718	0.590	0.262	1.291	1.293	2	1.026	1.160	1.015	0.804	0.929	0.718	0.551	0.357	1.570	0.779	3	1.063	1.204	1.155	1.058	0.670	1.022	>5	NA
IPI00013004	C21orf124		333	24	8	1.022	1.131	0.950	0.856	0.878	0.772	0.637	0.615	>5	NA	12	1.186	1.289	1.103	1.218	1.287	0.965	0.911	0.723	>5	NA	7	1.230	0.930	1.230	1.212	0.924	0.979	>5	NA
IPI00176469	CABC1	ADCK3	1320	133	55	0.871	0.928	0.908	0.845	0.814	0.875	0.590	0.692	>5	0.641	47	0.872	0.871	0.928	1.038	1.136	1.085	0.727	0.412	1.647	1.058	33	1.196	1.042	1.177	1.130	0.912	0.880	>5	NA
IPI00301263	CAD		1262	72	33	0.785	0.909	0.830	0.877	0.851	0.718	0.665	0.639	>5	NA	28	1.036	1.030	0.875	1.012	0.974	1.100	0.815	0.752	>5	NA	21	0.994	0.870	1.124	1.045	0.820	0.821	>5	NA
IPI00075248	CALM2		132	8	2	1.093	0.956	1.025	1.052	1.074	0.707	0.553	0.334	0.986	0.443	4	0.792	1.336	0.821	0.873	0.961	1.585	0.629	0.939	>5	NA	2	0.819	1.568	0.961	1.710	0.655	1.380	>5	NA
IPI00021536	CALML5		137	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	4	NA	NA	0.891	NA	0.993	NA	0.679	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00020599	CALR		74	8	1	2.166	1.443	2.528	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.978	NA	1.423	NA	0.968	NA	>5	NA	1	1.100	NA	1.366	NA	1.211	NA	>5	NA
IPI00430291	CAMK2D	CaMK2d	760	70	25	0.786	0.676	0.863	0.811	0.747	0.766	0.674	0.570	>5	0.420	13	1.019	0.763	1.103	1.273	1.439	1.160	1.013	0.776	>5	NA	5	0.981	0.734	1.071	0.985	0.853	1.071	>5	NA
IPI00169392	CAMK2G	CaMK2g	1550	633	82	0.962	0.901	0.892	0.894	0.783	0.750	0.656	0.579	>5	0.362	67	0.879	0.983	0.971	0.941	1.055	1.060	0.792	0.713	>5	NA	60	1.037	0.901	1.069	0.955	0.816	0.752	>5	NA
IPI00290239	CAMKK2	CaMKK2	981	112	35	0.988	1.088	0.976	0.795	0.789	0.636	0.575	0.379	1.442	0.369	33	0.970	0.989	0.942	0.985	1.010	0.947	0.761	0.678	>5	NA	23	0.967	0.906	1.091	0.982	0.842	0.841	>5	NA
IPI00011285	CAPN1		50	4	1	NA	NA	1.226	NA	1.138	NA	0.864	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00005969	CAPZA1		134	12	4	1.225	1.525	1.069	0.799	0.866	0.742	0.719	0.634	>5	NA	3	0.937	1.130	0.899	1.152	1.102	1.291	0.883	0.740	>5	NA	4	1.037	1.073	1.157	0.928	1.125	0.884	>5	NA
IPI00218782	CAPZB		85	5	1	NA	NA	1.000	0.594	0.898	0.710	0.627	0.420	2.974	1.429	2	NA	NA	NA	0.852	NA	0.948	NA	0.616	>5	NA	2	1.002	NA	1.137	NA	0.751	NA	>5	NA
IPI00025746	CASP14		149	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	4	NA	0.815	NA	1.713	NA	0.755	>5	NA
IPI00219649	CBS		76	9	2	0.672	1.073	0.961	0.720	0.858	0.878	0.742	0.614	>5	NA	2	1.422	1.118	1.121	0.924	1.055	0.963	0.875	0.668	>5	NA	1	1.125	1.002	1.223	1.209	0.791	0.827	>5	NA
IPI00022865	CCNA2		195	14	4	1.278	1.525	1.249	0.968	1.003	0.917	0.602	0.932	>5	NA	5	1.112	1.654	0.804	0.845	0.869	0.897	0.946	0.919	>5	NA	1	1.248	NA	1.189	NA	1.005	NA	>5	NA
IPI00294696	CCNB1		185	16	5	1.614	1.451	1.105	0.868	0.751	0.980	0.618	0.855	>5	NA	5	1.031	1.216	1.033	0.954	1.049	1.124	0.798	0.880	>5	NA	3	1.326	0.989	1.234	0.897	0.962	0.685	>5	NA
IPI00021305	CCNH		1023	150	31	1.033	0.968	0.939	0.819	0.816	0.750	0.637	0.581	>5	0.267	39	0.948	1.080	0.947	0.958	1.013	0.943	0.752	0.651	>5	NA	25	1.181	0.983	1.193	1.068	0.865	0.789	>5	NA
IPI00028541	CCNI		171	6	6	0.826	0.767	0.784	NA	NA	NA	NA	NA	>5	NA	4	0.909	0.963	0.853	NA	NA	NA	NA	NA	>5	NA	1	NA	0.444	NA	1.009	NA	0.728	>5	NA
IPI00030247	CCNT1		346	18	8	0.915	0.971	0.905	0.829	0.849	0.868	0.609	0.716	>5	NA	6	0.892	0.955	0.808	0.760	0.932	0.778	0.603	0.526	>5	0.714	5	1.225	0.891	1.264	1.060	0.947	0.807	>5	NA
IPI00297779	CCT2		99	7	1	1.145	1.036	1.033	0.950	NA	0.547	NA	0.448	0.599	0.090	1	2.502	1.632	1.224	0.889	0.943	1.136	0.901	0.695	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00553185	CCT3		48	8	1	0.807	1.312	1.081	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	0.572	NA	0.928	NA	0.571	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00302927	CCT4		122	11	1	0.982	1.287	1.202	0.767	NA	0.722	NA	0.601	>5	NA	4	NA	NA	NA	0.946	NA	1.046	NA	0.659	>5	NA	2	1.102	NA	0.924	NA	0.806	NA	>5	NA
IPI00010720	CCT5		89	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	2.966	3.697	1.756	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00018465	CCT7		143	10	3	NA	NA	NA	0.898	NA	0.980	NA	0.408	2.627	NA	1	1.090	0.158	0.716	NA	NA	NA	NA	NA	>5	NA	1	1.266	NA	1.207	NA	1.093	NA	>5	NA
IPI00302925	CCT8		74	9	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	0.740	1.198	1.146	1.065	0.903	0.629	>5	NA	1	NA	0.692	NA	0.848	NA	0.693	>5	NA
IPI00026689	CDC2	CDC2	225	30	2	3.127	2.022	1.898	0.537	0.474	0.632	0.317	0.515	0.039	0.026	1	0.998	1.185	1.292	NA	NA	NA	NA	NA	>5	NA	1	NA	1.069	NA	0.872	NA	1.092	>5	NA
IPI00294575	CDC27		43	4	2	1.019	1.148	1.216	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00031681	CDK2	CDK2	1125	144	56	0.992	1.033	0.971	0.761	0.771	0.720	0.645	0.705	>5	NA	58	0.844	0.949	0.904	1.141	0.977	0.984	0.863	0.728	>5	NA	38	1.120	1.108	1.228	1.062	0.935	0.956	>5	NA
IPI00023530	CDK5	CDK5	1377	202	115	0.942	0.987	0.958	0.883	0.878	0.820	0.655	0.681	>5	NA	102	1.027	1.081	1.086	1.074	1.119	1.079	0.829	0.767	>5	NA	69	1.134	0.994	1.205	1.028	0.910	0.878	>5	NA
IPI00000685	CDK7	CDK7	952	105	36	0.931	0.892	0.820	0.783	0.731	0.668	0.623	0.586	>5	0.080	34	0.893	1.014	0.948	0.898	1.059	0.966	0.822	0.667	>5	NA	23	1.106	0.973	1.164	1.036	0.861	0.771	>5	NA
IPI00552413	CDK9	CDK9	579	70	19	0.964	1.020	1.003	0.797	0.855	0.741	0.721	0.610	>5	NA	16	0.967	1.088	0.931	0.990	1.004	0.855	0.860	0.572	>5	2.010	13	0.987	0.949	1.179	1.072	0.836	0.861	>5	NA
IPI00396279	CLASP1		44	9	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	0.948	1.103	1.425	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA

IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	bosutinib											dasatinib											imatinib								
					highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at						[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
						0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM				0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM				0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM		
IPI00010896	CLIC1		110	8	3	NA	NA	1.309	1.065	1.076	1.102	1.049	0.724	>5	NA	3	NA	NA	1.225	0.970	1.520	1.113	1.079	0.615	>5	NA	2	1.278	0.776	1.388	0.833	0.636	0.672	>5	NA
IPI00028061	CLK1	CLK1	296	24	4	0.803	0.818	0.825	1.018	0.544	0.849	0.516	0.791	>5	0.047	7	0.895	1.126	0.911	0.738	1.536	0.854	0.961	0.525	>5	0.341	2	0.944	0.874	1.400	0.755	0.814	0.770	>5	NA
IPI00028071	CLK2	CLK2	86	7	3	0.992	0.798	0.813	0.794	0.696	0.709	0.675	0.605	>5	NA	2	0.722	0.871	1.021	0.815	NA	1.210	NA	0.956	>5	NA	1	NA	0.996	NA	0.983	NA	0.901	>5	NA
IPI00219341	CLK3	CLK3	70	4	1	0.820	NA	1.202	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00004839	CRKL		327	22	9	0.948	0.958	0.910	0.836	0.733	0.839	0.494	0.533	>5	0.366	9	0.941	1.071	0.919	1.128	1.001	0.949	0.765	0.667	>5	NA	9	1.072	0.984	1.145	1.167	0.920	0.876	>5	NA
IPI00719297	CS		106	16	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.192	NA	1.474	NA	0.747	NA	>5	NA	1	1.538	0.859	1.173	1.403	0.782	0.904	>5	NA
IPI00013212	CSK	CSK	2477	406	227	1.126	1.091	0.913	0.740	0.598	0.435	0.238	0.171	0.175	0.120	157	1.113	1.185	0.817	0.608	0.404	0.291	0.202	0.162	0.058	0.038	197	1.058	1.053	1.053	1.052	0.832	0.883	>5	NA
IPI00448798	CSNK1A1	CK1a	922	60	34	1.061	1.133	0.984	0.899	0.812	0.770	0.619	0.520	>5	0.253	33	1.016	1.000	1.087	0.918	1.225	1.069	0.925	0.736	>5	NA	21	1.190	0.908	1.281	1.075	1.005	0.858	>5	NA
IPI00011102	CSNK1D	CK1d	576	55	19	1.114	1.194	0.948	0.751	0.668	0.655	0.417	0.299	0.539	0.212	4	0.894	1.091	1.029	0.632	1.145	0.742	0.708	0.555	>5	0.609	16	NA	0.907	NA	1.061	NA	0.830	>5	NA
IPI00027729	CSNK1E	CK1e	626	57	4	0.871	0.961	0.874	0.734	0.784	0.762	0.401	0.361	1.084	0.620	11	1.018	0.945	0.921	0.818	1.211	0.886	0.718	0.587	>5	0.693	1	0.882	NA	1.027	NA	0.575	NA	>5	NA
IPI00218437	CSNK1G3	CK1g3	517	75	21	1.056	1.086	1.053	0.916	0.833	0.797	0.617	0.621	>5	NA	17	0.907	1.004	0.951	0.858	1.027	1.011	0.833	0.706	>5	NA	14	1.134	1.144	1.212	1.154	0.866	0.834	>5	NA
IPI00016613	CSNK2A1	CK2a1	591	50	31	1.159	1.185	0.933	0.794	0.840	0.674	0.588	0.545	>5	0.122	26	0.988	1.157	0.846	0.706	1.055	0.751	0.802	0.569	>5	0.267	21	1.214	0.992	1.196	1.096	0.831	0.732	>5	NA
IPI00020602	CSNK2A2	CK2a2	1170	105	59	1.051	0.999	0.986	0.833	0.800	0.717	0.731	0.600	>5	0.091	50	0.971	1.211	0.934	1.007	1.029	0.961	0.894	0.740	>5	NA	28	1.301	1.099	1.228	1.070	0.838	0.846	>5	NA
IPI00010865	CSNK2B		498	39	16	1.213	1.261	0.905	0.758	0.703	0.639	0.614	0.587	>5	0.026	16	1.283	1.280	0.875	0.928	0.985	0.944	0.802	0.729	>5	NA	12	1.259	1.082	1.242	0.973	0.837	0.739	>5	NA
IPI00644231	CYFIP1		136	8	4	1.274	1.036	0.874	NA	NA	NA	NA	NA	>5	NA	1	1.446	1.068	0.599	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00020454	DCK		323	22	10	0.897	0.950	0.948	0.928	0.888	0.770	0.574	0.761	>5	0.285	9	0.751	0.840	0.997	1.020	1.226	1.101	0.942	0.815	>5	NA	6	0.897	0.955	1.349	1.117	0.760	0.882	>5	NA
IPI00001477	DDR1	DDR1	410	34	12	0.758	0.837	0.868	0.785	0.760	0.764	0.409	0.431	2.292	0.981	5	0.823	0.652	0.364	NA	NA	NA	NA	NA	0.002	NA	3	0.889	0.831	0.625	0.518	0.373	0.344	0.298	0.112
IPI00026829	DHPS		435	10	8	1.351	1.370	1.211	0.841	0.799	0.660	0.492	0.528	>5	0.132	5	1.107	1.123	0.962	0.565	0.995	1.248	0.589	0.664	>5	0.530	5	1.030	0.851	1.342	1.151	0.997	1.184	>5	NA
IPI00298547	DJ-1		113	6	1	0.631	1.047	1.209	NA	NA	NA	NA	NA	>5	NA	3	NA	NA	0.888	1.055	1.103	0.972	0.760	0.599	>5	0.845	2	0.757	0.729	0.972	1.351	0.713	0.868	>5	NA
IPI00397883	DKFZp686K16132		118	12	1	NA	NA	1.039	0.697	0.893	0.557	0.429	0.480	0.870	0.132	1	NA	NA	NA	1.168	NA	1.021	NA	0.531	>5	NA	2	0.929	0.649	1.386	0.774	1.026	0.642	>5	NA
IPI00604707	DLAT		819	50	18	0.629	0.700	0.702	0.944	0.737	0.609	0.512	0.548	>5	0.016	22	0.592	0.680	0.776	0.946	0.979	1.131	0.727	0.746	>5	0.010	23	1.100	0.899	1.089	0.967	0.905	0.848	>5	NA
IPI00293260	DNAJC10		238	15	5	1.374	1.102	0.873	0.826	0.676	0.809	0.409	0.776	>5	0.026	6	1.193	1.047	0.929	0.916	1.116	1.107	0.926	0.744	>5	NA	3	1.021	0.947	1.271	1.108	0.803	0.713	>5	NA
IPI00015287	DOK1		297	19	1	NA	NA	NA	0.390	NA	0.476	NA	0.445	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	1.499	1.663	1.024	1.799	0.991	1.336	>5	NA
IPI00022602	DOK2		798	48	9	0.913	0.908	0.467	0.174	0.335	0.168	0.221	0.107	0.010	0.009	6	1.082	0.902	0.243	0.173	0.266	0.205	0.168	0.106	0.003	0.002	16	0.746	0.650	0.971	0.751	0.517	0.321	1.476	2.353
IPI00019329	DYNLL2		218	27	13	NA	NA	0.924	0.978	0.964	0.829	0.597	0.653	>5	0.355	6	NA	NA	0.785	1.337	0.927	0.960	0.837	0.878	>5	NA	7	0.895	0.753	0.889	0.979	0.763	0.842	>5	NA
IPI00014344	DYRK1A	DYRK1A	166	21	4	1.106	1.013	0.874	0.828	0.808	0.782	0.645	0.616	>5	NA	4	NA	NA	0.767	0.927	1.074	1.086	0.755	0.713	>5	NA	6	1.209	1.111	1.122	1.087	0.799	0.919	>5	NA
IPI00328587	EDARADD		59	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	1.229	NA	0.413	2.168	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00472724	EEF1A1		756	72	25	0.953	1.076	1.065	0.800	0.800	0.784	0.633	0.670	>5	NA	31	1.118	1.237	0.968	1.061	0.954	1.045	0.736	0.652	>5	NA	16	1.044	0.886	0.968	0.923	0.831	0.819	>5	NA
IPI00000875	EEF1G		63	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	1.339	NA	0.966	NA	1.112	NA	>5	NA	1	1.480	NA	1.117	NA	0.624	NA	>5	NA
IPI00186290	EEF2		248	25	5	0.912	0.921	1.066	0.778	1.225	0.836	0.867	0.468	4.232	2.137	6	0.985	1.019	1.100	NA	1.081	1.017	0.740	0.535	>5	0.877	6	0.874	0.972	0.969	0.979	0.627	0.788	>5	NA
IPI00328149	EIF2AK1	HRI	130	9	1	1.205	1.218	1.118	0.732	0.538	0.671	0.544	0.296	>5	0.032	4	0.904	1.185	0.915	0.910	1.112	1.034	0.813	0.748	>5	NA	3	1.142	1.076	1.154	1.020	0.984	1.095	>5	NA
IPI00163851	EIF2AK4	GCN2	256	24	4	0.853	0.953	0.726	NA	0.997	NA	0.878	NA	>5	NA	8	0.838	0.681	0.790	0.842	0.977	0.956	0.710	0.693	>5	NA	6	1.090	0.728	1.224	0.671	0.860	0.603	>5	NA
IPI00290461	EIF3S1		789	84	28	1.031	1.142	1.089	0.889	0.855	0.650	0.675	0.611	>5	NA	19	0.782	0.949	0.831	0.981	1.059	0.973	0.870	0.725	>5	NA	16	1.333	1.084	1.144	1.049	0.752	0.766	>5	NA
IPI00409717	EIF4A2		46	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.844	1.058	0.999	1.382	0.645	0.828	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00376005	EIF5A2		59	3	1	1.746	1.483	1.750	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00465248	ENO1		593	33	7	1.016	1.131	1.252	0.901	0.958	1.016	0.720	0.750	>5	NA	12	1.059	1.187	1.245	1.228	1.109	1.321	0.827	0.651	>5	NA	8	0.944	0.988	1.113	1.010	0.901	0.829	>5	NA
IPI00008318	EPHA4	EphA4	87	7	2	0.916	1.048	0.961	NA	NA	NA	NA	NA	>5	NA	3	0.910	0.961	0.875	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00008315	EPHB1	EphB1	240	27	1	NA	NA	0.588	NA	0.349	NA	0.253	NA	0.046	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	3	1.363	1.253	1.376	0.855	0.958	0.730	>5	NA
IPI00021275	EPHB2	EphB2	392	36	3	NA	NA	0.570	0.534	0.472	0.372	0.434	0.242	0.055	0.380	2	NA	NA	0.590	NA	0.574	NA	0.535	NA	>5	NA	6	1.041	1.103	1.389	1.020	1.048	1.019	>5	NA
IPI00289342	EPHB4	EphB4	1809	126	49	0.855	0.794	0.563	0.327	0.337	0.261	0.217	0.177	0.012	0.006	36	0.863	0.536	0.305	0.253	0.278	0.328	0.186	0.210	0.001	0.0005	47	1.161	0.916	1.104	0.847	0.780	0.732	>5	NA
IPI00029728	ERCC2		1557	99	68	0.962	1.016	0.969	0.841	0.840	0.788	0.645	0.571	>5	0.439	56	0.970	0.996	0.935	0.992	1.012	0.953	0.908	0.712	>5	NA	40	1.093	0.983	1.174	1.107	0.842	0.852	>5	NA
IPI00291364	ERCC3		64	8	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.004	0.984	1.219	NA	NA	NA	NA	NA	>5	NA	1	0.722	0.618	1.768	0.358	0.293	0.577	0.252	0.208
IPI00009841	EWSR1		95	12	3	NA	NA	NA	1.036	NA	0.895	NA	0.361	0.928	NA	2	1.201	0.944	0.882	0.745	0.782	0.979	0.743	0.508	>5	0.458	2	0.712	1.264	1.078	0.840	0.577	1.275	>5	0.023
IPI00328846	FAM83A		753	50	27	1.053	1.170	0.975	0.934	0.696	0.733	0.577	0.438	2.354	0.164	21	0.915	0.772	1.007	0.962	1.239	1.115	0.859	0.760	>5	NA	14	0.937	0.799	1.140	0.813	0.874	0.709	>5	NA
IPI00026781	FASN		141	16	4	0.807	0.984	0.883	0.685	0.797	0.711	0.407	0.598	>5	0.143	2	0.910	1.012	0.926	NA	1.078	1.225	0.911	0.618	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00554589	FECH		1256	147	76	0.851	0.922	0.965	0.878	0.889	0.821	0.665	0.684	>5	NA	81	0.857	0.802	0.888	0.931	1.114	1.010	0.882	0.786	>5	NA	39	1.054	1.085	1.060	1.088	0.894	0.848	>5	NA
IPI00029263	FER	FER	1660	148	50	0.947	0.906	0.919	0.818	0.755	0.643	0.390	0.298	0.618	0.389	63	1.022	1.011	0.972	1.021	0.971	0.925	0.855	0.677	>5	NA	49	0.968	0.899	0.990	1.010	0.809	0.864	>5	NA
IPI00005142	FGFR1	FGFR1	359	43	8	0.825	0.907	1.013	0.892	0.833	0.799	0.706	0.563	>5	0.859	12	0.806	0.889	1.132	1.228	1.312	1.126	0.906	0.654	>5	NA	8	1.112	0.895	1.071	1.043	0.935	0.888	>5	NA
IPI00220253	FGFR3	FGFR3	77	17	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	1.361	NA	1.660	NA	1.401	>5	NA
IPI00012443	FIBP		534	29	8	0.910	1.071	0.978	0.773	0.981	0.735	0.764	0.656	>5	NA	11	1.036	1.314	1.054	1.033	1.155	1.070	0.890	0.771	>5	NA	8	1.259	1.022	1.489	1.304	0.942	0.941	>5	NA
IPI00026256	FLG		972	40	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	5	NA	NA	1.100	NA	1.210	NA	0.616	NA	>5	NA	23	1.064	1.256	1.453	2.831	1.001	1.018	>5	NA
IPI00442821	FLJ26613		77	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.691	NA	0.830	NA	0.671	NA	>5	NA	1	1.737	NA	2.296	NA	1.312	NA	>5	NA
IPI00332067	FLJ35880		109	15	1	0.704	0.679	0.788	0.731	NA	0.687	NA	0.492	>5	0.310	1	0.855	0.890	1.175	NA	NA	NA	NA	NA	>5	NA	1	1.175	1.132	1.019	0.851	0.793	0.977	>5	NA
IPI00099986	FN3KRP		197	17	6	0.948	1.028	0.971	0.812	0.932	0.682	0.677	0.558	>5	0.307	6	0.985	0.929	0.746	1.083	1.248	1.030	0.806	0.840	>5	NA	5	1.110	1.083	1.264	0.968	0.915	1.135	>5	NA
IPI00000885	FRK	FRK	154	18	3	1.014	1.092	0.969	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.012	NA	0.644	NA	0.369	NA	0.149	NA	7	0.995	1.037	1.197	1.083	0.912	0.848	>5	NA
IPI00260715	FUS		147	13	2	NA	NA	1.194	0.638	1.010	0.810	0.735	0.464	4.480	1.781	3	NA	NA	0.839	1.091	0.954	1.235	0.789	0.750	>5	NA	3	0.957	1.126	1.091	1.233	0.700	0.857	>5	NA
IPI00219012	FYN	FYN	1232	246	16	1.085	1.115	0.837	0.501	0.567	0.321	0.286	0.197	0.073	0.036	10	0.986	0.949	0.540	0.610	0.311	0.500	0.242	0.312	0.033	0.007	22	1.142	1.099	1.227	1.158	0.939	0.993	>5	NA
IPI00298949	GAK	GAK	4128	297	133	0.869	0.758	0.426	0.242	0.242	0.163	0.154	0.110	0.005	0.004	140	0.817	0.849	0.938	0.806	0.633	0.430	0.305	0.204	0.240	0.165	142	1.089	0.975	1.125	0.982	0.841	0.773	>5	NA
IPI00008790	GALC		344	19	7	1.033	1.091	1.015	0.737	0.846	0.769	0.567	0.657	>5	0.041	8	1.208	1.079	1.032	1.081	1.080	0.865	0.823	0.606	>5	NA	8	1.120	1.001	1.283	0.928	0.781	0.825	>5	NA
IPI00219018	GAPDH		431	24	8	1.092	1.221	1.281	0.675	0.946	0.837	0.762	0.628	>5	NA	11	1.283	1.404	1.382	1.169	1.198	1.107	0.777	0.593	>5	0.967	10	1.078	0.982	0.886	0.956	0.882	0.865	>5	NA
IPI00292753	GAPVD1		752	54	17	1.016	0.878	0.899	0.900	0.829	0.747	0.633	0.457	3.395	0.787	18	1.109	1.358	1.199	1.036	1.148	1.067	0.894	0.731	>5	NA	13	1.009	0.922	1.146	0.993	0.942	0.823	>5	NA
IPI00025273	GART		62	4	1	1.087	1.242	1.326	NA	NA	NA	NA	NA	>5	NA	2	0.718	0.921	0.741	NA	1.263	1.085	1.162	0.486	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00001159	GCN1L1		809	36	16	0.959	0.992	0.879	0.791	0.784	0.719	0.662	0.608	>5	NA	18	1.087	0.978	0.919	1.003	1.203	1.031	0.982	0.715	>5	NA	6	0.839	0.968	1.078	1.058	0.634	0.840	>5	NA
IPI00180434	GRAMD1A		977	72	19	1.075	1.013	0.952	0.879	0.796	0.750	0.652	0.622	>5	NA	25	0.967	1.095	0.897	0.858	0.847	0.889	0.667	0.613	>5	NA	22	1.043	0.926	1.021	0.916	0.753	0.715	>5	NA
IPI00021327	GRB2		539	40	18	0.978	0.797	0.240	0.215	0.191	0.209	0.151	0.165	0.003	0.002	18	0.978	0.415	0.262	0.293	0.283	0.243	0.238	0.134	>5	NA	18	0.720	0.601	0.571	0.393	0.249	0.243	0.111	0.066
IPI00000839	GRM4		57	4	1	0.889	0.803	0.933	NA	NA	NA	NA	NA	>5	NA	1	1.210	1.204	1.204	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00292228	GSK3A	GSK3A	2022	324	97	0.957	0.945	0.932	0.849	0.803	0.788	0.664	0.719	>5	NA	102	0.994	1.046	1.014	0.850	1.037	0.894	0.815	0.650	>5	NA	68	1.092	0.960	1.198	1.075	0.929	0.922	>5	NA
IPI00216190	GSK3B	GSK3B	1701	266	65	1.055	0.961	0.938	0.826	0.848	0.779	0.639	0.690	>5	NA	67	1.026	1.080	1.035	1.017	1.080	1.029	0.875	0.662	>5	NA	47	1.086	1.053	1.175	1.062	0.965	0.897	>5	NA
IPI00016862	GSR		72	6	2	0.927	0.824	0.871	1.318	NA	1.169	NA	0.590	>5	1.787	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.297	0.938	0.991	1.413	1.153	0.773	>5	NA
IPI00219757	GSTP1		121	9	2	1.004	1.398	1.599	1.009	NA	0.713	NA	0.952	>5	NA	3	0.899	1.065	1.118	1.439	1.396	1.320	0.951	0.685	>5	NA	1	1.636	NA	1.352	NA	0.752	NA	>5	NA
IPI00031522	HADHA		217	15	6	0.795	0.951	0.898	NA	0.657	NA	0.485	NA	0.957	0.124	4	0.853	0.856	0.844	0.970	0.748	0.902	0.785	0.704	>5	NA	2	1.321	NA	1.228	NA	0.915	NA	>5	NA
IPI00022793	HADHB		122	11	3	1.046	1.092	1.087	0.669	0.731	0.600	0.509	0.455	2.739	0.039	1	0.912	0.853	1.097	0.881	1.197	0.905	0.715	0.640	>5	NA	1	NA	0.596	NA	1.051	NA	0.708	>5	NA
IPI00480146	HBZ		119	6	4	1.063	1.132	1.253	NA	NA	NA	NA	NA	>5	NA	3	1.053	1.216	1.326	1.237	0.967	1.153	0.811	0.793	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00029769	HCK	HCK	530	72	6	0.959	1.044	0.973	0.711	0.885	0.521	0.504	0.336	0.771	0.273	5	0.944	0.904	0.928	NA	0.573	NA	0.363	NA	0.122	0.085	10	1.280	1.003	1.050	1.135	0.846	0.955	>5	NA
IPI00239077	HINT1		61	4	1	NA	NA	1.291	0.871	1.107	1.132	0.895	0.748	>5	NA	2	NA	NA	1.008	1.236	1.169	1.206	0.914	0.879	>5	NA	1	NA	1.339	NA	1.029	NA	0.808	>5	NA
IPI00719084	HIST1H2BN		144	4	2	NA	NA	0.776	NA	0.905	NA	0.198	NA	0.586	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00219037	HIST3H2A		53	2	1	NA	NA	1.110	NA	1.002	NA	0.041	NA	0.204	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00453473	HIST4H4		123	5	3	NA	NA	0.844	NA	0.772	NA	0.102	NA	0.189	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00293564	HMGCL		59	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	1.012	1.173	1.084	NA	1.884	NA	1.161	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00003881	HNRPF		173	12	3	1.562	1.507	1.169	0.652	0.734	0.551	0.598	0.553	>5	0.025	3	1.392	0.957	0.848	1.183	1.049	0.905	0.834	0.532	>5	1.221	2	1.104	1.565	1.275	1.373	0.571	0.848	>5	0.597
IPI00479191	HNRPH1		139	8	1	0.945	0.782	0.198	0.690	NA	0.833	NA	0.558	>5	NA	3	1.124	1.349	1.517	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00216746	HNRPK		116	13	3	NA	NA	0.814	0.688	0.890	0.706	0.653	0.607	>5	NA	3	NA	NA	1.188	1.083	1.235	1.273	0.806	0.651	>5	NA	4	0.956	0.909	1.098	1.155	0.786	0.941	>5	NA
IPI00025054	HNRPU		71	7	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.174	NA	1.278	1.248	0.910	0.857	>5	NA	2	NA	1.069	NA	0.936	NA	0.911	>5	NA
IPI00018522	HRMT1L2		43	1	1	1.102	0.962	0.966	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	1.566	NA	1.135	NA	1.253	>5	NA
IPI00398625	HRNR		540	15	2	NA	NA	1.094	1.247	0.575	1.165	0.292	0.581	0.667	0.574	1	NA	NA	0.800	NA	0.704	NA	0.505	NA	>5	NA	3	0.960	3.694	1.452	11.279	1.136	1.121	>5	NA
IPI00019912	HSD17B4		2397	194	80	0.769	0.809	0.839	0.985	0.906	0.843	0.707	0.729	>5	NA	107	0.736	0.888	0.877	1.186	1.080	1.331	0.845	0.760	>5	NA	63	1.134	1.019	1.183	1.148	0.935	0.947	>5	NA
IPI00414384	HSDL2		56	3	1	NA	NA	0.665	NA	1.155	NA	0.549	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00514377	HSPA1A		838	62	17	1.036	1.028	0.751	0.629	0.536	0.531	0.364	0.334	0.172	0.019	16	1.056	1.040	0.836	0.792	0.795	0.637	0.518	0.362	1.235	0.422	17	0.999	0.966	1.084	1.120	0.773	0.832	>5	NA
IPI00003362	HSPA5		546	43	15	1.047	1.057	0.871	0.674	0.630	0.673	0.422	0.472	1.140	0.024	15	0.959	0.962	0.798	0.804	0.724	0.879	0.588	0.524	>5	0.544	14	1.125	0.900	1.075	0.997	0.748	0.763	>5	NA
IPI00003865	HSPA8		1348	105	49	1.068	1.017	0.745	0.559	0.562	0.444	0.368	0.313	0.113	0.013	42	0.949	0.960	0.662	0.655	0.623	0.616	0.476	0.408	0.743	0.027	32	1.033	0.899	0.950	0.927	0.663	0.700	>5	NA
IPI00007765	HSPA9B		613	30	16	1.012	1.030	0.879	0.541	0.627	0.491	0.444	0.353	0.182	0.022	13	0.907	0.966	0.742	0.925	0.810	0.739	0.565	0.533	>5	0.443	14	1.131	1.012	1.068	1.081	0.800	0.805	>5	NA
IPI00025512	HSPB1		166	9	2	NA	NA	1.290	0.731	1.109	0.576	0.676	0.559	>5	0.193	4	NA	NA	0.688	NA	1.527	1.326	0.659	0.524	>5	0.888	2	0.807	0.880	1.284	1.770	0.880	0.296	1.537	1.318
IPI00382470	HSPCA		606	42	6	1.058	1.155	1.118	0.767	0.942	0.769	0.754	0.524	>5	0.674	7	1.250	1.282	1.104	1.282	0.852	1.158	0.623	0.668	>5	NA	8	1.003	0.786	1.160	0.779	0.974	0.745	>5	NA
IPI00414676	HSPCB		1016	61	15	1.110	1.151	1.128	0.859	0.925	0.859	0.820	0.667	>5	NA	13	1.094	1.264	1.268	1.150	1.204	1.269	0.798	0.650	>5	NA	14	1.079	0.808	0.957	0.831	0.837	0.728	>5	NA
IPI00472102	HSPD1		588	38	11	0.995	1.136	1.043	0.571	0.829	0.723	0.631	0.607	>5	0.014	12	1.172	1.090	1.174	1.105	1.172	1.193	0.817	0.699	>5	NA	10	1.026	0.998	0.928	0.857	0.813	0.815	>5	NA
IPI00220362	HSPE1		59	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.913	NA	0.641	NA	0.631	NA	>5	NA	2	NA	1.105	NA	1.235	NA	0.892	>5	NA

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00003384	IFITM3		44	1	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	1.249	NA	1.379	NA	1.081	>5	NA
IPI00175647	IFT80		149	16	2	0.600	0.500	0.294	0.738	NA	0.712	NA	0.852	>5	0.066	1	NA	NA	NA	NA	NA	1.574	NA	0.693	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00029045	IKBKE	IKKe	240	24	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	1.164	NA	1.313	NA	0.744	>5	NA	2	1.758	1.000	1.270	0.900	0.959	0.569	>5	1.787
IPI00025644	ILK	ILK	110	9	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	1.107	NA	0.937	NA	0.658	>5	NA	4	0.873	0.926	1.112	1.069	0.892	0.760	>5	NA
IPI00024970	INCENP		157	14	3	NA	NA	NA	1.072	NA	1.063	NA	0.795	>5	NA	4	NA	NA	0.770	1.065	1.502	1.322	1.034	0.772	>5	NA	3	NA	0.902	NA	0.901	NA	0.859	>5	NA
IPI00016932	SHIP2		1604	172	37	0.874	0.775	0.319	0.273	0.285	0.248	0.182	0.180	0.004	0.002	26	0.974	0.575	0.369	0.229	0.347	0.284	0.272	0.209	>5	NA	34	0.928	0.691	0.871	0.555	0.424	0.354	0.713	0.281
IPI00024970	IPI00000862.1		127	7	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	6	NA	1.430	NA	1.747	NA	0.944	>5	NA
IPI00007402	IPO7		91	7	3	0.906	0.927	0.966	1.136	0.785	1.122	0.616	0.723	>5	NA	2	1.065	1.040	0.938	NA	0.947	NA	0.590	NA	>5	0.181	1	1.026	1.036	0.825	1.039	1.016	0.957	>5	NA
IPI00001453	IPPK		50	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.658	NA	1.421	NA	1.080	NA	>5	NA
IPI00014255	IQCB1		56	4	1	NA	NA	NA	0.954	NA	2.496	NA	0.391	2.717	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	2.663	NA	1.493	NA	0.808	NA	>5	NA
IPI00293652	IRAK1	IRAK1	228	11	4	1.189	1.028	0.944	0.790	0.716	0.808	0.771	0.636	>5	NA	3	1.089	1.033	0.852	NA	1.009	1.238	0.773	0.565	>5	0.955	3	1.041	0.852	1.194	1.329	0.906	0.944	>5	NA
IPI00003031	ISOC2		292	16	5	1.707	1.449	1.050	1.015	0.859	0.784	0.622	0.595	>5	0.243	9	0.958	1.211	0.980	0.784	1.190	1.055	0.949	0.633	>5	NA	6	1.051	1.004	1.211	1.145	0.804	0.836	>5	NA
IPI00011633	JAK1	JAK1	1769	117	50	1.050	1.010	0.906	0.868	0.806	0.728	0.582	0.480	3.833	0.549	46	0.952	1.088	0.911	0.887	0.946	0.925	0.679	0.559	>5	0.753	44	1.204	0.993	1.089	0.991	0.810	0.724	>5	NA
IPI00554711	JUP		82	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	0.563	NA	1.072	NA	0.558	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00008575	KHDRBS1		71	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	0.833	0.746	0.764	1.154	NA	1.158	NA	0.695	>5	NA	1	0.946	NA	0.875	NA	0.900	NA	>5	NA
IPI00166708	KHDRBS2		74	8	1	NA	NA	0.851	0.561	0.923	0.738	0.683	0.660	>5	0.353	1	NA	NA	1.150	NA	1.500	NA	1.012	NA	>5	NA	1	0.954	0.917	0.882	1.102	1.044	1.016	>5	NA
IPI00479786	KHSRP		183	10	4	0.846	0.956	0.896	0.822	0.830	0.986	0.657	0.661	>5	NA	4	NA	NA	0.516	NA	1.120	1.385	0.697	0.676	>5	0.009	3	1.022	0.939	0.918	0.987	0.859	0.782	>5	NA
IPI00641384	KIAA0310		455	15	7	0.918	1.074	0.932	0.746	0.921	0.624	0.755	0.393	3.316	0.727	11	1.105	1.096	0.993	0.864	0.963	1.054	0.788	0.682	>5	NA	6	0.806	0.910	1.222	1.066	0.836	0.799	>5	NA
IPI00465142	KIAA0528		597	57	11	0.841	0.914	0.902	0.888	0.831	0.724	0.642	0.609	>5	NA	13	1.168	1.103	1.126	0.904	1.116	1.061	0.779	0.691	>5	NA	11	1.040	0.857	1.153	0.953	0.801	0.708	>5	NA
IPI00657720	KIAA0999	QSK	1042	103	20	1.116	0.973	0.868	0.594	0.590	0.389	0.278	0.206	0.125	0.068	19	1.030	1.104	0.948	0.738	0.685	0.691	0.381	0.432	0.772	0.075	22	1.211	0.984	1.115	0.947	0.810	0.760	>5	NA
IPI00022296	KIT	KIT	984	91	26	0.820	0.863	0.895	0.846	0.836	0.848	0.706	0.647	>5	NA	9	0.859	0.954	0.605	0.323	0.366	0.280	0.235	0.188	0.015	0.011	20	1.150	0.947	1.090	0.840	0.573	0.413	1.451	0.507
IPI00001639	KPNB1		114	9	1	2.988	2.564	2.283	NA	NA	NA	NA	NA	>5	NA	3	NA	NA	0.983	0.894	0.981	1.185	0.619	0.633	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00010471	LCP1		87	6	1	NA	NA	NA	0.699	NA	0.686	NA	0.719	>5	NA	2	NA	NA	1.141	1.258	1.268	1.360	0.839	0.688	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00217966	LDHA		238	17	3	0.940	1.064	1.226	0.344	1.072	0.628	0.766	0.683	>5	0.017	4	1.489	1.600	1.439	NA	1.582	1.262	1.017	0.588	>5	0.330	3	0.914	1.111	1.095	0.819	0.731	0.864	>5	NA
IPI00219217	LDHB		165	8	3	NA	NA	1.076	0.934	0.927	1.132	0.825	0.761	>5	NA	1	NA	NA	1.377	1.481	1.353	1.514	1.084	0.771	>5	NA	3	1.247	0.646	0.665	1.134	0.936	0.987	>5	NA
IPI00554498	LDHC		96	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	0.871	NA	0.990	NA	0.874	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00023673	LGALS3BP		57	6	2	0.892	1.102	0.785	0.504	0.558	0.787	0.347	0.475	>5	0.010	2	NA	NA	1.199	0.752	1.503	1.113	1.077	0.671	>5	NA	2	NA	0.809	NA	1.028	NA	0.831	>5	NA
IPI00217223	LGALS7		151	16	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	10	1.171	1.234	1.399	1.554	1.236	0.786	>5	NA
IPI00291702	LIMK1	LIMK1	340	29	7	0.950	1.068	0.898	0.793	0.913	0.803	0.630	0.677	>5	NA	6	0.996	0.966	0.872	0.789	0.914	0.784	0.541	0.489	1.874	0.466	5	1.223	0.926	1.363	0.953	1.021	0.811	>5	NA
IPI00022872	LIMK2	LIMK2	586	44	14	0.968	0.989	0.957	0.876	0.790	0.768	0.619	0.668	>5	NA	12	1.040	0.959	1.037	0.966	1.125	0.875	0.670	0.411	2.044	0.840	12	1.085	1.062	1.013	1.057	0.887	0.947	>5	NA
IPI00021405	LMNA		276	22	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	6	NA	NA	1.197	2.125	1.572	1.698	0.615	0.902	>5	NA	4	1.898	NA	1.399	NA	1.258	NA	>5	NA
IPI00025746	LOC129138		149	14	1	NA	NA	0.946	NA	0.685	NA	0.434	NA	0.207	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	4	1.207	0.933	1.294	1.029	0.949	0.880	>5	NA
IPI00383046	LOC134147		57	4	2	NA	NA	0.871	0.284	1.154	0.315	0.770	0.105	0.606	2.412	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00218084	LOC143244		45	2	1	NA	NA	3.053	NA	2.899	NA	2.246	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00554749	LOC149329		214	16	1	NA	NA	1.176	NA	0.729	NA	0.305	NA	0.153	NA	6	NA	NA	NA	NA	NA	0.685	NA	0.422	1.751	NA	4	0.915	1.071	1.089	0.774	0.748	0.927	>5	NA
IPI00002966	LOC342897		52	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	2.108	NA	2.243	NA	1.386	>5	NA
IPI00455945	LOC347381		50	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.159	NA	1.145	NA	0.696	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00003495	LOC388177		53	1	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	2.805	NA	3.097	NA	1.316	>5	NA
IPI00457307	LOC391039		127	11	3	NA	NA	0.972	0.862	0.919	0.939	0.755	0.837	>5	NA	3	NA	NA	0.984	1.239	1.057	0.981	0.696	0.575	>5	0.584	1	2.432	1.573	1.202	1.094	1.107	1.393	>5	NA
IPI00005126	LOC400097		51	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.814	NA	0.934	NA	0.978	>5	NA
IPI00401431	LOC400236		37	1	1	NA	NA	NA	1.265	NA	0.923	NA	0.598	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00456800	LOC441388		109	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	0.759	NA	1.146	NA	0.633	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00386435	LOC494150		68	2	1	NA	NA	0.753	NA	0.892	NA	0.390	NA	0.678	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00396563	LOC51035		54	9	4	NA	NA	1.112	1.001	1.101	2.186	0.481	1.017	>5	0.589	2	NA	NA	1.331	1.012	2.069	1.972	1.043	0.754	>5	NA	1	0.905	NA	1.771	NA	0.372	NA	0.699	NA
IPI00396321	LRRC59		73	4	1	NA	NA	1.054	NA	0.917	NA	0.925	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00298625	LYN	LYN	2147	337	71	1.077	1.046	0.839	0.622	0.467	0.346	0.216	0.171	0.080	0.038	41	0.999	1.165	0.731	0.285	0.288	0.209	0.237	0.142	0.016	0.012	76	1.221	1.135	1.155	0.999	0.927	0.865	>5	NA
IPI00007321	LYPLA1		146	6	1	NA	NA	NA	0.602	NA	0.570	NA	1.078	>5	NA	3	NA	NA	1.060	0.873	1.088	1.096	0.952	0.691	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00003783	MAP2K2	MAP2K2	79	7	1	NA	NA	1.198	0.779	1.334	0.711	0.850	0.325	2.742	2.997	3	NA	NA	NA	1.003	NA	1.129	NA	0.782	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00185860	MAP2K5	MAP2K5	265	16	3	NA	NA	0.874	0.655	0.692	0.514	0.406	0.184	0.395	1.307	6	1.108	1.256	0.873	1.022	1.002	0.903	0.663	0.403	2.722	1.061	8	1.234	1.044	1.229	1.117	0.777	0.994	>5	NA
IPI00012318	MAP3K1	MAP3K1	911	50	19	1.082	1.102	0.867	0.601	0.510	0.464	0.327	0.276	0.104	0.024	26	0.947	1.051	0.981	0.882	0.993	0.906	0.652	0.535	>5	0.676	19	1.022	0.913	1.149	0.973	0.834	0.696	>5	NA
IPI00000977	MAP3K11	MLK3	358	22	6	1.067	0.924	0.845	0.757	0.712	0.764	0.463	0.501	3.389	0.158	6	1.053	1.120	0.960	0.860	0.917	1.113	0.713	0.756	>5	NA	6	0.979	1.020	1.163	1.065	0.683	0.877	>5	NA
IPI00513803	MAP3K2	MAP3K2	396	28	2	1.311	1.255	1.008	0.784	0.585	0.485	0.546	0.285	0.194	0.056	2	NA	NA	0.762	0.811	1.109	0.974	0.615	0.448	1.276	0.910	2	1.363	1.065	1.374	1.185	0.862	0.694	>5	NA
IPI00181703	MAP3K3	MAP3K3	314	27	3	1.064	1.010	1.142	0.871	0.837	0.646	0.620	0.450	2.811	0.172	3	0.928	0.953	0.905	0.839	1.060	0.889	0.874	0.531	>5	2.446	3	1.176	1.039	1.079	1.218	0.852	1.089	>5	NA
IPI00386260	MAP3K4	MAP3K4	2358	206	69	1.034	1.002	0.830	0.573	0.492	0.425	0.324	0.263	0.090	0.026	64	1.013	1.171	0.857	0.691	0.766	0.650	0.463	0.338	0.833	0.234	79	1.131	0.963	1.223	1.046	0.832	0.775	>5	NA
IPI00412433	MAP3K5	MAP3K5	81	8	1	NA	NA	NA	0.980	NA	0.731	NA	0.613	>5	NA	1	NA	NA	0.667	NA	0.981	1.118	0.712	0.796	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00020258	MAP4K1	HPK1	72	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.114	1.230	1.379	1.430	0.907	0.977	>5	NA
IPI00149094	MAP4K2	GCK	244	21	3	1.172	1.151	0.865	NA	0.791	NA	0.368	NA	0.438	0.253	5	0.970	1.014	0.960	0.756	1.013	1.164	0.603	0.686	>5	NA	6	1.212	1.138	1.353	0.988	0.884	0.952	>5	NA
IPI00217024	MAP4K3	KHS2	217	15	6	1.022	0.863	0.732	0.324	0.413	0.330	0.208	0.238	0.025	0.011	5	1.791	1.537	0.970	0.775	0.893	0.784	0.800	0.427	>5	0.418	3	1.225	1.067	1.457	0.974	0.733	0.813	>5	NA
IPI00294842	MAP4K5	KHS1	349	22	6	0.922	0.821	0.493	0.521	NA	0.405	NA	0.261	0.025	0.005	9	1.052	1.053	0.855	0.870	0.740	0.984	0.493	0.447	3.163	1.250	9	1.092	0.967	1.097	0.976	0.731	0.817	>5	NA
IPI00003479	MAPK1	Erk2	2343	1313	383	1.031	1.060	0.964	0.881	0.834	0.828	0.648	0.714	>5	NA	350	0.915	1.060	0.928	0.991	1.003	0.981	0.819	0.707	>5	NA	264	1.096	0.999	1.119	1.050	0.908	0.889	>5	NA
IPI00019473	MAPK11	p38b	390	40	4	0.850	0.907	0.874	0.710	0.766	0.705	0.551	0.463	4.162	0.711	4	0.871	0.927	0.808	1.111	1.097	0.802	0.703	0.680	>5	NA	6	1.176	0.999	1.245	0.909	0.890	0.825	>5	NA
IPI00002857	MAPK14	p38a	1622	722	184	1.015	0.988	0.940	0.836	0.810	0.779	0.604	0.551	>5	0.425	174	1.065	1.133	1.065	0.932	0.909	0.814	0.578	0.397	2.119	0.858	152	1.050	0.965	1.008	0.954	0.880	0.824	>5	NA
IPI00018195	MAPK3	Erk1	1211	274	19	0.959	1.039	1.020	0.772	0.911	0.738	0.673	0.603	>5	NA	13	0.936	1.059	0.984	1.001	1.084	1.061	0.806	0.646	>5	NA	12	0.953	1.209	1.119	1.121	0.818	0.935	>5	NA
IPI00024672	MAPK8	JNK1	1891	279	96	1.103	1.088	1.033	0.849	0.877	0.759	0.633	0.680	>5	NA	80	0.990	1.045	0.952	0.938	0.962	0.981	0.841	0.731	>5	NA	48	1.143	1.132	1.056	1.085	0.806	0.949	>5	NA
IPI00303550	MAPK9	JNK2	1451	233	65	1.041	1.087	1.002	0.824	0.833	0.752	0.677	0.638	>5	NA	53	0.991	0.998	0.926	0.966	1.022	1.063	0.824	0.692	>5	NA	34	1.057	1.013	1.105	1.090	0.786	0.831	>5	NA
IPI00555838	MARK2	MARK2	1154	87	15	1.088	0.986	0.910	0.836	0.828	0.630	0.600	0.533	>5	0.133	21	1.014	1.114	0.906	0.872	0.936	1.003	0.763	0.667	>5	NA	18	1.105	1.121	1.313	0.998	0.777	0.831	>5	NA
IPI00183118	MARK3	MARK3	670	44	8	1.199	1.090	1.011	0.884	0.795	0.732	0.703	0.597	>5	0.102	9	1.013	1.083	0.926	0.970	0.938	0.997	0.726	0.695	>5	NA	10	1.173	1.036	1.174	1.063	0.789	0.797	>5	NA
IPI00064797	MARK4	MARK4	278	19	2	1.222	1.192	1.339	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	0.837	0.643	0.927	0.859	0.693	0.489	>5	2.950	1	1.359	0.879	0.359	1.220	2.171	0.762	>5	0.335
IPI00412253	MCCC2		103	8	2	1.022	1.058	0.948	NA	0.613	NA	0.416	NA	0.235	0.054	2	0.837	0.951	0.820	1.013	1.070	0.755	0.937	0.626	>5	NA	1	NA	1.140	NA	0.836	NA	0.979	>5	NA
IPI00291006	MDH2		176	12	4	1.313	1.246	1.238	0.899	1.022	0.812	0.831	0.747	>5	NA	5	1.399	1.362	1.438	1.064	1.188	1.264	0.892	0.649	>5	NA	4	1.008	0.972	1.000	0.992	0.813	0.790	>5	NA
IPI00006471	MELK	MELK	247	23	7	0.958	0.889	0.986	0.744	1.046	0.764	0.709	0.606	>5	NA	9	1.010	1.249	0.915	1.072	1.209	1.096	0.949	0.735	>5	NA	5	1.180	1.002	1.275	1.047	0.809	0.645	>5	NA
IPI00029756	MERTK	MER	152	13	3	1.176	1.214	1.026	NA	0.680	NA	0.385	NA	0.154	0.098	3	0.943	0.944	1.002	1.134	1.212	1.060	0.924	0.631	>5	NA	3	1.147	0.880	1.046	0.853	1.174	0.717	>5	NA
IPI00294528	MET	MET	259	12	1	0.443	1.051	0.574	NA	NA	NA	NA	NA	>5	NA	7	0.794	0.678	0.848	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00063242	MGC5352		43	3	1	NA	NA	1.016	0.658	0.915	0.555	0.441	0.406	0.793	0.191	1	NA	NA	1.131	NA	0.679	NA	0.812	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00293276	MIF		492	231	111	0.838	0.925	0.870	0.870	0.875	0.856	0.651	0.761	>5	NA	102	0.821	0.963	0.900	1.013	0.979	0.975	0.716	0.653	>5	NA	77	0.983	0.977	1.072	1.025	0.842	0.855	>5	NA
IPI00294701	MNAT1		845	58	29	0.991	1.008	0.957	0.831	0.817	0.724	0.627	0.662	>5	NA	24	0.921	0.991	1.010	1.063	1.131	0.964	0.924	0.673	>5	NA	16	1.115	0.978	1.213	1.064	0.919	0.784	>5	NA
IPI00514912	MSN		104	9	3	1.651	1.267	1.369	0.839	0.930	0.939	0.517	0.731	>5	0.419	3	NA	NA	0.958	1.110	1.538	1.076	1.026	0.584	>5	2.265	3	0.898	0.933	1.202	1.270	0.604	1.078	>5	NA
IPI00513678	mTOR	FRAP	213	23	5	0.951	1.058	0.877	NA	NA	NA	NA	NA	>5	NA	6	1.303	1.159	1.164	NA	NA	NA	NA	NA	>5	NA	1	1.090	NA	1.098	NA	0.894	NA	>5	NA
IPI00397526	MYH10		206	22	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	5	NA	NA	NA	1.812	NA	1.668	NA	0.777	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00161341	MYH9		88	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	0.986	NA	1.877	NA	0.827	>5	NA
IPI00306531	NCK2		417	32	6	0.896	0.849	0.497	0.290	0.336	0.187	0.211	0.117	0.010	0.008	8	1.355	1.169	0.469	0.192	0.373	0.233	0.228	0.149	0.010	0.008	13	0.762	0.718	0.979	0.956	0.614	0.473	>5	2.776
IPI00604620	NCL		124	7	2	NA	NA	0.869	NA	0.867	NA	0.650	NA	>5	NA	2	1.559	1.588	1.789	1.341	NA	1.073	NA	1.070	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00021331	NEK2	NEK2	636	52	13	1.016	1.022	1.110	0.960	1.076	0.801	0.824	0.538	>5	1.461	17	0.874	1.111	1.091	1.175	1.416	1.354	1.031	0.844	>5	NA	11	1.188	1.020	1.359	1.175	1.114	1.061	>5	NA
IPI00301609	NEK9	NEK9	2812	264	150	0.820	0.928	0.881	0.873	0.827	0.773	0.557	0.604	>5	0.550	110	1.067	0.929	0.880	1.158	0.934	0.881	0.847	0.881	>5	NA	108	0.778	0.739	0.917	0.933	0.749	0.766	>5	NA
IPI00008237	NLK	NLK	549	92	16	0.940	0.943	0.898	0.769	0.825	0.659	0.541	0.363	1.442	1.190	12	1.119	1.195	0.923	0.885	0.922	0.695	0.443	0.326	0.827	0.409	10	1.199	1.103	1.170	1.076	0.849	0.820	>5	NA
IPI00375531	NME1		143	9	2	NA	NA	0.828	0.509	0.745	0.705	0.520	0.519	>5	0.132	3	1.102	1.293	1.217	1.089	1.125	1.301	0.661	0.694	>5	NA	3	NA	1.175	NA	1.257	NA	0.725	>5	NA
IPI00026260	NME2		143	9	3	1.198	1.133	1.301	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	0.865	NA	0.894	NA	0.578	NA	>5	NA	2	1.224	NA	1.435	NA	1.063	NA	>5	NA
IPI00216654	NOLC1		58	0	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	1.458	1.186	1.231	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00304596	NONO		98	12	2	1.361	1.022	1.200	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	3.870	NA	2.925	0.754	2.632	0.519	>5	0.548	3	1.072	NA	1.204	NA	0.720	NA	>5	NA
IPI00395632	NPM1	ALK	74	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.126	NA	0.906	NA	0.975	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00549248	NPM1		74	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.126	NA	0.906	NA	0.975	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00012069	NQO1		306	21	7	0.935	0.996	1.034	0.948	0.889	0.736	0.882	0.711	>5	NA	9	1.073	1.374	1.012	1.009	1.237	0.932	0.875	0.646	>5	NA	7	1.152	1.040	0.983	1.052	0.864	0.777	>5	NA
IPI00219129	NQO2		1717	600	338	0.889	0.969	0.970	0.895	0.888	0.826	0.681	0.760	>5	NA	356	0.973	0.961	0.965	0.970	1.012	0.960	0.824	0.680	>5	NA	167	0.871	0.738	0.636	0.447	0.278	0.225	0.214	0.157
IPI00025076	NTRK1	TRKA	735	61	24	0.800	1.016	0.824	0.907	0.842	0.833	0.606	0.679	>5	NA	23	0.763	0.750	0.936	0.935	0.864	0.965	0.776	0.623	>5	NA	21	1.012	1.145	1.059	1.161	0.989	1.018	>5	NA
IPI00217223	PAICS		497	31	10	1.165	1.193	1.088	0.880	0.849	0.819	0.555	0.611	>5	0.228	10	1.200	1.262	0.885	0.809	0.785	0.880	0.534	0.646	>5	0.100	6	1.351	1.252	1.265	1.227	0.942	0.950	>5	NA
IPI00014068	PAK4	PAK4	841	80	21	1.139	1.095	0.929	0.778	0.663	0.681	0.479	0.556	>5	0.043	17	1.007	1.186	0.894	0.940	0.904	0.889	0.706	0.707	>5	NA	20	1.271	1.084	1.352	1.131	1.038	0.899	>5	NA

IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	bosutinib											dasatinib											imatinib								
					highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at 0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM	[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
IPI00449049	PARP1		81	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	1.081	NA	1.552	NA	1.499	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00553006	PARS2		49	4	1	NA	NA	1.155	NA	1.003	NA	1.600	NA	>5	NA	1	NA	NA	NA	0.541	NA	0.722	NA	0.283	1.841	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00016610	PCBP1		240	14	6	1.052	1.144	1.065	0.790	0.954	0.794	0.626	0.678	>5	NA	6	1.008	1.055	1.002	0.775	1.113	0.919	0.911	0.596	>5	1.965	5	0.968	0.949	1.222	1.118	0.786	0.868	>5	NA
IPI00216689	PCBP2		86	5	1	NA	NA	NA	0.548	NA	0.504	NA	0.539	>5	NA	1	NA	NA	NA	0.687	NA	1.280	NA	1.018	>5	NA	2	0.820	NA	0.693	NA	0.703	NA	>5	NA
IPI00000690	PDCD8		69	7	1	0.926	1.049	1.191	NA	NA	NA	NA	NA	>5	NA	1	0.965	1.049	0.980	0.814	0.913	1.132	0.609	1.110	>5	NA	1	0.747	0.891	1.063	0.891	0.540	0.984	>5	1.386
IPI00306301	PDHA1		38	6	3	0.701	0.665	0.646	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00003925	PDHB		78	3	1	0.633	0.924	0.596	NA	NA	NA	NA	NA	>5	NA	2	0.373	0.564	0.439	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00298423	PDHX		177	6	3	0.447	0.604	0.535	NA	NA	NA	NA	NA	>5	NA	3	0.427	0.566	0.583	NA	NA	NA	NA	NA	>5	NA	2	0.999	0.954	1.239	1.174	1.109	0.978	>5	NA
IPI00299571	PDIA6		71	3	1	NA	NA	NA	1.132	NA	1.316	NA	0.748	>5	NA	1	NA	NA	1.272	1.418	1.577	1.240	1.003	1.307	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00002538	PDPK1	PDK1	713	50	14	0.982	1.010	0.916	0.756	0.793	0.690	0.658	0.622	>5	NA	15	1.143	1.146	1.015	0.861	0.929	0.975	0.708	0.677	>5	NA	14	0.926	0.930	1.230	1.048	0.818	0.883	>5	NA
IPI00018235	PEF1		107	1	1	0.740	0.896	1.109	NA	NA	NA	NA	NA	>5	NA	2	0.759	0.959	0.902	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00216691	PFN1		162	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	2.471	2.699	3.298	NA	NA	NA	NA	NA	>5	NA	2	0.917	NA	0.840	NA	0.649	NA	>5	NA
IPI00169383	PGK1		134	12	2	NA	NA	NA	0.792	NA	0.988	NA	0.558	>5	NA	3	0.743	0.877	1.110	1.009	1.247	1.077	0.781	0.754	>5	NA	3	1.127	0.919	1.056	0.900	0.826	0.721	>5	NA
IPI00017334	PHB		210	9	3	0.924	0.912	0.861	0.765	NA	0.852	NA	0.596	>5	0.549	4	0.732	0.867	0.910	0.937	1.182	0.999	0.740	0.898	>5	NA	3	1.264	1.482	1.194	1.534	1.020	1.174	>5	NA
IPI00027252	PHB2		244	16	6	0.749	0.763	0.843	0.747	0.767	0.746	0.788	0.769	>5	NA	6	0.676	0.760	0.848	0.890	1.058	1.031	0.839	0.841	>5	NA	4	1.129	0.861	1.096	0.995	1.060	0.842	>5	NA
IPI00011200	PHGDH		138	12	2	NA	NA	0.973	1.066	1.048	0.895	0.704	0.751	>5	NA	4	0.976	0.935	0.986	1.002	0.858	1.018	0.666	0.719	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00292056	PIK3C2B	PIK3C2b	78	12	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.764	NA	0.746	NA	0.569	>5	NA
IPI00009688	PIP5K2A	PIP5K2A	101	7	1	0.631	0.878	1.136	0.586	0.807	0.634	0.717	0.676	>5	NA	2	0.966	1.157	1.104	0.686	0.999	0.828	0.726	0.669	>5	NA	1	1.163	1.139	0.916	0.956	0.822	0.468	4.187	1.999
IPI00216470	PIP5K2B	PIP5K2B	44	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	0.781	1.284	1.022	NA	1.329	NA	0.857	NA	>5	NA	1	1.074	1.721	0.942	1.022	0.648	1.061	>5	NA
IPI00152303	PIP5K2C	PIP5K2C	169	6	5	0.847	0.707	0.937	0.734	1.114	0.696	0.625	0.404	2.635	0.990	4	1.010	1.089	1.287	NA	0.884	NA	0.708	NA	>5	NA	1	0.836	NA	0.870	NA	0.364	NA	0.586	NA
IPI00220644	PKM2		170	13	2	0.895	1.177	0.887	0.580	0.734	0.827	0.447	0.329	1.048	0.430	4	1.306	1.646	1.368	1.181	1.520	1.082	0.851	0.640	>5	NA	5	1.043	0.944	1.014	1.011	0.747	0.796	>5	NA
IPI00384765	PKMYT1	MYT1	866	71	32	1.026	0.957	0.945	0.722	0.646	0.489	0.380	0.255	0.297	0.131	32	0.958	1.067	0.966	0.972	0.934	0.755	0.583	0.342	1.489	0.746	24	1.162	0.937	1.065	0.999	0.755	0.758	>5	NA
IPI00412672	PKN1	PKN1	179	17	3	NA	NA	0.808	0.914	0.805	0.888	0.577	0.554	>5	2.937	3	NA	NA	0.760	1.259	0.935	1.143	0.651	0.599	>5	0.771	3	1.430	1.243	1.267	0.967	0.946	0.913	>5	NA
IPI00413780	PKN3	PKN3	149	20	3	1.031	0.933	0.877	0.647	1.061	0.731	0.650	0.542	>5	0.516	3	0.857	0.894	0.852	0.726	0.825	0.997	0.589	0.596	>5	0.168	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00410344	PLK4	PLK4	250	12	5	1.226	1.218	1.059	0.843	0.830	0.897	0.858	0.668	>5	NA	4	0.781	1.186	0.994	0.904	1.168	1.190	0.927	0.691	>5	NA	3	0.723	1.326	0.985	1.222	0.841	0.958	>5	NA
IPI00026829	PLS3		48	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.275	0.838	1.260	1.094	0.822	0.737	>5	NA
IPI00455547	POTE2		403	22	2	1.058	1.099	1.038	NA	NA	NA	NA	NA	>5	NA	2	1.638	2.379	1.622	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00480133	PPIA		356	23	7	1.234	1.314	1.150	0.938	0.952	1.039	0.802	0.744	>5	NA	9	1.353	1.604	1.623	1.161	1.196	1.512	0.925	0.690	>5	NA	12	1.142	0.885	0.922	0.860	0.862	0.698	>5	NA
IPI00008380	PPP2CA		187	6	2	1.047	1.091	0.881	NA	0.819	NA	0.468	NA	0.892	0.262	4	1.064	1.169	0.804	0.702	0.809	1.154	0.555	0.557	>5	0.371	3	0.855	0.867	0.955	1.028	0.627	0.759	>5	NA
IPI00419307	PPP2R1A		233	16	5	1.043	1.045	0.837	0.730	0.769	0.784	0.666	0.478	>5	0.647	5	1.299	1.152	0.835	0.940	0.844	0.882	0.572	0.555	>5	0.399	3	1.024	0.711	1.029	0.878	0.771	0.622	>5	NA
IPI00332511	PPP2R2A		128	5	3	1.104	1.054	1.138	0.737	1.110	0.611	0.832	0.522	>5	0.839	4	1.391	1.449	1.076	1.111	NA	1.101	NA	0.699	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00184845	PPP2R2D		116	11	3	1.076	0.945	0.885	NA	0.692	NA	0.433	NA	0.559	0.166	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00000874	PRDX1		331	17	8	1.024	1.092	1.282	0.862	1.021	0.914	0.834	0.652	>5	NA	7	0.991	1.152	1.173	0.979	1.328	1.236	0.890	0.654	>5	NA	8	1.075	1.118	0.986	1.056	0.847	0.855	>5	NA
IPI00011937	PRDX4		195	12	3	1.408	1.249	1.381	0.888	1.225	0.768	0.734	0.681	>5	NA	3	0.861	1.016	1.246	1.152	1.038	1.010	0.764	0.603	>5	NA	3	1.010	1.008	1.180	1.268	0.793	1.089	>5	NA
IPI00220301	PRDX6		228	14	7	0.839	0.989	1.131	0.754	0.982	0.734	0.694	0.658	>5	NA	6	1.039	1.066	1.088	0.859	1.097	1.053	0.957	0.594	>5	2.004	4	1.149	0.990	0.976	1.088	0.923	0.900	>5	NA
IPI00410287	PRKAA1	AMPKa1	1991	242	114	0.937	0.916	0.888	0.820	0.772	0.717	0.595	0.426	2.463	0.981	114	1.019	1.013	0.964	1.049	0.998	0.980	0.778	0.667	>5	NA	76	1.087	1.029	1.025	1.039	0.841	0.845	>5	NA
IPI00220409	PRKAB1		683	98	26	0.924	1.148	1.065	0.915	0.917	0.733	0.646	0.563	>5	0.221	21	0.960	1.232	1.008	1.066	1.237	0.960	1.014	0.728	>5	NA	21	1.106	1.007	1.192	1.015	0.900	0.899	>5	NA
IPI00013905	PRKAB2		489	38	11	1.078	1.163	1.093	0.886	1.037	0.844	0.702	0.497	>5	1.014	11	0.850	0.933	1.003	0.997	1.070	1.036	0.791	0.727	>5	NA	5	1.211	1.042	1.041	1.014	0.716	0.956	>5	NA
IPI00413318	PRKAG1		1670	162	87	0.998	1.040	0.990	0.884	0.859	0.753	0.596	0.475	3.386	0.519	87	1.035	1.113	0.957	1.027	1.087	1.006	0.838	0.717	>5	NA	59	1.141	0.965	1.203	1.012	0.862	0.837	>5	NA
IPI00005367	PRKAG2		613	43	7	1.063	1.221	0.980	0.781	0.815	0.729	0.576	0.436	2.349	0.291	7	1.022	0.979	0.981	0.880	0.943	0.922	0.696	0.661	>5	NA	5	1.222	1.112	1.374	0.885	0.992	1.085	>5	NA
IPI00385449	PRKCA	PKCa	711	68	2	1.265	1.404	1.167	0.901	0.912	0.712	0.603	0.580	>5	0.204	5	0.807	0.908	0.747	0.909	1.103	1.138	0.703	0.543	>5	0.940	5	2.255	2.182	1.787	1.614	1.272	1.155	>5	NA
IPI00219628	PRKCB1	PKCb	1219	265	47	0.993	0.845	0.897	0.920	0.752	0.707	0.610	0.620	>5	NA	35	0.742	0.889	0.789	0.727	1.001	1.056	0.645	0.518	>5	0.829	20	1.987	1.550	1.755	1.090	1.079	0.784	>5	NA
IPI00329236	PRKCD	PKCd	265	26	2	1.054	1.164	1.060	0.733	NA	0.646	NA	0.442	>5	0.025	3	NA	NA	NA	0.659	NA	0.815	NA	0.496	4.430	NA	4	1.079	0.980	1.284	0.998	0.903	0.765	>5	NA
IPI00029196	PRKCQ	PKCt	497	56	10	1.103	1.028	0.882	0.795	0.696	0.698	0.531	0.420	1.611	0.209	16	0.939	1.021	0.956	0.872	1.009	1.007	0.762	0.721	>5	NA	12	1.296	1.154	1.247	1.020	0.899	0.826	>5	NA
IPI00009334	PRKD2	PKD2	332	30	3	1.004	0.962	0.728	0.868	0.839	0.814	0.604	0.653	>5	NA	4	1.402	0.920	1.588	1.123	0.967	1.216	0.816	0.658	>5	NA	4	1.263	0.975	1.085	1.085	0.684	0.886	>5	NA
IPI00015538	PRKD3	PKD3	173	10	1	NA	NA	1.023	1.018	0.684	0.728	0.456	0.568	>5	0.079	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.939	NA	0.544	NA	0.685	>5	NA
IPI00296337	PRKDC	DNAPK	3107	125	85	0.819	0.894	0.848	0.812	0.762	0.706	0.633	0.579	>5	0.565	76	1.009	0.926	0.936	0.865	1.086	0.993	0.784	0.654	>5	NA	29	1.153	1.088	1.176	1.098	0.826	0.852	>5	NA
IPI00028004	PSMB3		45	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	1.130	NA	1.483	NA	0.692	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00375380	PSMD13		57	2	1	1.070	0.802	1.034	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.440	NA	1.724	NA	1.336	NA	>5	NA	1	1.510	NA	1.239	NA	0.525	NA	>5	NA
IPI00384051	PSME2		58	5	1	NA	NA	NA	1.059	NA	1.031	NA	0.543	>5	NA	1	NA	NA	NA	NA	NA	0.571	NA	0.567	>5	NA	1	NA	0.605	NA	0.542	NA	0.544	>5	NA
IPI00170554	PSTPIP2		413	27	10	1.002	0.918	0.808	0.523	0.463	0.297	0.234	0.207	0.057	0.031	2	1.052	1.143	1.015	0.255	NA	0.322	NA	0.162	0.018	0.015	11	0.791	0.844	0.971	1.155	0.935	1.034	>5	NA
IPI00183626	PTBP1		187	9	2	1.016	1.103	1.400	0.835	0.718	0.808	0.394	0.423	0.907	0.136	2	1.129	1.191	1.016	NA	0.844	1.280	0.775	0.458	1.452	1.000	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00413961	PTK2	FAK	3012	363	159	1.064	1.055	0.945	0.844	0.777	0.721	0.468	0.371	1.256	0.572	163	0.978	0.987	0.913	1.042	0.953	1.019	0.808	0.717	>5	NA	116	1.103	0.989	1.097	1.056	0.849	0.875	>5	NA
IPI00029702	PTK2B	PYK2	2312	220	91	0.976	0.961	0.941	0.786	0.810	0.712	0.562	0.403	1.956	0.980	69	1.110	1.146	1.089	0.969	1.089	0.997	0.839	0.757	>5	NA	76	1.086	0.963	1.071	0.945	0.853	0.774	>5	NA
IPI00219132	PTPN18		206	13	2	NA	NA	0.671	0.566	0.565	0.286	0.292	0.218	0.075	0.045	1	0.861	0.610	0.500	NA	NA	NA	NA	NA	>5	NA	4	0.707	0.904	1.137	1.218	0.821	1.079	>5	NA
IPI00329200	RANBP5		137	7	2	1.480	1.281	1.307	1.057	1.562	0.911	1.863	0.914	>5	NA	3	1.084	0.650	0.971	0.530	0.751	0.644	0.887	0.497	>5	NA	2	0.697	0.831	0.756	0.630	0.423	0.580	>5	0.086
IPI00026262	RASGAP		120	12	1	NA	NA	0.470	0.385	0.317	0.179	0.156	0.158	0.009	0.005	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	3	0.868	0.845	1.075	0.879	0.775	0.588	>5	1.121
IPI00465044	RCC2		148	12	4	0.917	1.199	1.105	0.772	NA	0.820	NA	0.790	>5	NA	6	NA	NA	1.320	0.837	1.672	0.914	0.761	0.485	3.356	1.053	2	1.292	0.667	1.293	0.584	1.006	0.545	>5	0.188
IPI00607634	RGPD1		152	15	1	0.903	0.829	0.801	NA	NA	NA	NA	NA	>5	NA	1	1.021	1.525	1.323	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00021917	RIPK2	RIPK2	1532	159	87	1.026	0.961	0.962	0.843	0.803	0.778	0.610	0.565	>5	0.317	46	1.027	1.108	0.851	0.446	0.514	0.329	0.329	0.190	0.047	0.019	61	1.147	0.922	1.212	0.973	0.897	0.854	>5	NA
IPI00397801	RP1-14N1 3		214	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	0.624	NA	0.742	NA	0.348	NA	0.566	NA	3	NA	0.533	NA	2.670	NA	0.742	>5	NA
IPI00387164	RPS27A		214	16	6	0.992	0.928	0.854	0.749	NA	0.605	0.614	0.319	1.199	0.986	4	0.950	0.975	0.994	NA	NA	NA	NA	NA	>5	NA	5	NA	0.927	NA	0.985	NA	0.899	>5	NA
IPI00477982	RPS6KA1	RSK3	2320	260	93	0.926	0.972	0.875	0.803	0.755	0.709	0.613	0.617	>5	NA	88	0.975	0.935	0.824	0.924	0.970	1.006	0.780	0.642	>5	NA	66	1.172	1.047	1.165	1.003	0.850	0.898	>5	NA
IPI00300321	RPS6KA2	RSK1	558	56	2	0.965	0.878	0.890	0.895	0.808	0.773	0.582	0.628	>5	0.252	2	NA	NA	0.665	NA	1.044	NA	0.678	NA	>5	NA	2	0.955	0.953	1.057	1.286	0.869	1.012	>5	NA
IPI00020898	RPS6KA3	RSK2	1280	130	11	1.062	1.201	0.972	0.760	0.947	0.708	0.588	0.544	>5	0.123	8	1.136	1.176	0.665	0.963	0.783	0.954	0.613	0.620	>5	NA	12	1.118	1.028	1.180	1.059	0.691	0.763	>5	NA
IPI00021187	RUVBL1		49	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	0.590	NA	1.127	NA	0.751	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00013895	S100A11		46	2	1	NA	NA	NA	0.544	NA	0.597	NA	0.538	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.284	NA	1.151	NA	1.266	NA	>5	NA
IPI00007047	S100A8		56	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.390	NA	0.583	NA	2.292	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00003734	SBSN		63	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.310	NA	4.532	NA	0.530	>5	NA
IPI00305166	SDHA		90	3	1	1.182	0.844	1.139	NA	NA	NA	NA	NA	>5	NA	1	0.995	0.981	0.985	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00375370	SEC13L1		166	8	3	0.700	0.958	0.854	1.052	1.229	0.662	0.830	0.506	>5	0.221	4	1.297	1.630	2.686	NA	0.917	0.946	1.032	0.626	>5	NA	3	1.729	0.813	1.625	1.092	1.259	1.040	>5	NA
IPI00218466	SEC61A1		206	6	4	0.889	0.978	0.931	0.722	NA	0.674	NA	0.606	>5	NA	3	1.205	1.219	1.216	0.880	NA	1.139	NA	0.740	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00027444	SERPINB1		38	2	1	1.073	1.267	1.396	0.719	NA	0.686	NA	0.577	>5	0.029	1	1.072	1.150	1.014	NA	1.283	NA	0.857	NA	>5	NA	1	NA	1.144	NA	1.219	NA	1.219	>5	NA
IPI00072377	SET		141	8	3	1.317	1.194	1.277	0.865	NA	1.528	NA	0.641	>5	NA	3	1.464	1.409	1.426	1.170	1.172	1.053	0.963	0.930	>5	NA	1	1.026	0.655	1.513	0.953	0.601	1.166	>5	NA
IPI00010740	SFPQ		135	11	3	0.709	0.703	0.933	0.868	NA	0.783	NA	0.591	>5	0.032	1	NA	NA	0.656	NA	1.478	NA	1.051	NA	>5	NA	3	0.909	0.925	1.055	0.992	0.807	0.867	>5	NA
IPI00021326	SHC1		316	29	3	0.910	0.908	0.688	0.526	0.843	0.444	0.437	0.245	0.340	0.664	3	0.877	0.607	0.538	NA	NA	NA	NA	NA	>5	NA	4	1.150	0.806	0.942	0.571	0.672	0.412	1.987	0.306
IPI00002191	SIAHBP1		58	1	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.739	NA	1.264	NA	1.288	>5	NA
IPI00234463	SIMILAR TO		576	51	2	0.645	0.575	0.634	NA	NA	NA	NA	NA	>5	NA	3	NA	NA	NA	NA	NA	1.571	NA	0.850	>5	NA	17	1.135	NA	1.062	NA	0.969	NA	>5	NA
IPI00258965	SIMILAR TO		67	3	2	1.238	1.252	1.390	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00097175	SIMILAR TO		55	2	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.514	1.298	1.655	NA	NA	NA	NA	NA	>5	NA	1	NA	0.574	NA	0.966	NA	0.479	2.540	NA
IPI00047508	SIMILAR TO		42	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	1.008	NA	0.840	NA	0.819	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00047744	SIMILAR TO		58	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.181	1.016	1.564	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00082894	SIMILAR TO		51	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	1.080	NA	0.698	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00022202	SLC25A3		240	16	6	0.975	0.953	0.927	0.748	0.831	0.562	0.564	0.745	>5	0.036	6	0.836	0.931	1.006	NA	1.028	1.012	0.914	0.533	>5	9.490	5	0.936	1.020	0.985	1.051	0.803	0.796	>5	NA
IPI00007188	SLC25A5		196	17	6	0.924	0.860	0.903	0.796	0.718	0.685	0.587	0.581	>5	0.097	5	0.851	0.996	0.855	0.880	0.948	0.770	0.626	0.578	>5	0.369	6	1.201	0.980	1.255	1.036	0.921	0.804	>5	NA
IPI00554481	SLC3A2		44	2	1	NA	NA	0.830	NA	0.839	NA	0.423	NA	0.596	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00008986	SLC7A5		273	7	7	0.788	1.044	0.980	NA	NA	NA	NA	NA	>5	NA	4	0.814	0.865	0.849	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00022827	SLK	SLK	434	35	5	1.019	0.940	0.846	0.701	0.460	0.608	0.156	0.332	0.151	0.055	6	0.888	1.173	0.866	0.747	1.019	0.924	0.802	0.544	>5	1.212	9	1.144	1.183	1.027	0.898	0.707	0.630	>5	NA
IPI00465291	SNF1LK2	QIK	723	56	18	1.012	0.965	0.791	0.502	0.412	0.277	0.258	0.172	0.045	0.024	16	0.931	1.046	0.659	0.367	0.335	0.278	0.196	0.170	0.020	0.013	19	1.104	0.908	1.153	0.942	0.871	0.824	>5	NA
IPI00017469	SPR		320	16	7	0.946	0.989	0.873	0.766	0.839	0.798	0.522	0.569	>5	0.349	6	0.867	0.932	0.916	0.788	0.994	0.911	0.618	0.547	>5	0.759	6	1.203	0.967	1.192	1.018	0.965	0.742	>5	NA
IPI00328867	SRC	SRC	1622	164	34	1.090	0.997	0.797	0.563	0.420	0.320	0.182	0.179	0.057	0.026	25	0.996	0.955	0.401	0.205	0.204	0.199	0.134	0.123	0.007	0.006	39	1.208	1.149	1.103	0.974	0.933	0.942	>5	NA
IPI00477842	SRP46		76	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	0.753	1.048	0.999	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00642816	SRP9		64	6	1	1.296	1.111	1.198	1.600	NA	0.550	NA	0.425	0.376	0.249	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00306833	STK16	MPSK1	141	11	2	1.074	1.029	0.942	0.852	0.847	0.822	0.503	0.678	>5	0.084	4	NA	NA	0.617	0.884	1.138	0.969	0.744	0.595	>5	0.992	3	NA	1.080	NA	1.279	NA	1.029	>5	NA
IPI00477195	STOML2		70	3	2	0.873	0.936	0.753	0.701	NA	1.175	NA	0.485	>5	0.126	1	NA	NA	NA	1.124	NA	1.941	NA	1.198	>5	NA	2	1.003	NA	1.553	NA	0.890	NA	>5	NA
IPI00154910	STS-1		1226	115	26	1.144	0.933	0.330	0.205	0.162	0.174	0.114	0.116	0.006	0.005	22	1.154	0.694	0.309	0.188	0.228	0.205	0.168	0.147	0.002	0.002	37	0.730	0.607	0.682	0.443	0.310	0.223	0.217	0.675

					bosutinib											dasatinib											imatinib								
IPI acc. no.	Protein	Kinase	highest Mascot score	highest SSM	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at								[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)	highest SSM used for quantification	kinobeads binding relative to vehicle at						[cpd] causing 50% binding reduction (uM)	[cpd] at inflection point of curve (uM)
						0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM				0.0001 uM	0.001 uM	0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM				0.01 uM	0.033 uM	0.1 uM	0.33 uM	1.0 uM	5.0 uM		
IPI00221222	SUB1		141	8	3	1.175	0.923	1.158	0.300	0.346	0.686	0.482	0.500	0.022	0.018	2	1.151	0.999	0.798	1.309	0.829	0.987	0.632	0.690	>5	NA	3	0.808	0.668	0.582	0.612	0.958	0.424	>5	0.418
IPI00005737	SURF4		192	4	3	1.192	1.063	0.884	NA	0.766	NA	0.401	NA	0.463	0.181	4	1.072	1.250	1.393	NA	NA	0.502	NA	0.406	0.331	0.191	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00018597	SYK	SYK	1012	78	20	0.857	1.020	0.644	0.333	0.323	0.239	0.195	0.167	0.017	0.013	17	1.105	0.835	0.530	0.303	0.377	0.290	0.276	0.185	0.011	0.005	25	0.952	0.883	1.104	1.070	0.760	0.755	>5	NA
IPI00299166	TANK		701	60	21	1.048	1.073	0.970	0.848	0.835	0.752	0.523	0.392	1.740	0.796	23	1.032	1.137	1.213	0.960	0.986	0.994	0.760	0.722	>5	NA	21	0.911	0.871	0.962	1.012	0.825	0.835	>5	NA
IPI00002232	TAOK1	TAO1	184	17	1	NA	NA	0.965	0.808	1.054	0.886	0.712	0.476	3.146	1.033	1	NA	NA	NA	NA	NA	1.071	NA	0.455	2.430	NA	1	1.419	NA	0.843	NA	1.466	NA	>5	NA
IPI00465168	TAOK2	TAO2	243	20	7	1.055	1.017	1.045	NA	0.761	NA	0.483	NA	0.295	0.100	5	1.073	1.145	0.870	1.008	0.835	0.735	0.615	0.687	>5	NA	3	1.216	1.156	1.370	1.220	0.944	0.927	>5	NA
IPI00410485	TAOK3	TAO3	244	23	6	0.987	0.921	0.862	0.904	0.911	0.716	0.725	0.731	>5	NA	5	0.908	1.017	0.984	0.814	1.523	1.342	0.920	0.597	>5	0.656	2	1.580	1.486	1.243	1.228	1.175	1.065	>5	NA
IPI00293613	TBK1	TBK1	3207	380	179	1.096	1.030	0.932	0.830	0.770	0.683	0.498	0.311	1.039	0.695	202	1.114	1.132	0.989	0.936	0.981	1.018	0.782	0.677	>5	NA	144	1.094	1.008	1.122	1.004	0.855	0.812	>5	NA
IPI00006064	TBKBP1		857	69	18	1.052	1.070	0.922	0.840	0.756	0.652	0.510	0.354	1.143	0.509	17	1.028	1.055	1.074	1.049	1.003	1.056	0.744	0.635	>5	NA	15	1.022	0.835	1.130	1.004	0.744	0.714	>5	NA
IPI00000878	TEC	TEC	2570	279	127	0.988	0.946	0.704	0.572	0.534	0.481	0.383	0.354	0.121	0.013	75	1.046	0.960	0.558	0.458	0.390	0.235	0.206	0.131	0.024	0.014	116	0.926	0.895	0.990	0.942	0.706	0.660	>5	NA
IPI00018182	TESK1	TESK1	39	4	1	0.956	1.291	0.847	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00102677	TESK2	TESK2	317	28	7	1.283	1.372	1.112	0.808	0.881	0.658	0.710	0.562	>5	0.122	5	1.029	1.247	0.855	0.703	0.712	0.532	0.428	0.326	0.378	0.102	7	1.072	1.014	1.093	0.969	0.893	0.843	>5	NA
IPI00005733	TGFBR1	TGFbR1	341	26	8	1.059	1.147	0.945	0.682	0.848	0.598	0.648	0.489	>5	0.038	7	1.100	1.119	0.844	0.882	0.880	0.879	0.685	0.478	>5	1.107	9	1.397	0.991	1.260	1.036	0.807	0.879	>5	NA
IPI00164934	TGFBR2	TGFbR2	86	9	1	0.906	0.918	1.035	NA	0.762	NA	0.398	NA	0.206	0.124	2	NA	NA	NA	0.749	NA	0.802	NA	0.423	2.450	NA	2	NA	1.153	NA	1.035	NA	0.594	>5	NA
IPI00328840	THOC4		62	9	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	0.971	NA	0.871	NA	0.594	>5	NA	1	1.117	1.274	1.067	1.039	0.695	1.208	>5	NA
IPI00021716	TKT		91	6	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	1.109	1.003	1.576	1.356	0.998	0.680	>5	NA	2	1.331	NA	0.901	NA	0.900	NA	>5	NA
IPI00298994	TLN1		102	18	3	NA	NA	NA	0.473	NA	0.841	NA	0.367	1.618	NA	2	NA	NA	1.537	0.938	0.784	1.321	0.631	0.930	>5	NA	2	1.542	0.723	1.448	1.482	1.631	1.129	>5	NA
IPI00145805	TNIK	ZC2_TNIK	343	36	3	1.102	0.990	0.859	NA	0.776	NA	0.657	NA	>5	NA	8	0.807	0.862	0.955	0.913	0.865	0.948	0.603	0.431	3.187	4.884	6	1.099	1.014	1.602	1.048	1.239	0.837	>5	NA
IPI00022633	TNK1	TNK1	779	72	29	1.141	1.147	0.984	0.770	0.782	0.755	0.570	0.586	>5	0.082	22	1.029	1.242	0.963	0.986	0.917	1.034	0.734	0.673	>5	NA	20	1.201	0.988	1.172	1.037	0.942	0.924	>5	NA
IPI00442025	TNK2	ACK	435	32	10	1.044	1.063	0.879	0.575	0.612	0.457	0.349	0.267	0.162	0.039	7	1.081	1.214	0.809	NA	0.582	0.435	0.419	0.201	0.202	0.092	12	1.335	0.874	1.283	0.977	0.955	0.833	>5	NA
IPI00465028	TPI1		121	9	3	1.066	1.286	1.209	0.654	0.996	1.339	0.642	0.776	>5	NA	3	NA	NA	0.781	0.998	1.427	0.859	0.893	0.679	>5	NA	3	1.041	1.034	1.460	1.186	1.137	0.854	>5	NA
IPI00027230	TRA1		209	13	2	NA	NA	NA	0.728	NA	0.751	NA	0.605	>5	NA	4	NA	NA	NA	0.877	NA	1.088	NA	0.647	>5	NA	3	1.241	NA	1.035	NA	0.949	NA	>5	NA
IPI00292635	TRAF2		486	38	10	1.095	1.167	0.888	0.763	0.752	0.687	0.469	0.344	0.904	0.329	16	0.732	1.034	1.006	0.882	0.940	0.893	0.726	0.653	>5	NA	8	1.021	1.154	1.118	0.992	0.842	0.942	>5	NA
IPI00432462	TRIM59		145	11	3	NA	NA	NA	0.663	NA	0.725	NA	0.439	2.575	NA	2	0.649	0.649	1.080	NA	1.027	NA	0.633	NA	>5	NA	2	NA	1.085	NA	0.864	NA	0.916	>5	NA
IPI00118840	TRIP4		60	5	1	1.652	1.176	1.335	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00550503	TTC14		55	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	0.940	NA	0.526	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00179709	TUBA2		691	23	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	1.112	NA	1.239	NA	0.842	NA	>5	NA
IPI00387144	TUBA6		1309	263	65	1.056	1.039	1.019	0.914	0.869	0.807	0.617	0.643	>5	NA	61	1.068	1.046	1.191	0.988	1.103	0.978	0.847	0.631	>5	NA	42	1.081	0.910	1.124	1.050	0.797	0.856	>5	NA
IPI00011654	TUBB		1371	131	61	1.096	0.966	0.911	0.761	0.812	0.701	0.609	0.514	>5	0.223	19	0.984	0.937	1.037	0.845	1.049	0.929	0.719	0.550	>5	0.864	43	1.187	0.994	1.123	1.017	0.921	0.817	>5	NA
IPI00655896	TUBB4		1154	126	9	1.085	0.947	0.875	0.685	0.671	0.738	0.480	0.639	>5	0.006	8	1.047	0.821	1.216	0.828	1.077	0.839	1.013	0.536	>5	2.029	8	1.030	0.939	1.155	1.041	0.761	0.749	>5	NA
IPI00027107	TUFM		82	10	2	0.741	0.884	0.867	NA	NA	NA	NA	NA	>5	NA	2	NA	NA	1.148	0.700	1.184	0.933	0.596	0.654	>5	0.411	1	0.902	NA	1.523	NA	1.178	NA	>5	NA
IPI00470779	TXLNA		65	10	1	NA	NA	0.333	NA	0.548	NA	0.165	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00216298	TXN		75	8	3	NA	NA	1.007	0.794	0.932	0.914	0.707	0.705	>5	NA	2	NA	NA	0.872	1.163	1.157	1.242	0.797	1.099	>5	NA	2	0.569	0.918	1.015	1.068	0.762	0.719	>5	0.063
IPI00395887	TXNDC		108	6	3	1.006	1.105	1.135	0.847	0.544	0.771	0.521	0.728	>5	0.032	2	NA	NA	1.371	1.090	1.413	0.970	0.928	0.680	>5	NA	3	1.216	0.893	1.184	0.970	0.891	0.739	>5	NA
IPI00022353	TYK2	TYK2	1745	124	55	0.972	0.945	0.835	0.815	0.836	0.775	0.580	0.543	>5	0.448	45	1.001	1.103	0.917	0.961	0.954	0.975	0.758	0.486	3.185	1.067	48	1.176	0.952	1.149	0.962	0.926	0.767	>5	NA
IPI00328348	UBA52		180	14	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	3	NA	NA	0.904	NA	0.903	NA	0.541	NA	>5	NA	4	0.855	NA	0.884	NA	0.905	NA	>5	NA
IPI00411818	ULK3	ULK3	816	53	27	0.949	1.034	0.960	0.770	0.924	0.677	0.577	0.450	2.445	0.494	25	1.010	1.053	0.983	0.917	1.101	1.002	0.916	0.685	>5	NA	17	1.160	0.992	1.194	1.068	0.900	0.911	>5	NA
IPI00640597	VARSL		141	5	3	1.023	1.103	0.962	NA	NA	NA	NA	NA	>5	NA	2	2.672	1.802	1.402	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00478540	VCP		74	2	1	NA	NA	NA	0.795	NA	0.704	NA	0.449	1.124	NA	1	NA	NA	1.569	1.752	1.258	1.671	0.915	1.045	>5	NA	1	1.291	0.825	1.152	0.953	1.038	0.716	>5	NA
IPI00418471	VIM		238	17	6	0.925	0.952	1.133	NA	1.093	NA	0.601	NA	>5	NA	6	0.853	0.824	1.485	1.118	1.204	1.378	0.687	0.707	>5	NA	3	1.437	NA	1.568	NA	0.822	NA	>5	NA
IPI00006754	WDR68		168	8	3	0.834	1.221	1.018	0.762	1.020	0.626	0.747	0.658	>5	NA	3	NA	NA	1.102	0.986	1.101	1.198	0.637	0.541	>5	0.836	4	1.004	1.165	1.311	1.054	0.980	0.912	>5	NA
IPI00025830	WEE1	Wee1	1389	120	49	1.057	1.067	0.970	0.850	0.711	0.667	0.500	0.384	1.110	0.205	52	1.069	1.014	0.942	0.908	1.071	0.946	0.682	0.462	2.307	0.870	39	1.067	0.919	1.133	0.985	0.823	0.763	>5	NA
IPI00298961	XPO1		324	11	8	0.894	1.092	0.926	NA	NA	NA	NA	NA	>5	NA	6	0.857	0.854	0.968	1.195	NA	1.252	NA	0.455	4.723	4.845	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00640703	XPO5		197	12	4	1.047	1.020	1.200	NA	NA	NA	NA	NA	>5	NA	4	1.089	1.010	1.210	NA	0.899	NA	0.847	NA	>5	NA	2	1.178	0.907	1.049	1.049	0.827	0.913	>5	NA
IPI00302458	XPO7		84	7	2	0.827	0.860	0.958	0.689	NA	0.945	NA	0.545	>5	0.597	2	0.983	1.019	0.877	NA	NA	1.485	NA	1.254	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00306290	XPOT		101	8	1	1.459	1.576	0.727	NA	0.645	NA	0.636	NA	>5	NA	2	NA	NA	NA	0.709	NA	0.934	NA	0.736	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00200834	XRCC5		226	16	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	5	NA	NA	NA	1.538	NA	1.187	NA	0.956	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00644712	XRCC6		232	22	1	1.137	0.751	1.810	NA	NA	NA	NA	NA	>5	NA	6	NA	NA	NA	1.435	NA	0.971	NA	0.770	>5	NA	2	2.039	NA	1.621	NA	1.371	NA	>5	NA
IPI00008536	YEATS4		61	5	1	NA	NA	1.157	NA	0.875	NA	0.720	NA	>5	NA	1	NA	NA	0.818	0.808	0.892	0.876	0.726	1.026	>5	NA	1	1.916	1.410	1.696	0.897	0.900	1.099	>5	NA
IPI00013981	YES1	YES	1650	220	45	0.974	1.006	0.781	0.630	0.512	0.364	0.225	0.178	0.096	0.058	29	0.910	0.811	0.450	0.248	0.299	0.246	0.186	0.151	0.007	0.005	52	1.345	1.174	1.408	1.124	0.964	0.977	>5	NA
IPI00216318	YWHAB		345	32	2	1.252	1.350	1.379	0.565	NA	0.522	NA	0.450	0.042	0.027	1	NA	NA	NA	NA	NA	0.803	NA	0.390	1.773	NA	1	0.982	1.117	1.046	0.949	0.610	0.802	>5	NA
IPI00000816	YWHAE		498	37	12	0.991	0.978	0.602	0.507	0.525	0.441	0.313	0.292	0.056	0.008	11	0.824	0.721	0.688	0.617	0.659	0.601	0.447	0.331	0.553	0.320	13	0.938	0.812	0.940	0.751	0.562	0.545	>5	0.407
IPI00220642	YWHAG		578	40	15	1.048	0.916	0.612	0.425	0.463	0.369	0.319	0.247	0.026	0.008	10	1.038	0.882	0.725	0.548	0.511	0.460	0.404	0.229	0.110	0.031	10	0.942	0.744	0.885	0.715	0.544	0.523	>5	0.360
IPI00216319	YWHAH		341	24	4	1.177	1.009	0.927	NA	0.247	NA	0.204	NA	0.014	0.011	2	1.127	0.671	0.607	0.550	NA	0.484	NA	0.276	0.030	0.004	5	0.955	0.808	0.846	0.736	0.580	0.501	>5	0.481
IPI00018146	YWHAQ		393	28	3	1.054	1.044	0.793	0.416	0.541	0.342	0.394	0.234	0.040	0.013	4	1.081	0.727	0.972	0.743	0.795	0.720	0.525	0.377	1.509	0.758	5	0.944	0.901	0.946	0.857	0.592	0.687	>5	0.380
IPI00180776	YWHAZ		659	49	14	1.093	1.026	0.733	0.497	0.578	0.413	0.387	0.233	0.079	0.023	12	0.846	0.849	0.791	0.764	0.834	0.667	0.553	0.376	2.119	1.833	11	0.971	0.844	0.847	0.675	0.636	0.569	>5	0.107
IPI00329638	ZAK	ZAK	797	107	28	0.939	0.970	0.933	0.770	0.644	0.558	0.327	0.269	0.329	0.180	26	0.980	0.958	0.903	0.894	0.747	0.525	0.344	0.254	0.372	0.231	18	1.124	1.015	1.200	1.057	0.882	0.824	>5	NA
IPI00386679	ZNF607		52	2	1	NA	NA	0.879	NA	0.843	NA	0.749	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
Additional kinases with confidence >90%																																		
IPI00003431	MAPK6	Erk3	171	38	1	NA	NA	0.878	NA	0.745	NA	0.610	NA	>5	NA	2	NA	NA	0.946	NA	1.342	1.101	0.994	0.830	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00291665	MGC16169	TBCK	22	3	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	2	1.154	NA	1.172	NA	0.496	NA	0.956	NA
IPI00031016	JAK2	JAK2	146	10	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.438	NA	0.859	NA	0.756	NA	>5	NA
IPI00219800	MAP4K4	ZC1_HGK	104	10	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	0.898	NA	1.059	NA	0.745	NA	>5	NA
IPI00413604	MYLK	smMLCK	95	18	1	NA	NA	NA	0.749	NA	0.770	NA	0.476	3.108	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00014414	BRD2	BRD2	85	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.552	NA	0.679	NA	0.637	>5	NA
IPI00023529	CDK6	CDK6	69	12	1	0.687	0.734	0.687	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	1.042	NA	0.976	NA	0.807	>5	NA
IPI00064925	ALPK3	AlphaK1	54	13	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	NA	NA	NA	NA	0.038	NA	0.025	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00014873	CDK10	CDK10	53	9	1	NA	NA	1.149	NA	0.898	NA	0.783	NA	>5	NA	1	1.129	1.129	1.424	NA	NA	NA	NA	NA	>5	NA	1	0.978	1.112	0.978	1.240	0.630	0.665	>5	NA
IPI00297767	CSNK1G2	CK1g2	44	2	1	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	0.939	NA	0.862	NA	0.755	>5	NA
IPI00235407	STK36	Fused	42	7	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	1.106	NA	1.144	NA	1.006	NA	>5	NA
IPI00027232	IGF1R	IGF1R	41	4	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	0.944	NA	0.977	NA	0.784	NA	>5	NA
IPI00013721	PRPF4B	PRP4	41	5	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	1	NA	NA	0.806	NA	0.382	NA	0.322	NA	0.060	NA	0	NA	NA	NA	NA	NA	NA	>5	NA
IPI00026791	CDK8	CDK8	26	2	1	NA	NA	0.799	NA	0.742	NA	0.695	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	>5	NA	0	NA	NA	NA	NA	NA	NA	>5	NA

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Phosphopeptides identified from Kinobeads samples

Abbreviations: SSM; number of spectrum-to-sequence matches, NA; not available.

IPI acc. no.	Protein	Kinase	Phospopeptide sequence	# of sites in peptide	modified position in peptide	possible modification positions in peptide	location of P-site in protein	possible locations of phosphorylation site(s) in protein	location of known p-site	source database of known p-site (Uniprot, PhosphoElm, Phosida)	highest mascot ion score	Found in # of experiments (max. 24)	Total SSM	bosutinib applied to lysate: kinobeads binding relative to vehicle at						used for quantitation	bosutinib applied to cultured cells: kinobeads binding relative to vehicle at						used for quantitation	dasatinib applied to lysate: kinobeads binding relative to vehicle at						used for quantitation	dasatinib applied to cultured cells: kinobeads binding relative to vehicle at						used for quantitation	imatinib applied to lysate: kinobeads binding relative to vehicle at						used for quantitation	imatinib applied to cultured cells: kinobeads binding relative to vehicle at						used for quantitation
														0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM	
IPI00298977	AAK1	AAK1	ILSDVTHSAVFGVPASK	1		3|6|8		671|674|676	671, 676	UNIPROT,UNIPROT	59	22	71	1.558	0.959	1.017	0.611	0.683	0.413	Y	0.442	0.531	0.382	0.39	0.24	0.254	Y	1.015	0.874	0.74	0.975	0.499	0.823	Y	0.977	0.606	1.283	0.843	1.095	0.562	Y	1.222	1.479	1.13	0.902	1.084	0.63	Y	1.039	0.666	1.597	0.694	1.045	0.431	Y
IPI00298977	AAK1	AAK1	SATTTPSGSPR	1	7		710				25	22	41	0.974	0.949	1.029	1.148	0.79	0.644	Y	0.593	0.91	0.532	0.616	0.246	0.105	Y	0.928	1.151	1.011	1.244	0.824	0.776	Y	0.605	1.271	0.875	0.901	1.115	0.843	Y	0.875	1.051	0.823	1.175	0.939	0.588	Y	0.741	0.624	0.816	0.98	0.858	0.776	Y
IPI00298977	AAK1	AAK1	SATTTPSGSPR	2	7&9		710&712				22	20	30	1.269	0.788	1.257	1.03	0.807	0.604	N	0.734	0.941	0.524	0.983	0.322	0.147	N	0.739	0.977	0.939	0.89	0.395	0.792	Y	1.462	1.687	1.496	1.027	1.529	1.119	Y	1.002	2.131	1.045	0.854	0.805	0.835	Y	0.998	0.52	0.954	0.776	0.987	0.729	Y
IPI00298977	AAK1	AAK1	VGSLTPPSSPK	1	5		654		654	UNIPROT	46	8	11	NA	0.63	NA	0.595	NA	0.232	N	0.935	0.96	0.815	0.772	0.395	0.47	Y	1.186	NA	0.688	NA	0.868	NA	N	0.916	1.482	0.988	0.903	1.192	0.476	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00298977	AAK1	AAK1	VGSLTPPSSPK	2	5	8|9	654	657|658	654, 657	UNIPROT,UNIPROT	22	24	134	1.444	0.836	1.256	1.361	0.926	0.333	Y	0.94	0.953	0.665	0.592	0.357	0.28	Y	1.297	1.109	1.09	0.982	0.805	0.868	Y	0.932	1.129	0.879	0.789	1.151	0.828	Y	1.197	1.145	1.285	0.953	0.991	0.746	Y	0.823	1.057	0.833	1.094	0.861	1.061	Y
IPI00298977	AAK1	AAK1	VQTTPPPAVQGQK	1		3|4		639|640	640	UNIPROT	38	9	13	1.067	0.14	1.09	0.141	0.691	0.323	Y	1.597	1.082	1.838	1.042	0.376	0.256	Y	NA	NA	NA	NA	NA	NA	N	1.224	1.06	1.152	0.684	0.719	0.374	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00329488	ABL2	ARG	AAPVLPTTHNHKVPVLISPTLK	1	18		936		936	UNIPROT	41	18	49	1.201	0.788	0.7	0.299	0.244	0.265	Y	0.573	0.336	0.239	0.223	0.114	0.132	Y	0.998	0.312	0.321	0.191	0.317	0.105	Y	0.307	0.291	0.222	0.399	0.212	0.202	Y	1.302	1.121	0.756	0.477	0.458	0.293	Y	0.907	1.177	0.765	0.761	0.481	0.519	Y
IPI00329488	ABL2	ARG	CYGGSFAQR	1	2		718				28	19	30	0.698	0.394	0.26	0.123	0.074	0.034	Y	0.146	0.132	0.079	0.095	0.043	0.066	Y	0.647	NA	0.213	NA	0.07	NA	Y	0.164	0.114	0.157	0.135	0.097	0.118	Y	0.951	0.817	1.334	1.025	0.348	0.083	N	0.429	0.523	0.502	0.344	0.192	0.169	Y
IPI00329488	ABL2	ARG	DKSPSSLLEDAK	1	3		631		631	UNIPROT	47	24	286	0.929	0.594	0.296	0.128	0.054	0.035	Y	0.268	0.126	0.102	0.073	0.045	0.029	Y	0.769	0.38	0.145	0.068	0.049	0.024	Y	0.085	0.052	0.056	0.069	0.037	0.029	Y	1.03	0.95	0.766	0.566	0.305	0.11	Y	0.958	0.79	0.777	0.455	0.27	0.152	Y
IPI00329488	ABL2	ARG	GGFFSSFMK	1	6		655				17	23	60	1.065	0.818	0.463	0.218	0.174	0.074	Y	0.353	0.235	0.174	0.176	0.083	0.128	Y	0.793	0.377	0.241	0.091	0.115	0.067	Y	0.096	0.08	0.107	0.13	0.063	0.082	Y	1.108	1.163	0.867	0.523	0.387	0.124	Y	1.008	0.87	0.927	0.866	0.479	0.337	Y
IPI00329488	ABL2	ARG	HSWYHGPVSR	1	4		174				51	3	11	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.482	NA	0.403	NA	0.255	N	1.095	2.507	1.063	1.073	0.526	0.585	Y	1.207	NA	0.979	NA	0.474	NA	N
IPI00329488	ABL2	ARG	KYSLTVAVK	1	2		310		310	UNIPROT	43	13	147	0.842	0.481	0.208	0.108	0.075	0.066	Y	0.057	0.058	0.045	0.051	0.023	0.034	Y	0.779	0.351	0.111	0.058	0.049	0.028	Y	0.052	0.058	0.061	0.067	0.032	0.036	Y	1.088	1.132	0.755	0.53	0.334	0.173	Y	0.957	0.634	0.48	0.152	0.135	0.068	Y
IPI00329488	ABL2	ARG	LMTGDTYTAHAGAK	1		6|7		438|439	439	UNIPROT	83	16	439	0.851	0.492	0.246	0.095	0.104	0.032	Y	0.131	0.097	0.082	0.097	0.054	0.055	Y	0.788	0.444	0.176	0.108	0.08	0.071	Y	0.093	0.058	0.099	0.076	0.065	0.039	Y	1.136	1.231	0.876	0.678	0.523	0.181	Y	1.045	0.757	0.752	0.438	0.419	0.148	Y
IPI00329488	ABL2	ARG	LMTGDTYTAHAGAK	2	6&7		438&439		439	UNIPROT	34	7	18	NA	NA	NA	NA	NA	NA	N	0.266	0.204	0.301	0.178	0.105	0.102	Y	NA	0.541	NA	0.247	NA	0.194	N	NA	NA	NA	NA	NA	NA	N	1.108	2.905	0.83	0.934	0.351	0.279	Y	1.254	0.787	0.889	0.397	0.239	0.241	Y
IPI00329488	ABL2	ARG	QRDKSPSSLLEDAK	1		5|7|8		631|633|634	631	UNIPROT	36	12	16	0.941	0.604	0.532	0.434	0.167	0.1	Y	0.298	NA	0.147	NA	0.053	NA	N	0.785	NA	0.342	NA	0.29	NA	Y	NA	0.307	NA	0.371	NA	0.301	N	1.3	1.036	0.851	0.601	0.427	0.237	Y	1.169	1.597	0.491	0.57	0.534	0.439	Y
IPI00329488	ABL2	ARG	SNSTSSMSSGLPEQDR	1		1|3|4|5|6|8|9		781|783|784|78	783	UNIPROT	61	10	17	0.845	0.997	0.404	0.31	0.062	0.113	Y	NA	NA	NA	NA	NA	NA	N	1.48	NA	0.494	NA	0.052	NA	N	NA	NA	NA	NA	NA	NA	N	0.534	0.785	1.25	0.381	0.377	0	N	1.951	NA	2.103	NA	0.098	NA	N
IPI00329488	ABL2	ARG	SSSFREMENQPHK	1		1|2|3		669|670|671			12	19	43	1.095	0.595	0.431	0.223	0.121	0.053	Y	0.526	0.213	0.185	0.144	0.069	0.052	Y	1.004	0.545	0.278	0.107	0.068	0.093	Y	0.268	0.055	0.246	0.11	0.116	0.057	Y	1.19	2.037	0.927	0.701	0.341	0.086	Y	1.524	1.583	1.092	0.792	0.465	0.416	Y
IPI00329488	ABL2	ARG	TGGSSPEALHRPYGCDVEPQALNEAIR	1		1|4|5|13		68|71|72|80			47	24	125	0.988	0.638	0.449	0.199	0.16	0.056	Y	0.321	0.111	0.163	0.146	0.046	0.036	Y	0.834	0.238	0.329	0.109	0.076	0.052	Y	0.111	0.066	0.13	0.11	0.076	0.031	Y	1.079	1.204	0.923	0.665	0.304	0.135	Y	1.004	0.749	1.023	0.746	0.341	0.192	Y
IPI00329488	ABL2	ARG	TTETGFNIFTQHDHFASCVEDGFEGDKTGGSSPEALHRPYGCDVE	1		10|17|28|31|32|40		50|57|68|71|72|80			33	11	12	NA	NA	NA	NA	NA	NA	N	0.288	NA	0.144	NA	0.031	NA	N	0.687	0.401	0.268	0.082	0.229	0	N	0.202	NA	0.111	NA	0.09	NA	N	1.453	1.09	1.138	0.53	0.272	0.035	Y	1.562	1.29	1.785	0.741	1.185	0.078	N
IPI00329488	ABL2	ARG	TVSTSSQPEENVDR	1	3		817		817	UNIPROT	31	9	14	0.489	0.881	0.275	0.126	0.121	0.176	Y	0.143	0.245	0.001	0.101	0.153	0.006	N	0.645	NA	0.086	NA	0.141	NA	N	NA	NA	NA	NA	NA	NA	N	NA	1.688	NA	0.627	NA	0.178	N	4.788	NA	2.559	NA	0	NA	N
IPI00329488	ABL2	ARG	TVSTSSQPEENVDR	2	3	1|4|5	817	815|818|819	817	UNIPROT	22	19	33	0.953	0.355	0.248	0.061	0.029	0	N	0.18	NA	0.122	NA	0.025	NA	N	1.052	0.238	0.116	0.007	0.037	0	Y	0.134	0.018	0.058	0.096	0.086	0.019	N	0.982	1.022	1.013	0.591	0.428	0.126	Y	0.558	0.673	0.69	0.525	0.169	0.11	Y
IPI00329488	ABL2	ARG	VYELMR	1	2		515		515	UNIPROT	30	15	90	0.833	0.7	0.421	0.269	0.131	0.089	Y	0.172	0.138	0.181	0.162	0.05	0.093	Y	0.76	0.486	0.217	0.239	0.073	0.086	Y	0.121	0.184	0.217	0.21	0.149	0.098	Y	1.158	1.254	1.123	0.627	0.418	0.143	Y	1.03	0.684	0.666	0.38	0.243	0.132	Y
IPI00329488	ABL2	ARG	WSSKENLLGATESDPNLFVALYDFVASGDNTLSITK	1		2|3|11|13		96|97|105|107			68	2	2	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.803	2.085	1.386	1.82	0	0.837	N	NA	NA	NA	NA	NA	NA	N
IPI00375648	ABL2	ARG	YELTGLPEQDR	1	1		696				65	7	9	0.693	0.667	0.295	0.345	0.087	0.193	N	NA	NA	NA	NA	NA	NA	N	0.701	0.189	0.403	0.156	0.254	0.208	N	NA	NA	NA	NA	NA	NA	N	1.093	0.738	0.912	0.643	0.457	0.279	Y	NA	NA	NA	NA	NA	NA	N
IPI00437565	ACVR2B	ACTR2B	KPPYGHVDIHEDPGPPPPSPLVGLKPLQLLEIK	1		4|19		167|182			42	3	3	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.188	1.007	1.585	1.19	0.817	0.314	N	NA	NA	NA	NA	NA	NA	N	2.062	NA	1.738	NA	1.113	NA	N
IPI00004344	AFF4		AVGMPSPVSPK	1		6|9		1055|1058	1058	PhosphoELM	33	4	4	0.922	0.995	1.015	0.4	0.757	0.932	N	NA	NA	NA	NA	NA	NA	N	0.563	NA	0.56	NA	0.366	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00004344	AFF4		ESKSSPRPTAEK	1		2|4|5		617|619|620			13	12	14	1.339	0.936	1.131	0.929	1.195	0.776	Y	0.92	1.14	0.708	0.625	0.661	0.668	Y	NA	1.685	NA	1.41	NA	1.325	Y	NA	0.792	NA	0.549	NA	0.358	Y	NA	2.574	NA	1.428	NA	1.263	N	1.245	0.734	1.332	1.165	1.241	0.691	Y
IPI00004344	AFF4		QKSPAQSDSTTQR	1	3		549		549	UNIPROT	51	23	61	1.063	1.363	0.765	1.273	0.745	0.94	Y	0.655	0.853	0.679	0.671	0.539	0.441	Y	1.042	0.497	0.977	0.691	0.711	0.549	Y	0.893	0.9	1.184	0.75	1.158	0.552	Y	0.864	3.286	0.671	1.437	0.591	1.017	Y	1.278	0.843	1.457	1.351	0.866	0.783	Y
IPI00004344	AFF4		SKSPRDPDANWDSPSR	1	3		212				37	22	43	0.973	1.163	0.922	1.022	0.936	0.726	Y	0.888	0.757	0.664	0.6	0.597	0.631	Y	1.382	1.01	1.238	1.197	0.975	0.946	Y	0.835	1.147	1.219	1.003	0.908	0.617	Y	0.909	1.572	1.095	0.807	0.924	0.628	Y	1.004	1.267	1.403	2.099	1.053	1.006	Y
IPI00004344	AFF4		SSPRPTAEK	1		1|2		619|620			13	16	21	1.16	0.725	1.004	0.864	0.757	0.612	Y	0.698	0.703	0.648	0.533	0.527	0.352	Y	1.187	0.859	1.207	1.013	0.887	0.807	Y	0.482	1.028	0.745	0.766	0.535	0.561	Y	1.075	0.8	0.725	0.803	0.824	0.623	Y	0.574	0.888	1.086	0.983	0.927	0.559	Y
IPI00004344	AFF4		SSSPGKPQAVSSLNSSHSR	1	2		179				55	20	42	1.271	1.072	0.905	0.953	0.895	0.715	Y	0.898	1.301	0.876	0.701	0.867	1.017	Y	1.236	0.833	1.368	1.084	0.86	0.75	Y	1.101	1.096	1.127	0.861	0.936	0.695	Y	1.51	2.498	1.164	1.468	1.211	1.139	Y	NA	1.024	NA	1.169	NA	0.817	Y
IPI00004344	AFF4		YPESNRTPVKPSSVEEEDSFFR	1	7		674				39	18	27	1.307	1.339	1.132	1.032	0.841	0.619	Y	1.286	0.982	0.846	0.838	0.835	0.609	Y	1.146	1.18	1.011	1.603	0.804	1.076	Y	0.788	0.822	1.131	0.561	1.296	0.422	Y	0.933	1.209	1.05	0.818	1.033	0.802	Y	NA	0.635	NA	0.82	NA	0.779	N
IPI00064935	ALPK3	AlphaK1	GSKSPSAGR	1		2|4		1842|1844			15	12	18	NA	0.729	NA	0.309	NA	0.173	Y	0.087	0.278	0.245	0.235	0.159	0.155	Y	NA	NA	NA	NA	NA	NA	N	0.336	0.249	0.24	0.32	0.175	0.161	Y	NA	NA	NA	NA	NA	NA	N	0.943	1.154	0.688	0.847	0.341	0.308	Y
IPI00658151	APEG1		SGSSEDSGGASGRSTPLFGR	1		1|3|4|7|11		2471|2473|2474|2477|2481			13	12	17	0.905	0.835	1.034	0.761	0.707	0.66	Y	1.047	NA	0.844	NA	0.835	NA	N	0.997	NA	1.257	NA	0.835	NA	Y	0.309	0.884	0.707	1.363	0.5	0.715	Y	1.838	0.972	1.286	1.613	1.214	0.751	Y	1.725	NA	2.081	NA	0.885	NA	Y
IPI00020578	ARAF	ARAF	QQFYHSVQDLSGGSR	1	6		157				26	16	21	1.091	0.783	0.855	0.419	0.52	0.49	Y	1.121	0.586	0.97	0.633	0.462	0.467	Y	0.83	NA	0.588	NA	0.42	NA	N	0.604	1.002	0.725	0.706	0.406	0.442	Y	NA	1.381	NA	1.135	NA	0.682	N	1.001	1.292	1.021	1.451	0.843	1.141	N
IPI00020578	ARAF	ARAF	SASEPSLHR	1	3		585		585	UNIPROT	20	22	83	1.14	1.163	1.034	1.165	0.959	1.312	Y	0.996	0.924	0.876	0.777	0.876	0.816	Y	1.042	NA	0.904	NA	0.858	NA	Y	0.663	0.975	0.873	0.979	0.895	0.797	Y	1.228	1.474	1.096	0.995	0.945	0.793	Y	1.519	1.253	1.298	0.7	1.015	1.085	Y
	BCR-ABL		AGGKPSQSPSQEAAGEAVLGAK	1		10|8|6		1820|1818|1816			57	20	35	0.812	0.833	0.388	0.447	0.187	0.167	Y	0.334	0.198	0.277	0.112	0.177	0.042	Y	0.549	0.569	0.211	0.136	0.069	0.112	Y	0.114	0	0.069	0.05	0.052	0.032	N	1.164	1.066	1.064	0.41	0.451	0.106	Y	0.738	0.743	0.569	0.49	0.212	0.139	Y
	BCR-ABL		ASASRPQPAPADGADPPPAEEPEARPDGEGSPGK	1	31		122				44	17	42	0.646	0.585	0.288	0.232	0.079	0.141	N	0.13	0.166	0.122	0.123	0.026	0.095	Y	0.873	NA	0.189	NA	0.106	NA	N	0.268	0.123	0.255	0.101	0.083	0.041	N	1.157	1.109	0.888	0.31	0.339	0.235	Y	1.011	0.441	0.674	0.198	0.096	0.028	Y
	BCR-ABL		DISNGALAFTPLDTADPAKSPKPSNGAGVPNGALR	1	20		1560				59	11	20	0.783	0.407	0.487	0.233	0.214	0.218	N	NA	0.189	NA	0.027	NA	0.025	N	0.523	0.469	0.084	0.093	0.053	0	N	NA	NA	NA	NA	NA	NA	N	0.982	1.165	0.718	0.751	0.489	0.332	Y	1.072	NA	0.758	NA	0.236	NA	N
	BCR-ABL		EDDESPGLYGFLNVIVHSATGFK	1		5|9		906|910			90	24	87	0.847	0.731	0.14	0.115	0.065	0.065	Y	0.2	0.058	0.247	0.021	0.128	0.013	Y	1.074	0.333	0.132	0.137	0.064	0.023	Y	0.037	0.065	0.079	0.045	0.046	0.022	Y	1.027	1.134	0.732	0.5	0.227	0.115	Y	1.068	0.661	0.902	0.404	0.096	0.037	Y
	BCR-ABL		EDDESPGLYGFLNVIVHSATGFK	2	5&9		906&910				61	7	7	NA	NA	NA	NA	NA	NA	N	NA	0.02	NA	0.079	NA	0.022	N	1.429	NA	0.16	NA	0	NA	N	NA	0.385	NA	0.086	NA	0	N	0.815	2.391	0.759	0.639	0.196	0.129	N	1.338	NA	0.418	NA	0.104	NA	N
	BCR-ABL		ELQICPATAGSGPAATQDFSK	1		8|11|16|20		2004|2007|2012|2016			71	3	5	0.987	0.706	0.336	0.404	0.197	0.118	Y	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
	BCR-ABL		ESGGSGFRSPHLWK	1	9		1584				22	24	93	0.687	0.742	0.339	0.212	0.099	0.07	Y	0.139	0.064	0.12	0.1	0.038	0.028	Y	0.792	0.403	0.273	0.147	0.078	0.047	Y	0.157	0.06	0.131	0.133	0.057	0.047	Y	1.031	1.065	0.975	0.6	0.35	0.135	Y	0.771	0.594	0.691	0.273	0.172	0.108	Y
	BCR-ABL		FNTLAELVHHHSTVADGLITTLHYPAPK	1		3|12|13|20|21|24		1095|1104|1105|1112|1113|1116			34	3	3	0.981	NA	1.454	NA	0.522	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.663	NA	0.436	NA	0.301	N	1.442	NA	0.874	NA	0.971	NA	N
	BCR-ABL		GHGQPGADAEKPFYVNVEFHHER	1	14		177		177	UNIPROT	74	23	167	1.281	0.635	0.696	0.582	0.386	0.235	Y	0.303	0.283	0.275	0.284	0.191	0.148	Y	1.097	0.562	0.57	0.306	0.311	0.273	Y	0.357	0.276	0.337	0.266	0.349	0.156	Y	1.398	1.419	1.201	0.851	0.593	0.309	Y	1.425	0.782	1.519	0.65	0.527	0.286	Y
	BCR-ABL		GQGESDPLDHEPAVSPLLPR	1	15		1470		1470	UNIPROT	58	24	233	0.909	0.623	0.425	0.194	0.153	0.086	Y	0.277	0.198	0.155	0.127	0.107	0.077	Y	0.781	0.618	0.241	0.215	0.085	0.118	Y	0.255	0.11	0.177	0.168	0.091	0.061	Y	1.001	1.14	0.815	0.554	0.441	0.18	Y	0.863	0.735	0.669	0.422	0.255	0.174	Y
	BCR-ABL		GQGESDPLDHEPAVSPLLPR	2	5&15		1460&1470		1470	UNIPROT	24	23	51	0.91	0.487	0.68	0.3	0.305	0.099	Y	0.246	0.222	0.239	0.164	0.285	0.123	Y	1.02	0.487	0.462	0.181	0.156	0.121	Y	0.171	0.17	0.268	0.153	0.139	0.135	Y	1.077	1.321	0.787	0.716	0.306	0.242	Y	0.867	0.645	0.66	0.412	0.22	0.185	Y
	BCR-ABL		GRGSRDALVSGALESTK	1	4		473				58	24	155	0.81	0.483	0.248	0.121	0.096	0.05	Y	0.067	0.074	0.064	0.062	0.029	0.04	Y	0.757	0.4	0.186	0.084	0.056	0.047	Y	0.094	0.077	0.078	0.075	0.051	0.04	Y	1.026	1.022	0.733	0.49	0.299	0.128	Y	0.633	0.415	0.395	0.156	0.094	0.036	Y
	BCR-ABL		GRSSESSCGVDGDYEDAELNPR	1		3|4		235|236			79	11	15	1.826	NA	0.733	NA	0.258	NA	N	NA	NA	NA	NA	NA	NA	N	1.371	1.791	0.292	0.683	0.115	0.507	N	NA	NA	NA	NA	NA	NA	N	2.085	2.807	1.788	1.552	0.821	0.822	Y	0.809	0.713	0.837	0.773	0.185	0.281	N
	BCR-ABL		GSALGTPAAAEPVTPTSK	1	6		1745				46	4	4	1.027	NA	0.318	NA	0	NA	N	NA	NA	NA	NA	NA	NA	N	1.089	NA	0.938	NA	0.619	NA	N	NA	NA	NA	NA	NA	NA	N	1.139	NA	1.057	NA	0.618	NA	N	NA	NA	NA	NA	NA	NA	N
	BCR-ABL		GTVTPPPR	1	4		1682				27	24	238	0.873	0.588	0.443	0.275	0.2	0.133	Y	0.23	0.173	0.184	0.171	0.121	0.093	Y	0.803	0.492	0.327	0.25	0.142	0.151	Y	0.178	0.159	0.182	0.221	0.118	0.122	Y	1.117	1.507	0.874	0.686	0.414	0.317	Y	0.818	0.862	0.715	0.577	0.299	0.206	Y
	BCR-ABL		HQDGLPYIDDSPSSSPHLSSK	1	11		459		459	UNIPROT	77	24	168	0.954	0.608	0.63	0.526	0.251	0.231	Y	0.386	0.342	0.272	0.281	0.123	0.127	Y	0.778	0.762	0.432	0.524	0.273	0.272	Y	0.31	0.164	0.415	0.363	0.297	0.256	Y	1.171	1.707	1.018	0.864	0.511	0.384	Y	0.936	0.783	0.808	0.625	0.385	0.36	Y
	BCR-ABL		HQDGLPYIDDSPSSSPHLSSK	2	11	7|13|14|15|19	459	455|461|462|46	459, 463	UNIPROT,UNIPROT	44	13	23	NA	0.872	NA	1.128	NA	0.801	N	0.214	NA	0.09	NA	0.061	NA	N	0.503	0.282	0.447	0.299	0.255	0.14	N	NA	NA	NA	NA	NA	NA	N	1.193	1.604	1.031	0.587	0.406	0.211	Y	0.999	0.897	0.918	0.85	0.361	0.425	Y
	BCR-ABL		HSWYHGPVSR	1	4		1029				51	3	11	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.482	NA	0.403	NA	0.255	N	1.095	2.507	1.063	1.073	0.526	0.585	Y	1.207	NA	0.979	NA	0.474	NA	N
	BCR-ABL		INTASDGKLYVSSESR	1	10		1086		1086	UNIPROT	67	24	295	0.846	0.556	0.261	0.118	0.074	0.05	Y	0.103	0.064	0.084	0.057	0.03	0.024	Y	0.754	0.419	0.188	0.122	0.059	0.05	Y	0.072	0.065	0.084	0.082	0.045	0.03	Y	1.112	0.989	0.763	0.456	0.247	0.084	Y	0.88	0.671	0.536	0.296	0.158	0.071	Y
	BCR-ABL		ISSLGSQAMQMER	1	3		202				46	23	63	0.851	0.682	0.317	0.148	0.16	0.057	Y	0.192	0.138	0.248	0.128	0.132	0.061	Y	1.115	0.463	0.183	0.208	0.152	0.082	Y	0.18	0.054	0.522	0.097	0.1	0.051	N	1.238	1.201	0.914	0.77	0.463	0.202	Y	1.256	0.765	1.211	0.317	0.318	0.127	Y
	BCR-ABL		KSSTLTSSR	1		2|3|6|7|8		1591|1592|1595|1596|1597			24	16	31	1.071	0.655	0.359	0.164	0.096	0.076	Y	0.103	0.33	0.116	0.33	0.05	0.044	Y	1.001	NA	0.308	NA	0.09	NA	Y	0.289	0	0.109	0.145	0.061	0.024	Y	1.803	1.781	1.561	0.818	0.316	0.118	Y	1.886	2.915	1.782	1.014	0.269	0.2	Y
	BCR-ABL		KTGQIWPNDGEGAFHGDADGSFGTPPGYGCAADR	1	28		436				60	23	47	1.158	0.373	0.203	0.126	0.145	0.012	N	0.033	0.021	0.054	0.108	0.022	0.047	Y	0.824	0.209	0.129	0.095	0.057	0.035	Y	0.035	0.011	0.049	0.027	0.034	0	Y	1.184	1.267	0.921	0.462	0.368	0.195	Y	0.964	0.646	0.717	0.182	0.281	0.047	Y
	BCR-ABL		KTGQIWPNDGEGAFHGDADGSFGTPPGYGCAADR	2	28	21|24	436	429|432			32	4	4	1.31	NA	0.235	NA	0.523	NA	N	NA	0.065	NA	0.177	NA	0.016	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.736	1.803	0.335	0.514	0.089	0.044	N	NA	NA	NA	NA	NA	NA	N
	BCR-ABL		LGGGQYGEVYEGVWK	1	10		1158		1158	UNIPROT	61	24	139	0.814	0.453	0.238	0.151	0.057	0.073	Y	0.082	0.089	0.067	0.049	0.028	0.02	Y	0.779	0.498	0.149	0.108	0.049	0.084	Y	0.021	0.042	0.042	0.065	0.029	0.031	Y	1.009	1.094	0.593	0.396	0.176	0.114	Y	0.824	0.544	0.644	0.276	0.17	0.06	Y
	BCR-ABL		LMTGDTYTAHAGAK	1		6|7		1293|1294	1294	UNIPROT	83	16	439	0.851	0.492	0.246	0.095	0.104	0.032	Y	0.131	0.097	0.082	0.097	0.054	0.055	Y	0.788	0.444	0.176	0.108	0.08	0.071	Y	0.093	0.058	0.099	0.076	0.065	0.039	Y	1.136	1.231	0.876	0.678	0.523	0.181	Y	1.045	0.757	0.752	0.438	0.419	0.148	Y
	BCR-ABL		LMTGDTYTAHAGAK	2	6&7		1293&1294		1294	UNIPROT	34	7	18	NA	NA	NA	NA	NA	NA	N	0.266	0.204	0.301	0.178	0.105	0.102	Y	NA	0.541	NA	0.247	NA	0.194	N	NA	NA	NA	NA	NA	NA	N	1.108	2.905	0.83	0.934	0.351	0.279	Y	1.254	0.787	0.889	0.397	0.239	0.241	Y
	BCR-ABL		LQTVHSIPLTINK	1		3|6		891|894			36	21	30	0.589	0.644	0.287	0.276	0.184	0.194	Y	0.161	0.121	0.091	0.133	0.05	0.077	Y	0.901	0.42	0.364	0.283	0.154	0.074	Y	0.273	0.324	0.381	0.302	0.201	0.159	Y	1.222	1.601	0.958	0.72	0.792	0.514	Y	0.874	1.454	0.683	0.391	0.226	0.37	Y
	BCR-ABL		LQTVHSIPLTINKEDDESPGLYGFLNVIVHSATGFK	1		3|6|22		891|894|910			41	16	23	0.768	0.406	0.191	0	0.044	0.029	N	0.059	0	0.056	0.011	0.014	0	N	1.152	0.356	0.197	0.079	0.04	0.022	Y	0.109	0	0.081	0.024	0.036	0.021	Y	1.031	1.402	0.829	0.407	0.195	0.037	Y	1.007	0.608	0.952	0.242	0.694	0.15	N
	BCR-ABL		LQTVHSIPLTINKEDDESPGLYGFLNVIVHSATGFK	2	22	3|6	910	891|894			44	5	5	1.211	NA	0.131	NA	0.093	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.045	NA	0	NA	0.022	N	NA	1.163	NA	0.343	NA	0.016	N	0.956	0.374	0.339	0.267	0.042	0.063	N
	BCR-ABL		MERPEGCPEKVYELMR	1	12		1370		1370	UNIPROT	37	24	178	0.884	0.498	0.359	0.154	0.09	0.062	Y	0.14	0.109	0.128	0.145	0.051	0.07	Y	0.786	0.443	0.24	0.138	0.064	0.048	Y	0.115	0.152	0.199	0.177	0.12	0.079	Y	1.099	1.148	0.874	0.638	0.296	0.121	Y	0.999	0.663	0.601	0.295	0.147	0.075	Y
	BCR-ABL		MIYLQTLLAK	1	3		58				63	15	29	0.816	0.548	0.381	0.263	0.23	0.165	Y	0.095	0.14	0.052	0.18	0.095	0.106	Y	0.759	0.748	0.262	0.203	0.162	0.176	Y	NA	NA	NA	NA	NA	NA	N	1.084	0.743	1.062	0.542	0.549	0.317	Y	0.899	NA	0.643	NA	0.369	NA	N
	BCR-ABL		NAAEYLLSSGINGSFLVR	1	5		1040				97	20	41	0.839	0.759	0.564	0.383	0.505	0.152	Y	0.311	0.894	0.29	0.061	0.227	1.067	Y	1.158	0.648	0.365	0.172	0.21	0.312	Y	0.707	0.55	0.836	0.533	0.805	0.408	Y	1.163	1.981	0.923	0.703	0.352	0.503	Y	0.947	NA	0.981	NA	0.329	NA	N
	BCR-ABL		NKPTVYGVSPNYDK	1	6		1127		1127	UNIPROT	43	14	29	1.049	NA	0.259	NA	0.149	NA	Y	0.153	0.123	0.091	0.14	0.092	0.074	Y	0.782	NA	0.26	NA	0.125	NA	Y	0.056	0.126	0.131	0.137	0.057	0.089	Y	1.116	1.219	0.784	0.577	0.358	0.079	Y	0.669	0.69	0.499	0.505	0.123	0.148	Y
	BCR-ABL		NKPTVYGVSPNYDKWEMER	1		6|12		1127|1133	1127	UNIPROT	54	24	237	0.701	0.469	0.245	0.198	0.092	0.078	Y	0.049	0.055	0.067	0.085	0.022	0.048	Y	0.748	0.388	0.199	0.116	0.078	0.05	Y	0.091	0.051	0.138	0.054	0.081	0.025	Y	1.039	1.095	0.81	0.563	0.327	0.135	Y	0.713	0.564	0.555	0.234	0.219	0.055	Y
	BCR-ABL		NSLETLLYKPVDR	1	8		644		644	UNIPROT	66	24	299	0.707	0.463	0.242	0.136	0.074	0.072	Y	0.077	0.043	0.06	0.053	0.034	0.018	Y	0.682	0.379	0.141	0.091	0.065	0.048	Y	0.07	0.073	0.081	0.076	0.056	0.039	Y	1.007	1.15	0.848	0.488	0.315	0.121	Y	0.706	0.599	0.565	0.23	0.136	0.074	Y
	BCR-ABL		PSGTPISPAPVPSTLPSASSALAGDQPSSTAFIPLISTRVSLR	1	41		1912				60	11	14	NA	0	NA	0.733	NA	0.351	N	NA	0.647	NA	0.644	NA	0.596	N	0.357	1.987	0.229	1.216	0.182	0.276	N	1.226	0.527	0.788	0.37	1.107	0	N	1.424	1.869	2.053	0.204	0.441	0.203	N	9.389	0.519	6.673	0.605	0	0.292	N
	BCR-ABL		RPGAAASGERDDRGPPASVAALR	1	7		139				31	24	104	1.019	0.667	0.768	0.658	0.273	0.148	Y	0.273	0.239	0.474	0.403	0.177	0.123	Y	0.792	0.704	0.622	0.603	0.182	0.336	Y	0.327	0.201	0.533	0.378	0.172	0.193	Y	1.374	1.725	1.723	1.27	0.441	0.322	Y	0.897	0.618	1.078	0.727	0.35	0.232	Y
	BCR-ABL		RQSMTVK	1	3		698				21	22	62	0.892	0.559	0.294	0.129	0.135	0.097	Y	0.167	0.136	0.097	0.129	0.072	0.08	Y	0.803	0.492	0.2	0.184	0.091	0.056	Y	0.246	0.073	0.183	0.085	0.183	0.059	Y	1.286	1.298	0.833	0.613	0.392	0.077	Y	0.897	0.719	0.642	0.332	0.228	0.098	Y
	BCR-ABL		SCSASCVPHGAK	1	3		1619				88	24	414	1.004	0.889	0.39	0.211	0.202	0.132	Y	0.247	0.17	0.175	0.118	0.089	0.083	Y	0.953	0.652	0.324	0.135	0.169	0.094	Y	0.279	0.121	0.179	0.141	0.1	0.078	Y	1.105	2.014	0.808	0.701	0.403	0.238	Y	1.144	0.805	0.795	0.455	0.278	0.1	Y
	BCR-ABL		SFSLTSVELQMLTNSCVK	1		5|6		875|876			82	20	53	1.128	0.833	0.415	0.297	0.33	0.346	Y	0.256	0.2	0.225	0.231	0.168	0.112	Y	1.174	0.502	0.339	0.377	0.238	0.201	Y	0.097	0.053	0.178	0.194	0	0	N	1.099	1.471	0.651	0.695	0.441	0.63	Y	1.375	0.732	0.782	0.679	0.428	0.116	Y
	BCR-ABL		SISLRYEGR	1	6		1068		1068	UNIPROT	43	23	52	0.98	0.418	0.485	0.255	0.124	0.113	Y	0.185	0.191	0.151	0.151	0.061	0.116	Y	0.802	0.576	0.437	0.353	0.132	0.144	Y	0.18	0.106	0.248	0.216	0.149	0.081	Y	1.057	1.227	1.04	0.771	0.438	0.232	Y	0.714	0.546	0.748	0.472	0.236	0.142	Y
	BCR-ABL		SQHGAGSSVGDASRPPYR	1	17		231				55	24	164	1.223	1.524	1.128	1.185	0.544	0.514	Y	0.611	0.684	0.739	0.795	0.349	0.361	Y	1.035	1.015	1.018	0.841	0.519	0.407	Y	0.806	0.605	0.868	0.752	0.432	0.333	Y	1.745	4.555	1.741	1.312	0.671	0.673	Y	1.506	1.252	1.85	1.871	0.62	0.827	Y
	BCR-ABL		SQSTSEQEK	1		1|3		299|301			31	24	268	0.908	0.557	0.216	0.101	0.054	0.033	Y	0.119	0.063	0.063	0.048	0.028	0.014	Y	0.839	0.4	0.17	0.055	0.047	0.016	Y	0.063	0.029	0.051	0.052	0.017	0.02	Y	1.139	1.206	0.787	0.555	0.244	0.059	Y	0.661	0.516	0.557	0.339	0.127	0.025	Y
	BCR-ABL		SRSPSQNSQQSFDSSSPPTPQCHKR	1		1|3|5|8|11		367|369|371|374|377			32	2	2	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.747	NA	0.801	NA	0.374	NA	N
	BCR-ABL		SSSFREMDGQPER	1		1|2|3		1519|1520|1521			23	24	166	1.136	0.692	0.568	0.345	0.155	0.102	Y	0.546	0.235	0.445	0.215	0.247	0.074	Y	0.934	0.716	0.446	0.267	0.158	0.07	Y	0.429	0.072	0.434	0.156	0.167	0.039	Y	1.464	2.73	1.265	1.102	0.575	0.333	Y	1.041	0.87	1.167	0.766	0.321	0.113	Y
	BCR-ABL		SSTLTSSR	1		1|2		1591|1592			31	19	45	0.987	0.65	0.502	0.417	0.237	0.181	Y	0.288	0.291	0.174	0.21	0.162	0.091	Y	0.657	0.764	0.234	0.21	0.094	0.297	Y	NA	0.266	NA	0.263	NA	0.124	N	1.047	1.882	0.877	0.768	0.563	0.284	Y	0.871	1.362	0.786	0.584	0.247	0.242	Y
	BCR-ABL		STLVLHDLLK	1		1|2		653|654			47	2	2	1.02	0.273	0.27	0.375	0.272	0	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
	BCR-ABL		SVTLPRDLQSTGR	1		1|3		1634|1636			27	13	24	2.066	0.16	0.888	0.333	0.358	0.106	Y	0.185	NA	0.173	NA	0.056	NA	N	1.219	NA	0.326	NA	0.129	NA	Y	0.161	0.196	0.163	0.092	0.096	0.02	Y	0.538	5.135	0.647	1.935	0.277	0.306	Y	0.622	NA	0.56	NA	0.268	NA	Y
	BCR-ABL		SYTFLISSDYER	1	2		844				69	2	3	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.13	1.003	0.836	0.782	0.437	0.664	N	NA	NA	NA	NA	NA	NA	N
	BCR-ABL		TAPTPPKR	1	4		1514				13	14	21	1.152	0.587	0.588	0.251	0.413	0.353	Y	0.193	NA	0.191	NA	0.144	NA	Y	1.03	0.947	0.556	0.322	0.449	0.42	Y	0.685	NA	0.623	NA	0.593	NA	N	1.128	1.787	0.92	0.678	0.506	0.361	Y	0.925	NA	0.746	NA	0.332	NA	Y
	BCR-ABL		TGQIWPNDGEGAFHGDADGSFGTPPGYGCAADR	1		23|27		432|436			38	10	28	1.251	2.397	1.225	1.967	0.41	1.318	N	0.308	0.083	0.359	0.155	0.128	0.086	N	0.592	NA	0.488	NA	0.278	NA	N	NA	NA	NA	NA	NA	NA	N	1.254	1.546	0.813	1.063	0.623	0.161	Y	1.379	0.631	1.123	0.691	0.858	0.885	N
	BCR-ABL		TQQYDCK	1	4		751				34	20	34	0.801	0.41	0.184	0.087	0.038	0.056	Y	0.144	0.107	0.069	0.085	0.039	0.027	Y	0.635	0.354	0.099	0.087	0.069	0.058	Y	0.116	0.118	0.112	0.056	0.105	0.012	Y	1.14	1.392	0.912	0.389	0.322	0.104	Y	0.763	0.5	0.42	0.25	0.113	0.024	Y
	BCR-ABL		VPELYEIHKEFYDGLFPR	1	5		554				44	18	31	1.025	0.499	0.397	0.086	0.165	0.133	N	0.214	0.155	0.182	0.161	0.159	0.227	Y	0.741	0.38	0.185	0.237	0.082	0.027	Y	NA	0.254	NA	0.636	NA	0.176	N	1.385	1.146	0.983	0.561	0.411	0.161	Y	0.766	0.671	0.553	0.15	0.174	0.108	Y
	BCR-ABL		VSPSPTTYR	1	8		360				41	24	96	0.779	0.546	0.295	0.198	0.112	0.092	Y	0.224	0.092	0.2	0.099	0.118	0.043	Y	0.831	0.366	0.254	0.116	0.119	0.077	Y	0.077	0.13	0.045	0.18	0.033	0.097	Y	0.982	1.27	0.929	0.56	0.421	0.117	Y	0.69	0.69	0.64	0.45	0.301	0.234	Y
	BCR-ABL		VSPSPTTYR	2	8	2|4	360	354|356			26	20	54	0.623	0.538	0.275	0.11	0.022	0.037	Y	0.074	NA	0.058	NA	0.023	NA	Y	0.928	0.357	0.211	0.104	0.066	0.029	Y	0.064	0.054	0.101	0.084	0.032	0.043	Y	1.164	1.063	0.938	0.492	0.277	0.061	Y	0.566	0.555	0.576	0.294	0.145	0.044	Y
	BCR-ABL		VYHYR	1	2		1073				17	12	19	NA	0.714	NA	0.364	NA	0.129	N	0.278	0.161	0.209	0.205	0.05	0.085	Y	NA	0.451	NA	0.219	NA	0.137	Y	0.25	0.194	0.286	0.231	0.107	0.056	Y	NA	1.527	NA	1.036	NA	0.249	Y	1.285	0.874	0.906	0.509	0.174	0.216	Y
	BCR-ABL		WNSKENLLAGPSENDPNLFVALYDFVASGDNTLSITK	1		3|12|23		951|960|971			64	6	6	1.104	NA	0.128	NA	0	NA	N	0.302	NA	0.12	NA	0	NA	N	0.797	0.247	0.352	0.533	0.091	0.113	N	NA	NA	NA	NA	NA	NA	N	0.862	NA	1.095	NA	0.153	NA	N	NA	NA	NA	NA	NA	NA	N
	BCR-ABL		WTAPESLAYNK	1	9		1314				73	21	47	0.796	0.616	0.278	0.133	0.082	0.155	Y	0.146	0.15	0.077	0.104	0.067	0.039	Y	0.711	0.431	0.177	0.084	0.077	0.067	Y	0.177	0.073	0.076	0.052	0.062	0.037	Y	1.27	1.093	0.805	0.434	0.202	0.076	Y	0.975	0.746	0.444	0.387	0.122	0.189	Y
	BCR-ABL		YSLTVAVK	1	1		1165		1165	UNIPROT	43	13	145	0.842	0.481	0.208	0.108	0.075	0.066	Y	0.056	0.058	0.045	0.051	0.022	0.034	Y	0.779	0.351	0.111	0.058	0.049	0.028	Y	0.052	0.058	0.061	0.067	0.032	0.036	Y	1.088	1.132	0.755	0.53	0.334	0.173	Y	0.955	0.634	0.479	0.152	0.134	0.068	Y
IPI00337426	BMP2K	BIKE	SESNEDLFGLVPFDEITGSQQQK	1		1|3		947|949			41	4	4	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	5.705	6.918	6.736	5.515	0	1.099	N	NA	NA	NA	NA	NA	NA	N	1.245	0.845	2.731	1.869	0	0.898	N	NA	NA	NA	NA	NA	NA	N
IPI00395672	BOLA2	SMG1	RNPERPSSSPALR	1		7|8|9		59|60|61			24	17	22	1.005	0.921	0.889	0.953	0.766	0.467	Y	1.237	NA	1.396	NA	0.625	NA	N	0.909	0.805	0.912	0.699	0.655	0.593	Y	1.493	0.824	1.425	1.221	0.749	0.944	Y	0.914	1.428	0.822	1.058	0.786	0.803	Y	1.509	1.38	1.668	2.007	1.035	0.785	Y
IPI00303797	BRAF	BRAF	ALQKSPGPQR	1	5		419		419	UNIPROT	17	15	21	1.23	0.889	1.211	0.763	0.87	0.831	Y	1.029	0.688	0.86	0.659	0.785	0.763	Y	NA	1.007	NA	1.325	NA	0.928	Y	0.581	0.845	1.08	1.049	1.008	0.63	Y	NA	3.593	NA	1.204	NA	0.807	Y	1.814	NA	1.495	NA	1.101	NA	Y
IPI00303797	BRAF	BRAF	DRSSSAPNVHINTIEPVNIDDLIR	1		4|5|13		364|365|373	364, 365, 373	UNIPROT,UNIPROT,UNIPROT	49	3	4	NA	NA	NA	NA	NA	NA	N	0.639	NA	0.817	NA	0.498	NA	N	NA	NA	NA	NA	NA	NA	N	0.677	0.786	1.703	1.027	0.893	0.407	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00303797	BRAF	BRAF	RDSSDDWEIPDGQITVGQR	1		3|4		446|447	446	UNIPROT	48	22	35	1.1	0.882	0.914	1.155	0.881	0.826	N	0.575	0.608	0.544	0.383	0.333	0.329	Y	0.681	1.062	0.814	0.56	0.433	0.811	Y	0.706	0.825	0.895	0.974	0.589	0.564	Y	0.916	1.519	0.455	0.686	0.389	0.418	Y	1.283	NA	0.867	NA	0.535	NA	N
IPI00303797	BRAF	BRAF	SASEPSLNR	1	3		729		729	UNIPROT	18	21	43	1.331	0.989	1.16	0.979	1.14	0.951	Y	0.935	0.741	0.824	0.683	0.727	0.734	Y	1.055	1.152	0.977	1.065	0.824	0.662	Y	0.12	0.852	0.559	1.07	0.723	0.733	Y	1.343	1.734	1.188	1.03	1.075	0.831	Y	1.683	1.37	1.352	1.512	0.913	1.12	Y
IPI00303797	BRAF	BRAF	SSSAPNVHINTIEPVNIDDLIR	1	2		364		364	UNIPROT	71	22	37	0.942	0.69	1.216	0.714	0.635	0.356	N	0.862	0.851	0.898	0.76	0.724	0.774	Y	1.161	0.624	0.727	1.286	0.653	0.526	Y	0.623	1.451	1.194	1.107	1.053	1.158	Y	1.445	1.693	0.856	1.217	0.613	0.842	Y	1.325	NA	1.884	NA	0.644	NA	N
IPI00014266	BRD3	BRD3	SESPPPLSDPK	1	3		263		263	UNIPROT	35	17	38	1.129	1.312	0.934	1.336	0.679	0.947	Y	0.8	0.964	0.639	0.87	0.533	0.68	Y	0.771	0.596	0.876	0.677	0.533	0.366	Y	0.962	0.68	1.084	0.572	0.621	0.358	Y	NA	NA	NA	NA	NA	NA	N	0.952	0.668	1.556	0.84	0.628	0.819	Y
IPI00029132	BTK	BTK	FTNSETAEHIAQGLR	1		2|4|6		601|603|605			50	22	40	1.31	1.098	0.766	0.603	0.538	0.261	Y	0.521	0.726	0.293	0.556	0.319	0.354	Y	0.835	1.358	0.644	0.857	0.369	0.471	Y	0.479	0.766	0.489	0.608	0.286	0.556	Y	1.321	1.565	1.209	0.981	0.641	0.973	Y	0.859	0.682	1.203	0.917	0.871	0.706	Y
IPI00029132	BTK	BTK	HLFSTIPELINYHQHNSAGLISR	1	12		360				48	8	10	1.324	NA	1.01	NA	0.615	NA	N	0.761	NA	0.603	NA	0.816	NA	N	1.338	1.142	1.14	0.611	0.55	0.544	N	NA	NA	NA	NA	NA	NA	N	2.121	2.53	0.871	1.168	0.416	0.413	Y	NA	NA	NA	NA	NA	NA	N
IPI00029132	BTK	BTK	KTSPLNFK	1	3		20				28	22	42	1.087	0.998	0.703	0.587	0.281	0.286	Y	0.596	0.458	0.307	0.201	0.205	0.123	Y	0.796	0.516	0.382	0.192	0.129	0.051	Y	0.675	0.242	0.364	0.185	0.208	0.107	Y	0.913	1.221	0.858	0.955	0.968	0.906	Y	1.022	0.983	1.192	1.096	0.905	0.71	Y
IPI00029132	BTK	BTK	KVVALYDYMPMNANDLQLR	1		6|8		222|224	222	UNIPROT	82	18	60	0.875	0.509	0.527	0.179	0.317	0.148	Y	0.319	0.126	0.023	0.159	0.005	0.033	Y	1.032	NA	0.435	NA	0.129	NA	Y	0.468	0.025	0.48	0.102	0.153	0.266	N	1.228	1.461	1.061	0.989	0.963	0.783	Y	1.107	0.93	1.086	0.929	1.055	0.766	Y
IPI00029132	BTK	BTK	LSYYEYDFER	1	4		39				54	10	11	1.897	0.675	0.889	0.427	0.528	0.175	N	NA	NA	NA	NA	NA	NA	N	0.985	1.15	0.419	0.555	0.149	0.382	N	NA	NA	NA	NA	NA	NA	N	1.177	2.15	1.004	0.986	0.987	1.079	Y	0.775	NA	0.984	NA	0.801	NA	N
IPI00029132	BTK	BTK	NGSLKPGSSHR	1	8		178				16	22	122	1.018	0.804	0.602	0.302	0.121	0.079	Y	0.636	0.399	0.195	0.136	0.043	0.028	Y	0.902	0.555	0.305	0.152	0.072	0.032	Y	0.523	0.161	0.104	0.071	0.062	0.027	Y	1.066	1.229	0.893	0.924	0.862	0.857	Y	1.159	1.042	1.238	1.069	0.907	0.739	Y
IPI00029132	BTK	BTK	STGDPQGVIR	1	2		323				25	20	29	0.942	0.881	0.842	0.454	0.318	0.12	Y	0.153	0.134	0.086	0.154	0.037	0.096	Y	0.857	0.746	0.303	0.308	0.09	0.205	Y	0.314	0.164	0.163	0.186	0.126	0.184	Y	1.248	2.794	1.118	1.134	0.601	0.566	Y	1.154	1.057	1.031	0.693	0.416	0.351	Y
IPI00029132	BTK	BTK	TSPLNFK	1		1|2		19|20			27	17	25	0.985	0.861	0.802	0.499	0.36	0.273	Y	0.687	0.394	0.39	0.362	0.163	0.12	Y	0.817	NA	0.563	NA	0.175	NA	N	0.528	0.378	0.462	0.246	0.216	0.134	N	1.695	1.009	1.302	0.953	1.365	0.803	Y	0.855	0.844	1.021	1.091	0.781	0.92	Y
IPI00029132	BTK	BTK	YNSDLVQK	1		1|3		133|135			42	5	5	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.139	1.566	1.438	1.064	0.843	0.881	Y	1.068	NA	0.873	NA	1.007	NA	N
IPI00029132	BTK	BTK	YVLDDEYTSSVGSK	1	7		550		550	UNIPROT	84	23	80	0.758	0.512	0.435	0.126	0.135	0.047	Y	0.107	0.075	0.044	0.05	0.028	0.027	Y	0.808	0.414	0.159	0.107	0.063	0.064	Y	0.157	0.056	0.047	0.049	0.03	0.018	Y	1.117	1.238	0.968	0.851	0.78	0.782	Y	0.629	0.754	0.739	0.753	0.887	0.71	Y
IPI00242960	C17orf27		VGKETSELGGSDVSILDTTR	1		11|14		2001|2004			16	20	131	0.781	0.68	1.02	0.779	0.945	0.847	Y	0.799	0.547	0.752	0.629	0.606	0.701	Y	0.695	0.715	0.814	0.88	0.793	0.764	Y	0.55	0.748	1.108	0.798	0.896	0.874	Y	0.636	0.636	0.839	0.835	0.747	0.689	Y	0.778	0.642	1.069	0.74	0.889	0.836	Y
IPI00301263	CAD		IHRASDPGLPAEEPK	1	5		1859		1859	UNIPROT	27	15	20	1.41	1.063	1.212	1.099	0.863	0.976	Y	0.745	1.065	0.549	0.568	0.543	0.515	N	0.967	1.506	0.993	1.06	0.656	0.765	Y	NA	0.848	NA	1.141	NA	0.488	N	0.631	0.97	0.721	0.869	0.403	0.81	Y	0.871	0.953	1.002	0.99	0.673	0.593	Y
IPI00301263	CAD		RLSSFVTK	1	3		1406				16	22	38	1.153	1.136	1.041	0.976	0.92	0.911	Y	0.983	1.246	0.844	0.814	0.567	0.721	Y	1.364	2.139	1.255	4.129	1.224	2.089	Y	1.052	1.487	1.346	1.777	1.159	1.148	Y	1.261	1.177	1.066	0.841	0.809	0.913	Y	0.666	0.707	1.069	1.22	1.002	1.238	Y
IPI00430291	CAMK2D	CaMK2d	KPDGVKESTESSNTTIEDEDVK	1		8|9		330|331			37	3	5	1.007	1.086	0.747	0.867	0.823	1.002	Y	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.668	NA	1.283	NA	0.992	NA	N	NA	NA	NA	NA	NA	NA	N	1.346	0.596	0.766	1.038	1.037	0.518	Y
IPI00169392	CAMK2G	CaMK2g	GAILTTMLVSR	1	10		289				20	19	34	1.122	0.975	1.497	0.918	0.654	0.442	Y	0.787	0.689	0.935	0.663	0.472	0.416	Y	1.358	0.87	1.006	0.629	0.662	0.867	Y	NA	0.574	NA	0.894	NA	0.48	Y	0.787	0.743	1.37	0.966	0.63	0.521	Y	0.746	0.603	1.006	0.894	0.528	0.639	Y
IPI00169392	CAMK2G	CaMK2g	GSTESCNTTTEDEDLK	1		3|5		381|383			62	1	2	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.294	NA	1.715	NA	2.337	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00169392	CAMK2G	CaMK2g	GSTESCNTTTEDEDLK	2	3&5		381&383				55	5	7	0.606	1.88	1.255	1.465	1.249	0.37	N	NA	NA	NA	NA	NA	NA	N	2.006	0.352	1.027	0.458	1.548	0.33	N	NA	NA	NA	NA	NA	NA	N	NA	2.907	NA	1.358	NA	1.96	N	1.832	NA	1.846	NA	1.067	NA	N
IPI00172450	CAMK2G	CaMK2g	GSTESCNTTTEDEDLKVR	1	3		371				61	22	44	1.455	1.432	1.283	0.947	1.57	0.495	Y	0.574	0.902	0.443	0.848	0.654	3.212	Y	1.124	0.886	1.164	1.107	0.968	0.911	Y	0.768	0.719	1.198	0.828	1.417	0.736	Y	1.231	2.007	1.253	1.222	0.896	0.856	Y	1.096	0.938	1.19	1.025	0.73	0.785	Y
IPI00172450	CAMK2G	CaMK2g	GSTESCNTTTEDEDLKVR	2	3&5		371&373				71	18	38	2.359	1.844	1.583	1.569	0.735	0.633	N	0.685	1.007	1.245	0.547	0.763	0.531	N	0.862	0.846	0.913	0.93	0.682	0.812	Y	1.498	0.623	1.471	1.076	0.952	0.758	Y	1.239	1.159	1.058	1.371	1.105	0.997	Y	1.711	0.836	1.55	0.973	1.333	0.852	N
IPI00169392	CAMK2G	CaMK2g	LHDSISEEGFHYLVFDLVTGGELFEDIVAR	1		4|6|12		57|59|65			56	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.512	NA	0.823	NA	0.603	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00216378	CAMK2G	CaMK2g	NFSAAKSLLNK	1	7		319		319	UNIPROT	20	23	115	0.849	0.759	0.949	0.744	0.609	0.274	Y	0.725	0.888	0.603	0.715	0.487	0.293	Y	1.028	1.227	0.876	0.974	0.73	0.951	Y	0.53	0.844	0.77	0.926	0.586	0.696	Y	1.055	1.049	0.876	0.782	0.799	0.652	Y	0.863	0.843	0.942	0.925	0.94	0.913	Y
IPI00169392	CAMK2G	CaMK2g	QETVECLR	1	3		265		265	PhosphoELM	27	24	148	0.991	1.19	0.962	1.129	0.746	0.496	Y	1.217	0.952	1.211	0.802	0.759	0.433	Y	0.946	0.916	1.03	1.04	0.716	0.724	Y	1.242	0.82	1.474	1.334	0.788	0.618	Y	1.058	1.188	1.051	0.904	0.834	0.839	Y	2.184	1.885	2.931	2.15	1.173	1.103	Y
IPI00169392	CAMK2G	CaMK2g	QSSAPASPAASAAGLAGQAAK	1		2|3		298|299			43	5	5	NA	0.056	NA	0.367	NA	0.387	N	0.726	NA	0.86	NA	0.464	NA	N	NA	NA	NA	NA	NA	NA	N	0.727	1.381	0.721	1.467	0.538	1.866	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00216378	CAMK2G	CaMK2g	SDGGVKPQSNNK	1	9		333				16	13	18	0.955	1.439	0.771	1.368	0.682	0.558	Y	1.091	NA	1.109	NA	0.664	NA	Y	1.057	0.747	1.073	0.675	0.767	0.442	Y	0.91	1.062	1.404	1.449	1.045	0.804	Y	NA	1.644	NA	0.963	NA	0.853	Y	0.526	NA	0.849	NA	0.757	NA	Y
IPI00169392	CAMK2G	CaMK2g	SLLNK	1	1		318				11	20	86	1.108	1.273	0.9	0.944	0.707	0.379	Y	0.765	0.729	0.651	0.651	0.601	0.411	Y	0.898	0.696	0.85	0.793	0.615	0.706	Y	0.577	0.797	1.013	1.116	0.846	0.776	Y	0.833	1.137	0.837	0.91	0.748	0.711	Y	1.114	0.683	1.412	0.934	1.052	0.795	Y
IPI00169392	CAMK2G	CaMK2g	STVASMMHR	1		1|5		254|258			44	11	13	0.95	1.046	0.765	1.285	0.529	0.391	Y	NA	NA	NA	NA	NA	NA	N	0.93	1.04	1.109	0.837	0.745	0.554	Y	1.228	0.8	1.194	0.897	0.657	0.553	Y	1.042	NA	0.874	NA	0.91	NA	Y	NA	NA	NA	NA	NA	NA	N
IPI00169392	CAMK2G	CaMK2g	STVASMMHRQETVECLR	1		5|12		258|265	265	PhosphoELM	28	24	435	1.317	0.872	1.369	0.952	1.098	0.632	Y	0.98	1.019	0.813	1.03	0.56	0.514	Y	1.232	1.542	1.023	1.364	0.968	1.081	Y	1.127	0.896	0.899	1.142	0.722	0.636	Y	1.174	1.275	1.055	1.038	1.028	0.94	Y	2.129	2.383	1.713	1.778	1.423	1.249	Y
IPI00169392	CAMK2G	CaMK2g	TAPSAGMQPQPSLCSSAMR	1	12		427				61	18	80	1.173	0.902	1.039	0.731	0.771	0.358	Y	0.502	0.518	0.626	0.587	0.537	0.396	Y	1.018	NA	1.412	NA	1.082	NA	Y	0.714	0.75	0.742	1.1	0.454	0.36	Y	1.013	NA	0.903	NA	0.78	NA	N	NA	0.926	NA	0.936	NA	0.767	N
IPI00169392	CAMK2G	CaMK2g	TAPSAGMQPQPSLCSSAMR	2	4&12		419&427				42	15	34	0.56	0.649	0.551	0.785	0.629	0.517	N	NA	NA	NA	NA	NA	NA	N	1.66	0.702	0.887	0.59	0.839	0.434	Y	2.782	0.575	3.73	0.888	1.154	0.454	Y	1.226	2.711	1.568	1.204	0.774	0.825	Y	0.936	0.955	1.046	1.332	0.725	0.866	Y
IPI00169392	CAMK2G	CaMK2g	TGNGSSVPEGR	1	5		404				38	23	127	1.019	1.019	1.196	1.216	0.692	0.538	Y	0.841	1.016	1.081	1.131	0.644	0.665	Y	1.304	0.96	1.463	1.16	0.767	0.714	Y	1.115	0.905	1.506	1.247	0.663	0.618	Y	1.352	3.645	1.397	1.118	1.049	0.843	Y	1.005	1.226	1.177	1.579	0.811	0.732	Y
IPI00290239	CAMKK2	CaMKK2	CICPSLPYSPVSSPQSSPR	2	9	13|16	129	133|136			55	22	56	1.111	0.943	0.913	0.903	0.391	0.385	Y	0.619	0.681	0.753	0.798	0.468	0.096	Y	0.919	0.6	0.702	1.098	0.561	0.526	Y	0.424	0.999	0.653	0.994	0.615	0.703	Y	0.961	1.352	1.108	0.869	0.496	0.461	Y	1.097	0.951	1.091	0.63	0.683	0.814	Y
IPI00290239	CAMKK2	CaMKK2	CICPSLPYSPVSSPQSSPR	3	9&13&16		129&133&136				40	22	63	1.576	0.647	1.374	0.659	0.966	0.254	Y	0.712	1.069	0.557	0.853	0.465	0.368	Y	0.992	1.075	0.818	0.823	0.771	0.683	Y	1.291	0.994	1.687	1.272	0.825	0.622	Y	1.142	0.991	1.163	0.906	0.955	0.412	Y	1.239	0.499	1.131	1.264	0.766	1.042	N
IPI00290239	CAMKK2	CaMKK2	KRSFGNPFEGSR	1	3		495		495	UNIPROT	21	18	23	1.347	0.93	1.246	1.115	0.728	0.749	Y	0.725	0.758	0.665	0.817	0.457	0.356	Y	0.898	0.866	1.084	1.077	0.578	0.84	Y	0.831	0.883	1.138	1.084	0.689	0.636	Y	1.332	NA	1.113	NA	1.186	NA	Y	1.786	0.89	2.011	1.151	1.559	0.704	Y
IPI00290239	CAMKK2	CaMKK2	SLSAPGNLLTK	1	3		511		511	PhosphoELM	25	23	61	1.046	1.065	0.925	1.001	0.831	0.369	Y	0.574	0.835	0.516	0.619	0.373	0.226	Y	1.36	1.117	1.13	1.037	0.895	0.876	Y	0.984	0.713	1.158	0.938	0.85	0.486	Y	1.086	1.215	0.995	0.93	0.825	0.747	Y	0.954	0.851	0.914	0.749	0.483	0.624	Y
IPI00021305	CCNH		HEEEEWTDDDLVESL	1	7		315		315	UNIPROT	93	23	107	1.19	1.001	1.039	0.703	0.79	0.689	Y	0.972	1.072	0.618	0.776	0.503	0.514	Y	1.162	1.366	0.962	1.517	0.856	1.51	Y	0.736	0.992	1.253	0.971	0.8	1.082	Y	1.198	1.752	0.816	1.105	0.834	0.694	Y	1.088	0.871	1.005	0.828	0.805	0.924	Y
IPI00026689	CDC2	CDC2	IGEGTYGVVYK	1	5		14		14	UNIPROT	66	19	113	1.133	1.031	1.172	1.008	0.907	0.684	Y	1.02	0.803	0.689	0.634	0.642	0.459	Y	0.976	0.852	0.955	1.046	0.774	0.655	Y	0.732	0.594	0.995	0.807	0.73	0.679	Y	1.046	0.948	0.854	0.939	0.783	0.667	Y	1.195	0.65	1.395	0.88	0.716	0.666	Y
IPI00026689	CDC2	CDC2	IGEGTYGVVYK	2	5&6		14&15		14, 15	UNIPROT,UNIPROT	21	18	24	1.152	1.025	1.134	1.455	0.803	0.662	Y	0.887	0.797	0.619	0.484	0.538	0.293	Y	1.063	1.039	0.814	1.083	0.66	0.688	Y	0.674	0.838	1.35	0.745	0.76	0.518	Y	1.137	1.035	0.877	0.884	0.805	0.615	Y	1.022	0.883	1.276	1.123	0.622	0.585	Y
IPI00026689	CDC2	CDC2	VYTHEVVTLWYR	1		2|3		166|167	167	UNIPROT	39	5	7	NA	NA	NA	NA	NA	NA	N	1.484	0.784	1.224	0.743	0.756	0.583	Y	0.842	NA	0.624	NA	0.426	NA	N	NA	1.308	NA	1.36	NA	0.548	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00031681	CDK2	CDK2	IGEGTYGVVYK	1	5		14		14	UNIPROT	66	19	137	1.134	1.031	1.172	1.008	0.907	0.684	Y	1.015	0.818	0.672	0.643	0.618	0.467	Y	0.977	0.852	0.955	1.047	0.774	0.656	Y	0.733	0.608	0.987	0.807	0.727	0.68	Y	1.039	0.948	0.852	0.939	0.785	0.667	Y	1.19	0.65	1.388	0.88	0.718	0.666	Y
IPI00031681	CDK2	CDK2	IGEGTYGVVYK	2	5&6		14&15		14, 15	UNIPROT,UNIPROT	21	18	23	1.152	1.025	1.134	1.455	0.803	0.662	Y	0.887	0.797	0.619	0.484	0.538	0.293	Y	1.063	1.039	0.814	1.083	0.66	0.688	Y	0.674	0.738	1.35	0.737	0.76	0.433	Y	1.137	1.035	0.877	0.884	0.805	0.615	Y	1.022	0.883	1.276	1.123	0.622	0.585	Y
IPI00031681	CDK2	CDK2	TYTHEVVTLWYR	1	3		160		160	UNIPROT	57	23	450	1.266	1.057	1.125	1.133	0.88	0.733	Y	0.795	0.872	0.758	0.821	0.59	0.698	Y	1.075	0.896	1.016	1.082	0.716	0.937	Y	0.954	0.868	1.258	1.171	0.966	0.938	Y	1.217	1.652	1.252	1.014	0.852	0.889	Y	1.073	0.915	1.292	1.026	0.985	0.917	Y
IPI00023503	CDK3	CDK3	IGEGTYGVVYK	1	5		42		42	UNIPROT	66	19	113	1.133	1.031	1.172	1.008	0.907	0.684	Y	1.02	0.803	0.689	0.634	0.642	0.459	Y	0.976	0.852	0.955	1.046	0.774	0.655	Y	0.732	0.594	0.995	0.807	0.73	0.679	Y	1.046	0.948	0.854	0.939	0.783	0.667	Y	1.195	0.65	1.395	0.88	0.716	0.666	Y
IPI00023503	CDK3	CDK3	TYTHEVVTLWYR	1	3		188		188	UNIPROT	57	23	450	1.266	1.057	1.125	1.133	0.88	0.733	Y	0.795	0.872	0.758	0.821	0.59	0.698	Y	1.075	0.896	1.016	1.082	0.716	0.937	Y	0.954	0.868	1.258	1.171	0.966	0.938	Y	1.217	1.652	1.252	1.014	0.852	0.889	Y	1.073	0.915	1.292	1.026	0.985	0.917	Y
IPI00023530	CDK5	CDK5	LNATGRDLLQNLLK	1	4		258				17	16	19	1.007	0.739	1.204	0.721	0.645	0.248	Y	0.814	0.918	0.757	1.056	0.502	0.999	Y	1.159	NA	1.047	NA	0.71	NA	Y	0.932	0.76	1.149	0.859	0.965	0.566	Y	0.741	1.283	0.638	1.231	0.718	0.897	Y	0.912	NA	1.092	NA	0.93	NA	Y
IPI00000685	CDK7	CDK7	AYTHQVVTR	1	3		170		170	UNIPROT	35	24	321	1.131	1.251	1.063	1.053	0.811	0.771	Y	0.934	0.801	0.842	0.722	0.587	0.585	Y	1.085	0.875	0.966	0.849	0.752	0.707	Y	0.95	0.821	1.233	1.025	0.769	0.671	Y	1.071	1.657	1.083	1.069	0.907	0.752	Y	1.202	1.026	1.475	1.137	0.895	0.78	Y
IPI00000685	CDK7	CDK7	SFGSPNRAYTHQVVTR	2	4&10		164&170		164, 170	UNIPROT,UNIPROT	29	24	258	1.283	0.957	1.49	1.072	1.011	0.725	Y	0.836	0.943	0.749	0.834	0.544	0.544	Y	1.128	1.494	1.122	1.381	0.806	0.955	Y	1.073	0.893	1.088	1.02	0.953	0.673	Y	1.273	1.283	1.15	1.04	0.91	0.881	Y	1.256	1.178	1.082	1.082	1.008	0.882	Y
IPI00552413	CDK9	CDK9	NSQPNRYTNR	1	8		303		303	UNIPROT	20	19	36	0.963	1.042	1.101	0.92	0.812	0.568	Y	0.999	0.774	1.067	0.808	0.74	0.433	Y	1.071	0.519	1.793	0.805	1.18	0.346	Y	0.83	0.884	1.399	1.104	0.844	0.552	Y	NA	NA	NA	NA	NA	NA	N	1.11	0.578	1.634	1.418	1.007	0.625	Y
IPI00028061	CLK1	CLK1	KRTRSVEDDEEGHLICQSGDVLSAR	2	3&5		138&140		138, 140	UNIPROT,UNIPROT	48	20	48	1.075	1.033	1.446	1.29	1.03	0.807	Y	0.597	0.806	0.406	0.686	0.7	0.592	Y	1.021	1.305	1.116	1.309	0.537	0.885	Y	1.892	0.856	1.906	0.963	1.174	0.476	Y	1.328	1.521	1.254	1.061	0.936	0.681	Y	1.094	1.114	1.182	0.643	0.627	0.538	N
IPI00028061	CLK1	CLK1	SINEKDYHSR	1	1		61				17	14	18	1.124	1.08	1.106	0.808	0.715	0.5	Y	0.775	1.441	0.463	1.206	0.812	0.866	Y	0.994	0.998	1.041	0.828	0.665	0.665	Y	1.6	0.729	1.153	0.998	0.598	0.553	Y	0.59	1.539	0.656	0.812	0.549	0.761	Y	NA	NA	NA	NA	NA	NA	N
IPI00028061	CLK1	CLK1	SVEDDEEGHLICQSGDVLSAR	1	1		140		140	UNIPROT	61	23	44	1.418	1.766	1.089	0.947	0.71	0.53	Y	0.702	1.008	0.455	0.829	0.483	0.643	Y	0.843	1.146	0.748	1.28	0.604	1.131	Y	0.871	0.375	1.134	0.688	0.842	0.389	Y	0.943	1.28	0.728	0.938	0.494	0.674	Y	1.379	0.789	1.177	0.704	1.04	0.596	Y
IPI00180143	CLK4	CLK4	SIEDDEEGHLICQSGDVLR	1	1		138		138	UNIPROT	37	4	4	NA	0.923	NA	0.755	NA	0.507	N	NA	NA	NA	NA	NA	NA	N	1.481	0.674	0.976	0.671	0.664	0.564	N	NA	NA	NA	NA	NA	NA	N	1.569	NA	1.46	NA	0.637	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00013212	CSK	CSK	VMEGTVAAQDEFYR	1	13		184		184	UNIPROT	71	22	125	0.893	0.949	0.918	0.613	0.243	0.17	Y	0.265	0.145	0.205	0.13	0.085	0.085	Y	0.945	0.467	0.386	0.291	0.112	0.158	Y	0.118	0.302	0.149	0.461	0.086	0.093	Y	1.048	1.483	1.007	0.928	0.64	0.766	Y	0.564	0.469	0.489	0.274	0.184	0.142	Y
IPI00011102	CSNK1D	CK1d	GTQEVAPPTPLTPTSHTANTSPRPVSGMER	1		9|12|14|15|17|20|21|26		344|347|349|35	350	UNIPROT	41	13	41	0.842	1.004	1.053	0.531	0.652	0.553	Y	0.541	0.703	0.74	0.575	0.291	0.249	Y	0.839	0.768	0.78	0.689	0.479	0.491	Y	0.925	1.612	1.283	1.315	0.59	0.801	Y	0.429	1.626	0.803	1.143	0.434	0.628	N	0.858	0.661	0.771	2.012	0.499	1.454	N
IPI00011102	CSNK1D	CK1d	LRGTQEVAPPTPLTPTSHTANTSPRPVSGMER	1		16|17|22|23		349|350|355|35	350	UNIPROT	44	10	20	1.231	2.494	1.457	1.881	1.257	0.139	N	0.588	0.999	0.739	0.862	0.276	0.216	N	1.815	NA	1.965	NA	1.245	NA	N	1.119	0.625	1.759	0.866	0.782	0.479	N	2.056	2.168	1.133	1.359	1.256	0.738	N	NA	0.611	NA	0.418	NA	0.136	N
IPI00027729	CSNK1E	CK1e	IQPAGNTSPR	1	8		363		363	UNIPROT	14	19	36	1.291	1.003	1.154	0.705	0.732	0.353	Y	1.011	0.912	0.781	0.588	0.577	0.355	Y	1.116	1.018	0.983	1.018	0.691	0.571	Y	1.239	0.867	1.329	0.878	0.902	0.563	Y	1.514	1.335	1.154	0.79	1.427	0.633	Y	1.107	NA	0.901	NA	0.623	NA	Y
IPI00010865	CSNK2B		IHPMAYQLQLQAASNFKSPVK	1	18		209		209	UNIPROT	30	23	125	1.727	1.216	1.808	1.121	1.191	0.997	Y	1.084	1.046	0.696	0.941	0.827	0.933	Y	1.452	1.224	1.187	1.136	0.886	0.998	Y	0.809	1.377	1.237	1.592	1.21	1.328	Y	2.376	1.958	2.001	1.348	1.469	0.972	Y	2.655	2.578	2.42	2.013	1.602	1.334	Y
IPI00020454	DCK		WCNVQSTQDEFEELTMSQK	1	17		74				83	18	44	0.777	1.489	1.409	0.896	0.513	1.479	Y	0.982	0.584	0.563	0.516	0.441	0.365	Y	1.232	0.933	0.627	0.61	0.959	0.683	Y	0.918	1.031	1.187	1.026	0.874	0.972	Y	NA	3.629	NA	0.7	NA	0.642	Y	0.809	0.701	1.223	0.862	0.233	2.003	N
IPI00015287	DOK1		ADSHEGEVAEGK	1	3		269		269	UNIPROT	52	7	11	NA	2.152	NA	0.692	NA	0.097	N	0.127	NA	0.054	NA	0.01	NA	N	NA	0.409	NA	0	NA	0.029	N	NA	NA	NA	NA	NA	NA	N	1.009	1.185	1.374	1.152	0.636	1.018	N	0.385	0.374	1.119	0.553	0.38	0.187	Y
IPI00015287	DOK1		KKPLYWDLYEHAQQQLLK	1		5|9		337|341	337, 341	UNIPROT,UNIPROT	34	7	9	NA	NA	NA	NA	NA	NA	N	NA	0.124	NA	0.092	NA	0.031	N	NA	NA	NA	NA	NA	NA	N	NA	0.136	NA	0.071	NA	0.068	N	1.812	1.043	1.048	0.74	0.791	0.671	N	0.413	0.405	0.517	0.521	0.356	0.364	N
IPI00015287	DOK1		LTDPKEDPIYDEPEGLAPVPPQGLYDLPR	2	10&25		362&377		362, 377	UNIPROT,UNIPROT	38	3	4	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.878	NA	0.958	NA	0.746	NA	N	0.193	1.043	0.468	0.369	0.645	0.337	N
IPI00015287	DOK1		SHNSALYSQVQK	1	7		449		449	UNIPROT	92	23	110	0.921	0.719	0.726	0.609	0.413	0.272	Y	0.387	0.205	0.256	0.213	0.151	0.157	Y	0.677	0.596	0.543	0.398	0.37	0.151	Y	0.358	0.355	0.362	0.434	0.321	0.263	Y	1.043	2.713	0.908	0.663	1.231	0.699	Y	0.519	0.551	0.826	0.82	0.501	0.333	Y
IPI00015287	DOK1		VKEEGYELPYNPATDDYAVPPPR	1	17		409		409	UNIPROT	59	7	8	1.392	0.822	1.215	1.264	0.697	0.081	N	0.144	0.287	0.051	0.395	0.064	0	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.742	1.569	0	1.579	0	0.903	N
IPI00015287	DOK1		VKEEGYELPYNPATDDYAVPPPR	2	17	6|10	409	395|399	409	UNIPROT	60	10	15	NA	NA	NA	NA	NA	NA	N	0.152	0.12	0.1	0.247	0.056	0	N	0.82	NA	0.123	NA	0.06	NA	N	NA	NA	NA	NA	NA	NA	N	1.049	1.139	0.778	0.807	1.893	0.704	Y	0.91	0.71	0.798	1.068	0.431	0.688	N
IPI00022602	DOK2		GQEGEYAVPFDAVAR	1	6		299		299	UNIPROT	65	24	114	1.105	0.908	0.895	0.667	0.433	0.241	Y	0.217	0.174	0.064	0.132	0.048	0.095	Y	0.824	0.52	0.355	0.27	0.158	0.11	Y	0.121	0.045	0.111	0.084	0.094	0.044	Y	1.164	1.236	1.022	0.929	0.94	0.836	Y	0.832	0.718	1.037	0.693	0.639	0.23	Y
IPI00398192	DOK2		QATADRDPAGLQHVQPAGQDFSASGWQPGTEYDNVVLK	1	32		402				63	3	5	1.431	0.763	0.742	0.457	0.278	0.341	N	NA	NA	NA	NA	NA	NA	N	0.611	NA	0.301	NA	0.041	NA	N	NA	NA	NA	NA	NA	NA	N	NA	6.714	NA	1.699	NA	1.069	N	1.012	NA	0.537	NA	0.093	NA	N
IPI00022602	DOK2		QSRPCMEENELYSSAVTVGPHK	1	12		139		139	PhosphoELM	59	22	105	0.95	0.994	0.932	0.665	0.341	0.183	Y	0.384	0.258	0.116	0.163	0.068	0.078	Y	0.923	0.533	0.408	0.184	0.162	0.238	Y	0.191	0.241	0.284	0.259	0.238	0.166	Y	1.042	1.765	0.9	0.981	0.855	0.818	Y	0.761	0.52	1.11	0.799	0.499	0.261	Y
IPI00156649	DOK3		ATSLPSLDTPGELR	1		2|3|6		329|330|333			45	2	2	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.108	NA	0.847	NA	0.802	NA	N
IPI00014344	DYRK1A	DYRK1A	IYQYIQSR	1	4		321		321	UNIPROT	36	22	55	0.971	1.089	1.131	0.993	0.687	0.707	Y	0.868	0.73	0.797	0.586	0.527	0.422	Y	0.879	1.259	0.904	1.11	0.702	0.898	Y	0.693	0.702	0.885	0.822	0.613	0.512	Y	1.302	0.977	1.063	0.864	0.769	0.692	Y	1.043	1.002	1.139	0.884	0.67	0.587	Y
IPI00000352	DYRK1B	DYRK1B	IYQYIQSR	1	4		273		273	UNIPROT	36	22	55	0.971	1.089	1.131	0.993	0.687	0.707	Y	0.868	0.73	0.797	0.586	0.527	0.422	Y	0.879	1.259	0.904	1.11	0.702	0.898	Y	0.693	0.702	0.885	0.822	0.613	0.512	Y	1.302	0.977	1.063	0.864	0.769	0.692	Y	1.043	1.002	1.139	0.884	0.67	0.587	Y
IPI00328149	EIF2AK1	HRI	AAIELPSLEVLSDQEEDREQCGVK	1	12		258				46	17	22	1.086	1.36	0.633	0.963	1.034	0.11	N	1.83	0.986	2.213	0.61	0.535	0.166	N	0.642	0.588	0.849	1.236	0.524	0.549	Y	1.456	1.34	2.101	0.877	1.111	0.771	N	0.828	1.263	1.259	0.76	0.737	0.701	N	NA	NA	NA	NA	NA	NA	N
IPI00328149	EIF2AK1	HRI	FGESDTENQNNK	1		4|6		295|297			23	14	16	NA	0.955	NA	0.756	NA	0.224	N	0.554	NA	0.463	NA	0.532	NA	N	0.791	0.779	0.669	0.842	0.529	0.56	Y	0.608	0.538	1.373	0.726	1.676	0.64	N	0.946	1.135	1.19	0.672	0.869	0.785	N	0.647	1.135	1.942	1.384	1.528	1.014	N
IPI00163851	EIF2AK4	GCN2	HERPAGPGTPPPDSGPLAK	1	9		667		667	UNIPROT	40	9	15	NA	1.152	NA	1.066	NA	1.073	N	NA	NA	NA	NA	NA	NA	N	1.158	0.9	0.912	0.892	0.593	0.457	Y	1.728	0.68	1.604	0.681	0.904	0.429	Y	1.223	1.325	1.129	0.99	1.165	0.722	Y	1.156	NA	1.218	NA	0.453	NA	N
IPI00290461	EIF3S1		AAAAAAAGDSDSWDADAFSVEDPVRK	1	10		11		11	UNIPROT	95	24	73	0.227	0.681	0.392	0.808	0.211	0.437	Y	0.93	0.435	0.364	0.936	0.383	0.57	Y	1.792	0.65	2.649	0.957	0.49	0.546	Y	1.101	1.266	1.577	1.263	1.074	0.759	Y	0.4	2.596	0.626	1.09	0.281	0.57	Y	1.382	2.644	0.679	1.787	0.868	4.805	Y
IPI00290461	EIF3S1		AAAAAAAGDSDSWDADAFSVEDPVRK	2	10		11		11	UNIPROT	30	18	36	1.22	0.824	1.332	1.006	0.673	1.324	N	1.423	1.039	0.741	0.864	0.38	0.565	Y	1.779	1.493	2.024	0.913	0.968	1.674	Y	0.965	0.828	0.955	1.023	0.863	0.77	Y	1.238	NA	1.246	NA	0.371	NA	N	1.261	NA	1.287	NA	0.573	NA	N
IPI00290461	EIF3S1		RLEEPEEPKVLTPEEQLADKLR	1	12		109		109	UNIPROT	31	1	1	NA	NA	NA	NA	NA	NA	N	1.199	NA	0.854	NA	0.412	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00289342	EPHB4	EphB4	EAEYSDK	1	4		574				46	20	42	1.019	0.612	0.37	0.208	0.127	0.087	Y	0.17	0.147	0.077	0.124	0.046	0.093	Y	0.396	0.178	0.146	0.039	0.067	0.018	Y	0.085	0.03	0.13	0.06	0.074	0.027	Y	1.034	1.537	0.926	0.775	0.854	0.936	Y	0.948	0.637	0.57	0.481	0.613	0.698	Y
IPI00289342	EPHB4	EphB4	SQAKPGTPGGTGGPAPQY	1	7		976				39	10	14	0.75	1.178	0.621	0	0.452	0.079	Y	0.534	0.568	0.298	0.32	0.271	0.268	Y	0.87	NA	0.609	NA	0.33	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.612	NA	0.439	NA	0.274	N	1.394	NA	0.987	NA	0.784	NA	N

Abbreviations: SSM; number of spectrum-to-sequence matches, NA; not available.

IPI acc. no.	Protein	Kinase	Phospopeptide sequence	# of sites in peptide	modified position in peptide	possible modification positions in peptide	location of P-site in protein	possible locations of phosphorylation site(s) in protein	location of known p-site	source database of known p-site (Uniprot, PhosphoElm, Phosida)	highest mascot ion score	Found in # of experiments (max. 24)	Total SSM	bosutinib applied to lysate							bosutinib applied to cultured cells							dasatinib applied to lysate							dasatinib applied to cultured cells							imatinib applied to lysate							imatinib applied to cultured cells						
														kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation
														0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM	
IPI00328846	FAM83A		FTGQAVELFDEEFRHLYASSKPVMGLKSPR	1		17|19|20		290|292|293			13	17	26	1.07	0.813	1.23	0.761	0.906	0.554	Y	NA	0.938	NA	0.844	NA	0.315	Y	1.741	1.727	1.502	2.008	1.115	1.214	Y	1.182	0.518	1.149	1.128	0.945	0.608	Y	1.82	1.147	0.694	0.904	0.763	0.806	Y	0.89	NA	0.86	NA	1.196	NA	N
IPI00328846	FAM83A		SVSASSGPCSPAAPHPPPPPR	1		3|10		350|357			48	11	15	0.703	0.892	1.02	1.182	0.575	0.677	Y	NA	NA	NA	NA	NA	NA	N	0.917	1.105	0.86	1.066	0.451	0.43	Y	1.054	1.142	1.141	0.908	0.499	0.578	N	0.809	NA	0.986	NA	0.484	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00328846	FAM83A		SVSASSGPCSPAAPHPPPPPR	2	3&10		350&357				36	10	14	1.325	NA	1.464	NA	0.728	NA	N	NA	NA	NA	NA	NA	NA	N	0.881	1.495	0.762	1.19	0.654	0.5	Y	1.116	NA	1.659	NA	1.203	NA	N	1.237	1.82	0.997	0.931	0.926	0.582	Y	NA	NA	NA	NA	NA	NA	N
IPI00029263	FER	FER	EPPPVVNYEEDAR	1	8		402		402	UNIPROT	59	24	93	1.117	1.113	0.954	0.91	0.444	0.163	Y	0.653	0.716	0.505	0.462	0.151	0.066	Y	1.032	1.448	0.939	1.134	0.744	1.018	Y	0.727	0.718	0.673	0.542	0.669	0.556	Y	1.341	1.174	1.216	1.041	1.119	0.685	Y	0.845	0.741	0.986	0.895	0.993	0.819	Y
IPI00029263	FER	FER	HSIAGIIRSPK	1	9		434		434	UNIPROT	9	13	17	NA	NA	NA	NA	NA	NA	N	0.614	NA	0.609	NA	0.612	NA	N	2.681	1.59	1.723	0.475	2.042	1.043	N	0.798	0.841	0.593	0.93	1.067	0.874	Y	0.871	0.964	1.021	0.648	0.526	0.763	Y	1.072	1.263	1.389	1.464	1.131	0.677	Y
IPI00029263	FER	FER	QEDGGVYSSSGLK	1	7		714		714	UNIPROT	81	24	88	1.174	1.285	1.044	1.064	0.636	0.234	Y	0.548	0.465	0.353	0.363	0.157	0.032	Y	1.009	1.057	0.914	0.923	0.723	0.855	Y	0.624	0.498	0.459	0.407	0.481	0.384	Y	1.365	1.641	1.109	1.046	0.866	0.719	Y	0.81	0.864	0.99	1.228	1.141	0.903	Y
IPI00029263	FER	FER	SVTSMERK	1	4		411				8	14	18	1.348	1.201	1.138	0.819	0.471	0.208	Y	0.953	NA	0.645	NA	0.226	NA	Y	0.959	1.615	0.781	1.379	0.825	1.062	Y	0.418	1.213	0.651	0.756	0.513	0.55	Y	1.016	0.982	0.985	1.373	0.965	0.533	Y	0.799	NA	0.674	NA	0.574	NA	Y
IPI00005142	FGFR1	FGFR1	PILQAGLPANKTVALGSNVEFMCK	1		12|17		266|271			31	5	6	0.704	NA	1.066	NA	0.781	NA	N	0.998	0.875	0.705	0.898	0.295	0.573	N	0.892	NA	0.865	NA	0.522	NA	N	NA	0.534	NA	0.839	NA	0.515	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00219012	FYN	FYN	DGSLNQSSGYR	1	10		27		27	PhosphoELM	59	18	48	0.841	0.84	0.501	0.303	0.13	0.108	Y	0.147	0.096	0.085	0.063	0.041	0.033	Y	0.828	0.469	0.377	0.194	0.184	0.143	Y	NA	NA	NA	NA	NA	NA	N	1.175	0.773	1.112	1.02	0.993	0.668	Y	1.34	0.537	1.744	1.019	1.373	0.788	Y
IPI00219012	FYN	FYN	KDPEERPTFEYLQSFLEDYFTATEPQYQPGENL	1	27		530		530	UNIPROT	55	11	11	1.972	1.02	1.554	0.76	0.605	0.278	N	NA	0.557	NA	0.267	NA	0.169	N	0.94	0.644	0.526	0.31	0.168	0	N	NA	NA	NA	NA	NA	NA	N	1.181	0.928	0.955	0.734	1.406	0.654	N	NA	NA	NA	NA	NA	NA	N
IPI00219012	FYN	FYN	KLDNGGYYITTR	1	7		212				51	7	18	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.942	NA	0.645	NA	0.397	Y	NA	NA	NA	NA	NA	NA	N	1.274	1.44	1.112	0.951	0.883	0.687	Y	1.196	NA	1.021	NA	0.979	NA	Y
IPI00219012	FYN	FYN	LIEDNEYTAR	1	7		419		419	UNIPROT	61	23	229	0.84	0.502	0.31	0.118	0.083	0.033	Y	0.301	0.145	0.071	0.044	0.031	0.02	Y	0.501	0.241	0.081	0.068	0.03	0.033	Y	0.034	0.037	0.035	0.053	0.02	0.028	Y	1.1	1.22	0.986	0.904	0.96	0.812	Y	1.248	1.144	1.265	1.111	1.035	1.137	Y
IPI00219012	FYN	FYN	LTDLSVK	1	2		253				20	15	17	0.726	1.721	0.892	1.489	0.737	1.098	Y	NA	0.677	NA	0.575	NA	0.593	Y	0.971	0.981	0.87	0.916	0.754	0.889	Y	0.741	0.963	1.285	0.672	0.635	1.1	Y	0.936	1.14	0.947	0.755	0.485	0.841	Y	0.898	NA	0.93	NA	0.884	NA	Y
IPI00219012	FYN	FYN	LTEERDGSLNQSSGYR	1	8		20		20	UNIPROT	36	12	15	NA	0.662	NA	0.605	NA	0.26	N	0.418	0.467	0.341	0.631	0.132	0	N	1.426	NA	0.851	NA	0.139	NA	N	NA	0.426	NA	0.233	NA	0.201	N	0.809	0.834	0.613	0.997	1.214	0.889	Y	1.091	1.786	1.06	1.892	1.123	2.079	Y
IPI00012442	G3BP		SSSPAPADIAQTVQEDLR	1		1|2|3		230|231|232	230, 231, 232	PhosphoELM,PhosphoELM,UNIPROT	51	2	2	NA	NA	NA	NA	NA	NA	N	NA	1.636	NA	2.624	NA	0.616	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00298949	GAK	GAK	DESEVSDEGGSPISSEGQEPR	2	3,6		826&829				60	4	4	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.941	NA	0.778	NA	0.359	NA	N	NA	NA	NA	NA	NA	NA	N	NA	3.612	NA	0.869	NA	0.302	N	NA	1.574	NA	1.086	NA	0.873	N
IPI00298949	GAK	GAK	ESESALMEDRDESEVSDEGGSPISSEGQEPR	1		13|16|21		826|829|834			61	3	3	2.12	NA	0.57	NA	0	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.292	NA	1.28	NA	0.186	NA	N
IPI00298949	GAK	GAK	ESESALMEDRDESEVSDEGGSPISSEGQEPR	2		13|16|21		826|829|834			38	3	5	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.469	4.132	0.911	1.728	0.282	1.282	N	0.647	NA	0.716	NA	0.579	NA	N
IPI00298949	GAK	GAK	SLLQSALDFLAGPGSLGGASGR	1		15|20		16|21			40	17	24	2.306	1.794	1.353	7.309	0.674	0.322	N	NA	0.35	NA	1.438	NA	0.05	N	1.284	3.492	5.87	17.724	0.97	18	N	0.926	0.373	2.006	0.905	0.479	0.702	N	1.673	10.559	1.307	23.533	0.231	0.885	N	NA	0.623	NA	2.48	NA	1.087	N
IPI00292753	GAPVD1		EVSSRPSTPGLSVVSGISATSEDIPNKIEDLR	1	7		761				54	2	2	2.092	NA	1.287	NA	1.123	NA	N	1.449	NA	3.06	NA	0.788	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00292753	GAPVD1		EVSSRPSTPGLSVVSGISATSEDIPNKIEDLR	2	7	3|8	761	757|762			51	4	4	1.238	NA	1.012	NA	0.866	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.207	NA	2.017	NA	0.782	NA	N	0.713	NA	1.033	NA	0.673	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00292753	GAPVD1		SRSSDIVSSVR	1	3		929				63	24	118	1.203	1.086	1.443	1.063	0.856	0.48	Y	1.014	1.015	1.092	1.033	0.667	0.388	Y	1.27	0.906	1.458	1.055	0.775	0.65	Y	1.321	1.393	1.79	1.65	1.191	0.904	Y	1.398	1.631	1.556	1.074	0.955	0.833	Y	0.907	0.956	1.406	1.466	0.912	0.814	Y
IPI00478128	GATAD2A		VTPEPGAGPTQGLLRATEATAMAMGR	2	2&10		68&76				33	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.209	NA	0.127	NA	0	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00217952	GFPT1		VDSTTCLFPVEEK	1		3|4		261|262	261	UNIPROT	40	10	13	1.956	NA	1.109	NA	0.987	NA	N	0.541	7.398	0.24	2.003	0.384	3.037	N	0.87	0.81	1.028	0.754	0.62	0.368	N	1.454	1.244	1.048	1.272	0.864	0.899	Y	NA	NA	NA	NA	NA	NA	N	0.232	NA	0.416	NA	0.922	NA	N
IPI00180434	GRAMD1A		AGIHTSGSLSSR	1		5|6		709|710			26	14	22	1.751	1.02	1.321	0.45	1.098	0.796	Y	0.657	0.642	0.46	0.541	0.606	0.256	Y	NA	0.864	NA	1.072	NA	0.617	N	0.72	0.937	0.927	0.892	0.939	0.464	Y	1.801	NA	1.549	NA	1.21	NA	N	1.478	2.12	1.942	1.726	1.087	1.814	Y
IPI00180434	GRAMD1A		ELWHLVHQCYGSELGLTSEDEDYVSPLQLNGLGTPK	1		18|23		351|356			63	14	14	0.236	0.689	1.777	1.191	1.432	0.435	N	NA	0.643	NA	0.796	NA	0.225	N	0.57	0.905	1.232	0.66	0.965	1.38	N	NA	0.547	NA	1.095	NA	0.286	N	1.412	NA	0.942	NA	1.76	NA	N	0.838	1.23	0.635	1.146	1.738	1.295	N
IPI00180434	GRAMD1A		EVGDVIALSDITSSGAADRSQEPSPVGSR	2		12|13|20|24		381|382|389|393			54	19	51	1.187	0.561	1.837	0.719	1.117	0.451	N	0.536	1.378	0.377	0.678	0.373	0.698	Y	1.108	0.639	1.081	1.233	0.875	0.552	Y	0.928	0.884	0.836	1.131	0.622	0.723	Y	1.375	1.734	1.194	1.099	1.124	0.766	Y	1.675	0.958	0.934	2.361	1.519	0.764	N
IPI00180434	GRAMD1A		EVGDVIALSDITSSGAADRSQEPSPVGSRR	3		12|13|20|24		381|382|389|393			35	3	3	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.903	NA	1.257	NA	0.555	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00180434	GRAMD1A		GHVTPNLSR	1	4		403		403	PhosphoELM	20	22	72	1.697	1.644	2.05	1.695	1.052	1.03	Y	1.674	1.763	1.553	1.749	0.833	1.096	Y	1.57	1.042	2.113	0.111	0.97	0.418	Y	1.719	1.451	1.901	2.324	1.005	0.801	Y	1.142	1.095	1.761	1.471	0.886	0.68	Y	2.399	1.927	2.473	2.28	1.307	1.054	Y
IPI00180434	GRAMD1A		KRPLSWR	1	5		686				11	19	50	0.961	1.13	1.161	1.311	0.837	0.951	Y	1.024	0.919	0.864	0.873	0.498	0.458	Y	1.216	1.399	1.357	1.305	0.865	0.93	Y	0.927	0.592	1.184	1.122	0.629	0.512	Y	1.139	0.868	1.504	1.116	1.041	0.786	Y	1.277	1.887	1.6	1.901	1.092	1.308	Y
IPI00180434	GRAMD1A		SQEPSPVGSR	1	5		393				41	22	72	1.347	0.937	1.232	0.875	0.803	0.747	Y	0.85	0.917	0.566	0.644	0.492	0.641	Y	0.93	0.913	0.855	0.632	0.624	0.598	Y	0.677	0.752	0.699	1.145	0.573	0.708	Y	0.849	0.936	0.886	1.069	0.823	0.68	Y	1.105	1.303	1.054	1.108	0.79	0.695	Y
IPI00180434	GRAMD1A		STPSSSPSLR	1		6|8		142|144			14	12	16	1.055	1.046	1.025	1.038	0.497	0.665	Y	0.719	1.149	0.62	0.87	0.321	0.411	N	0.956	NA	0.707	NA	0.531	NA	N	NA	0.709	NA	0.789	NA	0.483	Y	1.358	NA	1.472	NA	1.768	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00292228	GSK3A	GSK3A	ARTSSFAEPGGGGGGGGGPGGSASGPGGTGGGK	1	5		21		21	UNIPROT	144	24	77	1.043	0.623	0.891	0.85	0.819	0.529	Y	1.717	0.982	1.722	0.92	0.704	0.552	Y	1.252	1.143	1.031	2.008	0.725	1.363	Y	1.097	0.745	1.064	0.684	0.715	0.718	Y	1.097	1.374	1.198	1.165	0.989	0.77	Y	1.303	0.845	1.247	1.491	0.711	1.258	Y
IPI00292228	GSK3A	GSK3A	ASVGAMGGGVGASSSGGGPGGSGGGGSGGPGAGTSFPPPGVK	2		14|15|22|27|34|35		64|65|72|77|84|85			34	6	9	NA	0.775	NA	0.745	NA	0.257	N	NA	NA	NA	NA	NA	NA	N	1.5	0.667	0.774	1.144	0.643	0.571	N	0.792	NA	1.038	NA	0.419	NA	N	1.608	0.793	1.563	0.699	0.615	1.024	Y	NA	NA	NA	NA	NA	NA	N
IPI00292228	GSK3A	GSK3A	GEPNVSYICSR	1	7		279		279	UNIPROT	60	21	853	1.14	0.951	1.113	0.966	0.985	0.812	Y	0.871	0.893	0.775	0.819	0.684	0.769	Y	1.013	0.977	0.993	1.005	0.814	0.874	Y	1.023	0.882	1.069	1.01	0.9	0.739	Y	1.084	1.133	0.977	0.896	0.963	0.858	Y	1.207	1.034	1.19	1.108	1.024	0.928	Y
IPI00292228	GSK3A	GSK3A	GEPNVSYICSR	2	7		279		279	UNIPROT	29	20	156	1.023	0.667	1.069	0.972	0.912	0.731	Y	0.856	0.782	0.845	0.629	0.783	0.705	Y	1.026	0.863	1.008	0.965	0.79	0.737	Y	1.022	0.768	1.076	1.049	0.844	0.719	Y	0.999	1.446	0.974	0.941	0.862	0.756	Y	1.19	0.826	1.359	1.038	0.905	0.764	Y
IPI00292228	GSK3A	GSK3A	SGGGPSGGGPGGSGR	1	1		2				85	20	43	1.664	0.759	2.16	1.061	1.028	0.518	Y	0.742	0.806	0.721	0.746	0.389	0.277	Y	1.35	0.861	0.819	0.689	0.517	0.531	Y	0.816	1.13	1.174	1.104	0.626	0.7	Y	0.895	0.894	0.678	1.286	0.61	0.684	Y	1.344	0.631	0.542	1.014	1.091	0.82	N
IPI00292228	GSK3A	GSK3A	TSSFAEPGGGGGGGGGPGGSASGPGGTGGGK	2	2&3		20&21		21	UNIPROT	72	5	5	2.092	NA	1.233	NA	1.263	NA	N	NA	NA	NA	NA	NA	NA	N	1.127	NA	3.091	NA	0.788	NA	N	3.622	NA	3.689	NA	1.845	NA	N	NA	2.284	NA	1.098	NA	0.647	N	NA	NA	NA	NA	NA	NA	N
IPI00216190	GSK3B	GSK3B	GEPNVSYICSR	1	7		216		216	UNIPROT	60	21	854	1.14	0.951	1.113	0.966	0.985	0.812	Y	0.871	0.893	0.775	0.819	0.684	0.769	Y	1.013	0.977	0.993	1.005	0.814	0.874	Y	1.023	0.882	1.069	1.01	0.9	0.739	Y	1.084	1.133	0.977	0.896	0.963	0.858	Y	1.207	1.034	1.19	1.108	1.024	0.928	Y
IPI00216190	GSK3B	GSK3B	GEPNVSYICSR	2	7		216		216	UNIPROT	29	20	156	1.023	0.667	1.069	0.972	0.912	0.731	Y	0.856	0.782	0.845	0.629	0.783	0.705	Y	1.026	0.863	1.008	0.965	0.79	0.737	Y	1.022	0.768	1.076	1.049	0.844	0.719	Y	0.999	1.446	0.974	0.941	0.862	0.756	Y	1.19	0.826	1.359	1.038	0.905	0.764	Y
IPI00216190	GSK3B	GSK3B	TTSFAESCKPVQQPSAFGSMK	1	3		9				58	24	173	1.086	1.041	1.038	0.885	0.97	0.679	Y	0.921	0.946	0.607	0.666	0.541	0.599	Y	1.16	1.033	1.037	0.732	0.747	0.666	Y	0.85	0.744	0.912	0.94	0.641	0.503	Y	1.088	1.047	0.949	0.946	0.818	0.734	Y	0.965	0.968	0.87	0.679	0.708	0.578	Y
IPI00029769	HCK	HCK	VIEDNEYTAR	1	7		410		410	UNIPROT	46	24	111	0.958	0.839	0.589	0.265	0.131	0.055	Y	0.581	0.28	0.165	0.086	0.061	0.044	Y	0.801	0.602	0.32	0.144	0.066	0.059	Y	0.311	0.072	0.079	0.054	0.054	0.021	Y	1.032	1.062	0.995	0.754	0.818	0.597	Y	1.174	0.773	1.134	1.045	1.069	0.784	Y
IPI00414744	HIPK1	HIPK1	AVCSTYLQSR	1	6		352		352	UNIPROT	53	21	39	1.128	1.043	1.104	0.89	0.895	0.716	Y	0.874	0.705	0.989	0.587	0.509	0.424	Y	0.991	1.382	1.323	1.366	0.941	1.058	Y	0.973	0.799	1.097	0.876	0.742	0.574	Y	0.812	0.898	0.781	1.286	0.804	0.836	Y	1.519	1.214	1.427	1.074	1.089	0.681	Y
IPI00025054	HNRPU		AKSPQPPVEEEDEHFDDTVVCLDTYNCDLHFK	1	3		270		270	UNIPROT	36	5	5	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.024	NA	1.165	NA	0.494	NA	N	NA	0.718	NA	0.933	NA	0.335	N	0.955	NA	1.335	NA	0.776	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00398625	HRNR		QGSGSGQSPSRGRHGSGLGHSSSHGQHGSGSGR	1		3|5|8|10|16|21|22|23		1707|1709|1712|1714|1720|1725|1726|1727			32	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.316	NA	2.794	NA	0	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00414676	HSPCB		IEDVGSDEEDDSGK	1	6		254		254	UNIPROT	55	14	34	1.48	NA	0.653	NA	0.611	NA	Y	1.302	0.756	0.98	0.535	1.11	0.818	Y	1.197	0.765	0.986	1.043	0.445	0.808	Y	1.108	1.05	1.164	1.445	0.893	0.951	Y	0.928	1.237	1.038	0.555	0.545	0.496	Y	0.974	0.662	0.834	0.624	0.831	0.295	Y
IPI00465017	DKFZP781A0295		PTTGVILPSGNTLRVK	2	2&3		3&4				33	2	3	NA	NA	NA	NA	NA	NA	N	0.674	NA	0.762	NA	0.559	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00052361	XP_070678		GPGHVPASVLSPLVPFSSGR	1		8|11		262|265			31	5	17	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.528	NA	0.078	NA	0.043	Y	NA	NA	NA	NA	NA	NA	N	0.856	2.76	0.776	0.876	0.24	0.139	Y	NA	0.627	NA	0.653	NA	0.14	Y
IPI00016932	SHIP2		DASDGEDEKPPLPPR	1	3		132		132	PhosphoELM	34	24	303	0.787	0.398	0.201	0.095	0.075	0.062	Y	0.082	0.069	0.066	0.059	0.039	0.034	Y	0.721	0.266	0.146	0.105	0.067	0.049	Y	0.106	0.069	0.103	0.106	0.065	0.052	Y	0.948	1.225	0.803	0.516	0.27	0.145	Y	0.684	0.62	0.684	0.359	0.189	0.099	Y
IPI00016932	SHIP2		ERLYEWISIDKDEAGAK	1	4		886		886	PhosphoELM	52	23	116	0.758	0.385	0.143	0.054	0.021	0.023	Y	0.05	0.043	0.032	0.043	0.023	0.021	Y	0.634	0.305	0.093	0.043	0.025	0.007	Y	0.111	0.034	0.05	0.04	0.061	0.027	Y	1.119	0.901	0.743	0.431	0.241	0.068	Y	0.637	0.49	0.545	0.295	0.123	0.037	Y
IPI00016932	SHIP2		GLPSDYGR	1	6		1162		1162	PhosphoELM	44	24	477	0.815	0.37	0.33	0.231	0.118	0.092	Y	0.123	0.121	0.155	0.168	0.054	0.069	Y	0.697	0.451	0.29	0.257	0.113	0.111	Y	0.168	0.145	0.207	0.212	0.121	0.111	Y	1.087	1.038	0.948	0.597	0.376	0.184	Y	0.804	0.597	0.823	0.427	0.262	0.116	Y
IPI00016932	SHIP2		LDMDIQEILNYISRK	1	11		622				60	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.867	NA	0.799	NA	0.457	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00016932	SHIP2		NSFNNPAYYVLEGVPHQLLPPEPPSPAR	1		8|9		986|987	986, 987	PhosphoELM,PhosphoELM	76	22	46	1.048	0.499	0.616	0.203	0.296	0.141	Y	0.16	0.187	0.091	0.091	0.043	0.073	Y	0.623	0.456	0.353	0.231	0.181	0.095	Y	0.193	0.093	0.067	0.106	0.046	0.138	Y	1.189	1.515	0.853	0.906	0.599	0.452	Y	0.967	0.861	1.137	0.597	0.225	0.164	N
IPI00016932	SHIP2		NSFNNPAYYVLEGVPHQLLPPEPPSPAR	2	8&9		986&987		986, 987	PhosphoELM,PhosphoELM	73	11	18	1.126	0.092	0.024	0.515	0.634	0.37	N	NA	NA	NA	NA	NA	NA	N	1.204	0.687	0.412	0	0.269	0.22	N	NA	NA	NA	NA	NA	NA	N	1.007	2.349	1.63	0.284	0.595	0	Y	0	NA	0.434	NA	0.273	NA	N
IPI00016932	SHIP2		QRDSQEDWTTFTHDR	1	4		352				45	9	13	1.119	0.505	0.715	0.334	0.428	0.101	N	NA	NA	NA	NA	NA	NA	N	0.8	NA	0.448	NA	0.266	NA	N	NA	NA	NA	NA	NA	NA	N	1.415	NA	1.132	NA	0.448	NA	Y	1.065	NA	1.032	NA	0.466	NA	Y
IPI00016932	SHIP2		TLSEVDYAPAGPAR	1	7		1135		1135	PhosphoELM	87	24	102	0.835	0.324	0.256	0.125	0.109	0.096	Y	0.09	0.082	0.07	0.072	0.06	0.039	Y	0.662	0.34	0.206	0.088	0.047	0.094	Y	0.116	0.033	0.09	0.027	0.046	0.026	Y	0.983	0.961	0.779	0.498	0.351	0.193	Y	0.673	0.496	0.568	0.277	0.248	0.077	Y
IPI00068256	HYPOTH. PROT		RSGGTLGGSGGGGGGGSGGR	1		9|17		87|95			33	8	11	NA	0.734	NA	0.315	NA	0.177	N	0.045	0.117	0.086	0.046	0.037	0.019	Y	1.044	NA	0.164	NA	0.102	NA	N	NA	NA	NA	NA	NA	NA	N	1.199	3.249	1.075	1.04	0.415	0.016	Y	NA	NA	NA	NA	NA	NA	N
IPI00183850	HYPOTH. PROT		SHNSALYSQVQK	1	7		316				92	23	110	0.921	0.719	0.726	0.609	0.413	0.272	Y	0.387	0.205	0.256	0.213	0.151	0.157	Y	0.677	0.596	0.543	0.398	0.37	0.151	Y	0.358	0.355	0.362	0.434	0.321	0.263	Y	1.043	2.713	0.908	0.663	1.231	0.699	Y	0.519	0.551	0.826	0.82	0.501	0.333	Y
IPI00183850	HYPOTH. PROT		VKEEGYELPYNPATDDYAVPPPR	2	6&17		265&276				60	10	15	NA	NA	NA	NA	NA	NA	N	0.152	0.12	0.1	0.247	0.056	0	N	0.82	NA	0.123	NA	0.06	NA	N	NA	NA	NA	NA	NA	NA	N	1.049	1.139	0.778	0.807	1.893	0.704	Y	0.91	0.71	0.798	1.068	0.431	0.688	N
IPI00031016	JAK2	JAK2	EVGDYGQLHETEVLLK	1	5		570		570	PhosphoELM	59	23	40	1.497	0.996	1.27	0.809	0.665	0.312	Y	0.787	0.734	0.37	0.347	0.321	0.171	Y	1.204	0.997	0.773	1.029	0.534	0.685	Y	0.676	0.815	0.751	0.829	0.722	0.434	Y	0.792	2.593	0.84	1.03	0.598	0.658	Y	1.333	0.936	0.96	0.805	0.784	0.589	Y
IPI00431263	KIAA0195		VEPPHSSHEDLTDGLSTR	1		6|7|12		444|445|450			55	23	40	1.357	0.909	1.118	0.77	0.792	0.703	Y	0.632	0.785	0.654	0.678	0.43	0.499	Y	0.979	1.193	1.053	1.061	0.59	0.942	Y	0.912	0.961	1.036	0.862	0.833	0.721	Y	1.599	1.901	1.57	1.514	0.622	1.028	Y	0.603	0.791	0.815	0.985	0.613	0.708	Y
IPI00641384	KIAA0310		FTGSFDDDPDPHR	1	4		1149		1149	UNIPROT	31	14	39	1.136	0.8	1.206	0.583	0.796	0.579	N	0.998	0.804	1	0.8	0.725	0.437	N	0.884	1.015	0.846	0.839	0.756	0.757	Y	0.57	0.605	0.824	0.903	0.502	0.702	Y	1.214	1.123	1.309	0.969	0.898	0.755	Y	1.017	0.897	0.984	1.123	0.627	0.141	Y
IPI00465142	KIAA0528		AMTVEKASPVGDGNFR	1	8		852				19	12	14	1.493	0.969	1.202	1.076	0.965	0.7	Y	0.467	0.687	0.675	0.516	0.579	0.567	Y	0.998	NA	1.104	NA	0.956	NA	N	0.659	0.854	0.94	1.033	0.7	0.57	Y	NA	NA	NA	NA	NA	NA	N	1.477	NA	1.276	NA	0.901	NA	N
IPI00297230	KIAA0528		ATSVDYSSFADR	1		2|3		936|937			41	23	42	0.9	1.176	0.933	1.264	0.726	1.188	Y	0.742	1.033	0.652	0.708	0.515	0.579	Y	1.162	1.257	0.989	0.735	0.807	0.707	Y	0.882	0.899	1.078	1.399	0.804	0.71	Y	1.089	1.199	0.925	0.791	0.627	0.691	Y	1.046	0.896	1.099	1.197	0.954	0.807	Y
IPI00465142	KIAA0528		EIPFNEDPNPNTHSSGPSTPLK	1		14|18		280|284			44	10	12	0.738	NA	0.37	NA	0.541	NA	N	0.785	NA	0.365	NA	0.784	NA	N	1.057	NA	1.07	NA	0.458	NA	N	0.884	1.606	0.6	1.266	0.094	0.705	N	NA	NA	NA	NA	NA	NA	N	2.004	NA	1.51	NA	1.079	NA	N
IPI00465142	KIAA0528		QSSSSDTDLSLTPK	1		2|3		304|305			37	20	33	0.716	1.359	0.766	1.715	1.019	0.485	Y	1.148	0.975	1.862	0.974	1.051	0.391	Y	1.143	1.227	1.435	1.829	0.781	0.65	Y	1.656	0.947	1.069	1.421	1.022	1.079	Y	NA	NA	NA	NA	NA	NA	N	1.554	NA	2.475	NA	2.109	NA	N
IPI00465142	KIAA0528		QSSSSDTDLSLTPK	2	2&3		304&305				38	11	11	NA	1.992	NA	1.366	NA	1.707	N	1.496	0.773	1.414	0.56	0.471	0	N	1.515	1.475	1.124	1.165	0.688	1.084	N	0.968	1.064	0.904	1.22	0.347	0.254	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00465142	KIAA0528		SQSESSDEVTELDLSHGK	1	3		659		659	UNIPROT	50	15	19	NA	0.902	NA	0.679	NA	0.54	N	0.478	1.063	0.44	0.918	0.335	0.877	Y	1.607	NA	1.474	NA	1.397	NA	N	0.8	0.716	1.286	1.189	0.611	0.934	N	NA	NA	NA	NA	NA	NA	N	0.998	1.148	0.903	1.668	0.545	0.945	N
IPI00465142	KIAA0528		SQSESSDEVTELDLSHGK	2	3	5|6	659	661|662	659	UNIPROT	50	7	11	NA	NA	NA	NA	NA	NA	N	0.585	0.624	0.652	0.645	0.417	0.207	Y	0.763	NA	0.772	NA	0.57	NA	N	1.027	NA	1.339	NA	0.766	NA	N	NA	NA	NA	NA	NA	NA	N	1.432	NA	1.828	NA	0.518	NA	N
IPI00465142	KIAA0528		SQSESSDEVTELDLSHGKK	1		3|5		659|661	659	UNIPROT	62	14	22	NA	0.981	NA	1.173	NA	0.966	N	1.47	0.787	1.652	0.727	1.153	0.587	Y	1.222	NA	1.118	NA	0.82	NA	Y	1.019	1.286	1.036	1.878	1.181	1.149	Y	NA	NA	NA	NA	NA	NA	N	1.139	1.47	2.367	1.399	1.945	1.569	N
IPI00465142	KIAA0528		TGMGSGSAGKEGGPFK	1		5|7		321|323			21	12	15	0.835	NA	0.92	NA	0.634	NA	Y	0.664	0.649	0.464	0.599	0.415	0.481	Y	1.228	NA	0.804	NA	0.678	NA	N	0.626	0.375	0.661	0.679	0.356	0.299	Y	NA	NA	NA	NA	NA	NA	N	1.076	NA	1.016	NA	0.656	NA	N
IPI00657720	KIAA0999	QSK	IADFGFSNLFTPGQLLKTWCGSPPYAAPELFEGK	1		18|22		215|219			77	19	34	0.754	0.823	1.048	0.593	0.238	0.11	N	0.934	0.481	0.439	0.185	0.113	0.087	N	1.118	2.036	0.549	0.765	0.276	0	N	0.779	0.952	0.784	0.488	0.237	0.138	Y	0.704	2.314	0.747	1.969	0.724	0.943	N	1.176	2.471	1.54	1.74	0.757	1.042	Y
IPI00657720	KIAA0999	QSK	IQPSSPPPNHPNNHLFR	1		4|5		772|773			47	22	73	0.995	0.704	0.678	0.444	0.464	0.157	Y	0.645	0.584	0.373	0.349	0.188	0.164	Y	0.95	0.655	0.711	0.452	0.342	0.142	Y	0.779	0.883	0.597	0.36	0.343	0.18	Y	NA	NA	NA	NA	NA	NA	N	0.881	0.922	0.872	0.9	0.694	0.816	Y
IPI00657720	KIAA0999	QSK	QLSADSAEAHSLNVNR	1	3		908				80	15	24	0.849	0.669	1.26	0.693	0.538	0.283	Y	0.694	0.615	0.573	0.499	0.251	0.278	Y	1.079	0.966	0.827	0.674	0.443	0.297	Y	1.054	1.1	0.719	0.775	0.748	0.355	Y	NA	NA	NA	NA	NA	NA	N	0.578	0.833	0.708	1.124	0.76	0.859	Y
IPI00657720	KIAA0999	QSK	RASDGGANIQLHAQQLLK	1	3		545				31	6	10	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.922	NA	0.7	NA	0.462	NA	N	0.804	0.787	0.457	0.575	0.348	0.348	Y	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00022296	KIT	KIT	QISESTNHIYSNLANCSPNR	1	10		936		936	PhosphoELM	32	23	45	1.293	1.586	0.989	1.221	0.839	1.066	Y	0.631	0.895	0.626	0.744	0.484	0.732	Y	0.966	1.578	0.749	0.698	0.243	0.397	Y	0.373	0.243	0.138	0.208	0.109	0.053	Y	1.567	1.355	1.175	0.663	0.996	0.627	Y	1.817	1.137	1.171	0.766	0.566	0.211	Y
IPI00394952	LCK	LCK	LIEDNEYTAR	1	7		394		394	UNIPROT	61	23	229	0.84	0.502	0.31	0.118	0.083	0.033	Y	0.301	0.145	0.071	0.044	0.031	0.02	Y	0.501	0.241	0.081	0.068	0.03	0.033	Y	0.034	0.037	0.035	0.053	0.02	0.028	Y	1.1	1.22	0.986	0.904	0.96	0.812	Y	1.248	1.144	1.265	1.111	1.035	1.137	Y
IPI00291702	LIMK1	LIMK1	SCSIDRSPGAGSLGSPASQR	1	3		298		298	UNIPROT	83	24	54	1.596	0.992	1.636	1.231	1.193	0.724	Y	1.202	0.886	1.055	1.014	0.604	0.457	Y	1.042	0.917	1.255	1.144	0.737	0.335	Y	1.586	1.617	1.388	1.429	0.599	0.476	Y	1.148	1.898	1.113	1.175	0.996	0.859	Y	1.081	1.086	1.166	1.39	0.995	0.92	Y
IPI00022872	LIMK2	LIMK2	SNSISKSPGPSSPK	1	3		289		289	UNIPROT	41	18	34	0.999	0.724	1.571	0.988	1.017	0.75	Y	NA	1.12	NA	1.024	NA	0.666	Y	1.324	1.067	1.055	1.038	0.574	0.442	Y	1.612	0.969	1.123	1.113	0.59	0.47	Y	1.233	1.145	1.065	1.225	1.152	0.788	Y	1.165	NA	1.029	NA	1.048	NA	Y
IPI00022872	LIMK2	LIMK2	SPGPSSPKEPLLFSR	1		1|5		293|297	293	UNIPROT	26	23	41	0.91	0.745	1.222	0.918	0.757	0.504	Y	0.72	0.882	0.786	0.929	0.561	0.757	Y	1.093	0.996	1.112	0.534	0.474	0.396	Y	0.8	0.861	0.869	0.79	0.527	0.339	Y	1.228	2.001	0.872	0.986	0.894	0.896	Y	0.806	1.423	0.989	1.795	0.561	0.908	Y
IPI00457307	LOC391039		ASGVAVSDGVIK	1	7		8				61	8	11	0.841	NA	0.431	NA	0.486	NA	N	0.863	0.514	0.481	0.58	0.289	0.476	Y	NA	NA	NA	NA	NA	NA	N	0.899	0.719	0.603	0.958	0.636	0.484	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00478300	LSM14A		SPVSTRPLPSASQK	1	1		216		216	UNIPROT	30	19	47	0.852	0.861	0.827	0.742	0.588	0.722	Y	0.372	0.697	0.913	0.744	0.614	0.538	Y	1.045	0.942	0.854	0.897	0.671	0.81	Y	0.675	NA	0.899	NA	0.731	NA	Y	NA	NA	NA	NA	NA	NA	N	0.931	0.998	0.879	0.732	0.597	0.768	Y
IPI00298625	LYN	LYN	ACISPKPQKPWDKDAWEIPR	1	4		228				17	14	17	0.93	0.934	0.663	0.464	0.149	0.064	Y	0.424	0.323	0.285	0.214	0.123	0.103	Y	0.843	NA	0.507	NA	0.141	NA	Y	NA	0.126	NA	0.2	NA	0.091	N	1.19	0.871	1.179	0.974	0.853	0.491	Y	1.274	NA	1.334	NA	0.819	NA	Y
IPI00298625	LYN	LYN	AEERPTFDYLQSVLDDFYTATEGQYQQQP	1	25		508		508	UNIPROT	94	15	29	1.777	1.057	1.638	0.607	0.459	0.082	N	0.474	0.452	0.398	0.441	0.227	0.198	N	1.33	0.686	0.497	0.873	0	0.291	N	0.765	NA	0.053	NA	0.124	NA	N	1.305	1.258	0.695	0.651	1.065	0.426	N	1.734	0.284	1.613	0.976	1.101	0.794	N
IPI00298625	LYN	LYN	DSLSDDGVDLK	1	4		13		13	UNIPROT	39	24	180	0.958	0.958	0.759	0.617	0.295	0.124	Y	0.884	0.597	0.539	0.27	0.135	0.106	Y	0.958	0.645	0.632	0.295	0.143	0.107	Y	0.526	0.293	0.151	0.085	0.076	0.056	Y	0.93	1.227	0.923	0.855	0.774	0.63	Y	1.518	1.032	1.873	1.32	1.138	1.062	Y
IPI00215778	LYN	LYN	GKDSLSDDGVDLKTQPVPESQLLPGQR	1	6		12		12	UNIPROT	33	12	21	2.235	1.457	2.549	0.586	0	0.167	N	0.689	0.558	0.326	0.408	0.18	0.179	N	1.3	1.23	0.67	1.211	0.145	0.408	Y	0.738	NA	0.057	NA	0.008	NA	N	1.857	0.916	1.255	0.954	1.555	0.6	Y	2.809	1.228	4.552	0.789	0.735	0.677	N
IPI00298625	LYN	LYN	SLDNGGYYISPR	1	7		193		193	PhosphoELM	66	19	36	1.138	1.051	1.285	0.647	0.419	0.138	Y	0.681	0.637	0.406	0.191	0.11	0.159	Y	0.844	0.865	0.534	0.405	0.17	0.154	Y	0.392	NA	0.188	NA	0.18	NA	N	1.032	1.334	1.125	0.863	1.048	0.751	Y	1.367	1.229	1.091	0.86	0.813	0.77	Y
IPI00298625	LYN	LYN	TIYVRDPTSNK	1	3		32				30	23	46	0.99	0.905	0.982	0.534	0.423	0.112	Y	0.601	0.398	0.293	0.17	0.099	0.084	Y	1.16	0.712	0.635	0.216	0.161	0.068	Y	0.543	0.127	0.199	0.184	0.126	0.154	Y	0.876	1.188	1.063	0.84	0.648	0.568	Y	1.372	1.018	1.353	0.878	0.963	0.906	Y
IPI00298625	LYN	LYN	VIEDNEYTAR	1	7		397		397	UNIPROT	46	24	231	0.997	0.769	0.609	0.248	0.136	0.044	Y	0.522	0.3	0.131	0.073	0.048	0.031	Y	0.904	0.893	0.324	0.178	0.05	0.076	Y	0.3	0.044	0.08	0.044	0.047	0.014	Y	1.263	1.049	1.004	0.856	0.935	0.617	Y	1.097	1.088	0.828	1.034	1.093	0.861	Y
IPI00012318	MAP3K1	MAP3K1	ATSPEAGGGGGALK	1	3		155				58	21	40	1.019	0.814	0.686	0.222	0.23	0.191	Y	1.06	0.641	0.321	0.296	0.142	0.152	Y	0.876	1.237	0.782	0.986	0.355	0.4	Y	NA	1.491	NA	0.654	NA	0.514	Y	0.845	2.132	1.03	0.718	0.858	0.737	Y	0.472	0.836	0.565	1.377	0.756	1.037	Y
IPI00012318	MAP3K1	MAP3K1	GRRSPSPGNSPSGR	1		4|6		384|386			21	13	18	1.107	0.532	0.767	0.498	0.409	0.254	Y	0.961	0.305	0.555	0.478	0.327	0.319	N	1.126	0.919	1.412	1.524	0.664	0.566	Y	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.455	NA	1.151	NA	0.975	NA	N
IPI00012318	MAP3K1	MAP3K1	LSASSEDISER	1	4		1057				34	23	43	1.063	0.919	0.644	0.341	0.2	0.098	Y	0.708	0.428	0.32	0.186	0.073	0.054	Y	1.169	1.011	1.062	1.051	0.601	0.378	Y	1.063	1.049	1.03	0.762	0.627	0.316	Y	0.96	1.652	1.044	1.144	0.827	0.993	Y	0.639	0.749	0.926	0.828	0.544	0.575	Y
IPI00012318	MAP3K1	MAP3K1	RAPSPDGFSPYSPEETNR	1	4		426				42	18	40	1.156	0.68	0.87	0.601	0.413	0.333	Y	0.715	0.797	0.399	0.837	0.245	0.217	Y	1.327	NA	0.929	NA	0.562	NA	Y	NA	0.588	NA	0.853	NA	0.433	N	1.069	2.346	0.745	1.127	0.587	0.788	Y	0.791	0.958	0.972	0.969	0.764	0.744	Y
IPI00012318	MAP3K1	MAP3K1	SEVAVLSPEKAENDDTYKDDVNHNQK	1	7		1291				33	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.022	NA	0.747	NA	0.762	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00513803	MAP3K2	MAP3K2	AQSYPDNHQEFSDYDNPIFEK	1	4		240				51	19	24	1.379	0.778	1.3	0.503	0.499	0.213	N	0.682	0.765	0.52	0.29	0.081	0.109	N	2.602	1.551	1.233	1.481	1.046	0.605	N	1.268	1.246	1.415	0.891	1.06	0.255	Y	1.199	NA	0.856	NA	1.068	NA	N	1.236	0.547	1.138	0.584	0.628	0.571	N
IPI00513803	MAP3K2	MAP3K2	DRSSPPPGYIPDELHQVAR	1		3|4		163|164	164	UNIPROT	64	24	111	0.998	1.138	1.103	0.798	0.653	0.466	Y	0.776	0.711	0.596	0.638	0.306	0.281	Y	1.039	0.788	0.984	0.658	0.653	0.392	Y	0.939	0.838	0.992	0.861	0.734	0.419	Y	1.238	1.44	1.136	0.862	0.659	0.671	Y	0.991	0.989	1.282	1.422	0.839	0.953	Y
IPI00513803	MAP3K2	MAP3K2	RGSDIDNPTLTVMDISPPSR	1	3		330				78	20	34	1.675	0.663	1.933	0.635	1.208	0.374	N	0.735	0.66	0.429	0.413	0.351	0.276	N	1.204	0.692	1.278	1.113	0.656	0.343	Y	0.719	0.583	0.682	1.026	0.415	0.388	Y	0.963	1.655	0.957	1.5	0.591	0.955	N	0.831	NA	0.777	NA	0.72	NA	N
IPI00513803	MAP3K2	MAP3K2	RLSIIGPTSR	1	3		153				28	23	76	1.12	0.882	1.612	0.809	0.76	0.357	Y	0.933	0.848	0.971	0.752	0.455	0.277	Y	0.858	1.257	0.992	1.653	0.747	0.712	Y	0.745	1.01	1.103	1.275	0.727	0.675	Y	1.295	1.597	1.158	1.109	1.016	0.793	Y	0.887	1.459	1.139	2.054	0.779	1.204	Y
IPI00181703	MAP3K3	MAP3K3	AQSFPDNR	1	3		281				14	18	27	0.831	1.895	1.122	1.474	0.569	0.346	Y	0.935	0.81	0.727	0.505	0.368	0.298	Y	0.921	0.586	0.962	0.607	0.569	0.236	Y	0.52	0.74	1.125	0.82	0.71	0.338	Y	NA	4.34	NA	0.963	NA	0.655	N	1.052	0.58	1.611	0.719	0.761	0.548	Y
IPI00181703	MAP3K3	MAP3K3	LRSADSENALSVQER	1		3|6		368|371	368	PhosphoELM	50	19	44	1.038	1.045	1.072	0.802	0.484	0.139	Y	0.977	0.916	0.684	0.617	0.163	0.052	Y	1.129	0.717	0.955	0.866	0.549	0.46	Y	1.34	0.863	1.48	1.196	1.035	0.408	Y	1.233	3.496	1.154	1.134	1.309	0.774	Y	1.574	1.108	1.413	1.407	0.713	0.557	Y
IPI00386260	MAP3K4	MAP3K4	HSSPTEERDEPAYPR	1	3		1252				40	24	177	1.316	1.191	1.324	0.954	0.508	0.235	Y	1.013	0.652	0.716	0.543	0.275	0.252	Y	1.267	0.967	1.35	0.966	0.521	0.398	Y	1.003	0.639	1.223	0.844	0.384	0.301	Y	1.259	2.118	1.539	1.237	0.731	0.594	Y	1.285	1.471	1.462	1.424	0.723	0.657	Y
IPI00386260	MAP3K4	MAP3K4	NLSDIGWPVFEIPSPRPSK	1		14|18		431|435			53	17	22	1.014	0.887	0.519	0.435	0.224	0.159	Y	0.537	0.48	0.274	0.081	0.159	0.183	Y	0.919	0.882	0.63	0.146	0.31	0.061	Y	0.693	0.676	0.469	0.416	0.439	0.216	Y	1.533	1.734	2.414	1.378	1.594	1.208	Y	1.207	NA	1.255	NA	0.548	NA	N
IPI00386260	MAP3K4	MAP3K4	QPIDNSFDIQSR	1		6|11		481|486			33	3	3	NA	NA	NA	NA	NA	NA	N	0.302	NA	0.597	NA	0.321	NA	N	NA	NA	NA	NA	NA	NA	N	0.616	NA	0.424	NA	0.439	NA	N	NA	NA	NA	NA	NA	NA	N	1.315	NA	1.093	NA	0.617	NA	N
IPI00386260	MAP3K4	MAP3K4	QTSRTDCPADR	1		2|3|5		213|214|216			22	24	103	1.302	0.691	0.707	0.26	0.122	0.077	Y	0.848	0.393	0.204	0.145	0.062	0.046	Y	1.214	0.942	0.803	0.526	0.299	0.159	Y	0.471	0.386	0.219	0.195	0.048	0.054	Y	1.635	1.871	1.348	1.108	1.11	0.882	Y	0.972	0.777	1.066	1.179	0.607	0.647	Y
IPI00294842	MAP4K5	KHS1	RQSSPSCGPVAETSSIGNGDGISK	1		3|4		433|434			55	5	5	NA	2.387	NA	0.162	NA	0.69	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.78	NA	1.073	NA	0.347	NA	N	1.696	3.759	0.58	0.688	0.734	0.122	N	2.348	NA	4.422	NA	0	NA	N
IPI00003479	MAPK1	Erk2	HYLDQLNHILGILGSPSQEDLNCIINLK	1		15|17		245|247			59	2	2	NA	1.348	NA	2.373	NA	0.434	N	NA	0.693	NA	0.394	NA	0.265	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00003479	MAPK1	Erk2	VADPDHDHTGFLTEYVATR	1		13|15		184|186	184, 186	UNIPROT,UNIPROT	77	24	229	1.153	1.012	1.079	1.027	0.797	0.691	Y	0.982	0.645	0.874	0.677	0.502	0.389	Y	0.957	0.922	0.992	1.037	0.645	0.621	Y	0.914	0.775	0.798	1.015	0.642	0.752	Y	1.037	1.437	0.889	0.924	0.846	0.64	Y	1.113	1.001	1.012	1.035	0.878	0.956	Y
IPI00003479	MAPK1	Erk2	VADPDHDHTGFLTEYVATR	2	13&15		184&186		184, 186	UNIPROT,UNIPROT	36	23	64	1.433	1.273	1.154	1.114	0.924	0.942	Y	0.537	0.42	0.39	0.118	0.197	0.12	Y	0.941	0.886	1.056	1.154	0.687	0.91	Y	0.471	0.276	0.255	0.394	0.194	0.222	Y	1.074	1.688	1.072	0.992	0.934	0.784	Y	0.86	0.772	0.853	0.563	0.544	0.439	Y
IPI00019473	MAPK11	p38b	QADEEMTGYVATR	1	9		190				61	15	32	1.114	1.225	1.147	1.033	0.938	1.107	Y	0.872	0.721	0.832	0.64	0.529	0.346	Y	3.583	1.826	2.679	0.727	2.507	0.62	N	0.808	0.821	0.697	0.731	0.228	0.259	Y	NA	NA	NA	NA	NA	NA	N	0.93	NA	0.765	NA	0.85	NA	N
IPI00002857	MAPK14	p38a	HTDDEMTGYVATR	1		7|9		180|182	180, 182	UNIPROT,UNIPROT	101	24	1195	1.267	1.195	1.391	1.113	0.577	0.45	Y	0.993	0.892	1.006	0.902	0.351	0.266	Y	1.294	1.168	1.218	1.003	0.382	0.322	Y	1.178	1.073	1.008	0.711	0.312	0.26	Y	1.199	2.161	1.246	1.157	0.602	0.499	Y	0.909	1.076	1.107	1.431	0.575	0.6	Y
IPI00002857	MAPK14	p38a	HTDDEMTGYVATR	2	7&9		180&182		180, 182	UNIPROT,UNIPROT	48	23	178	1.266	1.079	1.085	1.278	0.457	0.318	Y	0.817	1.133	0.889	1.129	0.277	0.272	Y	1.195	1.219	1.109	1.105	0.281	0.269	Y	2.077	1.23	1.365	0.677	0.433	0.229	Y	1.351	3.114	1.178	1.439	0.437	0.439	Y	0.852	0.682	1.195	1.259	0.527	0.412	Y
IPI00221141	MAPK14	p38a	MPSHEAR	1	3		252				16	19	29	1.026	0.901	0.957	1.148	0.62	0.6	Y	0.628	0.717	0.454	0.645	0.389	0.335	Y	1.039	0.601	0.992	0.654	0.465	0.205	Y	NA	0.512	NA	0.58	NA	0.146	N	1.079	1.652	1.145	1.156	0.754	0.618	Y	0.767	0.725	0.874	0.82	0.483	0.354	Y
IPI00002857	MAPK14	p38a	QELNKTIWEVPER	1	6		16				24	19	28	0.935	0.941	0.976	0.905	0.866	0.589	Y	0.828	0.991	0.756	0.843	0.552	1.001	Y	0.921	1.203	1.021	0.703	0.516	0.424	Y	1.441	0.772	1.533	0.979	0.615	0.383	Y	0.8	0.902	0.723	0.59	1.034	0.811	N	1.002	NA	0.993	NA	0.772	NA	Y
IPI00002857	MAPK14	p38a	SQERPTFYR	1	1		2				18	22	75	1.447	1.334	2.901	3.676	1.039	0.818	Y	0.512	1.091	0.59	2.048	0.399	1.02	Y	1.255	2.201	2.887	5.084	0.695	0.43	Y	0.616	0.994	0.794	0.999	0.305	0.506	Y	2.534	2.916	6.063	2.371	1.326	0.804	Y	1.084	1.242	0.765	1.076	1.042	0.855	Y
IPI00003431	MAPK6	Erk3	GHLSEGLVTK	1	4		189		189	PhosphoELM	22	15	39	1.891	0.998	1.521	1.323	1.07	0.611	Y	1.224	NA	1.168	NA	0.645	NA	Y	1.457	1.95	1.596	1.834	0.85	1.109	Y	1.46	1.214	1.524	1.949	1.147	1.102	Y	2.282	2.776	2.065	2.045	1.685	1.385	Y	1.876	NA	1.675	NA	0.937	NA	Y
IPI00003145	MAPK8	JNK1	GQPSPLAQVQQ	1	4		377		377	UNIPROT	46	16	30	1.179	0.983	1.102	0.738	0.763	0.595	Y	0.727	0.526	0.359	0.502	0.404	0.369	Y	1.082	1.959	0.914	0.631	0.679	1.635	Y	1.013	0.789	1.069	0.679	0.816	0.28	Y	NA	0.75	NA	0.372	NA	0.428	Y	NA	NA	NA	NA	NA	NA	N
IPI00024672	MAPK8	JNK1	TAGTSFMMTPYVVTR	1		9|11		183|185	183, 185	UNIPROT,UNIPROT	101	14	45	0.902	1.415	0.944	0.803	0.684	0.547	Y	0.661	1.008	0	0.717	0.675	0.425	N	1.657	2.828	1.123	2.642	0.909	1.833	N	0.631	0.734	0.945	0.755	0.588	0.457	Y	NA	NA	NA	NA	NA	NA	N	1.161	NA	1.148	NA	0.562	NA	N
IPI00024672	MAPK8	JNK1	TAGTSFMMTPYVVTR	2	9&11		183&185		183, 185	UNIPROT,UNIPROT	39	12	18	0.831	0.944	0.837	0.91	0.427	1.266	N	NA	NA	NA	NA	NA	NA	N	1.088	1.119	0.526	2.011	1.291	0.862	N	1.923	0.596	1.51	0.616	1.487	0.217	Y	3.754	1.363	1.295	0.572	1.199	0.593	N	NA	1.068	NA	1.292	NA	2.914	N
IPI00303550	MAPK9	JNK2	TACTNFMMTPYVVTR	1		9|11		183|185	183, 185	UNIPROT,UNIPROT	62	4	5	NA	NA	NA	NA	NA	NA	N	0.467	0.741	2.65	0.43	0	0	N	NA	NA	NA	NA	NA	NA	N	1.374	0	0.972	0.975	0.6	0	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00185037	MARK1	MARK1	LDTFCGSPPYAAPELFQGK	1		3|7		215|219	215, 219	UNIPROT,UNIPROT	57	11	58	0.675	0.793	1.073	0.894	0.632	0.581	Y	1.513	0.758	1.221	0.894	0.927	0.519	Y	0.915	0.764	1.089	1.057	0.545	0.555	Y	0.914	1.564	1.84	1.417	0.739	0.994	Y	1.177	1.973	0.915	0.965	0.895	0.707	Y	1.13	0.787	1.652	0.956	1.318	0.329	Y
IPI00041176	MARK2	MARK2	FSDQAGPAIPTSNSYSK	1		15|16		422|423	422	UNIPROT	47	19	61	2.019	1.021	1.175	0.952	0.91	0.42	Y	0.986	0.858	0.861	0.922	0.722	0.375	Y	0.91	1.117	1.489	1.141	0.649	0.588	Y	0.936	1.037	1.118	1.291	0.686	0.536	Y	1.465	1.118	1.334	1.513	0.616	0.733	Y	1.285	1.695	1.345	0.863	1.047	0.929	Y
IPI00555838	MARK2	MARK2	GRNSATSADEQPHIGNYR	1		4|6|7		40|42|43	40	UNIPROT	41	13	17	2.133	0.733	0.812	1.68	0.43	0.893	N	NA	0.352	NA	0.434	NA	0.075	N	NA	1.552	NA	1.125	NA	0.313	N	0.339	0.362	0.348	0.618	0.099	0.435	Y	NA	4.078	NA	2.197	NA	0.489	N	1.197	1.371	0.783	1.154	0.867	0.318	Y
IPI00555838	MARK2	MARK2	IADFGFSNEFTFGNKLDTFCGSPPYAAPELFQGK	1		7|11		197|201			57	14	18	3.075	1.956	2.223	1.717	1.375	1.137	N	1.905	0.747	1.862	0.222	1.235	0.617	N	1.503	NA	0.995	NA	1.251	NA	N	0.499	NA	0.604	NA	0.31	NA	N	4.211	10.371	1.94	1.525	1.98	1.523	N	1.391	1.638	1.23	1.714	0.98	1.345	Y
IPI00555838	MARK2	MARK2	LDTFCGSPPYAAPELFQGK	1	7		212		212	UNIPROT	57	11	58	0.675	0.793	1.073	0.894	0.632	0.581	Y	1.513	0.758	1.221	0.894	0.927	0.519	Y	0.915	0.764	1.089	1.057	0.545	0.555	Y	0.914	1.564	1.84	1.417	0.739	0.994	Y	1.177	1.973	0.915	0.965	0.895	0.707	Y	1.13	0.787	1.652	0.956	1.318	0.329	Y
IPI00555838	MARK2	MARK2	SRNSPLLER	1		1|4		483|486	486	UNIPROT	25	23	81	1.147	1.134	1.153	1.131	0.993	0.65	Y	1.101	0.944	0.904	0.807	0.545	0.576	Y	0.903	1.032	0.836	1.086	0.511	0.596	Y	0.91	0.861	1.257	1.239	0.782	0.606	Y	1.088	1.539	1.191	1.451	0.853	0.961	Y	1.085	1.674	1.307	1.227	0.868	1.059	Y
IPI00555838	MARK2	MARK2	STFHAGQLR	1		1|2		595|596	596	UNIPROT	19	18	33	1.169	0.884	1.246	1.056	0.942	0.846	Y	0.999	1.069	0.872	0.98	0.561	0.595	Y	1.354	1.087	1.281	1.061	0.938	0.853	Y	1.019	0.975	1.11	0.916	0.971	0.572	Y	NA	2.343	NA	1.284	NA	0.864	Y	0.913	2.217	1.087	2.199	0.888	1.664	Y
IPI00555838	MARK2	MARK2	VPASPLPGLER	1	4		456		456	UNIPROT	24	19	31	1.04	0.982	0.854	1.232	0.688	0.523	Y	0.679	0.783	0.702	0.609	0.352	0.513	Y	0.994	0.999	0.767	0.5	0.722	0.845	Y	0.76	0.567	0.687	1.09	0.629	0.641	Y	NA	0.789	NA	1.057	NA	0.733	Y	0.43	1.339	0.845	4.381	0.348	2.103	Y
IPI00555838	MARK2	MARK2	VPVASPSAHNISSSGGAPDR	1	5		569		569	UNIPROT	66	9	11	0.991	1.396	1.17	0.67	0.773	0.526	N	0.656	0.771	0.68	0.632	0.389	0.353	N	1.753	NA	0.807	NA	0.796	NA	N	1.2	NA	1.044	NA	0.912	NA	N	NA	NA	NA	NA	NA	NA	N	0.714	NA	1.721	NA	0.743	NA	N
IPI00183118	MARK3	MARK3	IADFGFSNEFTVGGKLDTFCGSPPYAAPELFQGK	1		18|22		234|238	234, 238	UNIPROT,PhosphoELM	57	11	60	0.679	0.793	1.073	0.894	0.631	0.581	Y	1.513	0.758	1.221	0.894	0.927	0.519	Y	0.915	0.764	1.089	1.057	0.545	0.555	Y	0.914	1.53	1.84	1.599	0.739	1.126	Y	1.177	1.973	0.915	0.965	0.895	0.707	Y	1.13	0.787	1.652	0.956	1.318	0.329	Y
IPI00183118	MARK3	MARK3	VRPSSDLNNSTGQSPHHK	1	10		419				32	3	3	1.595	NA	1.004	NA	1.213	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.978	NA	1.296	NA	1.024	N	NA	NA	NA	NA	NA	NA	N	1.15	NA	1.039	NA	0.961	NA	N
IPI00064797	MARK4	MARK4	LDTFCGSPPYAAPELFQGK	1	3		214		214	UNIPROT	57	11	58	0.675	0.793	1.073	0.894	0.632	0.581	Y	1.513	0.758	1.221	0.894	0.927	0.519	Y	0.915	0.764	1.089	1.057	0.545	0.555	Y	0.914	1.564	1.84	1.417	0.739	0.994	Y	1.177	1.973	0.915	0.965	0.895	0.707	Y	1.13	0.787	1.652	0.956	1.318	0.329	Y
IPI00064797	MARK4	MARK4	RSPTSTGEAELKEER	1	2		438				59	20	43	NA	0.903	NA	0.894	NA	0.61	N	0.554	0.747	0.613	0.678	0.455	0.441	Y	1.079	1.252	1.178	1.055	0.75	0.957	Y	0.806	0.638	1.145	0.879	0.757	0.437	Y	1.531	2.078	1.155	1.292	1.156	0.74	Y	1.523	1.574	1.12	1.083	0.952	0.663	Y
IPI00100630	MLLT1		LESTSPKGGPPPPPPPPPR	1		3|4|5		265|266|267	265	UNIPROT	33	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00100630	MLLT1		RPATADSPKPSAK	1	7		292		292	PhosphoELM	20	17	40	1.069	1.084	0.851	0.939	0.81	0.747	Y	0.733	1.076	0.567	0.765	0.521	0.633	Y	1.034	0.991	0.947	1.134	0.759	0.752	Y	1.062	0.702	1.024	0.519	0.906	0.484	Y	1.144	1.321	0.897	0.85	0.827	0.807	Y	NA	NA	NA	NA	NA	NA	N
IPI00100630	MLLT1		RSPESCSKPEK	1	2		475		475	UNIPROT	15	17	57	1.216	1.05	0.714	0.849	0.853	0.649	Y	0.585	0.981	0.398	0.752	0.373	0.657	Y	1.101	1.075	0.849	0.963	0.714	0.721	Y	0.97	0.928	1.136	0.53	0.876	0.491	Y	1.048	0.768	0.827	0.976	0.781	0.679	Y	NA	NA	NA	NA	NA	NA	N
IPI00294701	MNAT1		AASPQDLAGGYTSSLACHR	1	3		279				94	24	52	1.112	0.86	1.373	0.469	1.045	0.484	Y	0.636	1.028	0.599	0.644	0.572	0.505	Y	1.062	0.97	0.743	0.792	0.803	0.657	Y	0.837	0.782	1.231	0.646	0.78	0.756	Y	1.085	2.013	1.147	1.041	0.555	0.482	Y	0.849	1.379	1.463	1.091	0.719	1	Y
IPI00294701	MNAT1		GAGNCPECGTPLRK	1	10		51				21	15	22	1.43	1.154	1.472	1.142	0.834	0.79	Y	1.248	0.648	0.867	0.548	0.714	0.607	Y	0.898	NA	0.768	NA	0.684	NA	Y	1.343	0.765	1.108	0.719	0.783	0.636	Y	0.843	3.493	0.846	0.83	0.635	0.651	Y	0.654	NA	0.956	NA	0.6	NA	N
IPI00306531	NCK2		DASPTPSTDAEYPANGSGADR	1		3|5|12		90|92|99			80	1	1	NA	2.358	NA	0.768	NA	0	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00306531	NCK2		DASPTPSTDAEYPANGSGADR	2		3|5|12		90|92|99			67	3	6	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.152	0.377	0.227	1.041	0.575	0.557	N	NA	NA	NA	NA	NA	NA	N
IPI00021331	NEK2	NEK2	QLGEPEKSQDSSPVLSELK	1		8|11|12|16		296|299|300|304			25	14	20	1.158	0.688	1.135	0.974	0.814	0.491	Y	1.179	NA	1.133	NA	0.348	NA	N	0.992	0.661	0.795	0.811	0.781	0.836	Y	1.062	1.18	1.686	1.67	1.067	1.373	Y	NA	1.409	NA	0.957	NA	1.027	N	NA	NA	NA	NA	NA	NA	N
IPI00301609	NEK9	NEK9	ELENAEFIPMPDSPSPLSAAFSESEKDTLPYEELQGLK	1	18		832				62	4	4	0.919	0.763	0.923	0.634	0.54	1.194	N	NA	1.376	NA	0.779	NA	0.227	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00301609	NEK9	NEK9	GTPLTPPACACSSLQVEVER	1	5		886				34	1	1	NA	0.978	NA	0.456	NA	0.349	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00301609	NEK9	NEK9	GTQTAKEEMEMDPKPDLDSDSWCLLGTDSCRPSL	1		19|21|27|29|33		964|966|972|974|978			42	7	9	0.909	0.996	0.6	0.797	0.448	0.665	N	NA	NA	NA	NA	NA	NA	N	1.091	NA	1.264	NA	0.981	NA	N	NA	NA	NA	NA	NA	NA	N	NA	2.411	NA	2.08	NA	1.31	N	NA	NA	NA	NA	NA	NA	N
IPI00301609	NEK9	NEK9	HCDSINSDFGSESGGCGDSSPGPSASQGPR	1		4|7|11|13		13|16|20|22			69	9	9	0.452	38.92	0.451	25.725	2.584	8.985	N	3.891	0.338	1.555	0.633	0	0	N	NA	1.804	NA	0.573	NA	0	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00301609	NEK9	NEK9	SSTVTEAPIAVVTSR	1	3		333		333	UNIPROT	37	6	10	1.223	1.687	1.036	0	1.197	0.483	N	NA	0.71	NA	0.301	NA	0.074	N	0.898	NA	0.7	NA	0.74	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00301609	NEK9	NEK9	VASEAPLEHKPQVEASSPR	1		16|17		868|869	868, 869	UNIPROT,UNIPROT	35	24	123	1.163	1.069	1.026	0.93	0.923	0.762	Y	0.74	0.918	0.647	0.688	0.572	0.693	Y	1.112	1.006	1.076	1.083	0.942	0.938	Y	0.842	1.296	0.845	0.652	0.964	0.958	Y	1.075	1.266	1.041	0.947	0.974	0.84	Y	0.828	0.72	0.914	0.768	0.706	0.748	Y
IPI00008237	NLK	NLK	HMTQEVVTQYYR	1	3		287		287	UNIPROT	56	24	395	1.095	1.13	1.018	0.976	0.584	0.407	Y	0.839	0.831	0.787	0.731	0.386	0.336	Y	1.247	1.04	1.151	0.96	0.6	0.51	Y	1.027	0.796	1.114	0.754	0.521	0.37	Y	1.05	2.036	1.089	1.103	0.75	0.732	Y	1.084	1.14	1.271	1.228	0.713	0.81	Y
IPI00219129	NQO2		SFNGSLKNVAVDELSR	1		1|5		16|20			36	20	30	1.424	0.915	1.397	0.904	0.867	0.929	Y	0.766	0.878	0.832	0.996	0.498	0.765	Y	1.559	2.288	1.317	1.874	1.198	1.178	Y	1.12	1.247	0.867	1.336	0.798	0.682	Y	1.17	NA	0.289	NA	0.124	NA	Y	0.806	NA	0.551	NA	0.191	NA	Y
IPI00025076	NTRK1	TRKA	DIYSTDYYR	1	7		680		680	UNIPROT	46	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.82	NA	1.04	NA	1.018	NA	N
IPI00014068	PAK4	PAK4	DKRPLSGPDVGTPQPAGLASGAK	1	6		181		181	UNIPROT	41	23	46	1.535	0.707	1.275	0.97	0.845	0.728	Y	0.842	0.848	0.93	0.624	0.45	0.197	Y	0.63	0.818	0.931	1.388	0.683	0.686	Y	0.709	0.841	0.906	0.84	0.843	0.559	Y	1.359	1.208	1.068	0.874	0.817	0.773	Y	1.256	1.279	1.164	1.188	1.003	0.91	Y
IPI00014068	PAK4	PAK4	LAAGRPFNTYPR	1	9		207		207	UNIPROT	23	23	68	1.49	0.943	1.398	1.405	0.971	0.969	Y	0.892	0.803	1.009	0.655	0.417	0.294	Y	1.076	0.962	1.068	1.1	0.878	1.199	Y	0.909	0.921	0.942	0.899	0.915	0.711	Y	0.913	0.95	1.27	1.14	0.74	0.752	Y	1.376	0.851	1.672	1.38	0.824	0.788	Y
IPI00014068	PAK4	PAK4	RDSPPPPAR	1	3		104		104	UNIPROT	34	24	280	1.225	1.135	1.304	1.29	0.873	0.831	Y	0.926	0.901	0.979	0.828	0.63	0.608	Y	1.152	1.013	1.137	1.302	0.874	0.79	Y	0.802	1.009	1.374	1.216	0.926	0.741	Y	1.031	2.146	1.182	1.186	0.887	0.81	Y	1.446	1.101	1.552	1.412	0.898	0.967	Y
IPI00014068	PAK4	PAK4	RKSLVGTPYWMAPELISR	1	3		474		474	UNIPROT	85	24	226	0.92	1.184	1.119	0.919	0.876	0.72	Y	0.793	0.793	0.694	0.671	0.581	0.55	Y	1.224	1.105	1.125	1.36	0.844	1.091	Y	0.798	0.788	1.235	1.019	0.819	0.702	Y	1.015	1.696	1.009	1.158	0.759	0.921	Y	1.381	1.132	1.434	1.122	0.821	0.832	Y
IPI00020973	PDE4A		KLMHSNSLNNSNIPR	1	7		346				39	15	39	1.076	1.174	0.605	0.815	0.633	0.642	Y	0.667	0.929	1.054	0.94	0.596	0.484	Y	1.458	0.88	1.147	1.002	0.559	0.524	Y	1.26	0.97	1.294	1.104	0.581	0.554	Y	1.435	1.482	1.48	0.449	0.956	0.229	Y	1.165	0.853	0.962	0.913	0.678	0.573	Y
IPI00020973	PDE4A		QSPSPPPEEESR	2		2|4		686|688			37	2	2	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.398	NA	1.507	NA	0.535	N	NA	NA	NA	NA	NA	NA	N	NA	2.599	NA	0	NA	0.791	N	NA	NA	NA	NA	NA	NA	N
IPI00306301	PDHA1		YHGHSMSDPGVSYR	1	5		293		293	UNIPROT	28	12	38	0.897	1.095	0.99	1.096	0.471	0.583	Y	0.681	NA	0.464	NA	0.424	NA	Y	1.033	1.593	0.903	1.395	0.695	0.749	Y	NA	1.311	NA	1.19	NA	1.501	N	1.058	6.599	1.057	1.421	0.714	1.175	Y	1.107	NA	1.193	NA	0.738	NA	Y
IPI00024087	PDHA2		YHGHSMSDPGVSYR	1	5		291		291	UNIPROT	28	12	38	0.897	1.095	0.99	1.096	0.471	0.583	Y	0.681	NA	0.464	NA	0.424	NA	Y	1.033	1.593	0.903	1.395	0.695	0.749	Y	NA	1.311	NA	1.19	NA	1.501	N	1.058	6.599	1.057	1.421	0.714	1.175	Y	1.107	NA	1.193	NA	0.738	NA	Y
IPI00002538	PDPK1	PDK1	ANSFVGTAQYVSPELLTEK	1	3		241		241	UNIPROT	109	24	96	1.097	0.76	1.321	1.126	0.716	0.547	Y	1.02	0.633	0.958	0.635	0.581	0.46	Y	1.249	1.787	0.966	1.199	0.753	0.858	Y	0.893	0.893	1.035	1.003	0.918	0.673	Y	0.925	1.784	0.78	0.854	0.67	0.692	Y	1.15	1.536	1.045	1.201	0.802	0.986	Y
IPI00383137	PES1		GAVAVLCLLTFPLPTSSR	1		15|16|17		284|285|286			15	13	109	1.181	NA	1.095	NA	1.014	NA	Y	0.77	0.898	0.691	0.866	0.527	0.711	Y	0.981	0.891	0.957	0.979	0.779	0.786	Y	0.813	0.88	1.096	0.984	0.755	0.678	Y	1.028	0.966	1.055	0.948	0.902	0.831	Y	1.06	NA	0.851	NA	0.772	NA	Y
IPI00384765	PKMYT1	MYT1	DALDLSDINSEPPRGSFPSFEPR	1	16		479				39	7	10	NA	NA	NA	NA	NA	NA	N	0.451	NA	0	NA	0.206	NA	N	1.147	0.724	1.62	1.517	0.657	0.234	N	0.965	NA	1.128	NA	0.302	NA	N	1.387	0.855	1.408	1.101	1.013	0.765	Y	NA	NA	NA	NA	NA	NA	N
IPI00384765	PKMYT1	MYT1	RSMSPFRGPK	1	4		143		143	UNIPROT	24	23	312	1.084	1.015	0.95	0.679	0.412	0.118	Y	1.013	0.745	0.687	0.367	0.196	0.087	Y	1.098	1.07	1.042	1.019	0.623	0.331	Y	0.953	0.845	1.083	0.785	0.535	0.263	Y	1.011	1.188	1.04	0.984	0.901	0.837	Y	1.154	0.952	1.162	0.98	0.95	0.921	Y
IPI00002803	PKN1	PKN1	RARPLPATPGAHARSSGR	1		15|16		39|40			13	13	16	0.563	0.473	0.297	0.155	0.068	0.062	Y	0.071	0.084	0.061	0.043	0.043	0.044	Y	NA	NA	NA	NA	NA	NA	N	0.128	0	0.11	0.12	0.068	0.031	N	0.934	NA	0.822	NA	0.227	NA	Y	0.65	0.949	0.622	0.324	0.107	0.064	Y
IPI00412672	PKN1	PKN1	TDVSNFDEEFTGEAPTLSPPRDAR	1	18		922				33	1	1	NA	NA	NA	NA	NA	NA	N	NA	0.116	NA	1.039	NA	0	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00412672	PKN1	PKN1	TSTFCGTPEFLAPEVLTDTSYTR	1		1|2|3		778|779|780			47	5	6	NA	NA	NA	NA	NA	NA	N	NA	0.024	NA	1.287	NA	0.325	N	NA	NA	NA	NA	NA	NA	N	NA	0.505	NA	2.708	NA	0.614	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00002804	PKN2	PKN2	GREDVSNFDDEFTSEAPILTPPREPR	1	20		958		958	UNIPROT	40	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	1.065	NA	1.234	NA	0.565	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00413780	PKN3	PKN3	TSTFCGTPEFLAPEVLTQEAYTR	1		1|2|3		716|717|718	718	UNIPROT	45	9	10	NA	NA	NA	NA	NA	NA	N	8.162	0.506	2.187	0.544	4.66	0.412	N	1.803	0	1.406	2.45	1.106	0	N	9.006	0.197	1.458	0.213	3.599	0.33	N	2.142	NA	0	NA	0	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00413780	PKN3	PKN3	YFEGEFTGLPPALTPPAPHSLLTAR	1	14		860		860	UNIPROT	38	4	4	NA	0.852	NA	0.679	NA	0.212	N	1.482	1.028	0.565	0.671	0.82	1.444	N	NA	NA	NA	NA	NA	NA	N	0.534	NA	0.876	NA	0.633	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00410287	PRKAA1	AMPKa1	DFYLATSPPDSFLDDHHLTRPHPER	1	7		371				56	24	104	0.827	0.977	0.835	1.073	0.591	0.532	Y	0.897	0.673	0.587	0.45	0.524	0.332	Y	1.07	0.679	1.052	0.783	0.763	0.595	Y	0.617	0.515	0.737	0.625	0.583	0.425	Y	0.907	1.27	0.874	0.874	0.772	0.697	Y	1.231	0.756	1.294	0.856	0.596	0.651	Y
IPI00410287	PRKAA1	AMPKa1	IADFGLSNMMSDGEFLRTSCGSPNYAAPEVISGR	1	18		198				99	24	277	0.755	1.305	0.927	1.09	0.718	0.836	Y	0.791	0.96	1.131	0.84	0.584	0.334	Y	0.977	0.945	1.307	0.969	0.912	0.666	Y	0.864	0.872	1.205	1.074	0.837	0.675	Y	1.208	3.134	0.815	1.112	0.593	0.737	Y	1.382	1.562	1.025	1.321	0.938	1.108	Y
IPI00410287	PRKAA1	AMPKa1	SCQRSDSDAEAQGK	1	7		523				39	24	156	1.176	1.123	1.066	0.987	0.764	0.543	Y	1.008	1.013	0.859	0.729	0.533	0.311	Y	1.001	0.99	0.912	1.23	0.684	0.851	Y	1.057	0.951	1.21	1.034	0.833	0.609	Y	1.041	1.452	0.925	0.956	0.791	0.79	Y	1.158	0.953	1.162	1.036	0.833	0.816	Y
IPI00410287	PRKAA1	AMPKa1	SGSVSNYR	1	3		511				51	23	111	1.219	1.038	1.073	0.958	0.815	0.522	Y	0.818	1.118	0.861	1	0.435	0.348	Y	1.014	0.979	0.972	0.947	0.681	0.756	Y	1.139	0.869	1.199	1.129	0.84	0.581	Y	1.105	1.142	1.03	1.036	0.778	0.759	Y	1.237	1.141	1.202	1.275	0.822	0.875	Y
IPI00410287	PRKAA1	AMPKa1	SIDDEITEAKSGTATPQR	1		7|11		497|501			35	23	41	0.84	0.883	1.043	0.948	0.738	0.549	Y	0.731	0.802	0.668	0.553	0.536	0.291	Y	0.994	1.069	0.926	1.072	0.646	0.949	Y	0.821	0.858	0.973	0.992	0.751	0.655	Y	0.866	0.954	0.783	0.842	0.743	0.705	Y	1.232	0.966	1.345	0.923	0.907	0.762	Y
IPI00410287	PRKAA1	AMPKa1	SIDDEITEAKSGTATPQR	2	7&11		497&501				35	21	38	1.439	0.881	1.471	1.598	1.195	1.113	Y	0.788	0.786	0.8	0.667	0.575	0.274	Y	1.374	1.079	0.982	1.81	0.809	1.779	Y	0.674	1.12	0.916	1.106	0.859	0.888	Y	0.986	1.093	1.244	0.925	0.871	0.808	Y	0.891	0.792	0.943	0.779	0.649	0.442	Y
IPI00410287	PRKAA1	AMPKa1	SSEVSLTSSVTSLDSSPVDLTPR	2		5|7|8		535|537|538			41	15	18	1.014	1.367	1.062	0.476	0.989	0.856	N	1.06	0.726	0.842	0.963	0.487	0.155	N	0.359	1.265	0.479	0.903	0.545	0.621	N	1.778	0.532	1.083	0.641	1.109	0.399	N	0.416	2.372	0.58	1.984	0.541	0.124	N	0.612	0.838	1.323	1.241	0.415	0.822	N
IPI00220409	PRKAB1		CSDVSELSSSPPGPYHQEPYVCKPEER	1	10		181		181	UNIPROT	62	24	119	1.621	1.421	1.42	1.158	1.124	0.71	Y	1.444	1.048	1.41	1.173	0.584	0.51	Y	1.334	1.199	1.113	1.343	0.883	0.905	Y	1.155	1.297	1.297	1.209	1.117	0.877	Y	1.641	1.933	1.341	1.424	1.381	1.207	Y	1.437	1.874	1.409	1.67	1.016	1.081	Y
IPI00220409	PRKAB1		DSSGGTKDGDRPK	1		2|3		23|24	24	UNIPROT	32	24	252	1.241	0.996	1.16	0.851	1.189	0.695	Y	0.659	0.822	0.573	0.717	0.581	0.447	Y	0.982	1.279	0.807	1.246	1.107	1.182	Y	0.67	0.886	0.708	0.899	0.832	0.766	Y	1.084	1.363	0.961	1.017	1.055	0.878	Y	0.902	1.145	1.019	1.114	1.013	0.951	Y
IPI00220409	PRKAB1		EVYLSGSFNNWSK	1		7|12		95|100			37	20	54	0.977	1.169	0.948	0.837	0.723	0.348	Y	0.895	0.776	0.391	0.621	0.528	0.283	Y	0.87	0.66	0.874	0.646	0.639	0.586	Y	0.704	0.714	1.158	0.853	0.734	0.683	Y	0.87	1.69	0.926	0.763	0.71	0.761	Y	0.684	0.673	0.91	0.567	0.362	0.306	Y
IPI00220409	PRKAB1		LPLTRSHNNFVAILDLPEGEHQYK	1	6		107		107	UNIPROT	76	24	402	1.966	1.88	1.69	1.099	0.906	0.606	Y	1.499	1.337	1.075	0.934	0.546	0.497	Y	1.365	1.269	1.224	1.508	0.719	0.914	Y	1.605	1.362	2.268	1.616	0.955	0.859	Y	1.652	2.336	1.363	1.299	0.933	0.85	Y	1.564	1.251	1.827	1.666	0.809	0.657	Y
IPI00013905	PRKAB2		DLSSSPPGPYGQEMYAFR	1	4		183		183	UNIPROT	99	18	51	1.301	1.513	1.203	0.923	1.282	1.045	Y	1.416	0.842	0.959	0.787	0.936	0.325	Y	1.078	1.227	0.927	2.195	0.973	1.432	Y	1.327	0.7	1.096	0.648	0.675	0.648	Y	NA	0.46	NA	1.109	NA	0.892	N	0.835	NA	3.832	NA	0.628	NA	N
IPI00013905	PRKAB2		IMVGSTDDPSVFSLPDSK	1		5|6|10|13|17		39|40|44|47|51			34	5	7	0.6	1.481	0.622	1.063	0.857	0.359	N	0.48	NA	0.388	NA	0.422	NA	N	0.551	NA	5.383	NA	1.015	NA	N	0.854	NA	1.013	NA	0.592	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00013905	PRKAB2		IPLIKSHNDFVAILDLPEGEHQYK	1	6		108				63	24	76	0.912	1.141	1.144	1.05	0.711	0.703	Y	0.813	0.984	0.9	0.597	0.359	0.405	Y	1.301	1.033	0.913	0.996	0.805	0.915	Y	0.97	1.062	1.409	1.201	1.36	1.089	Y	1.303	1.98	1.273	0.851	1.05	0.713	Y	1.383	0.831	1.482	0.611	1.392	0.671	Y
IPI00385449	PRKCA	PKCa	EHMMDGVTTRTFCGTPDYIAPEIIAYQPYGK	1		8|9|11		493|494|496	494, 496	UNIPROT,UNIPROT	38	7	9	3.757	1.29	3.472	0.914	1.338	0.483	N	NA	NA	NA	NA	NA	NA	N	NA	0.936	NA	0.798	NA	0.334	N	NA	0.569	NA	0.563	NA	0.706	N	1.371	NA	1.095	NA	1.296	NA	N	NA	25.28	NA	4.371	NA	14.565	N
IPI00219628	PRKCB1	PKCb	ENIWDGVTTKTFCGTPDYIAPEIIAYQPYGK	1		11|15		500|504	500, 504	UNIPROT,UNIPROT	45	24	42	1.063	1.25	0.845	0.922	0.907	0.8	Y	1.009	0.492	0.872	0.469	0.9	0.532	Y	1.154	1.194	1.163	0.865	0.602	0.467	Y	0.871	0.441	1.413	0.973	0.614	0.831	Y	1.084	1.569	0.904	0.807	0.668	0.936	Y	1.148	0.921	1.154	0.457	0.815	0.466	N

Abbreviations: SSM; number of spectrum-to-sequence matches, NA; not available.

IPI acc. no.	Protein	Kinase	Phospopeptide sequence	# of sites in peptide	modified position in peptide	possible modification positions in peptide	location of P-site in protein	possible locations of phosphorylation site(s) in protein	location of known p-site	source database of known p-site (Uniprot, PhosphoElm, Phosida)	highest mascot ion score	Found in # of experiments (max. 24)	Total SSM	bosutinib applied to lysate							bosutinib applied to cultured cells							dasatinib applied to lysate							dasatinib applied to cultured cells							imatinib applied to lysate							imatinib applied to cultured cells						
														kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation	kinobeads binding relative to vehicle at						used for quantitation
														0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	10 uM		0.01 uM	0.03 uM	0.1 uM	0.3 uM	1 uM	5 uM	
IPI00219628	PRKCB1	PKCb	HPPVLTPPDQEVIR	1	6		641				65	24	859	1.127	0.913	1.035	0.847	0.565	0.472	Y	0.743	0.667	0.689	0.579	0.393	0.379	Y	1.015	0.854	0.847	0.759	0.443	0.451	Y	0.827	0.678	0.935	0.927	0.56	0.425	Y	1.211	1.71	1.183	0.937	0.695	0.524	Y	1.297	1.189	1.166	1.021	0.625	0.597	Y
IPI00219628	PRKCB1	PKCb	NIDQSEFEGFSFVNSEFLKPEVK	1		5|11|15		654|660|664			64	24	156	0.931	1.088	0.898	0.925	0.864	0.926	Y	0.772	0.732	0.612	0.659	0.575	0.747	Y	0.937	0.909	0.845	1.109	0.73	0.861	Y	0.886	0.632	1.453	1.144	0.862	0.653	Y	1.063	1.112	0.906	0.909	0.959	0.812	Y	2.51	1.517	2.329	1.316	1.186	0.873	Y
IPI00219628	PRKCB1	PKCb	NIDQSEFEGFSFVNSEFLKPEVK	2		5|11|15		654|660|664			42	14	25	NA	NA	NA	NA	NA	NA	N	NA	0.787	NA	0.389	NA	0.366	N	1.004	0.77	1.055	0.895	1.09	0.668	Y	2.95	0.867	3.504	1.467	1.571	0.51	N	1.027	1.469	0.898	0.967	0.837	0.792	Y	2.095	1.652	1.851	0.875	1.169	0.692	Y
IPI00219628	PRKCB1	PKCb	TFCGTPDYIAPEIIAYQPYGK	1	1		500		500	UNIPROT	79	24	97	1.174	0.929	1.003	0.833	0.757	0.589	Y	1.525	1.13	0.751	0.748	0.504	0.98	Y	0.973	0.936	0.686	0.76	0.511	0.717	Y	0.777	0.795	1.061	1.015	0.607	0.554	Y	1.178	1.829	0.763	1.024	0.662	0.809	Y	1.76	1.29	1.714	1.014	0.937	0.694	Y
IPI00329236	PRKCD	PKCd	ASTFCGTPDYIAPEILQGLK	1		2|3		506|507	507	UNIPROT	55	22	37	0.638	0.916	1.157	0.706	0.485	0.649	Y	0.751	0.737	0.754	0.535	0.423	0.711	Y	1.139	0.938	1.067	1.115	1.237	0.593	Y	1.021	0.74	1.09	1.206	0.729	0.548	Y	1.005	0.707	1.432	0.69	1.195	0.442	N	1.22	0.537	2.311	0.692	1.167	0.474	N
IPI00329236	PRKCD	PKCd	RSDSASSEPVGIYQGFEK	1	13		313		313	PhosphoELM	50	4	4	NA	NA	NA	NA	NA	NA	N	1.067	NA	0.705	NA	0.582	NA	N	0.986	NA	0.71	NA	0.916	NA	N	1.36	0.843	1.388	0.711	0.899	0.689	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00029196	PRKCQ	PKCt	ALINSMDQNMFR	1	5		718		718	UNIPROT	38	13	25	1.133	1.508	1.167	1.514	0.446	0.8	Y	1.772	0.492	1.802	0.299	0.235	0.266	N	1.047	NA	0.801	NA	0.517	NA	Y	0.774	0.661	0.938	0.758	0.697	0.376	Y	1.426	NA	1.239	NA	1.413	NA	N	0.714	NA	0.667	NA	0.649	NA	N
IPI00029196	PRKCQ	PKCt	NFSFMNPGMER	1	3		728				41	23	143	1.624	1.585	1.699	1.552	1.05	0.601	Y	1.587	1.065	1.295	0.854	0.656	0.406	Y	1.79	1.519	1.652	1.671	1.076	0.983	Y	1.321	1.361	1.832	2.145	1.092	1.025	Y	1.699	1.83	1.697	1.189	1.106	0.697	Y	2.168	1.845	2.037	1.914	1.267	0.987	Y
IPI00029196	PRKCQ	PKCt	TNTFCGTPDYIAPEILLGQK	1	3		571		571	UNIPROT	55	23	68	1.352	1.355	1.01	1.282	0.61	0.179	Y	0.919	0.696	0.822	0.606	0.648	0.326	Y	1.554	1.141	1.201	1.223	0.845	1.381	Y	0.833	0.876	0.884	1.055	0.762	0.785	Y	1.417	1.489	0.846	1.097	0.516	0.749	Y	1.694	2.003	1.052	1.404	1.065	0.751	Y
IPI00009334	PRKD2	PKD2	LGTSESLPCTAEELSR	1	6		214		214	UNIPROT	34	16	28	1.515	1.229	1.106	0.778	0.954	0.371	Y	0.91	1.157	0.797	1.116	0.618	0.493	Y	0.723	1.001	2.12	1.184	3.199	0.383	N	0.756	1.232	0.989	1.167	0.672	0.773	Y	NA	NA	NA	NA	NA	NA	N	0.807	NA	1.307	NA	0.656	NA	N
IPI00009334	PRKD2	PKD2	RLSSTSLASGHSVR	1		3|4|5		197|198|199	197, 198	UNIPROT,PhosphoELM	61	24	57	1.082	1.029	1.398	1.017	0.764	0.669	Y	0.658	0.799	0.778	0.959	0.458	0.476	Y	1.13	1.591	1.238	1.262	0.825	0.828	Y	0.756	1.271	1.273	1.379	0.825	0.832	Y	1.096	2.632	0.921	1.265	0.887	0.942	Y	0.832	0.969	1.03	2.029	0.771	1.381	Y
IPI00009334	PRKD2	PKD2	RLSSTSLASGHSVR	2		3|4|5		197|198|199	197, 198	UNIPROT,PhosphoELM	31	12	21	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.26	0.888	0.948	1.018	0.53	0.914	Y	0.797	0.9	1.137	1.092	0.788	0.711	Y	1.55	2.538	1.456	0.785	1.072	0.589	Y	1.265	1.505	1.354	1.327	1.02	0.96	Y
IPI00009334	PRKD2	PKD2	SVVGTPAYLAPEVLLNQGYNR	1	8		717				68	17	25	0.952	NA	0.886	NA	0.921	NA	N	0.729	0.658	0.45	0.659	0.355	0.403	Y	1.34	0.971	0.915	0.863	0.842	0.855	N	0.266	0.353	0.346	0.094	0.569	0.449	N	0.763	2	0.935	1.485	0.726	1.124	Y	0.381	1.217	1.129	0.92	0.245	0.864	N
IPI00413961	PTK2	FAK	LQPQEISPPPTANLDR	1	7		932				35	9	16	1.632	0.79	1.805	1.152	0.82	0.443	Y	1.13	0.385	0.686	0.38	0.509	0.126	Y	0.918	NA	1.498	NA	0.803	NA	N	0.619	NA	0.375	NA	0.532	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00413961	PTK2	FAK	QATVSWDSGGSDEAPPKPSRPGYPSPR	1	25		744				51	22	93	0.88	0.733	1.015	0.745	0.611	0.278	Y	0.751	0.799	0.749	0.61	0.407	0.265	Y	1.066	1.373	0.988	0.787	0.765	1.451	Y	0.708	1.135	0.847	1.055	0.584	0.71	Y	1.015	1.661	1.055	1.094	0.835	0.984	Y	1.442	1.147	1.13	1.691	0.995	1.013	Y
IPI00413961	PTK2	FAK	THLGTGMERSPGAMER	1	1		42				17	17	27	1.475	0.785	1.413	0.731	0.897	0.4	Y	0.589	0.546	0.723	0.455	0.283	0.479	Y	0.683	NA	0.924	NA	0.461	NA	Y	1.746	0.523	1.241	0.616	0.862	0.576	Y	0.789	4.051	0.778	1.395	0.609	0.238	Y	1.127	2.484	1.102	2.382	0.75	0.936	Y
IPI00413961	PTK2	FAK	YMEDSTYYK	1		7|8		598|599			53	24	181	0.904	0.922	0.761	0.62	0.324	0.125	Y	0.735	0.655	0.451	0.296	0.163	0.109	Y	0.914	0.748	0.797	0.766	0.571	0.571	Y	0.736	0.532	0.535	0.53	0.469	0.415	Y	0.969	1.396	0.924	0.838	0.92	0.701	Y	1.213	0.807	1.217	0.96	0.948	0.923	Y
IPI00413961	PTK2	FAK	YMEDSTYYKASK	2	7&8		598&599				19	15	25	1.143	0.893	0.621	0.495	0.129	0.08	Y	0.337	NA	0.119	NA	0.046	NA	Y	0.925	0.512	0.419	0.357	0.16	0.188	Y	NA	0.064	NA	0.073	NA	0.046	Y	1.117	1.173	0.822	0.914	0.992	0.71	Y	1.238	1.11	1.136	0.783	0.918	0.761	Y
IPI00029702	PTK2B	PYK2	KDGEKRNSLPQIPMLNLEAR	1	8		375		375	UNIPROT	53	24	384	1.091	0.914	1.462	1.131	0.782	0.413	Y	0.818	0.788	1.105	1.136	0.527	0.389	Y	0.99	0.858	1.321	1.599	0.624	0.691	Y	0.825	0.722	1.557	1.355	0.86	0.631	Y	1.216	1.299	1.733	1.338	0.85	0.66	Y	1.137	1.116	1.656	1.673	0.939	0.661	Y
IPI00029702	PTK2B	PYK2	SHLSESCSIESDIYAEIPDETLR	1		1|4|6|8		389|392|394|396			51	3	3	NA	NA	NA	NA	NA	NA	N	NA	2.728	NA	1.651	NA	0.511	N	NA	NA	NA	NA	NA	NA	N	NA	0	NA	0	NA	0	N	NA	0.989	NA	1.54	NA	0.366	N	NA	NA	NA	NA	NA	NA	N
IPI00029702	PTK2B	PYK2	YIEDEDYYK	1		7|8		579|580	579, 580	UNIPROT,UNIPROT	45	18	43	1.279	0.884	1.073	0.707	0.683	0.337	Y	0.374	0.228	0.094	0.117	0.027	0.067	Y	0.873	0.958	0.765	0.896	0.566	0.534	Y	NA	NA	NA	NA	NA	NA	N	1.192	1.37	0.793	1.018	0.961	0.744	Y	1.01	0.996	1.107	1.085	1.038	0.741	Y
IPI00029702	PTK2B	PYK2	YIEDEDYYKASVTR	2	7&8		579&580		579, 580	UNIPROT,UNIPROT	31	9	18	1.133	NA	0.936	NA	0.386	NA	N	NA	NA	NA	NA	NA	NA	N	0.918	0.593	0.306	0.605	0.43	0.375	Y	NA	NA	NA	NA	NA	NA	N	1.004	1.06	0.913	0.933	0.866	0.765	Y	1.045	0.907	0.983	1.211	1.177	0.827	Y
IPI00219132	PTPN18		ENCAPLYDDALFLR	1	7		314				72	7	9	1.671	1.539	1.332	1.38	0.44	0.724	N	0.682	0.284	0.233	0.217	0.121	0.041	Y	1.011	NA	0.433	NA	0.314	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00219132	PTPN18		SAEEAPLYSK	1	8		389		389	UNIPROT	52	19	36	1.333	0.817	1.054	0.664	0.627	0.154	Y	0.358	0.54	0.104	0.178	0.037	0.08	Y	1.336	1.725	0.892	0.388	0.284	0.342	N	0.271	0.162	0.199	0.17	0.082	0.11	Y	1.166	2.498	0.997	1.405	1.569	0.884	Y	0.692	1.173	0.453	0.802	0.908	1.211	Y
IPI00021917	RIPK2	RIPK2	KAQDCYFMK	1	6		381				29	23	36	1.09	0.968	1.008	0.939	0.927	0.679	Y	0.802	1.05	0.629	0.676	0.352	0.508	Y	1	0.641	0.378	0.224	0.245	0.196	Y	0.561	0.126	0.447	0.11	0.199	0.072	Y	0.958	0.932	0.932	0.856	0.729	0.784	Y	0.845	0.727	0.758	0.783	0.76	0.859	Y
IPI00021917	RIPK2	RIPK2	LHHCPGNHSWDSTISGSQR	1		9|12|13		393|396|397			39	16	35	1.06	0.807	1.208	0.676	0.916	0.762	Y	0.797	0.976	0.796	0.814	0.461	0.693	Y	0.999	NA	1.213	NA	0.658	NA	N	0.514	0.677	1.028	0.595	0.393	0.584	N	1.024	6.519	1.076	1.874	0.684	0.511	Y	1.19	1.488	1.403	1.92	0.856	1.032	Y
IPI00021917	RIPK2	RIPK2	MMSLSQSR	1		3|5		174|176			11	16	25	1.004	0.961	0.952	0.873	0.691	0.657	Y	0.863	0.928	0.626	0.912	0.332	0.426	Y	1.235	0.623	0.522	0.665	0.176	0.225	N	NA	0.591	NA	0.501	NA	0.263	N	1.061	3.558	1.042	1.346	0.948	1.005	Y	1.06	NA	0.867	NA	0.618	NA	Y
IPI00021917	RIPK2	RIPK2	QMGLQPYPEILVVSRSPSLNLLQNK	2	14&18		527&531		531	UNIPROT	42	20	45	1.507	0.889	1.355	0.927	1.058	0.842	Y	0.694	0.701	0.84	0.823	0.707	0.462	Y	0.985	0.681	0.352	0.17	0.178	0.057	Y	NA	0.34	NA	0.063	NA	0.045	N	1.303	1.313	0.949	0.849	0.993	0.899	Y	0.528	0.683	0.674	0.802	0.675	0.479	Y
IPI00021917	RIPK2	RIPK2	SLPAPQDNDFLSR	1	1		363				65	23	64	1.391	1.109	0.797	0.905	0.712	0.619	Y	0.521	0.776	0.501	0.578	0.373	0.384	Y	0.779	0.316	0.386	0.508	0.198	0.215	Y	0.446	0.281	0.273	0.202	0.089	0.08	Y	0.794	1.519	0.822	0.849	0.782	0.768	Y	1.382	0.914	1.684	0.951	0.962	0.719	Y
IPI00021917	RIPK2	RIPK2	SPSLNLLQNK	1	3		531		531	UNIPROT	35	23	69	1.022	1.214	0.909	1.017	0.864	0.799	Y	0.794	0.98	0.637	0.823	0.504	0.576	Y	0.809	0.787	0.386	0.499	0.249	0.215	Y	0.524	0.419	0.344	0.224	0.184	0.159	Y	1.211	1.385	0.98	0.814	0.904	0.702	Y	0.979	0.79	0.718	0.96	0.562	0.883	Y
IPI00477982	RPS6KA1	RSK3	AYSFCGTVEYMAPEVVNR	1	3		230				99	22	401	1.384	1.123	1.165	1.052	0.928	0.731	Y	0.796	0.79	0.752	0.74	0.569	0.578	Y	1.211	1.08	1.026	1.193	0.924	0.98	Y	0.579	0.885	1.003	0.958	0.756	0.634	Y	1.079	1.642	0.965	1.066	0.907	0.884	Y	1.118	1.128	1.195	1.135	0.752	0.916	Y
IPI00477982	RPS6KA1	RSK3	DSPGIPPSAGAHQLFR	1	8		378				45	5	8	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.768	NA	0.78	NA	0.482	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.171	1.254	1.122	0.788	0.694	0.406	Y
IPI00477982	RPS6KA1	RSK3	GFSFVATGLMEDDGKPR	1	3		389				75	24	115	1.1	1.202	0.961	0.871	0.894	0.706	Y	0.678	0.634	0.357	0.319	0.163	0.219	Y	1.02	1.013	0.924	1.427	0.756	1.184	Y	0.336	0.452	0.397	0.438	0.232	0.254	Y	0.927	1.389	0.82	0.799	0.762	0.559	Y	1.036	1.075	0.842	0.641	0.457	0.383	Y
IPI00477982	RPS6KA1	RSK3	TPKDSPGIPPSAGAHQLFR	1	5		372				64	24	254	1.116	1.021	0.905	0.92	0.732	0.692	Y	0.626	0.502	0.374	0.356	0.18	0.175	Y	1.007	0.993	0.773	0.966	0.653	0.754	Y	0.256	0.285	0.335	0.36	0.214	0.204	Y	1.12	1.76	1.057	1.019	0.751	0.751	Y	1.197	0.999	1.002	0.667	0.363	0.331	Y
IPI00020898	RPS6KA3	RSK2	AYSFCGTVEYMAPEVVNR	1	3		227		227	UNIPROT	99	22	407	1.384	1.123	1.165	1.052	0.928	0.731	Y	0.796	0.79	0.752	0.74	0.569	0.578	Y	1.211	1.08	1.026	1.193	0.924	0.98	Y	0.579	0.885	1.003	0.958	0.756	0.634	Y	1.079	1.642	0.965	1.066	0.907	0.884	Y	1.121	1.128	1.191	1.135	0.753	0.916	Y
IPI00020898	RPS6KA3	RSK2	DSPGIPPSANAHQLFR	1	2		369		369	UNIPROT	57	22	71	1.054	0.872	0.881	0.735	0.472	0.549	Y	0.683	0.578	0.458	0.511	0.316	0.29	Y	0.925	1.013	0.742	0.819	0.497	0.538	Y	0.372	0.415	0.431	0.455	0.356	0.409	Y	1.14	0.842	0.854	0.802	0.817	0.684	Y	1.107	1.171	1.07	0.894	0.531	0.56	Y
IPI00020898	RPS6KA3	RSK2	GFSFVAITSDDESQAMQTVGVHSIVQQLHR	1	3		386		386	UNIPROT	75	15	20	0.737	0.302	0.623	0.726	0.224	0.133	N	2.207	NA	0.526	NA	0.582	NA	N	1.534	1.057	1.11	1.206	0.676	0	N	NA	0.978	NA	1.122	NA	0.49	N	0.962	NA	1.396	NA	0.701	NA	N	1.274	0.678	1.058	0.439	0.539	0.466	Y
IPI00220388	SH2D2A		PKPSNPIYNEPDEPIAFYAMGR	2	8&18		290&300		290	PhosphoELM	43	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	1.441	NA	0.87	NA	0.471	N	NA	NA	NA	NA	NA	NA	N
IPI00021326	SHC1		ELFDDPSYVNVQNLDK	1	8		428		428	UNIPROT	79	22	56	0.87	0.439	0.382	0.126	0.121	0.101	Y	0.184	0.07	0.099	0.068	0.078	0.057	Y	0.992	0.175	0.138	0.28	0.028	0.16	Y	0	0.073	0.054	0	0	0.013	N	1.171	1.087	0.846	0.665	0.457	0.18	Y	0.751	0.755	0.76	0.571	0.191	0.255	Y
IPI00021326	SHC1		HGSFVNKPTR	1	3		139		139	UNIPROT	27	23	79	1.041	0.497	0.362	0.335	0.164	0.218	Y	0.124	0.194	0.119	0.156	0.051	0.1	Y	0.857	0.428	0.31	0.224	0.13	0.185	Y	0.165	0.136	0.178	0.162	0.135	0.075	Y	1.243	1.51	0.994	0.606	0.34	0.235	Y	0.89	0.489	0.794	0.471	0.214	0.144	Y
IPI00080553	ARYLSULFATASE B		GFVSGSSSATAAGGPGRRR	1		6|7|8|10		32|33|34|36			37	3	3	2.348	NA	2.005	NA	0.979	NA	N	NA	NA	NA	NA	NA	NA	N	NA	5.312	NA	1.577	NA	2.49	N	NA	NA	NA	NA	NA	NA	N	NA	0.483	NA	0.531	NA	2.271	N	NA	NA	NA	NA	NA	NA	N
IPI00084820	CAP PROTEIN		MLLLMEPYNLILGRR	1	8		8				38	1	1	NA	NA	NA	NA	NA	NA	N	NA	0.882	NA	0.494	NA	0.666	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00234463	SIM TO CKI, DELTA		GTQEVAPPTPLTPTSHTANTSPRPVSGMER	1		14|15|21|26		454|455|461|46	455	UNIPROT	41	13	41	0.842	1.004	1.053	0.531	0.652	0.553	Y	0.541	0.703	0.74	0.575	0.291	0.249	Y	0.839	0.768	0.78	0.689	0.479	0.491	Y	0.925	1.612	1.283	1.315	0.59	0.801	Y	0.429	1.626	0.803	1.143	0.434	0.628	N	0.858	0.661	0.771	2.012	0.499	1.454	N
IPI00234463	SIM TO CKI, DELTA		LRGTQEVAPPTPLTPTSHTANTSPRPVSGMER	1		11|14|16|17|19|22|23|28		449|452|454|45	455	UNIPROT	44	10	20	1.231	2.494	1.457	1.881	1.257	0.139	N	0.588	0.999	0.739	0.862	0.276	0.216	N	1.815	NA	1.965	NA	1.245	NA	N	1.119	0.625	1.759	0.866	0.782	0.479	N	2.056	2.168	1.133	1.359	1.256	0.738	N	NA	0.611	NA	0.418	NA	0.136	N
IPI00402366	MGC15937		SSSLASTGR	1		1|2|3		599|600|601			18	12	12	1.089	0.954	1.114	1.059	0.964	1.114	Y	1.207	0.899	1.256	0.737	1.209	0.929	N	1.816	0.934	1.413	1.034	1.381	1.519	N	0.604	1.668	0.798	1.163	0.8	1.104	N	NA	0.938	NA	0.8	NA	1.137	N	NA	1.205	NA	1.032	NA	1.43	N
IPI00022827	SLK	SLK	RDSFIGTPYWMAPEVVMCETSK	1		3|7|9		189|193|195	189	UNIPROT	73	16	37	1.059	0.288	1.46	0.298	0.59	0.17	N	0.258	NA	0.4	NA	0.141	NA	N	1.367	1.095	1.24	1.299	0.995	0.544	Y	0.991	0.887	1.201	1.336	0.646	0.405	Y	0.97	2.801	1.238	1.521	0.991	0.87	Y	2.57	NA	3.063	NA	2.032	NA	N
IPI00022827	SLK	SLK	SNSEDKLNSK	1	3		372				32	10	13	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	1.211	NA	1.487	NA	0.909	N	NA	1.129	NA	1.184	NA	0.438	N	0.905	1.378	1.313	0.536	1.089	0.815	Y	1.411	0.938	1.46	1.38	0.798	0.418	Y
IPI00465291	SNF1LK2	QIK	DLNFLEDNPSLKDIMLANQPSPR	1	10		534				41	2	2	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00465291	SNF1LK2	QIK	RASDTSLTQGIVAFR	1	3		587		587	UNIPROT	53	23	70	1.146	0.92	0.959	0.638	0.561	0.378	Y	0.763	0.533	0.683	0.358	0.525	0.378	Y	1.016	0.938	0.655	0.796	0.546	0.238	Y	0.707	0.43	0.612	0.597	0.325	0.304	Y	NA	NA	NA	NA	NA	NA	N	0.889	0.611	0.94	0.976	0.809	1.077	Y
IPI00465291	SNF1LK2	QIK	RHTLSEVTNQLVVMPGAGK	1		3|5		484|486			36	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00328867	SRC	SRC	KEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL	1	27		536		536	UNIPROT	69	16	16	NA	0.662	NA	0.488	NA	0.248	N	0.547	0.416	0.21	0.108	0.272	0.022	N	0.945	0.716	0.415	0.186	0.093	0.024	N	0.105	0.068	0.048	0.109	0.126	0	N	1.632	1.695	0.815	1.848	0.327	0.526	N	0.72	1.522	0.737	1.406	0.529	1.109	N
IPI00328867	SRC	SRC	LIEDNEYTAR	1	7		425		425	UNIPROT	61	23	255	0.84	0.502	0.31	0.118	0.083	0.033	Y	0.301	0.145	0.071	0.044	0.031	0.02	Y	0.501	0.241	0.081	0.068	0.03	0.033	Y	0.034	0.037	0.035	0.053	0.02	0.028	Y	1.1	1.22	0.986	0.904	0.96	0.812	Y	1.247	1.145	1.264	1.111	1.035	1.137	Y
IPI00328867	SRC	SRC	RRSLEPAENVHGAGGGAFPASQTPSKPASADGHR	1	3		17		17	UNIPROT	34	17	42	1.039	0.827	0.642	0.672	0.427	0.254	Y	0.932	0.469	0.491	0.268	0.166	0.136	Y	0.597	0.404	0.313	0.171	0.128	0.177	Y	NA	0.198	NA	0.224	NA	0.163	N	1.392	0.998	1.192	0.811	0.948	0.699	Y	1.283	0.828	1.486	0.692	1.032	0.954	Y
IPI00328293	SRRM1		TRHSPTPQQSNR	1		1|4|6		406|409|411	406, 409, 411	UNIPROT,PhosphoELM,PhosphoELM	31	3	3	1.159	1.23	0.877	2.719	0.896	0.798	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00099730	SRRM2		ARSRTPPSAPSQSR	2		3|5|8		2407|2409|241	2407, 2409	UNIPROT,UNIPROT	34	6	6	NA	NA	NA	NA	NA	NA	N	0.856	0.63	0.744	0.561	0.511	0.449	N	NA	NA	NA	NA	NA	NA	N	0.441	0.602	0.507	0.712	0.322	0.322	N	NA	NA	NA	NA	NA	NA	N	NA	1.111	NA	1.245	NA	0.823	N
IPI00039689	SRRM2		SRTPPSAPSQSR	1		1|3|6		930|932|935			38	4	4	0.959	NA	0.798	NA	0.627	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	0.846	NA	1.425	NA	0.608	N	NA	NA	NA	NA	NA	NA	N	0.918	0.913	1.302	1.348	0.955	1.03	N
IPI00039689	SRRM2		VSGRTSPPLLDR	1		2|5|6		917|920|921			12	13	19	1.512	0.785	0.888	0.509	0.726	0.542	N	0.605	0.539	0.83	0.67	0.28	0.495	Y	1.051	1.314	0.893	1.142	0.658	1.076	Y	0.845	0.6	0.962	0.543	0.486	0.317	Y	NA	NA	NA	NA	NA	NA	N	0.705	NA	0.831	NA	0.338	NA	N
IPI00009032	SSB		FASDDEHDEHDENGATGPVKR	1	3		366		366	UNIPROT	66	12	17	NA	NA	NA	NA	NA	NA	N	1.764	1.02	1.153	1.072	0.762	0.656	Y	NA	0.599	NA	1.331	NA	0.842	N	1.596	1.255	1.409	1.337	0.71	0.568	Y	1.2	1.925	1.172	0.922	1.082	0.413	Y	0.883	NA	0.691	NA	0.775	NA	N
IPI00154910	STS-1		AAREELYSK	1	7		19		19	PhosphoELM	33	24	474	1.027	0.694	0.825	0.526	0.326	0.109	Y	0.111	0.042	0.102	0.102	0.038	0.039	Y	0.837	0.832	0.369	0.255	0.083	0.079	Y	0.062	0.052	0.139	0.128	0.074	0.055	Y	1.076	1.071	0.924	0.827	0.616	0.48	Y	0.688	0.677	0.541	0.423	0.185	0.125	Y
IPI00154910	STS-1		VNSQPGPQK	1	3		377				29	19	84	1.094	0.904	0.706	0.548	0.374	0.153	Y	0.213	0.17	0.181	0.138	0.1	0.111	Y	1.03	0.658	0.401	0.307	0.124	0.089	Y	NA	0.403	NA	0.421	NA	0.171	N	1.125	1.55	0.96	1.055	0.676	0.439	Y	0.642	0.435	0.593	0.352	0.216	0.101	Y
IPI00018597	SYK	SYK	ADENYYK	1		5|6		525|526	525, 526	UNIPROT,PhosphoELM	36	24	138	1.265	0.81	0.997	0.635	0.57	0.172	Y	0.279	0.17	0.083	0.087	0.046	0.059	Y	1.154	1.115	0.789	0.691	0.491	0.262	Y	0.32	0.044	0.09	0.071	0.062	0.031	Y	1.329	1.251	1.048	0.87	1.004	0.726	Y	0.617	0.636	0.911	0.986	0.636	0.66	Y
IPI00018597	SYK	SYK	EALPMDTEVYESPYADPEEIRPK	1		10|14		348|352	348, 352	UNIPROT,UNIPROT	68	24	147	1.041	0.761	1.196	0.728	0.609	0.303	Y	0.419	0.281	0.276	0.184	0.097	0.074	Y	1.142	1.262	1.264	1.078	0.499	0.409	Y	0.521	0.321	0.572	0.275	0.146	0.186	Y	1.481	1.649	1.14	0.853	0.682	0.517	Y	0.941	0.754	1.171	1.018	0.671	0.563	Y
IPI00018597	SYK	SYK	EALPMDTEVYESPYADPEEIRPK	2	10&14		348&352		348, 352	UNIPROT,UNIPROT	65	17	30	1.261	0.641	1.286	0.483	0.526	0.2	Y	0.392	0.131	0.103	0.119	0.044	0.014	N	0.615	1.295	0.716	1.163	0.617	0.303	Y	NA	NA	NA	NA	NA	NA	N	0.803	0.845	0.935	0.847	0.636	0.455	Y	0.913	1.402	1.345	0.968	1.147	0.534	N
IPI00018597	SYK	SYK	EYVKQTWNLQGQALEQAIISQKPQLEK	1	2		131				59	19	53	1.268	0.747	1.261	0.929	0.464	0.084	Y	0.276	0.149	0.069	0.042	0.038	0.021	Y	1.102	NA	0.805	NA	0.424	NA	Y	0.326	0.067	0.083	0.078	0.051	0.06	Y	1.182	0.95	0.992	0.956	0.848	0.703	Y	0.515	0.557	0.672	0.807	0.582	0.634	Y
IPI00018597	SYK	SYK	IKSYSFPK	1	4		296				31	23	184	1.147	1.051	1.047	0.722	0.626	0.253	Y	0.359	0.243	0.174	0.122	0.08	0.091	Y	1.101	1.063	0.832	0.718	0.453	0.264	Y	0.372	0.135	0.206	0.151	0.114	0.092	Y	1.062	1.15	0.986	1.052	0.906	0.825	Y	0.72	0.553	0.972	0.87	0.765	0.639	Y
IPI00018597	SYK	SYK	QESTVSFNPYEPELAPWAADK	1	10		323		323	UNIPROT	74	24	77	1.207	1.239	0.959	1.008	0.689	0.238	Y	0.388	0.235	0.131	0.065	0.082	0.022	Y	1.041	0.918	0.804	0.498	0.595	0.221	Y	0.403	0.03	0.197	0.148	0.099	0.055	Y	1.148	1.164	0.692	1.026	1.03	0.651	Y	0.877	1.194	0.944	1.127	0.526	0.959	Y
IPI00419789	TANK		GLCRDEEDTSFESLSK	1	10		225				35	24	94	1.167	0.945	0.993	0.833	0.839	0.282	Y	1.077	1.258	0.966	0.77	0.602	0.306	Y	1.012	0.954	0.973	0.834	0.844	0.861	Y	1.109	0.998	1.407	1.155	1.098	0.874	Y	1.074	1.178	1.003	0.82	1.06	0.771	Y	1.289	1.277	1.289	1.598	1.105	1.199	Y
IPI00299166	TANK		SLGSPLLHER	1	4		129				29	21	54	1.23	1.113	1.167	0.978	0.818	0.421	Y	0.727	NA	0.618	NA	0.504	NA	N	1.142	1.337	0.964	1.411	0.962	1.067	Y	0.954	1	0.968	1.289	0.734	0.708	Y	1.132	1.483	0.944	1.008	1.015	0.917	Y	0.903	1.003	0.95	1.011	1.121	1.018	Y
IPI00410485	TAOK3	TAO3	NGPLNESQEDEEDSEHGTSLNR	1	7		324				68	13	14	1.142	0.752	1.407	0.601	0.608	0.886	N	1.03	0.562	1.679	0.549	1.002	0.4	N	1.236	0.605	1.364	0.593	1.413	0.741	N	0.774	1.502	0.76	1.852	1.062	2.305	N	0.719	NA	0.656	NA	0.732	NA	N	1.305	NA	2.472	NA	1.618	NA	N
IPI00293613	TBK1	TBK1	FGSLTMDGGLR	1	3		716				13	23	54	1.201	0.765	1.217	1.153	0.785	0.481	Y	1.074	1.037	0.802	0.714	0.395	0.167	Y	1.431	0.994	1.113	0.886	0.997	0.785	Y	0.78	0.809	1.165	1.047	0.504	0.543	Y	1.024	1.403	0.896	1.754	0.956	0.844	Y	1.353	1.658	1.53	1.37	0.893	1.225	Y
IPI00293613	TBK1	TBK1	LSPGGSLADAWAHQEGTHPK	1	2		527				37	22	27	1	1.065	1.159	0.925	1.246	0.414	Y	0.793	0.673	0.856	0.663	0.513	0.435	Y	0.993	1.139	1.188	0.806	0.619	0.365	Y	0.764	0.74	0.84	0.927	0.711	0.669	Y	0.927	1.328	1.594	0.861	0.882	0.66	Y	1.111	0.571	0.82	0.933	0.825	0.52	Y
IPI00293613	TBK1	TBK1	MQSTSNHLWLLSDILGQGATANVFR	1		3|4|5|12		3|4|5|12			46	22	61	0.735	2.817	0.834	2.003	0.448	1.256	Y	0.653	0.973	1.635	0.898	0.81	0.733	Y	1.195	0.803	1.601	1.232	1.034	0.678	Y	2.648	0.923	3.721	0.929	2.066	0.563	Y	1.362	1	1.344	1.027	0.873	0.551	Y	1.032	1.916	2.234	1.472	0.955	1.513	Y
IPI00006064	TBKBP1		AYGSELYGPGRPLSPR	1	14		504				51	23	130	1.042	0.993	1.037	0.95	0.738	0.4	Y	0.85	0.856	0.717	0.65	0.506	0.274	Y	1.171	1.012	1.195	1.22	0.917	0.908	Y	0.909	0.785	1.006	1.052	0.745	0.76	Y	1.172	1.006	1.078	0.914	0.957	0.678	Y	0.988	0.806	1.221	0.822	0.931	0.879	Y
IPI00006064	TBKBP1		DGSLLEVEKVSLQQR	1	11		105				20	20	26	0.795	0.905	0.773	0.885	0.562	0.253	Y	0.853	NA	0.838	NA	0.43	NA	Y	1.025	0.889	0.94	1.088	0.894	0.81	Y	0.974	1.073	2.081	1.614	1.701	1.22	Y	0.927	1.854	0.91	1.176	0.703	0.439	Y	1.009	1.208	0.899	0.874	0.723	0.612	Y
IPI00006064	TBKBP1		HSPAPQCPSPSPPAR	2	9&11		349&351				19	20	27	0.835	0.872	1.351	1.018	1.177	0.469	Y	0.713	0.613	0.66	0.58	0.42	0.331	Y	1.281	1.331	1.459	1.268	0.448	1.071	Y	0.751	0.588	1.292	1.254	0.832	0.538	N	1.742	4.723	1.286	1.644	1.122	0.701	Y	1.337	1.083	1.064	1.313	0.627	1.248	N
IPI00006064	TBKBP1		QQQGLQDAAFSNLSPPPAPAPPCTDLDLHYLALR	1		11|14|24		181|184|194			39	1	1	1.443	NA	0.511	NA	0.509	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00006064	TBKBP1		RSPASPSCPSPVPQR	1		2|5		385|388			31	13	27	1.237	0.943	1.025	1.315	0.792	0.702	N	0.765	0.267	0.667	0.305	0.396	0.181	N	1.096	0.602	0.732	0.296	0.496	0.302	Y	1.435	0.573	1.171	0.991	0.594	0.646	Y	2.311	NA	1.301	NA	2.629	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00006064	TBKBP1		RSPASPSCPSPVPQR	2	2,5		385&388				39	17	26	2.01	1.508	1.011	1.984	1.243	0	N	1.376	0.694	0.604	0.653	0.4	0.156	N	0.985	1.009	0.877	0.922	0.4	0.624	N	0.899	0.61	1.275	1.161	0.575	0.398	Y	0.904	1.183	1.01	1.027	0.855	0.832	Y	1.104	0.744	1.369	1.211	0.778	1.083	N
IPI00006064	TBKBP1		RSPVPPCPSPQQR	2	2,9		372&379				42	23	58	0.941	0.76	0.912	0.565	0.63	0.54	Y	0.561	1.016	0.892	0.706	0.563	0.553	Y	1.079	0.842	1.121	1.185	0.465	0.402	Y	2.315	1.075	1.574	1.233	0.699	0.414	Y	1.236	4.118	0.999	0.782	0.776	0.535	Y	0.271	3.552	0.919	0.85	0.835	0.821	N
IPI00006064	TBKBP1		RSYSELAEGAAYAGASPPWLQAEAATLPKPR	1		2|3|4|12|16		461|462|463|471|475			53	4	4	0.746	NA	1.106	NA	0.588	NA	N	NA	1.168	NA	1.349	NA	0.283	N	3.086	NA	2.048	NA	0.792	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00006064	TBKBP1		SGGQRHSPLSQR	1		1|7		329|335			24	22	83	1.187	0.929	1.196	0.922	0.814	0.465	Y	0.827	0.905	0.68	0.826	0.45	0.272	Y	1.125	1.313	1.122	1.548	0.772	1.158	Y	0.943	0.808	1.336	1.342	0.809	0.608	Y	1.04	2.121	1.411	1.409	1.008	1.023	Y	1.149	1.085	1.503	1.351	0.955	0.915	Y
IPI00006064	TBKBP1		SPVPPCPSPQQR	1		1|8		372|379			49	17	33	1.077	0.845	0.86	0.92	0.533	0.205	Y	0.918	0.822	0.848	0.774	0.471	0.219	Y	0.834	0.573	1.008	0.941	0.585	0.283	Y	NA	0.701	NA	0.805	NA	0.662	N	0.868	1.229	0.629	1.609	0.493	0.788	N	1.308	NA	1.358	NA	1.649	NA	N
IPI00006064	TBKBP1		SPVPPSCPAPQPRPPPPPPPGER	1		1|6		415|420			63	13	33	1.232	0.97	1.239	1.015	0.67	0.4	Y	0.74	1.622	0.735	1.936	0.384	0.383	Y	1.355	0.725	1.431	0.859	0.477	0.631	Y	1.018	NA	0.992	NA	0.447	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00006064	TBKBP1		SPVPPSCQSPSPQR	1	1		400				57	20	41	0.928	1.911	0.786	1.211	0.699	0.783	Y	0.675	1.311	0.732	0.74	0.34	0.534	Y	0.617	0.554	1.367	0.594	0.683	0.427	Y	0.883	1.838	1.364	2.649	0.44	1.937	N	0.321	2.17	1.193	1.792	0	0.27	N	2.324	NA	2.471	NA	2.985	NA	N
IPI00000878	TEC	TEC	ETTTSPKKYYLAEK	1		2|3|4|5		305|306|307|308			17	12	15	NA	1.16	NA	0.514	NA	0.668	N	NA	NA	NA	NA	NA	NA	N	1.11	NA	0.416	NA	0.165	NA	Y	0.43	0.553	0.26	0.092	0.104	0.032	Y	1.623	1.22	0.946	1.048	1.205	0.837	Y	0.792	NA	0.367	NA	0.732	NA	Y
IPI00000878	TEC	TEC	GQEYLILEK	1	4		206		206	PhosphoELM	43	3	3	NA	1.144	NA	0.499	NA	0.154	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	1.149	NA	0.899	NA	1.08	N	0.752	NA	1.233	NA	0.376	NA	N
IPI00000878	TEC	TEC	YVLDDQYTSSSGAK	1	7		519		519	UNIPROT	92	24	180	1.095	0.946	0.952	0.649	0.398	0.09	Y	0.363	0.222	0.128	0.061	0.038	0.025	Y	0.845	0.571	0.234	0.162	0.042	0.074	Y	0.142	0.056	0.094	0.078	0.057	0.043	Y	1.313	1.331	1.236	1.025	0.973	0.795	Y	0.755	0.819	0.894	0.934	0.725	0.498	Y
IPI00102677	TESK2	TESK2	SQSDIFSR	1		1|3		367|369			32	23	61	1.136	1.171	1.269	1.173	1.039	1.043	Y	0.911	0.906	0.768	0.931	0.67	0.675	Y	1.044	0.95	0.642	0.525	0.215	0.122	Y	0.863	0.744	0.647	0.3	0.228	0.083	Y	NA	NA	NA	NA	NA	NA	N	0.989	0.887	1.087	1.012	0.802	0.764	Y
IPI00166756	TESK2	TESK2	WCSLPGSPEFLHQEACPFVGR	1		3|7		427|431			80	3	3	NA	NA	NA	NA	NA	NA	N	0.518	0.907	0.47	0	0.572	0.184	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00166756	TESK2	TESK2	WCSLPGSPEFLHQEACPFVGR	2	3&7		427&431				47	2	2	NA	NA	NA	NA	NA	NA	N	NA	0.691	NA	0.552	NA	0.604	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00102677	TESK2	TESK2	WRSLPGSPEFLHQEACPFVGR	2	3&7		456&460				32	1	1	NA	NA	NA	NA	NA	NA	N	NA	0.556	NA	0.45	NA	0.128	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00145805	TNIK	ZC2/TNIK	QNSDPTSENPPLPTR	1	3		640				56	18	27	1.655	0.735	0.344	0.483	0.162	0.013	N	0.809	0.619	0.226	0.518	0.111	0.151	N	0.952	0.911	1.004	1.038	0.405	1.125	N	3.205	0.616	2.205	0.629	0.775	0.232	N	NA	NA	NA	NA	NA	NA	N	0.762	0.562	1.115	1.022	0.918	0.355	Y
IPI00145805	TNIK	ZC2/TNIK	SEGSPVLPHEPAK	1	4		769		769	UNIPROT	29	18	26	0.968	0.939	1.02	0.687	0.478	0.289	Y	0.594	0.574	0.597	0.419	0.225	0.327	Y	0.983	1.029	1.001	0.95	0.709	0.453	Y	0.895	0.75	0.813	0.725	0.431	0.626	Y	NA	NA	NA	NA	NA	NA	N	0.914	0.622	1.423	0.967	1.106	0.648	Y
IPI00145805	TNIK	ZC2/TNIK	SESFSISGVQPARTPPMLRPVDPQIPHLVAVK	1		1|3|5|7		568|570|572|574			31	12	14	1.118	0.818	0.753	0.426	0.501	0.329	N	0.581	NA	0.423	NA	0.189	NA	N	1.01	1.415	1.116	0.892	0.662	0.707	Y	1.164	NA	1.482	NA	1.002	NA	N	NA	NA	NA	NA	NA	NA	N	0.736	0.945	1.436	0.893	0.651	0.766	Y
IPI00145805	TNIK	ZC2/TNIK	TTSISPALAR	1	5		680		680	UNIPROT	24	15	22	1.048	0.9	0.897	0.891	0.624	0.393	Y	0.698	0.551	0.484	0.387	0.204	0.181	Y	0.71	0.894	0.943	0.756	0.789	0.479	N	1.175	0.784	1.356	0.779	0.527	0.537	Y	NA	NA	NA	NA	NA	NA	N	0.89	1.129	1.147	0.92	0.878	0.886	Y
IPI00022633	TNK1	TNK1	GISRSLESVLSLGPRPTGGGSSPPEIR	2	3&5		500&502		502	PhosphoELM	35	23	89	1.549	1.087	1.614	1.218	1.013	0.873	Y	0.769	0.603	0.736	0.729	0.481	0.602	Y	1.334	1.452	1.125	1.323	1.019	1.333	Y	1.176	0.759	1.47	1.178	1.488	0.442	Y	NA	NA	NA	NA	NA	NA	N	1.079	1.328	1.313	1.322	0.989	1.508	Y
IPI00022633	TNK1	TNK1	SLESVLSLGPR	1	1		502		502	PhosphoELM	72	22	48	1.064	1.143	0.86	1.002	0.715	0.48	Y	0.902	0.848	0.999	0.716	0.73	0.687	Y	0.804	0.522	1.246	0.56	0.788	0.544	Y	0.712	0.723	1.369	1.363	1.098	0.72	Y	NA	NA	NA	NA	NA	NA	N	1.259	1.064	2.019	1.582	0.576	0.791	Y
IPI00022633	TNK1	TNK1	YVLARP	1	1		661				15	20	31	1.076	1.295	0.83	1.25	0.53	0.655	Y	1.326	0.947	1.023	0.924	0.543	0.447	Y	1.475	0.816	1.53	1.591	0.87	0.984	Y	1.025	1.122	1.456	1.283	0.869	0.531	Y	NA	NA	NA	NA	NA	NA	N	1.819	1.285	1.989	1.449	1.158	1.219	Y
IPI00442025	TNK2	ACK	ALPQNDDHYVMQEHR	1	9		347				31	3	5	1.796	NA	1.153	NA	0.556	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.948	NA	1.129	NA	0.984	NA	N
IPI00442025	TNK2	ACK	KPTYDPVSEDQDPLSSDFKR	1	4		596				59	16	19	1.106	0.861	0.65	0.388	0.445	0.153	Y	0.936	NA	0.422	NA	0.203	NA	N	1.04	NA	0.674	NA	0.282	NA	N	0.697	NA	0.273	NA	0.231	NA	N	NA	NA	NA	NA	NA	NA	N	1.455	1.095	1.292	1.052	1.092	1.061	Y
IPI00442025	TNK2	ACK	KTSPAPGGPAGEGPLQSLTCLIGEKDLR	1	3		165				44	3	3	1.547	0.655	1.287	0.802	0.926	0.102	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.461	NA	0.989	NA	1.602	NA	N
IPI00442025	TNK2	ACK	YATPQVIQAPGPR	1	1		905		905	PhosphoELM	76	11	16	0.774	0.922	0.715	0.322	0.341	0.163	Y	0.247	NA	0.08	NA	0.059	NA	Y	0.966	NA	0.398	NA	0.154	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.394	0.532	0.489	0.511	0.373	0.332	N
IPI00292635	TRAF2		AAASVTPPGSLELLQPGFSK	2		4|6|10		5|7|11			57	3	5	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	2.655	NA	7.714	NA	1.992	N	NA	0.671	NA	1.278	NA	0.43	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00387144	TUBA6		EDAANNYAR	1	7		103				45	15	22	0.695	0.374	0.511	0.188	0.367	0.109	N	0.264	0.301	0.239	0.2	0.179	0.059	N	1.011	0.888	0.424	0.391	0.377	0.261	N	0.138	NA	0.326	NA	0.112	NA	N	NA	NA	NA	NA	NA	NA	N	0.755	0.632	0.714	0.267	0.334	0.163	Y
IPI00007752	TUBB4		GHYTEGAELVDSVLDVVRK	1		3|4		106|107			40	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.461	NA	0.859	NA	0.845	NA	N
IPI00395887	TXNDC		KVEEEQEADEEDVSEEEAESK	1	14		247		247	UNIPROT	40	1	1	1.981	NA	1.299	NA	1.574	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00022353	TYK2	TYK2	LLAQAEGEPCYIR	1	11		292		292	PhosphoELM	65	24	101	0.964	1.027	0.978	1.076	0.955	0.667	Y	0.725	0.914	0.855	0.865	0.672	0.634	Y	1.073	0.682	0.957	0.917	0.61	0.49	Y	0.636	0.825	1.086	0.879	0.629	0.405	Y	NA	NA	NA	NA	NA	NA	N	1.214	1.073	1.113	1.194	0.814	0.684	Y
IPI00022353	TYK2	TYK2	LTADSSHYLCHEVAPPR	1	8		433				58	24	58	1.155	1.252	0.894	1.05	0.627	0.939	Y	0.906	0.873	0.635	0.799	0.661	0.459	Y	1.244	1.135	0.941	1.081	0.796	0.747	Y	0.93	0.725	1.087	0.799	0.604	0.375	Y	NA	NA	NA	NA	NA	NA	N	1.007	1.101	1.09	1.097	0.835	0.639	Y
IPI00295549	ULK3	ULK3	KDQEGDSAAALSLYCK	1		12|14		348|350			37	1	1	NA	NA	NA	NA	NA	NA	N	0.351	NA	1.336	NA	0.551	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
IPI00025830	WEE1	Wee1	CGGPGDASPR	1	8		150				16	19	25	1.137	1.11	1.204	0.932	0.632	0.309	Y	0.849	1.059	0.631	0.654	0.403	0.396	Y	0.658	0.968	0.959	0.841	0.536	0.335	Y	1.632	0.729	1.417	0.773	0.709	0.427	Y	NA	NA	NA	NA	NA	NA	N	NA	0.771	NA	0.756	NA	0.838	N
IPI00025830	WEE1	Wee1	RSPRPDHPGTPPHK	1	2		165		165	UNIPROT	34	23	178	1.216	1.048	1.049	0.886	0.624	0.373	Y	0.845	0.681	0.556	0.587	0.349	0.28	Y	1.26	0.783	1.027	0.791	0.57	0.307	Y	0.872	0.637	0.966	0.791	0.516	0.347	Y	NA	NA	NA	NA	NA	NA	N	1.073	0.885	1.275	1.065	0.777	0.619	Y
IPI00025830	WEE1	Wee1	SPAAPYFLGSSFSPVR	1	13		139		139	UNIPROT	56	22	63	1.905	1.502	1.318	1.008	0.558	0.961	Y	0.623	1.047	0.516	0.885	0.191	0.657	Y	0.773	0.992	0.604	1.342	0.695	0.307	Y	0.75	1.226	0.701	1.263	0.487	0.858	Y	NA	NA	NA	NA	NA	NA	N	0.799	NA	1.061	NA	0.676	NA	N
IPI00025830	WEE1	Wee1	TYWNDSCGEDMEASDYELEDETRPAKR	1		6|14		262|270			76	5	7	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	3.983	NA	2.292	NA	0.879	NA	N	1.253	0.981	1.246	1.329	0.846	0.733	N	NA	NA	NA	NA	NA	NA	N	1.901	NA	1.592	NA	0.767	NA	N
IPI00013981	YES1	YES	KDPDERPTFEYIQSFLEDYFTATEPQYQPGENL	1	27		547		547	UNIPROT	81	15	20	0.716	1.108	1.024	1.271	0.335	0.255	N	0.909	NA	0.654	NA	0.31	NA	N	1.275	0.492	0.753	0.07	0.167	0.081	Y	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.654	1.106	1.256	0.504	1.259	0.766	N
IPI00013981	YES1	YES	YRPENTPEPVSTSVSHYGAEPTTVSPCPSSSAK	1	17		42				60	21	44	1.189	0.265	1.022	0.216	0.508	0.056	N	0.161	0.197	0.071	0.188	0.04	0.139	Y	0.687	0.224	0.3	0.145	0.174	0.089	Y	0.003	0.191	0.156	0.356	0.064	0.077	N	NA	NA	NA	NA	NA	NA	N	1.806	0.866	1.179	1.592	2.77	1.156	Y
IPI00013981	YES1	YES	YRPENTPEPVSTSVSHYGAEPTTVSPCPSSSAK	2	17		42				48	4	4	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	1.185	NA	0.607	NA	1.358	NA	N
IPI00329638	ZAK	ZAK	SQSNPILGSPFFSHFDGQDSYAAAVR	1		1|3|9		591|593|599			77	22	31	1.116	1.076	1.31	0.781	0.357	0.155	N	0.755	0.862	0.964	0.616	0.216	0.249	Y	0.972	0.527	0.735	0.979	0.438	0.114	N	1.563	0.704	1.136	0.754	0.682	0.127	Y	NA	NA	NA	NA	NA	NA	N	2.15	1.124	2.055	1.188	1.396	0.826	N
IPI00329638	ZAK	ZAK	SSSPTQYGLTK	1		1|2|3|5		635|636|637|63	637	UNIPROT	38	21	40	1.236	1.103	1.237	1.017	0.601	0.278	Y	1.238	1.102	0.924	0.849	0.419	0.231	Y	1.159	0.854	1.129	0.688	0.531	0.249	Y	0.999	1.237	1.142	0.854	0.395	0.216	Y	NA	NA	NA	NA	NA	NA	N	1.007	1.091	1.09	1.28	1.008	0.978	Y
IPI00029400	ZNF265		ENVEYIEREESDGEYDEFGR	1		5|11|15		114|120|124	120	UNIPROT	32	1	1	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.643	NA	0.27	NA	0.036	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N
Additional phosphorylation site with >90% confidence																																																							
IPI00026262	RASGAP1		EIYNTIR	1	3		460		460	PhosphoELM	21	5	7	NA	1.561	NA	1.613	NA	0.573	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	NA	NA	NA	NA	NA	NA	N	0.81	0.639	0.949	0.986	0.67	0.201	Y

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Dose-dependent reduction of regulatory phosphorylation sites in drug-treated cells
(data for **Figure 5b**)

Protein	Drug added to lysate or cells in culture	Bosu-tinib (B)	Dasa-tinib (D)	Ima-tinib (I)	Sequence	P-Site	[drug] inducing half maximal reduction of P-peptide (uM)	[drug] inducing half maximal binding competition of protein (uM)	References (PMID) and comment
Sites on tyrosine kinases									
CSK	lysate	B			VMEGTVAAQDEFYR	Y184	0.32	0.71	PMID 9148770: Site is located in the probably flexible 'hinge region' between the SH2 and TK domains. Main site in HeLa cells. Induced by vanadate treatment. Likely not due to autophosphorylation. Does not affect kinase activity in vitro.
	cells	B			VMEGTVAAQDEFYR		<0.01	0.12	
	lysate		D		VMEGTVAAQDEFYR		0.03	0.10	
	cells		D		VMEGTVAAQDEFYR		<0.01	0.04	
	lysate			I	VMEGTVAAQDEFYR		0.07	>10	
	cells			I	VMEGTVAAQDEFYR		>5	>5	
JAK2	lysate	B			EVGDYGQLHETEVLLK	Y570	0.96	>10*	PMID 16464493: Activating site, found in AML
	cells	B			EVGDYGQLHETEVLLK		0.04	N.D.	
FAK/PTK2	lysate	B			YMEDSTYYK	Y576/577	0.40	1.10	PMID:14656986: Src phosphorylation sites , lead to activation of kinase
	cells	B			YMEDSTYYK		0.06	0.57	
	lysate		D		YMEDSTYYK		0.13	>10	
	cells		D		YMEDSTYYK		0.07	>5	
	lysate	B			YMEDSTYYKASK	Y576 and Y577	0.20	1.10	PMID:14656986: Src phosphorylation sites , lead to activation of kinase
	cells	B			YMEDSTYYKASK		<0.01	0.57	
	lysate		D		YMEDSTYYKASK		0.03	>10	
	cells		D		YMEDSTYYKASK		<0.01	>5	
FER	lysate	B			EPPPVVNYEEDAR	Y402	0.74	1.90	novel
	cells	B			EPPPVVNYEEDAR		0.12	0.39	
	lysate	B			QEDGGVYSSSGLK	Y714	1.00	1.90	PMID: 10998246
	cells	B			QEDGGVYSSSGLK		0.02	0.39	
PYK2	lysate	B			YIEDED**Y**YKASVTR	Y579	2.00	1.30	PMID 15070849: Leads to activation of kinase
	cells	B			YIEDED**Y**YKASVTR		<0.01	0.98	
TEC	lysate	B			YVLDDQ**Y**TSSSGAK	Y519	0.54	0.57	unpublished site
	cells	B			YVLDDQ**Y**TSSSGAK		<0.01	0.01	
	lysate		D		YVLDDQ**Y**TSSSGAK		0.03	0.06	
	cells		D		YVLDDQ**Y**TSSSGAK		<0.01	0.01	
Sites on serine / threonine kinases									
BRAF	lysate	B			RD**S**SDDWEIPDGQITVGQR	S446/S447	>10	N.D.	PMID 15710605: constitutive phosphorylation of Ser445 primes B-Raf for activation, oncogenic mutations within this region to block autoinhibition
	cells	B			RD**S**SDDWEIPDGQITVGQR		0.03	>5	
MAPK1	lysate	B			VADPDHDHTGFLTEYVATR	T184 and Y186	>10	>10	PMID 9677429: MEK site in T-loop, regulating ERK2 activity.
	cells	B			VADPDHDHTGFLTEYVATR		0.01	>5	
	lysate		D		VADPDHDHTGFLTEYVATR		>10	>10	
	cells		D		VADPDHDHTGFLTEYVATR		<0.01	>5	
	lysate			I	VADPDHDHTGFLTEYVATR		>10	>10	
	cells			I	VADPDHDHTGFLTEYVATR		0.33	>5	
RPS6KA3 (RSK2)	lysate	B			DSPGIPPSANAHQLFR	S369	0..2	2.39	PMID 15345747: Phosphorylation of the linker region by ERK1/2 activates RSKs
	cells	B			DSPGIPPSANAHQLFR		0.04	0.12	PMID 15657420, 10980595: Activating MAP kinase site. p90 ribosomal S6 kinase is recruited to the nucleus upon activation.
	lysate		D		DSPGIPPSANAHQLFR		0.20	>10	
	cells		D		DSPGIPPSANAHQLFR		<0.01	>5	
	lysate			I	DSPGIPPSANAHQLFR		>10	>10	
	cells			I	DSPGIPPSANAHQLFR		0.36	>5	
RPS6KA1 (RSK3)	lysate	B			GFSFVATGLMEDDGKPR	S389	>10	>10	
	cells	B			GFSFVATGLMEDDGKPR		0.03	>5	PMID 15345747: Site found in mouse brain. Possible autophosphorylation
	lysate		D		GFSFVATGLMEDDGKPR		>10	>10	PMID 15345747: Phosphorylation of the linker region by ERK1/2 activates RSKs
	cells		D		GFSFVATGLMEDDGKPR		<0.01	>5	PMID 15657420, 10980595: Activating MAP kinase site. p90 ribosomal S6 kinase is recruited to the nucleus upon activation.
	lysate			I	GFSFVATGLMEDDGKPR		>10	>10	
	cells			I	GFSFVATGLMEDDGKPR		0.23	>5	
	lysate	B			TPKDSPGIPPSAGAHQLFR	S372	>10	>10	
	cells	B			TPKDSPGIPPSAGAHQLFR		0.02	>5	
	lysate		D		TPKDSPGIPPSAGAHQLFR		>10	>10	
	cells		D		TPKDSPGIPPSAGAHQLFR		<0.01	>5	
	lysate			I	TPKDSPGIPPSAGAHQLFR		>10	>10	
	cells			I	TPKDSPGIPPSAGAHQLFR		0.30	>5	
MAP3K4	lysate		D		QTSRTDCPADR	T213/S214/ T216	0.25	1.90	
	cells		D		QTSRTDCPADR		<0.01	0.83	
Sites on adaptor proteins									
DOK1	lysate			I	ADSHEGEVAEGK	S269	N.D.	N.D.	Downstream of a S/T kinase regulated by one of the imatinib targets
	cells			I	ADSHEGEVAEGK		62% decrease at 1 μM	>10	PMID 16094384
	lysate			I	KKPLYWDLYEHAQQQLLK	Y337/Y341	>10	N.D.	Likely substrate of Abl
	cells			I	KKPLYWDLYEHAQQQLLK		64% decrease at 1 μM	>10	PMID 16497976: Y337/Y341 are likely Abl sites.
	lysate	B			SHNSALYSQVQK	Y449	0.60	N.D.	Likely substrate of Abl
	cells	B			SHNSALYSQVQK		<0.01	53% competed at 0.33 mM	PMID 16497976, 16094384, 15659558, 15592455, 12522270: Y449 is a likely Abl site
	lysate		D		SHNSALYSQVQK		0.10	N.D.	
	cells		D		SHNSALYSQVQK		<0.01	N.D.	
	lysate			I	SHNSALYSQVQK		>10	N.D.	
	cells			I	SHNSALYSQVQK		50% decrease at 1 μM	>10	
Sites on protein phosphatases									
BDP1/PTPN18	lysate	B			ENCAPLYDDALFLR	Y314	0.90	N.D.	PMID 15951569: EGF-induced site of unknown function on a non-receptor protein tyrosine phosphatase
	cells	B			ENCAPLYDDALFLR		0.01	0.05	
	lysate	B			SAEEAPLYSKVTPR	Y389	1.20	N.D.	
	cells	B			SAEEAPLYSKVTPR		<0.01	0.05	
	lysate		D		SAEEAPLYSKVTPR		0.16	N.D.	
	cells		D		SAEEAPLYSKVTPR		<0.01	N.D.	

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Layout of quantitative Kinobeads experiments. L1/L2/L3 refer to **l**ysate competition experiments, C1/C2/C3 refer to experiments where compounds were applied to living **c**ells in culture.
The IMAC column indicates whether or not phospho-peptide enrichment was performed.

			iTRAQ label			
Compound	**Experiment**	**IMAC**	**114**	**115**	**116**	**117**
			Compound concentration [μM]			
Imatinib	L1	YES	1	0.1	0.01	0
Imatinib	L2	YES	10	0.3	0.03	0
Dasatinib	L1	NO	0.01	0.001	0.00001	0
Dasatinib	L2	YES	1	0.1	0.01	0
Dasatinib	L3	YES	10	0.3	0.03	0
Bosutinib	L1	NO	0.01	0.001	0.00001	0
Bosutinib	L2	YES	1	0.1	0.01	0
Bosutinib	L3	YES	10	0.3	0.03	0
Imatinib	C1	YES	1	0.1	0.01	0
Imatinib	C2	YES	5	0.3	0.03	0
Dasatinib	C1	NO	0.01	0.001	0.00001	0
Dasatinib	C2	YES	1	0.1	0.01	0
Dasatinib	C3	YES	5	0.3	0.03	0
Bosutinib	C1	NO	0.01	0.001	0.00001	0
Bosutinib	C2	YES	1	0.1	0.01	0
Bosutinib	C3	YES	5	0.3	0.03	0

Bantscheff *et al* ., **Supplementary Table 9** online

Overview of individual experiments performed in this study.

The experiment ID column may be used to reference spectra to experiments in **Supplementary Tables 10** and **11**

EXPERIMENT_ID	Cell Line	Affinity matrix	'Free' compound profiled	application of 'free' compound to
1	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
2	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
3	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
4	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
5	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
6	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
7	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
8	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
9	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
10	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
11	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
12	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
13	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
14	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
15	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
16	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
17	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
18	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
19	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
20	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
21	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
22	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
23	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
24	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
25	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
26	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
27	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
28	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
29	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
30	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
31	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
32	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
33	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
34	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
35	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
36	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
37	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
38	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
39	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
40	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
41	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
42	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
43	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
44	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
45	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
46	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
47	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
48	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
49	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
50	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
51	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
52	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
53	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
54	HeLa	Bis-indolyl maleimide III	none (pulldown only)	NA
55	K562	Bis-indolyl maleimide III	none (pulldown only)	NA
56	K562	Bis-indolyl maleimide III	none (pulldown only)	NA
57	HeLa	CZC8004	none (pulldown only)	NA

EXPERIMENT_ID	Cell Line	Affinity matrix	'Free' compound profiled	application of 'free' compound to
58	HeLa	CZC8004	none (pulldown only)	NA
59	HeLa	CZC8004	none (pulldown only)	NA
60	HeLa	CZC8004	none (pulldown only)	NA
61	HeLa	CZC8004	none (pulldown only)	NA
62	HeLa	CZC8004	none (pulldown only)	NA
63	K562	CZC8004	none (pulldown only)	NA
64	HeLa	Gefitinib analogue	none (pulldown only)	NA
65	K562	Gefitinib analogue	none (pulldown only)	NA
66	K562	Gefitinib analogue	none (pulldown only)	NA
67	HeLa	Imatinib analogue	none (pulldown only)	NA
68	HeLa	Imatinib analogue	none (pulldown only)	NA
69	HeLa	Imatinib analogue	none (pulldown only)	NA
70	K562	Imatinib analogue	none (pulldown only)	NA
71	K562	Imatinib analogue	none (pulldown only)	NA
72	K562	Imatinib analogue	none (pulldown only)	NA
73	K562	Imatinib analogue	none (pulldown only)	NA
74	HeLa	Lapatinib analogue	none (pulldown only)	NA
75	HeLa	Lapatinib analogue	none (pulldown only)	NA
76	HeLa	Lapatinib analogue	none (pulldown only)	NA
77	HeLa	PD173955 analogue	none (pulldown only)	NA
78	K562	PD173955 analogue	none (pulldown only)	NA
79	K562	PD173955 analogue	none (pulldown only)	NA
80	K562	PD173955 analogue	none (pulldown only)	NA
81	HeLa	Pelitinib analogue	none (pulldown only)	NA
82	HeLa	Pelitinib analogue	none (pulldown only)	NA
83	HeLa	Purvalanol B	none (pulldown only)	NA
84	HeLa	Purvalanol B	none (pulldown only)	NA
85	HeLa	Purvalanol B	none (pulldown only)	NA
86	HeLa	Purvalanol B	none (pulldown only)	NA
87	HeLa	Purvalanol B	none (pulldown only)	NA
88	HeLa	Purvalanol B	none (pulldown only)	NA
89	HeLa	Purvalanol B	none (pulldown only)	NA
90	HeLa	Purvalanol B	none (pulldown only)	NA
91	HeLa	Purvalanol B	none (pulldown only)	NA
92	HeLa	Purvalanol B	none (pulldown only)	NA
93	HeLa	Purvalanol B	none (pulldown only)	NA
94	HeLa	Purvalanol B	none (pulldown only)	NA
95	HeLa	Purvalanol B	none (pulldown only)	NA
96	HeLa	Purvalanol B	none (pulldown only)	NA
97	HeLa	Purvalanol B	none (pulldown only)	NA
98	HeLa	Purvalanol B	none (pulldown only)	NA
99	HeLa	Purvalanol B	none (pulldown only)	NA
100	HeLa	Purvalanol B	none (pulldown only)	NA
101	HeLa	Purvalanol B	none (pulldown only)	NA
102	HeLa	Purvalanol B	none (pulldown only)	NA
103	HeLa	Purvalanol B	none (pulldown only)	NA
104	HeLa	Purvalanol B	none (pulldown only)	NA
105	HeLa	Purvalanol B	none (pulldown only)	NA
106	HeLa	Purvalanol B	none (pulldown only)	NA
107	HeLa	Purvalanol B	none (pulldown only)	NA
108	HeLa	Purvalanol B	none (pulldown only)	NA
109	HeLa	Purvalanol B	none (pulldown only)	NA
110	HeLa	Purvalanol B	none (pulldown only)	NA
111	HeLa	Purvalanol B	none (pulldown only)	NA
112	HeLa	Purvalanol B	none (pulldown only)	NA
113	HeLa	Purvalanol B	none (pulldown only)	NA
114	HeLa	Purvalanol B	none (pulldown only)	NA
115	HeLa	Purvalanol B	none (pulldown only)	NA
116	HeLa	Purvalanol B	none (pulldown only)	NA
117	HeLa	Purvalanol B	none (pulldown only)	NA
118	HeLa	Purvalanol B	none (pulldown only)	NA
119	HeLa	Purvalanol B	none (pulldown only)	NA
120	HeLa	Purvalanol B	none (pulldown only)	NA
121	HeLa	Purvalanol B	none (pulldown only)	NA

EXPERIMENT_ID	Cell Line	Affinity matrix	'Free' compound profiled	application of 'free' compound to
122	HeLa	Purvalanol B	none (pulldown only)	NA
123	HeLa	Purvalanol B	none (pulldown only)	NA
124	HeLa	Purvalanol B	none (pulldown only)	NA
125	HeLa	Purvalanol B	none (pulldown only)	NA
126	HeLa	Purvalanol B	none (pulldown only)	NA
127	HeLa	Purvalanol B	none (pulldown only)	NA
128	HeLa	Purvalanol B	none (pulldown only)	NA
129	HeLa	Purvalanol B	none (pulldown only)	NA
130	HeLa	Purvalanol B	none (pulldown only)	NA
131	HeLa	Purvalanol B	none (pulldown only)	NA
132	K562	Purvalanol B	none (pulldown only)	NA
133	HeLa	Ro3201195 analogue	none (pulldown only)	NA
134	HeLa	Ro3201195 analogue	none (pulldown only)	NA
135	K562	Ro3201195 analogue	none (pulldown only)	NA
136	HeLa	Staurosporine analogue	none (pulldown only)	NA
137	HeLa	Staurosporine analogue	none (pulldown only)	NA
138	HeLa	Staurosporine analogue	none (pulldown only)	NA
139	HeLa	Staurosporine analogue	none (pulldown only)	NA
140	HeLa	Vandetanib analogue	none (pulldown only)	NA
141	HeLa	Vandetanib analogue	none (pulldown only)	NA
142	Ramos	Kinobeads	none (pulldown only)	NA
143	Ramos	Kinobeads	none (pulldown only)	NA
144	Ramos	Kinobeads	none (pulldown only)	NA
145	Ramos	Kinobeads	none (pulldown only)	NA
146	HeLa	Kinobeads	none (pulldown only)	NA
147	Jurkat	Kinobeads	none (pulldown only)	NA
148	K562	Kinobeads	none (pulldown only)	NA
149	Placenta	Kinobeads	none (pulldown only)	NA
150	K562	Kinobeads	Imatinib	living cells
151	K562	Kinobeads	Imatinib	living cells
152	K562	Kinobeads	Imatinib	living cells
153	K562	Kinobeads	Imatinib	living cells
154	K562	Kinobeads	Dasatinib	living cells
155	K562	Kinobeads	Dasatinib	living cells
156	K562	Kinobeads	Dasatinib	living cells
157	K562	Kinobeads	Dasatinib	living cells
158	K562	Kinobeads	Dasatinib	living cells
159	K562	Kinobeads	Dasatinib	living cells
160	K562	Kinobeads	Bosutinib	living cells
161	K562	Kinobeads	Bosutinib	living cells
162	K562	Kinobeads	Bosutinib	living cells
163	K562	Kinobeads	Bosutinib	living cells
164	K562	Kinobeads	Bosutinib	living cells
165	K562	Kinobeads	Bosutinib	living cells
166	K562	Kinobeads	Imatinib	lysate
167	K562	Kinobeads	Imatinib	lysate
168	K562	Kinobeads	Imatinib	lysate
169	K562	Kinobeads	Imatinib	lysate
170	K562	Kinobeads	Dasatinib	lysate
171	K562	Kinobeads	Dasatinib	lysate
172	K562	Kinobeads	Dasatinib	lysate
173	K562	Kinobeads	Dasatinib	lysate
174	K562	Kinobeads	Dasatinib	lysate
175	K562	Kinobeads	Dasatinib	lysate
176	K562	Kinobeads	Bosutinib	lysate
177	K562	Kinobeads	Bosutinib	lysate
178	K562	Kinobeads	Bosutinib	lysate
179	K562	Kinobeads	Bosutinib	lysate
180	K562	Kinobeads	Bosutinib	lysate
181	K562	Kinobeads	Bosutinib	lysate

Supplementary Methods

A quantitative chemical proteomics approach reveals novel modes of action of clinical ABL kinase inhibitors

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Preparation of Kinobeads

Broad spectrum capturing ligands were immobilized on Sepharose beads through covalent linkage using amino and carboxyl groups. Compounds that do not contain a suitable functional group were modified in order to introduce such a group (see **Supplementary Table 1**). Details of ligand syntheses are reported elsewhere[1]. For the immobilization via amino groups, 1 mL of NHS-activated Sepharose (Amersham) was equilibrated in DMSO and the ligand (0.1 µmol/mL of beads in DMSO) and 15 µL of triethylamine were added and the reaction allowed to proceed on an end-over-end shaker for 16 hours. The coupling reaction was monitored by HPLC. Free NHS-groups were blocked with aminoethanol and washed beads were stored in isopropanol at -20°C. For the immobilization of compounds via carboxyl groups, NHS-activated Sepharose 4 equilibrated in DMSO is added to a 4:4:1 mixture of aminoethanol, triethtylamine and ethylenediamine and the reaction was allowed to proceed for 16 hours on a shaker. After the reaction, the beads were washed with DMSO, and equilibrated in DMF. 100 µL of diisopropylethylamine and the ligand (0.1 µmol/mL of beads) were added, followed by 100 µL of a 100 mM solution of bromo-tris-pyrrolidino-phosphonium

hexafluorophosphate in DMF. After incubation over night on a shaker, the beads were blocked by 100 µL of 100 mM NHS-acetate as blocking reagent for 16 hours. Coupling was monitored by HPLC. Beads were washed in DMSO and stored in isopropanol and stored at -20°C.

Kinobeads competition binding assay

Cells were harvested by centrifugation and homogenized in lysis buffer (50 mM Tris/HCl pH 7.5, 5% glycerol, 1.5 mM $MgCl_2$, 150 mM NaCl, 20 mM NaF, 1 mM Na_3VO_4, 1 mM DTT, 5 µM Calyculin A, 0.8 % Igepal-CA630, and a protease inhibitor cocktail) using a Dounce homogenizer on ice. Lysates were cleared by centrifugation at 50,000 g for 30 min. at 4°C, and adjusted to 5 mg/mL total protein concentration using the Bradford assay. Compounds were dissolved in DMSO and added to 1 mL lysate samples, and 35 µL of a kinobeads suspension was added and agitated for 30 minutes at 4°C. This results in sufficient material for at least 10 LC-MS/MS samples for protein identification analysis, and in addition duplicate IMAC phospho-peptide samples (see below). For profiling of signaling pathways, compounds were added to 10^8 K562 cells per data point, grown at 10^6 cells/mL in RPMI/10% FCS.

After the incubation step, the beads were collected by centrifugation in a benchtop centrifuge for 1 minute at 800 rpm at 4^oC, and washed once with 1 mL of ice-cold buffer (50 mM Tris/HCl pH 7.5, 5% (v/v) glycerol, 1.5 mM $MgCl_2$, 150 mM NaCl, 20 mM NaF, 1 mM DTT, 0.4 % Igepal-CA630). Beads were eluted with NuPAGE LDS buffer (Invitrogen), eluates were reduced, alkylated, separated on 4–12% NuPAGE gels (Invitrogen), and stained with colloidal Coomassie blue.

iTRAQ labeling of peptides

For quantitative experiments, reduced and carbamidomethylated kinobead eluates were concentrated on 4–12% NuPAGE gels (Invitrogen) by running sample approximately 1 cm into the gel. After staining with colloidal Coomassie, gels were cut into three slices

and subjected to in-gel digestion as described[2]. Subsequently, peptide extracts were labeled with iTRAQ™ reagents (Applied Biosystems) by adding 10 μL reagent in ethanol and incubation for 1 hr at 20°C in 60% ethanol, 40 mM triethylammoniumbicarbonate (TEAB), pH 8.5[3]. After quenching of the reaction with glycin all labeled extracts of one gel lane were combined and mixed with differently labeled extracts from other competition experiments according to **Supplementary Table 8**.

Enrichment of phospho-peptides by immobilized metal affinity chromatography

As indicated in **Supplementary Table 8**, selected samples were subjected to enrichment of phosphorylated peptides by immobilized metal affinity chromatography (IMAC; PhosSelect, Sigma) prior to mass spectrometric analysis as described[4]. LC-MS/MS for IMAC samples were performed twice.

LC-MS/MS analysis

IMAC-binding and non-binding fractions were collected separately, acidified and dried in vacuo. Samples were then re-suspended in 0.1 % formic acid in water (non-binding fraction) or 4 mM EDTA, 10 mM TEAB, pH 8.5 in water (phospho-peptide enriched fraction) and aliquots of the sample were injected into a nano-LC system (Eksigent 1D+) which was directly coupled to a LTQ-Orbitrap mass spectrometer (Thermo-Finnigan). Peptides were separated on a custom made 20 cm x 75uM (ID) reversed phase column (Reprosil). Gradient elution was performed from 2% acetonitrile to 40% acetonitrile in 0.1% formic acid within 4 hrs. The LTQ-Orbitrap was operated under the control of XCalibur Developers kit 2.0. Intact peptides were detected in the Orbitrap at 60.000 resolution. Internal calibration was performed using the ion signal from $(Si(CH_3)_2O)_6H^+$ at m/z 445.120025[5]. Data dependent tandem mass spectra were generated for up to six peptide precursors in the linear ion trap using pulsed-Q dissociation (PQD) to enable detection of iTRAQ reporter ions[6]. For PQD, the Q-value was set to 0.55, activation time was set to 0.32 ms and collision energy of 26 was used. Up to 1E5 ions were accumulated in the ion trap within a maximum ion accumulation time of 1 sec and two spectra were

averaged per peptide precursor. Further details on PQD/iTRAQ procedures will be published elsewhere (Bantscheff *et al*, manuscript in preparation).

Peptide and protein identification

Mascot™ 2.0 software (Matrix Science) was used for protein identification using 5 ppm mass tolerance for peptide precursors and 0.8 Da tolerance for fragment ions. Carbamidomethylation of cysteine residues and iTRAQ modification of lysine residues were set as fixed modifications and S,T,Y phosphorylation, methionine oxidation, N-terminal acetylation of proteins and iTRAQ modification of peptide N-termini were set as variable modifications. The search data base consisted of an in-house curated version of the IPI protein sequence database combined with a decoy version of this database[7]. The decoy data base was created using a script supplied by Matrix Science. The Mascot ion score threshold for this database was 38 (indicating <5% random spectrum to sequence assignments). Unless stated otherwise, we accepted protein identifications as follows:

(i) for single spectrum to sequence assignments, we required this assignment to be the best match *and* a minimum Mascot score of 37 *and* a 10x difference of this assignment over the next best assignment. Based on these criteria, the decoy search results indicate <1% false positive identification rate;

(ii) for multiple spectrum to sequence assignments and using the same parameters, the decoy search results indicate <0.1% false positive identification rate;

(iii) for phospho-peptides <3% false positive identification rate was achieved either by a decoy analysis at a minimum Mascot score of 31 *or* by requiring the identification of a phospho-peptide in at least 12 of the 24 IMAC experiments (see section below).

Functional annotation

The functional annotation provided in **Table 1** and **Supplementary Table 3** was performed by matching each identified protein to the "Sugen" kinase list[8], to Gene Ontology (GO) terms[9] and to Interpro domains[10].

Heat map generation

For generation of heat maps (**Figure 1, Supplementary Figure 1**), a semi-quantitative estimation of relative protein abundance was achieved using the total number of spectrum to sequence matches (SSMs) obtained for individual proteins in cell lines[11]. The cell line for which the highest number of SSMs was obtained is indicated in dark blue. Lighter levels of blue indicate lower numbers of SSMs using a total of 15 levels of blue.

Peptide and protein quantification

Centroided iTRAQ reporter ion signals were computed by the XCalibur software operating the mass spectrometer and extracted from MS data files using in-house developed software. Only peptides unique for identified proteins were used for relative protein quantification. iTRAQ reporter ion intensities were multiplied with the ion accumulation time yielding an area value proportional to the number of reporter ions present in the ion trap. Fold changes are reported based on iTRAQ reporter ion areas in comparison to vehicle control and were calculated using a linear model. For quantification of phosphorylated peptides, only those were considered for which the sum of iTRAQ areas was greater than 100.000. For more details see the **Supplementary Data** online section.

Dose response binding curves and IC50 calculation

Dose-response curves were fitted using R (www.r-project.org)[12] and the drc package (www.bioassay.dk)[13]. For each protein, relative displacement values to the vehicle control were fitted to concentrations of compound using a 4-parameter, unconstrained log-logistic equation. In some cases, the upper limit had to be fixed to 1 (vehicle control) to allow proper fitting. Inflection point and IC50 (corresponding the 50% of the vehicle control) were reported for any protein that was displaced at least 40% compared to the vehicle control.

Quality control and robustness of kinobead profiling

Kinobeads were generated in batches from 1 mL up to 100 mL. Quality controls of different batches were performed by monitoring the coupling reaction by HPLC and by testing each batch in a compound competition binding assay where IC50 binding values for a number of kinases are generated using western blot-based quantification on a LICOR Odyssey instrument, as shown in **Figure 4a**. The observed reproducibility of the resulting IC50 values between batches is typically better than twofold. In six different experiments using different batches of cell lysate, different batches of kinobeads, and different mass spectrometers, IC50 binding values obtained were typically also within twofold. For instance, the IC50 binding values for imatinib to BCR-ABL and NQO2 in K562 lysate determined in these six independent experiments were 128 +/- 93 nM and 42 +/- 14 nM, respectively. These values show only slightly higher variability than the values determined using the same batch of kinobeads and lysate (see **Supplementary Fig. 3**). For the profiling experiments shown in **Figure 1** and **Figure 3**, one single batch of K562 cell lysate was used.

Biochemical kinase activity assays

Biochemical kinase activity assays were performed by the Invitrogen SelectScreen service, for the following kinases: BTK, EphB4, FAK/PTK2, FER, GCK, KHS1, KIT, MER, p38α, and SYK. The concentration of ATP was selected to equal K_m, except for p38α, where 100 μM ATP was used. Inhibition data for DDR2 were generated by the Upstate IC_{50}Profiler Express^{TM} service, using an ATP concentration of 200 μM.

Inhibition data for DDR1 were generated in-house, using a purified recombinant fragment of human DDR1 containing the catalytic domain, purchased from Carna Biosciences. Inhibition was assayed in kinase buffer (20mM Tris pH 7.5, 2 mM $MgCl_2$, 2 mM $MnCl_2$, 0.1 mM Na_3VO_4, 0.05% Brij-35) supplemented with 10 μM (γ–^{32}P)ATP (20 Ci/mmol) and 25 μM IRS1 peptide-F (a generous gift of Dr. Takashi Hara, Carna Biosciences) following published procedures[14]. Inhibition of DDR1 was also assayed by autophosphorylation using (per data point) 100 ng DDR1 in kinase buffer supplemented

with 2 μM (γ–^{32}P)ATP (100 Ci/mmol). Radioactive phosphate incorporated in DDR1 was quantified by SDS-PAGE and autoradiography using a Typhoon 9200 (Amersham Biosciences).

Appendix: Factors influencing the competition binding assay

There are a number of variables which in theory should affect the degree of competition of a protein binding to the capturing ligands on the kinobeads: (1) the affinity of a given protein for the capturing ligand, (2) the concentration of the capturing ligand, (3) the expression level of the kinase, or more directly, the concentration of the kinase in the lysate, and (4) the concentration and affinity of the non-immobilized compound in competition with the capturing ligand. It is advantageous to minimize the impact of the first three factors, so that, under conditions of competition with 'free' compound, the determined IC50 competition values are close to 'true' dissociation constants, and are not influenced markedly by the other variables which tend to differ between individual kinases, ligands, and lysates. Therefore, we have selected conditions under which we do observe little (<10%) or no depletion of proteins from the lysate. This is achieved by (1) keeping the concentration of capturing ligands during the incubation at sub-micromolar levels, and (ii) by using a large access of lysate to become independent of expression levels. Under these conditions, the data obtained for all proteins in the same sample can be directly compared. A more quantitative discussion of these factors is given below, and can also be found in the literature[15, 16].

However, in some cases when one or more of the immobilized inhibitors exhibit very high affinity of for a given protein, the binding results for the non-immobilized test compounds binding to this protein could be skewed. The binding results would show a systematic shift towards higher IC50 values if the dissociation constant (Kd) of a given protein for the immobilized ligand would be substantially lower (by one or more orders of magnitude) than the concentration of the capturing ligand during the kinobeads binding step. In practical terms, this would be the case for proteins where the capturing ligand exhibits low nanomolar or even picomolar Kd values, which is not expected to be the case for the immobilized broad-selectivity ligands used in this study. Such very high affinity capturing ligands may lead to substantial depletion of binding proteins from the lysate. We have tested this for a number of kinases and in no case observed more than 10

% depletion (data not shown). However, it should be noted that the relative order of binding for a number of 'free' test compounds to such a protein would still be correct.
The above arguments can be derived from a set of binding equations. If a compound C binds to a protein P:

Equation 1 $C + P \Leftrightarrow PC$,

the equilibrium is defined by:

Equation 2 $K_D = \frac{[C]*[P]}{[PC]}$,

resulting in

Equation 3 $\forall [C] = [C]_{1/2}, \quad [P] = [PC]$,

and

Equation 4 $K_D = [C]_{1/2}$.

Upon the addition of a capturing ligand, this equilibrium is affected by a second process, namely, the binding of free protein to the immobilized ligand B:

Equation 5 $B + P \Leftrightarrow PB$

Note that in the following equations, this does not necessarily implicate that an equilibrium state is reached. *PB* could also be a function of time.

This reaction influences the half-binding concentration of C as follows:

Equation 6

$$\begin{aligned} &\forall [C] = [C]_{1/2}, \\ &[P] + [PB] = [PC] \end{aligned}.$$

Furthermore, the initial protein concentration P_0 is:

Equation 7

$$[P]_0 = [P] + [PC] + [PB] \ ,$$

Thus resulting in

Equation 8

$$\begin{aligned} [P]_0 &= [P] + [P] + [PB] + [PB] \\ &= 2[P] + 2[PB] \\ &= 2[PC] \end{aligned} \quad .$$

Therefore, the initial concentration of free compound is:

Equation 9

$$\begin{aligned} [C]_{1/2,0} &= [C]_{1/2} + [PC] \\ &= [C]_{1/2} + \frac{[P]_0}{2} \end{aligned} \quad ,$$

And using equation 6, equation 2 is transformed into:

Equation 10

$$[C]_{1/2,0} = K_D * \frac{[PC]}{[P]} + \frac{[P]_0}{2} = K_D + K_D * \frac{[PB]}{[P]} + \frac{[P]_0}{2} .$$

Assuming that $B + P \Leftrightarrow PB$ are in equilibrium, this results in

Equation 11

$$\frac{[B]}{K_{DB}} = \frac{[PB]}{[P]} .$$

Assuming that $\frac{[P]_0}{2} << K_D$,

Equations 10 and 11 can be combined, yielding:

Equation 12

$$[C]_{1/2,0} = K_D * (1 + \frac{[B]}{K_{DB}}) + \frac{[P]_0}{2} .$$

However, in kinobeads competition experiments $B + P \Leftrightarrow PB$ are not necessarily in equilibrium. Hence, using equations 6-8, equation 2 can then be expressed as:

Equation 13

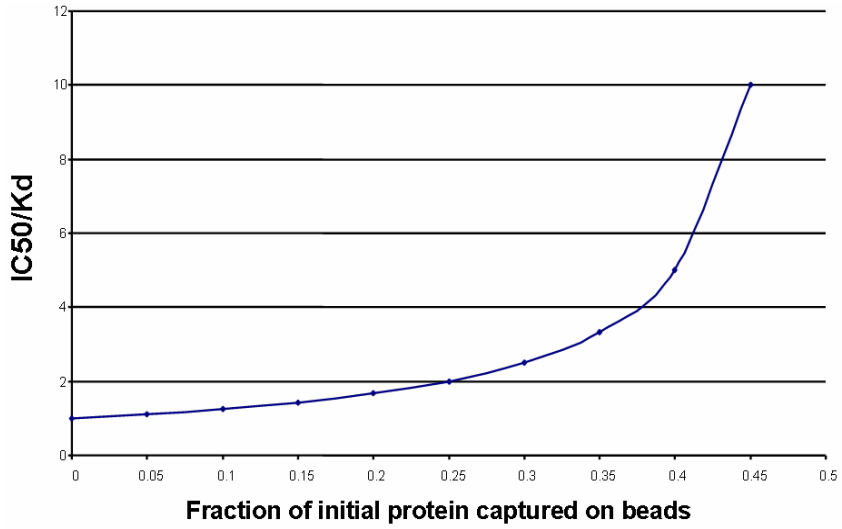
$$K_D = \frac{[C]_{1/2} * \left(\frac{[P]_0}{2} - [PB] \right)}{\frac{[P]_0}{2}} .$$

Or, using equation 9:

Equation 14 $$[C]_{1/2,0} = \frac{K_D}{1 - 2\frac{[PB]}{[P]_0}} + \frac{[P]_0}{2} \quad .$$

where PB is a function of time, until an equilibrium is reached.

Now, the influence of depletion (the fraction of a given protein bound to the capturing ligands) can be calculated. Based on equation 14, the graph below shows how the fraction of protein bound to the capturing ligand affects the deviation of the competition binding IC50 value from the Kd:



Thus, as long as the fraction of protein depleted is below 25%, the IC50 will be less than two times the Kd. As shown this is governed by an asymptotic function with a non-defined point at 50%. Thus, in regions > 40% depletion one is unlikely to measure any competition.

Since

Equation 15 $$\frac{d([PB])}{dt} = k_{on} * [P] * [B] \,,$$

the rate of protein binding to the capturing ligands on the beads is a function of the capturing ligand concentration, the protein concentration and time. As noted, the influence of IC50/Kd can be minimized by using a low concentration of capturing ligands and/or a ligand with low affinity. As long as the initial protein concentration is below Kd, using a lower protein concentration is not favorable since in equation 14, the ratio of concentration of protein on beads to initial protein concentration is the relevant term.

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Supplementary Data

A quantitative chemical proteomics approach reveals novel modes of action of clinical ABL kinase inhibitors

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Details of peptide identifications

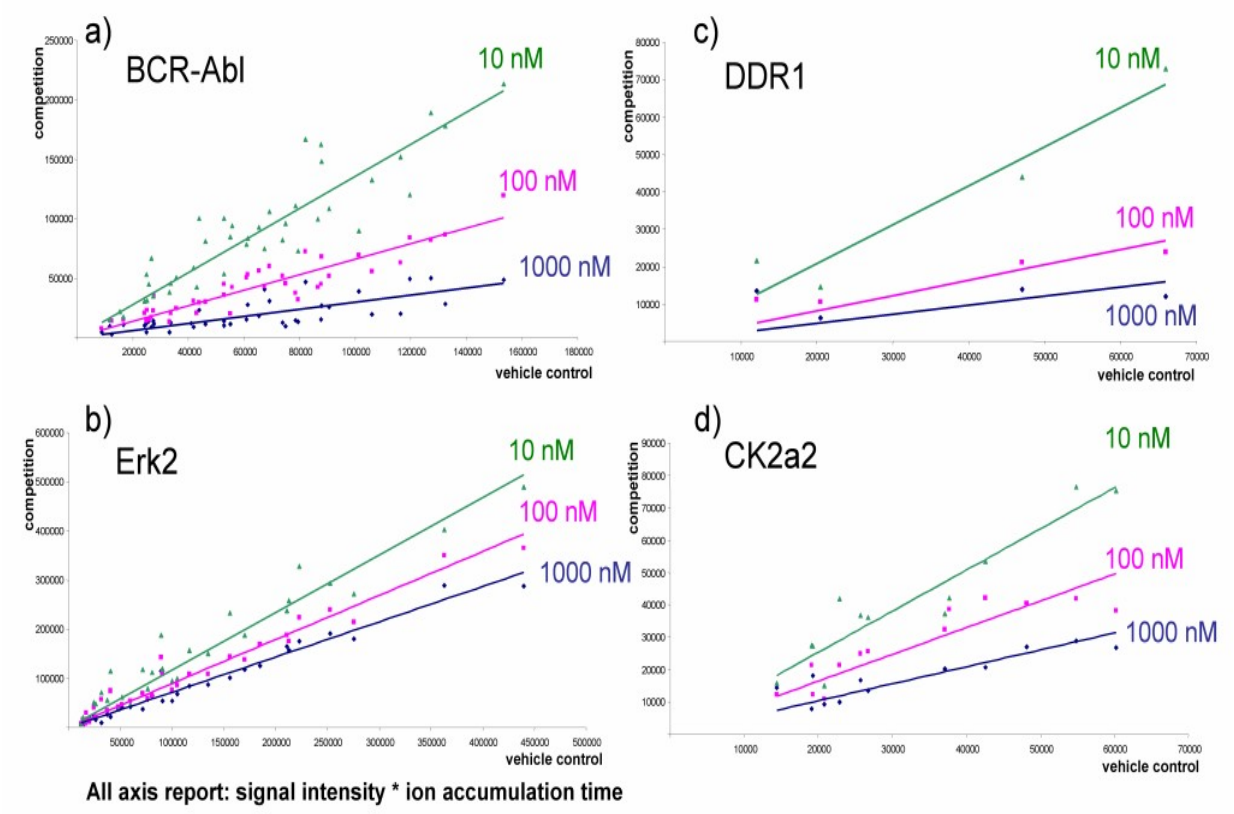
The individual experiments represented in **Figure 1** and **Supplementary Figure 1** online, and **Figure 3b** and **3c**, are listed in **Supplementary Table 9** online. In addition, the peptide identification data collected in each individual experiment are listed in **Supplementary Tables 10** (for **Fig. 1** and **Supplementary Fig. 1**) and **11** online (for **Fig. 3b** and **Fig. 3c**).

In **Supplementary Table 10** online, the total number of times a spectrum with the given peptide sequence was matched to a protein with the listed accession number is shown along with the maximum mascot ions score. 'Spectrum count' refers to the number of acquired MS/MS spectra matching to the peptide sequence given.

Supplementary Table 11 online contains all peptides obtained and quantified for the data in **Figures 3b** and **3c**. Only data from peptides matching unambiguously to a single protein were used in quantification. 'Intensity values' 114, 115, 116, 117 refer to the iTRAQ reporter ion intensities measured in MS/MS spectra. 'Area values' 114, 115, 116, 117 refer to the respective iTRAQ reporter ion intensities measured in MS/MS spectra multiplied with the ion accumulation time to generate a value that is proportional to the number of reporter ions present in the ion trap.

Quantification of peptides and proteins

For protein quantification, we chose the approach illustrated in **Supplementary Figure 6**. Essentially it takes the form of: a) plotting the iTRAQ areas for each peptide of the three compound concentrations against the vehicle control in a 2D plot (intensity multiplied by the ion accumulation time to achieve a value directly proportional to the number of ions individual quantification values are based on) and then b) calculating the fold change using a two-sided linear regression analysis (to account for the fact that weak spectra may distort the true ratios). The slope of the trend line is a measure for the determined fold-change. Note that the slope of each trend line subsequently provides one data point for a dose response curve. Assembly of 6 point or 9 point dose response curves is achieved by performing 2 (3) separate iTRAQ experiments with one compound concentration in common which provides a means to normalize the 2 (3) separate data sets.



Supplementary Figure 6: Examples for linear regression analysis for four kinases identified and quantified in kinobeads competition experiments using imatinib. Diamonds, squares and triangles represent quantitative values for individual peptides at three different Imatinib concentrations. Trend lines indicate results of the two-sided linear regression analysis.

Validation of phospho-peptide identifications

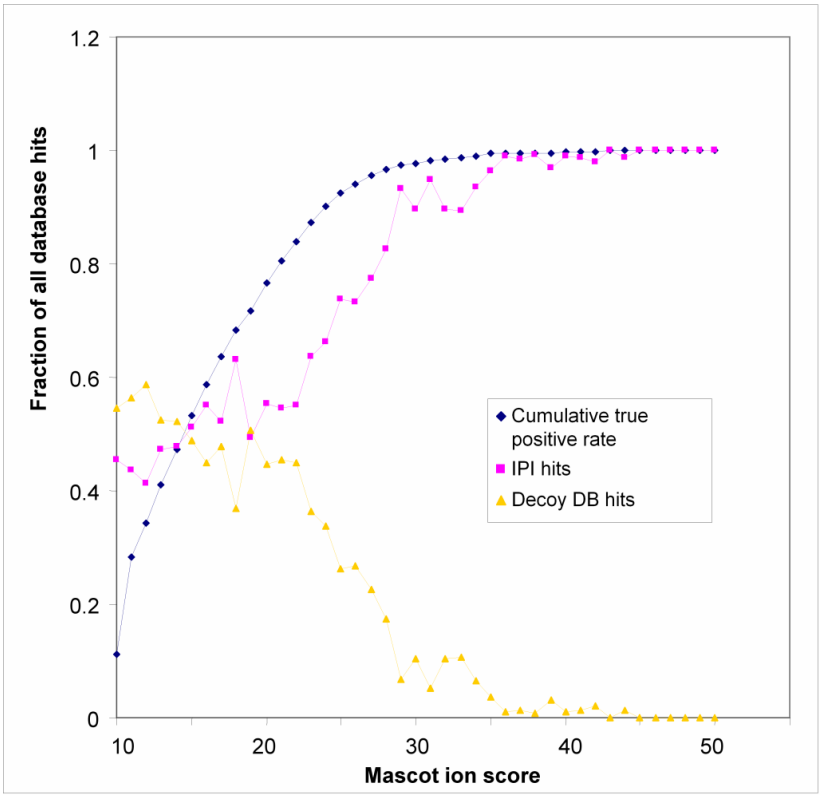
The data presented in this paper includes the identification of several hundred phosphorylated peptides. Because of the sheer number of spectra matching to phosphorylated peptides, manual verification proved to be impractical. Other than the spectra included at the end of this supplement, we have not manually verified the phosphorylation sites listed in **Supplementary Table 6**. As an alternative, we sought to estimate the accuracy of phospho-peptide identification by a combination of i) use of a combined IPI and decoy protein sequence database for peptide identification[1, 2] and ii) replicate analysis of 24 kinobeads experiments for which we also enriched for phospho-

peptides using IMAC. The steps and results of the approach are detailed below. In summary, the phosphorylation data presented in this study conforms to a 97% identification confidence criterion which requires a Mascot ion score of at least 31 for any particular identification *OR* identification of any particular phospho-peptide in 12 out of 24 experiments.

Data preparation: The data from the IMAC analysis of kinobeads experiments was initially filtered to contain only those phosphorylated peptides (i.e. combinations of peptide sequence and modification assignments) that were assigned to proteins with a Mascot total score of >20. All other peptides/proteins were categorically rejected. In addition, for each spectrum, only the highest scoring protein match was considered (bold peptide definition of Mascot) and any combination of peptide sequence and modification had to represent the best spectrum to sequence match (rank1 definition of Mascot) in at least one of the 24 experiments. All other data not conforming to these criteria were removed. The remaining data constitutes more than 29.000 different combinations of protein accession number, peptide sequence and modification assignment. 14,300 of these were matched to IPI database entries and 12.700 to decoy data base entries indicating that at this stage, no confidence could be assigned to any particular phospho-peptide.

Confidence assignment using Mascot ion score: In a first step, we evaluated the influence of the Mascot ion score on the distribution of phospho-peptide assignments to the IPI and decoy database (**Supplementary Figure 7**). If a particular phospho-peptide assignment was found more than once, the highest Mascot ion score was used for this analysis. About one third of all phospho-peptide assignments had peptide ion scores of 10 or less and for those the number of matches to the decoy database exceeded that of the IPI data base, indicating that these assignments were not significant. As one might expect, the significance of phospho-peptide assignments increases strongly with increasing Mascot ion score and for Mascot ion scores of 45 and above, there were 1054 different

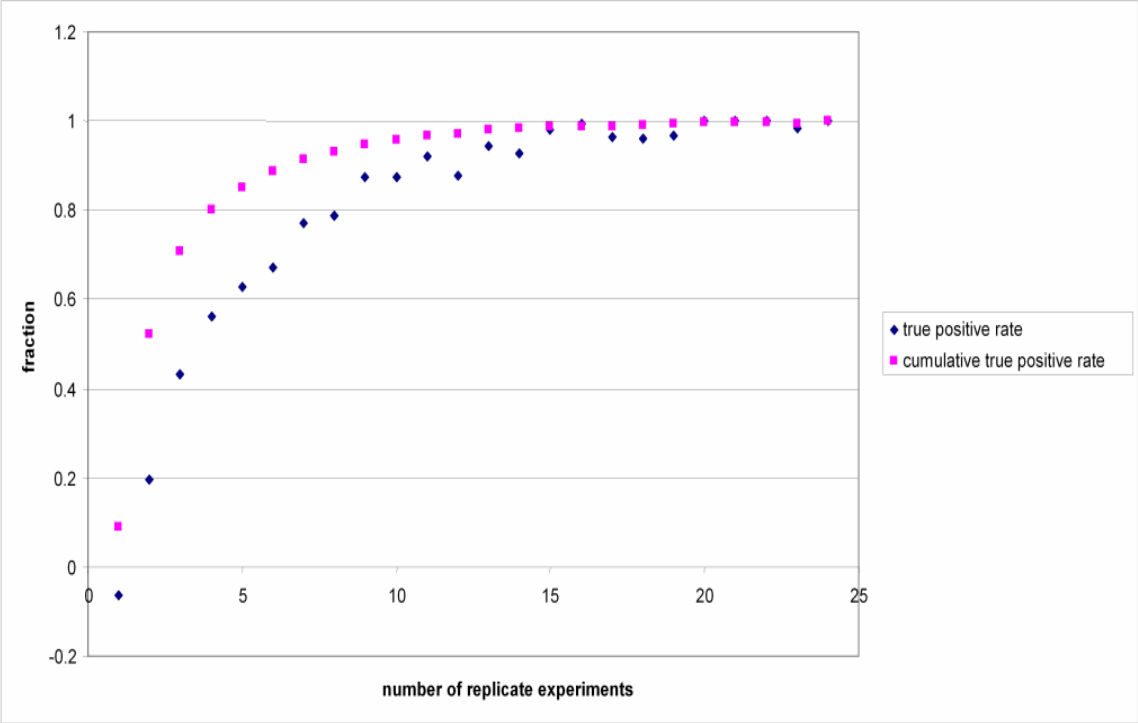
assignments in the IPI database but not a single match to the decoy data base. Given that the number of false positive assignments in the IPI database should be equal to that of the decoy data base, a true positive rate can be calculated for each Mascot ion score by subtracting the number of assignments to the decoy data base from the number of assignments to the IPI data base and dividing that by the number of assignments to the IPI data base. For the purpose of this study, we required a 97% confidence threshold for all reported phospho-peptides which was satisfied by Mascot ion scores of 29 or higher.



Supplementary Figure 7: True positive rate of phospho-peptide identification as a function of Mascot ion score.

Confidence assignment using replicate analysis: Second we investigated, if phospho-peptide assignments that were made repeatedly across the 24 individual IMAC experiments performed in this study provide higher confidence than those that were found only once. In fact, most phospho-peptide assignments were made only in one or

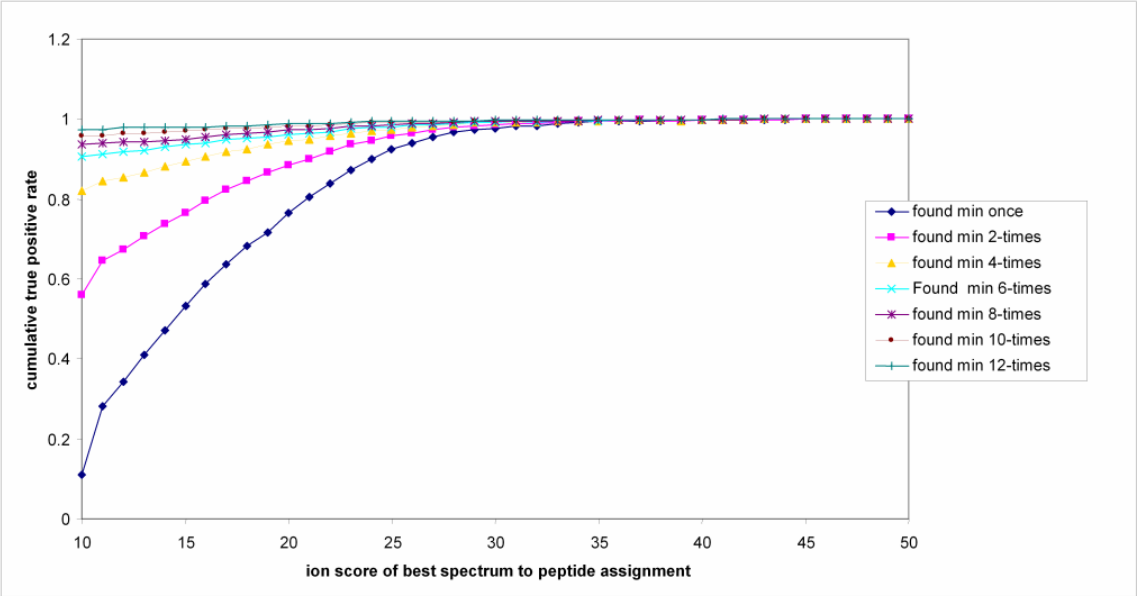
two experiments and the numbers of assignments to the IPI and decoy databases were similar indicating a low confidence level (data not shown). In contrast, the 182 phospho-peptide assignments present in all 24 experiments all matched to the IPI database and produced no hit in the decoy database indicating a very high level of confidence. A cumulative true positive rate of >97% was achieved for phospho-peptide when identified in at least 12 out of the 24 experiments (**Supplementary Figure 8**).



Supplementary Figure 8: True positive rate of phospho-peptide identification as a function of replicate analysis.

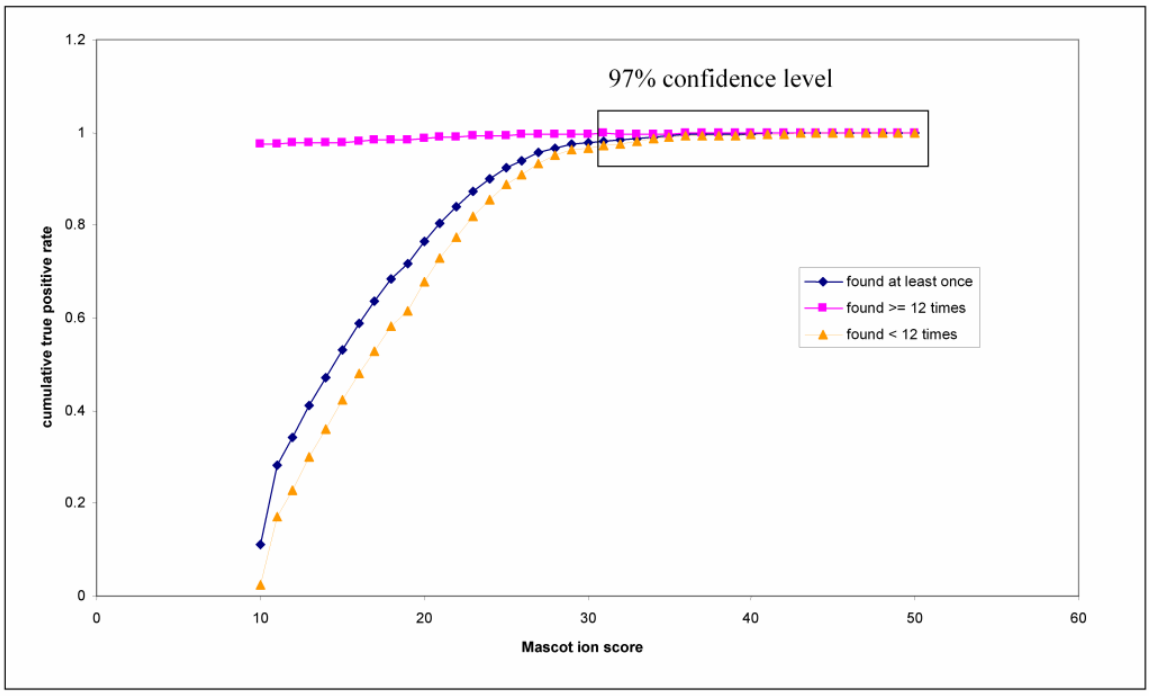
Combined phosphorylation confidence criterion: As shown above, Mascot ion score and reproducibility of identification both strongly discriminate against random phosphorylation assignments. We next analyzed how the two measures correlate. As can be seen in **Supplementary Figure 9**, the true positive rates based on Mascot ion scores are different for assignments made consistently compared to those found only sporadically and the dependency of true positive rate on Mascot peptide score decreases

drastically with the number of replicates in which a particular phospho-peptide was identified. To reach 97% confidence in phospho-peptide assignments, we selected all phospho-peptide assignments that were made in at least half of the 24 experiments.



Supplementary Figure 9: Cumulative true positive rate of phospho-peptide identification as a function of Mascot ion score and number of times a phospho-peptide has been identified in a set of 24 experiments.

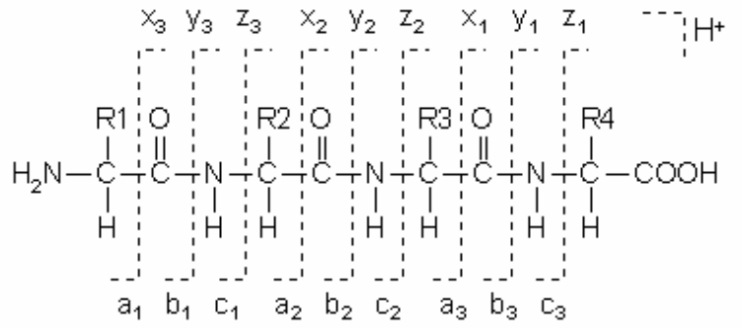
These assignments where then subtracted from the data and the remaining data was again analyzed for the dependency of true positive assignments on the Mascot ion score (**Supplementary Figure 10**). According to this plot, an ion score of at least 31 is required to fulfill the >97% confidence level criterion. Taken together, the combined confidence criterion requires phospho-peptide assignments with a Mascot ion score of at least 31 OR identification in 12 out of 24 experiments. When applying this criterion to the data generated in this study, the net result comprises 482 distinct phosphorylation sites (**Supplementary Table 7**).



Supplementary Figure 10: Cumulative true positive rate of phospho-peptide identification as a function of Mascot ion score and number of times a phospho-peptide has been identified in a set of 24 experiments.

Phosphopeptide Spectra

In low energy CID (i.e. collision-induced dissociation e.g. in a linear ion trap) a peptide carrying a positive charge fragments mainly along its backbone, generating predominantly *a*, *b* and *y* ions. In addition, peaks are observed for ions which have lost ammonia (-17 Da) denoted *a**, *b** and *y** or water (-18 Da) denoted *a°*, *b°* and *y°*. For phosphorylated peptides the loss of phoshorous acid (-80 Da) and phosphoric acid (-98 Da) are frequently observed. The accepted nomenclature for fragment ions was first proposed by Roepstorff and Fohlman[3] and subsequently modified by Johnson *et. al.* [4].



Symbol	Ion type
y(n)	y-ion including residue n
y^{++}	(y+H)/2
y^{*}	y-NH3
y^{*++}	(y-NH3+H)/2
y^{0}	y-H2O
y^{0++}	(y-H2O+H)/2
b(n)	B-ion including residue n
b^{++}	(b+H)/2
b^{*}	b-NH3
b^{*++}	(b-NH3+H)/2
b^{0}	b-H2O
b^{0++}	(b-H2O+H)/2
iTRAQ	Reporter ions: 114, 115, 116, 117 Da Intact label: 145 Da
-iTRAQ	Loss of iTRAQ label (-144 Da)

Figure S11: Phosphorylation annotation: Fragment ion nomenclature

Supplementary Figures S12-S32 show annotated spectra:

Figure S12: **VMEGTVAAQDEFpYR**
TYROSINE-PROTEIN KINASE CSK.

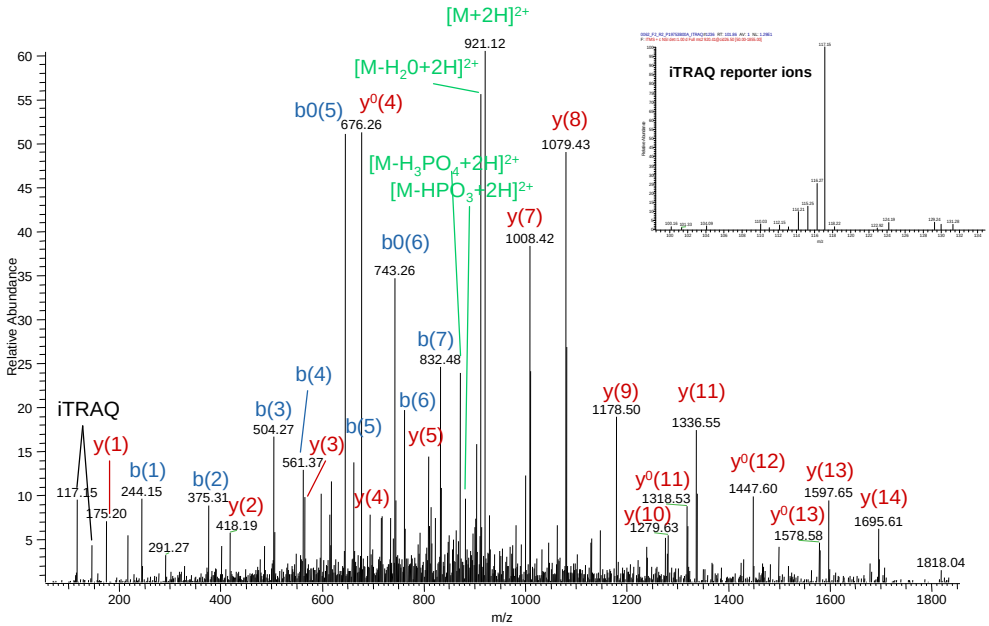


Figure S13: EVGDpYGQLHETEVLLK

TYROSINE-PROTEIN KINASE JAK2

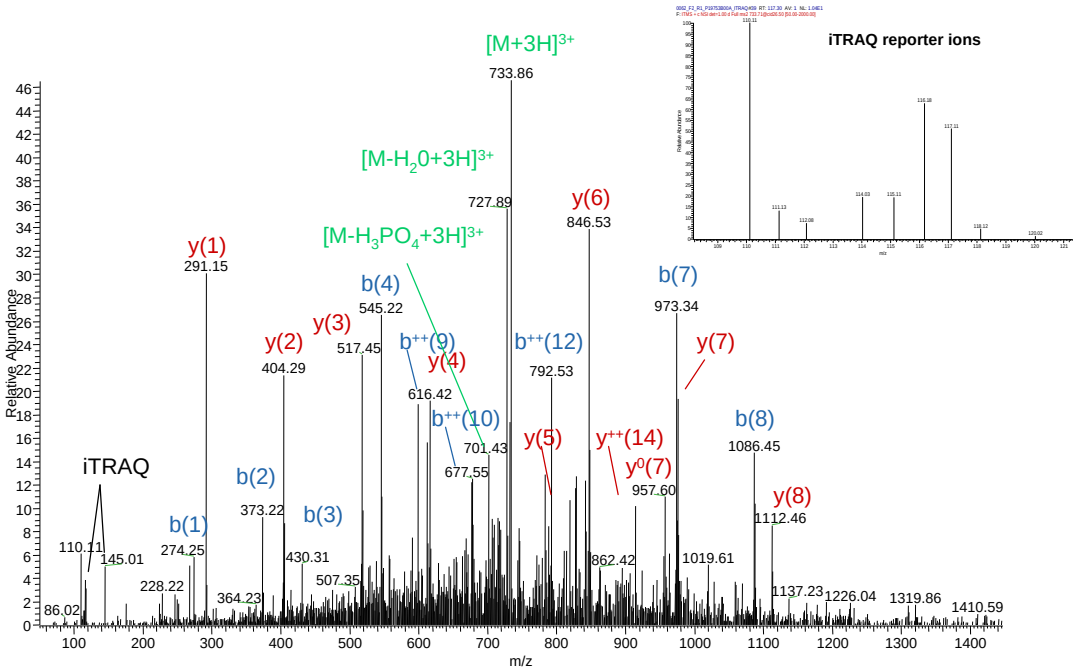


Figure S14: YMEDSTpYYK

SPLICE ISOFORM 1 OF FOCAL ADHESION KINASE 1

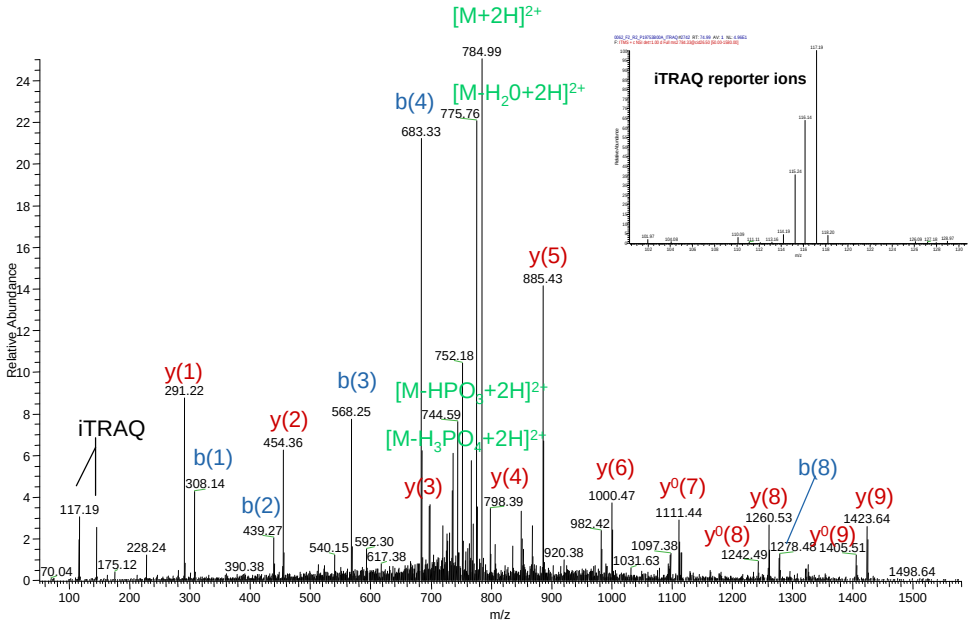


Figure S15: YMEDSTpYpYKASK

SPLICE ISOFORM 1 OF FOCAL ADHESION KINASE 1

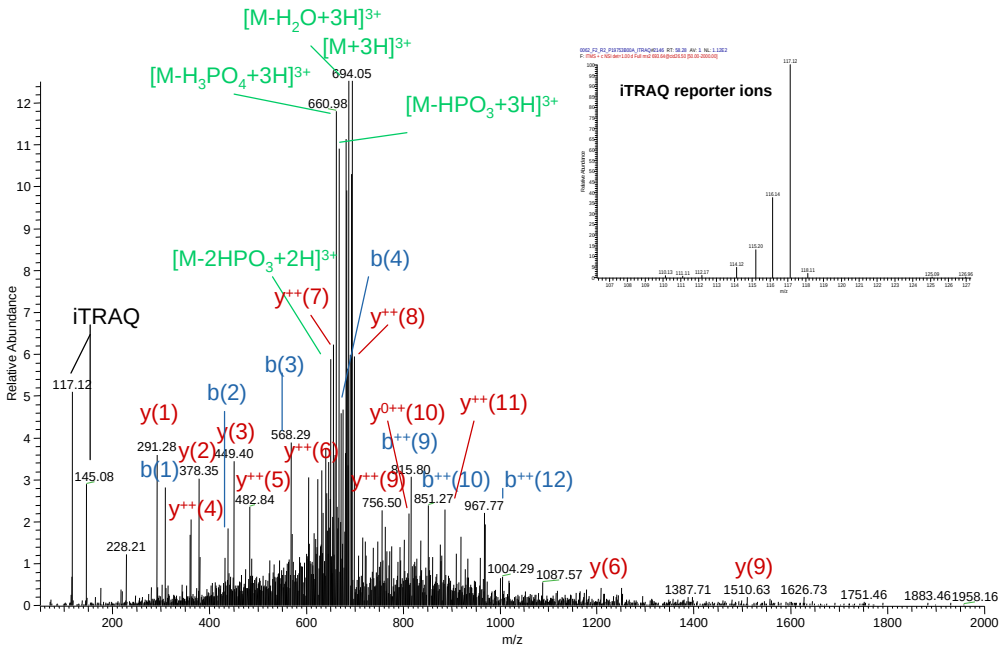


Figure S16: EPPPVVNpYEEDAR

PROTO-ONCOGENE TYROSINE-PROTEIN KINASE FER

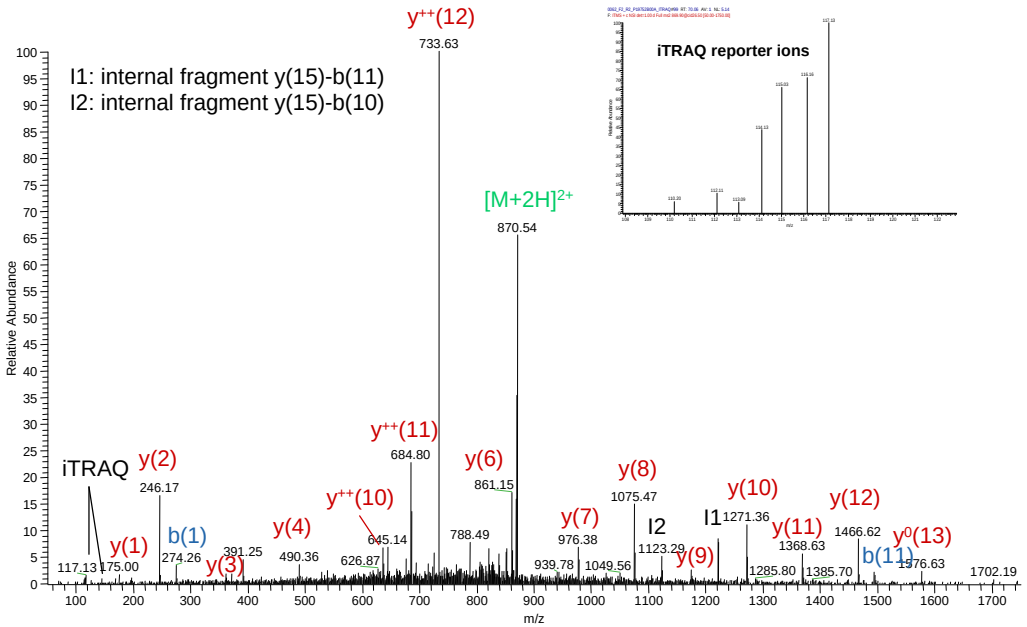


Figure S17: QEDGGVpYSSSGLK

PROTO-ONCOGENE TYROSINE-PROTEIN KINASE FER

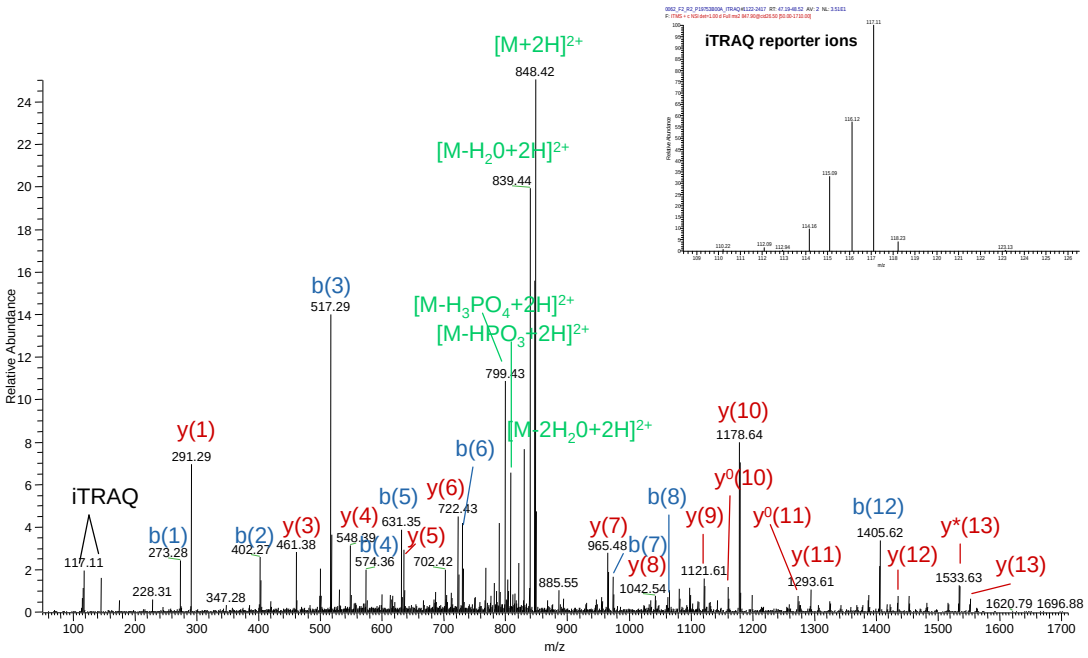


Figure S18: YIEDEDpYYKASVTR

SPLICE ISOFORM 1 OF PROTEIN TYROSINE KINASE 2 BETA

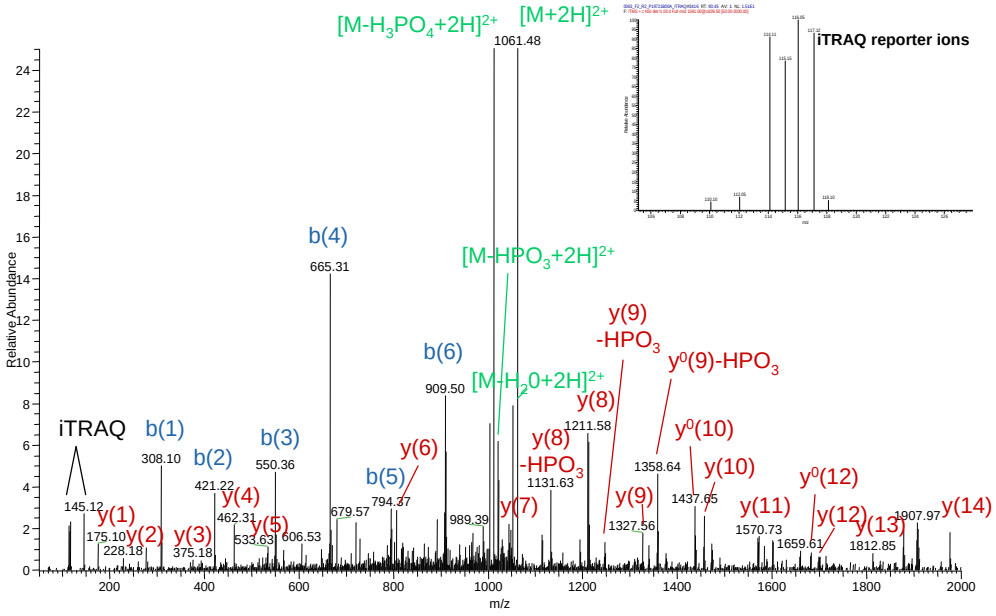


Figure S19: YVLDDQpYTSSSGAK

TYROSINE-PROTEIN KINASE TEC

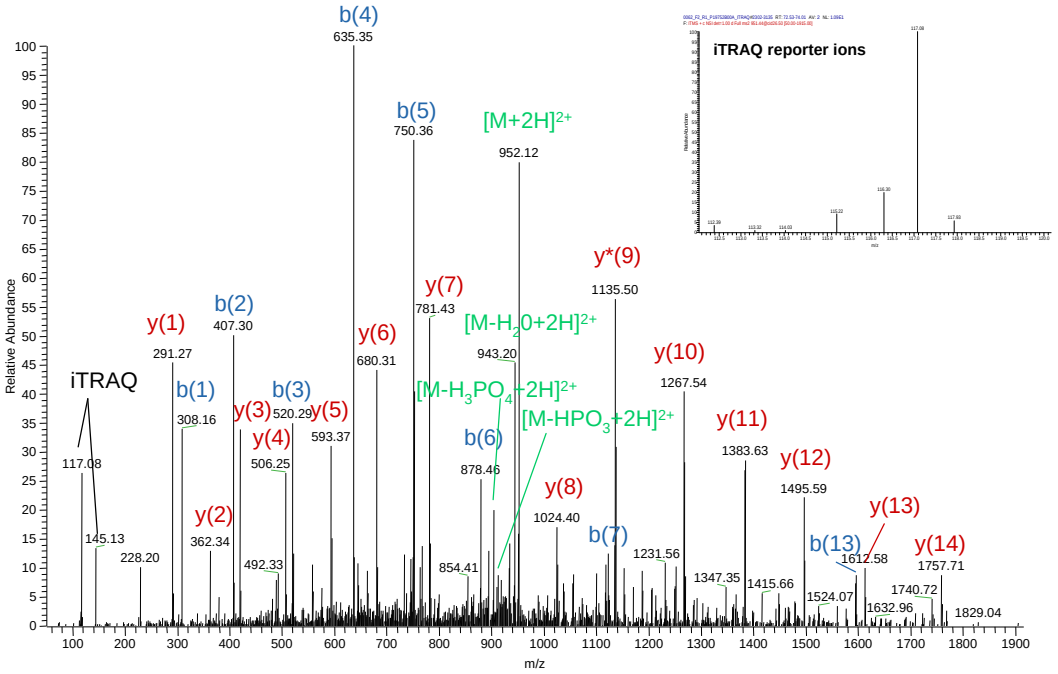


Figure S20: RDpSSDDWEIPDGQITVGQR

B-RAF PROTEIN

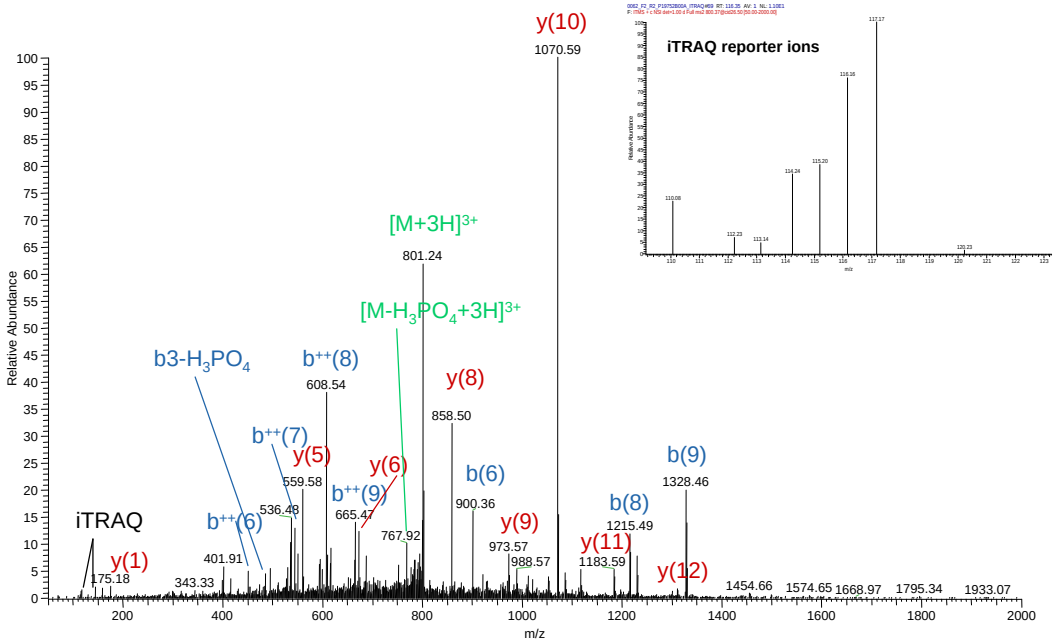


Figure S21: **VADPDHDHpTGFLTEpYVATR**
MITOGEN-ACTIVATED PROTEIN KINASE 1

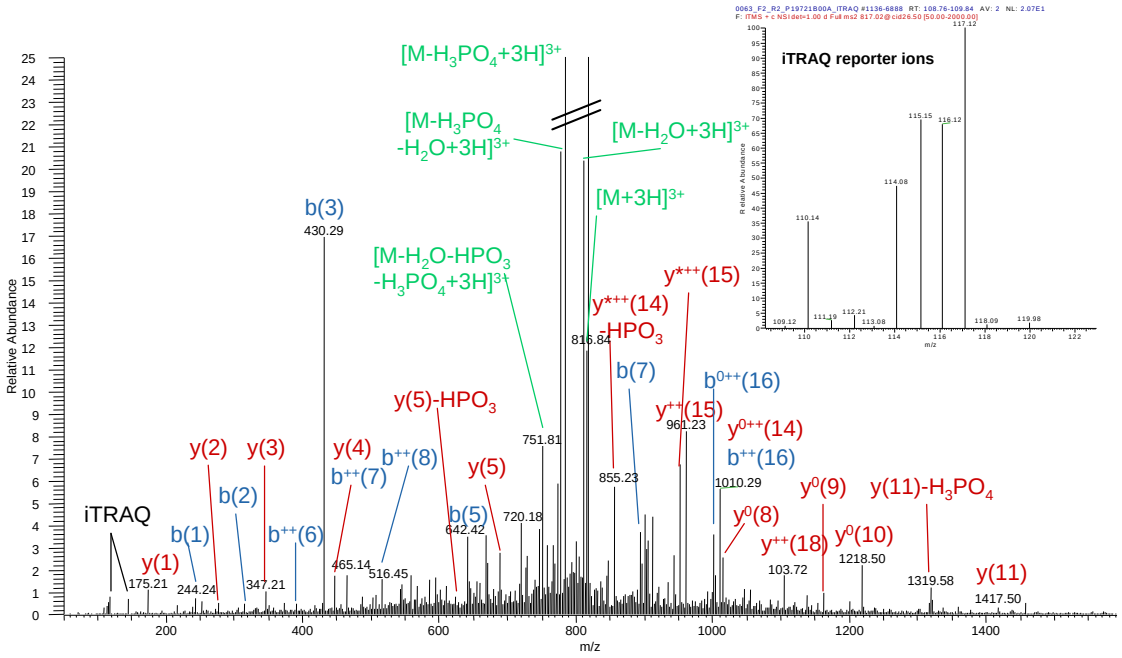


Figure S22: **VADPDHDHTGFLTEpYVATR**
MITOGEN-ACTIVATED PROTEIN KINASE 1

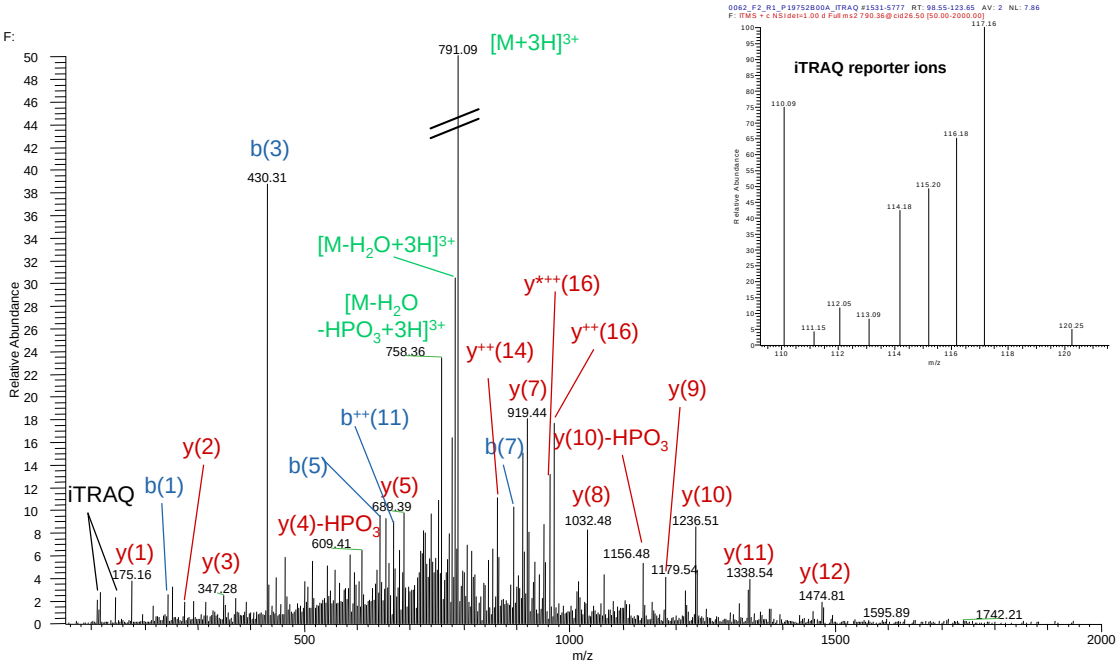


Figure S23: **TPKDpSPGIPPSANAHQLFR**
RIBOSOMAL PROTEIN S6 KINASE ALPHA 3

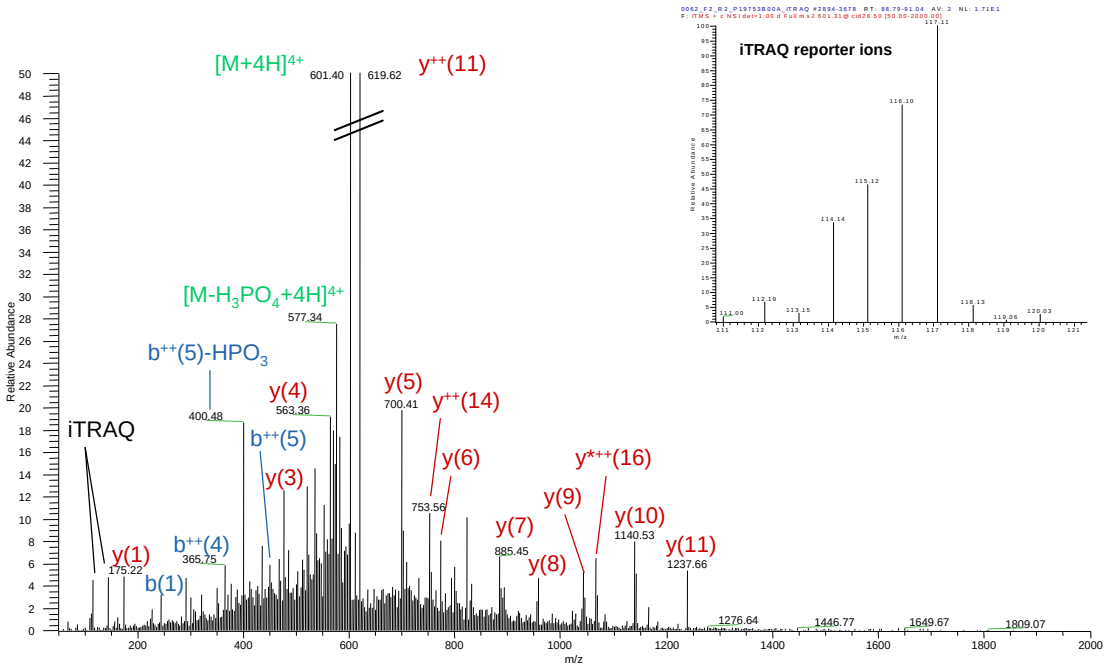


Figure S24: GFpSFVATGLMEDDGKPR
RIBOSOMAL PROTEIN S6 KINASE ALPHA 1

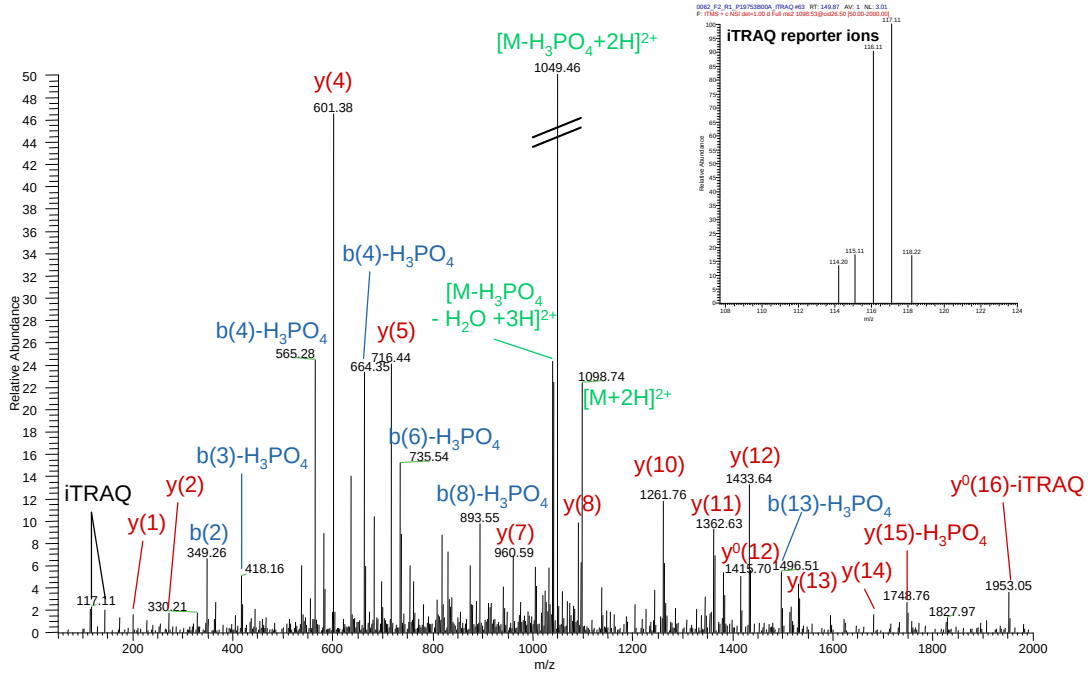


Figure S25: TPKDpSPGIPPSAGAHQLFR

RIBOSOMAL PROTEIN S6 KINASE ALPHA 1

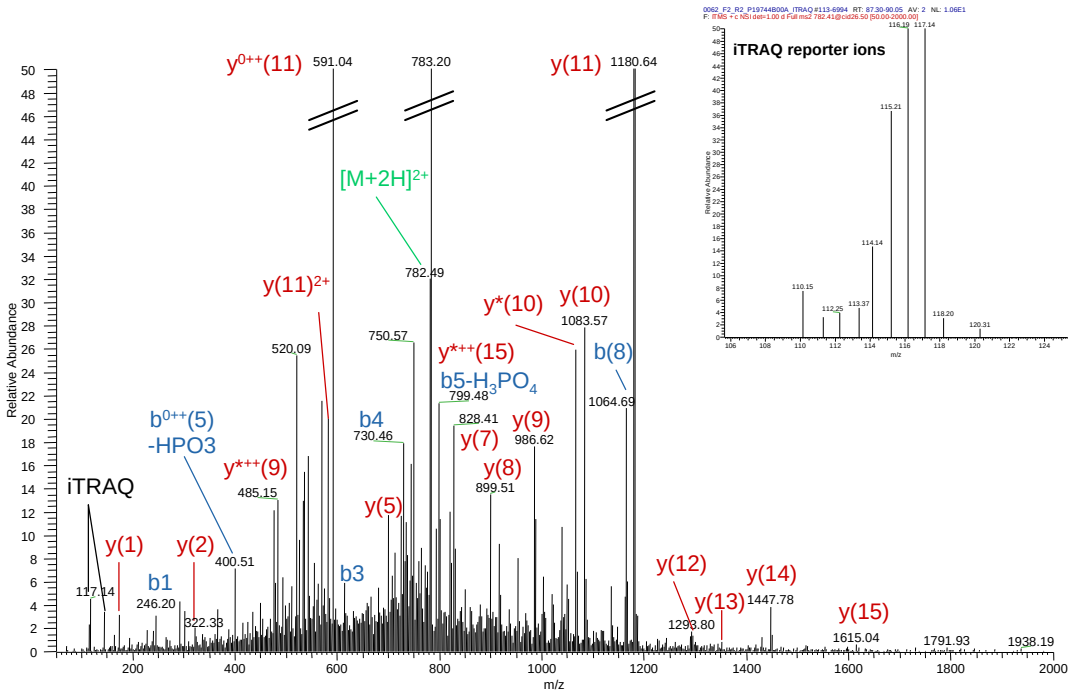


Figure S26: QTpSRTDCPADRLK

SPLICE ISOFORM A OF MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 4.

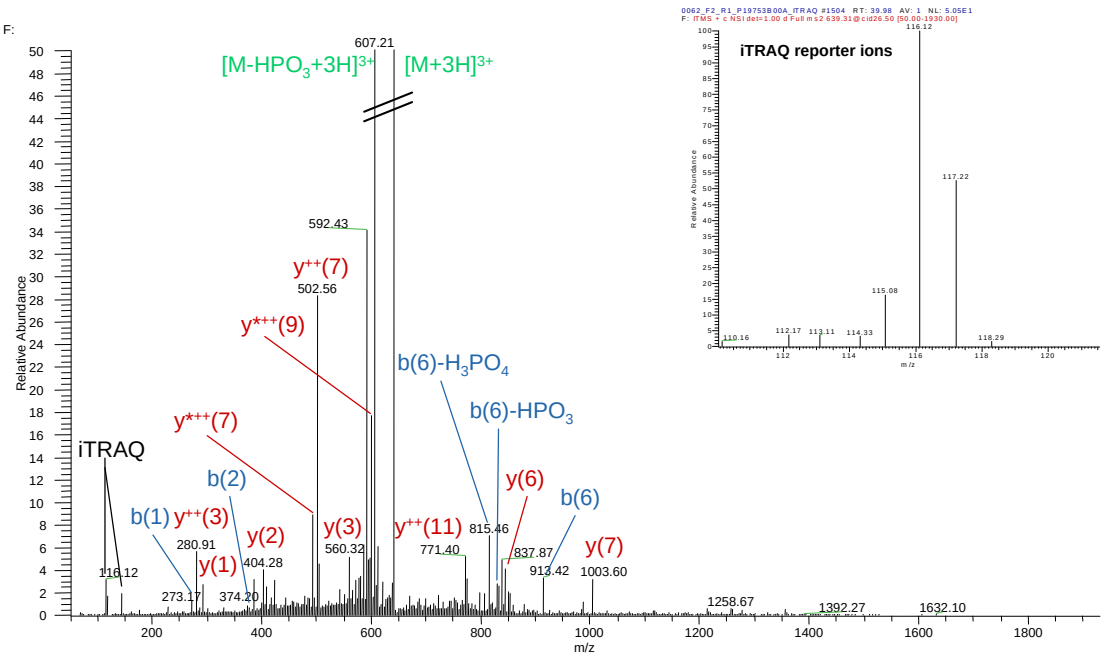


Figure S27: ADpSHEGEVAEGK
SPLICE ISOFORM 1 OF DOCKING PROTEIN 1

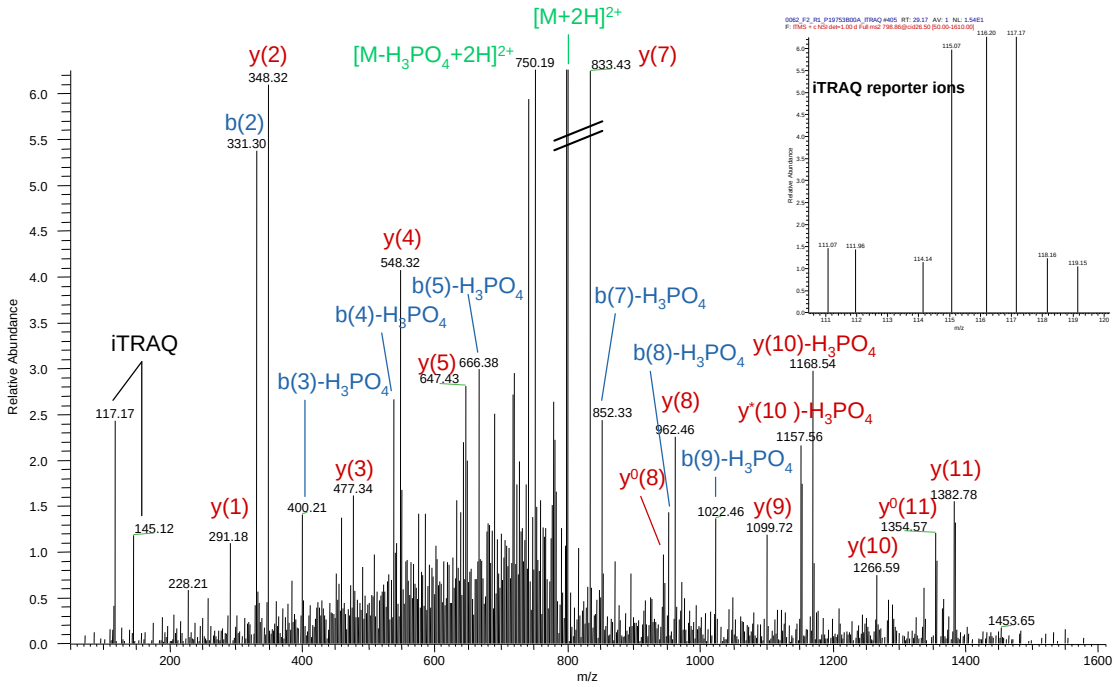


Figure S28: KKPLpYWDLYEHAQQQLLK
SPLICE ISOFORM 1 OF DOCKING PROTEIN 1

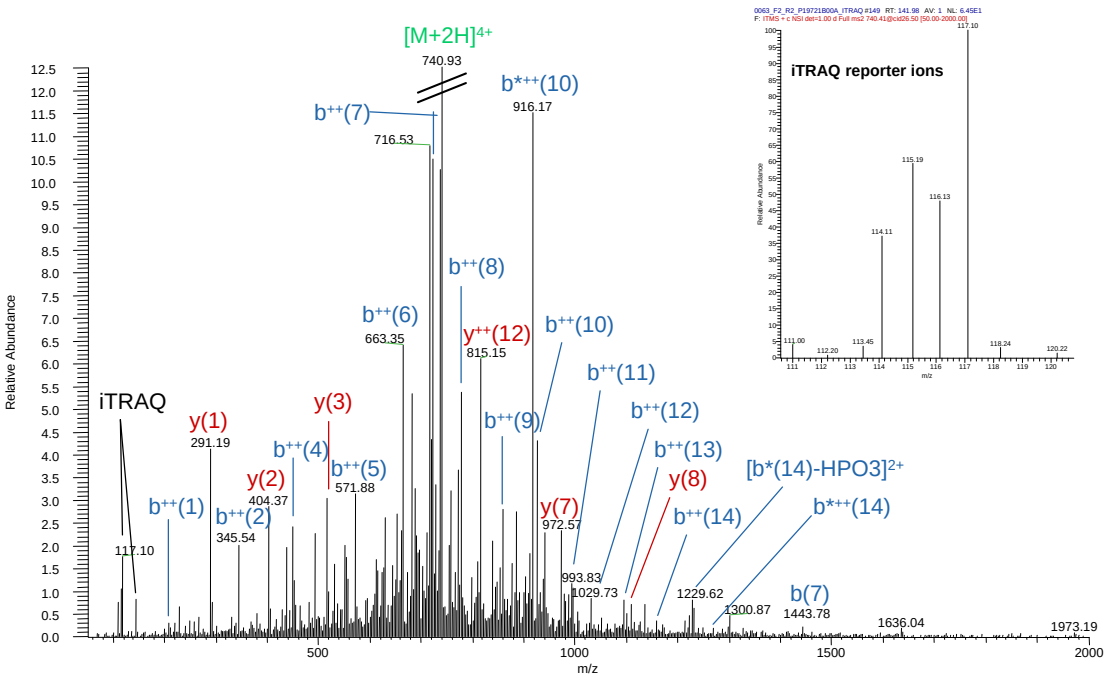


Figure S29: SHNSALpYSQVQK

SPLICE ISOFORM 1 OF DOCKING PROTEIN 1

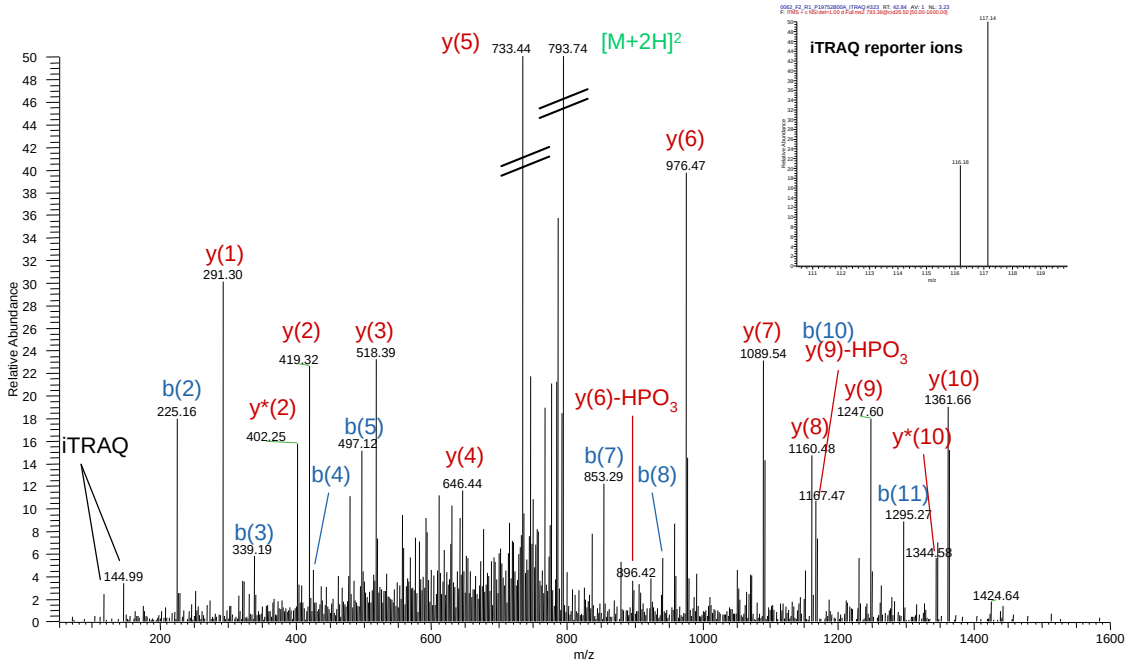


Figure S30: ENCAPLpYDDALFLR

PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 18

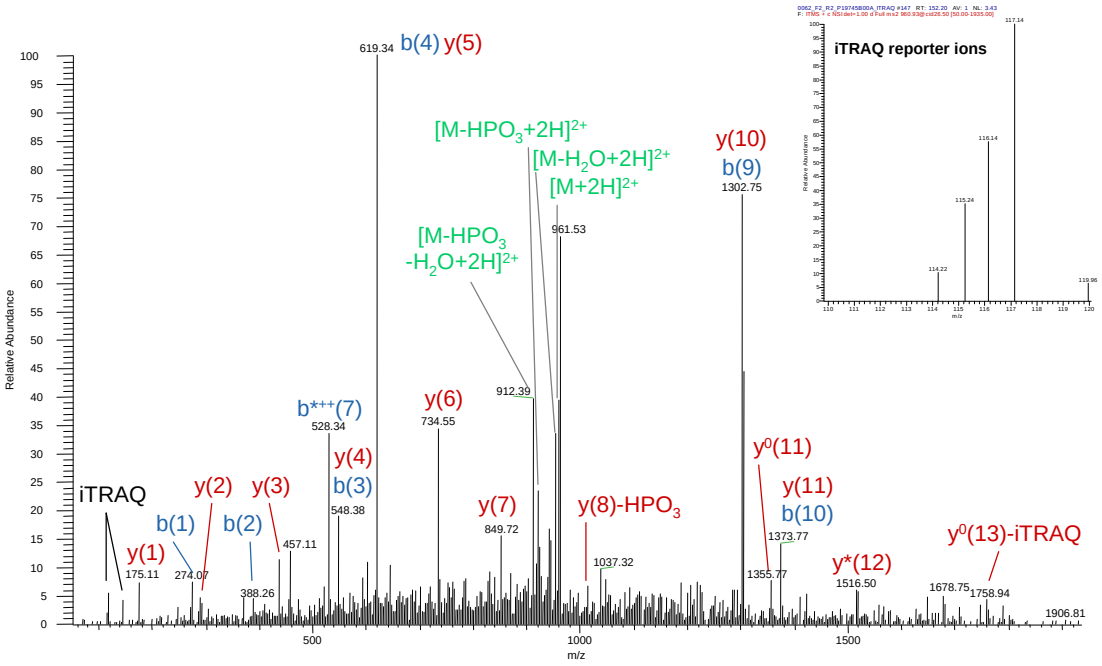


Figure S31: SAEEAPLpYSK

PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 18

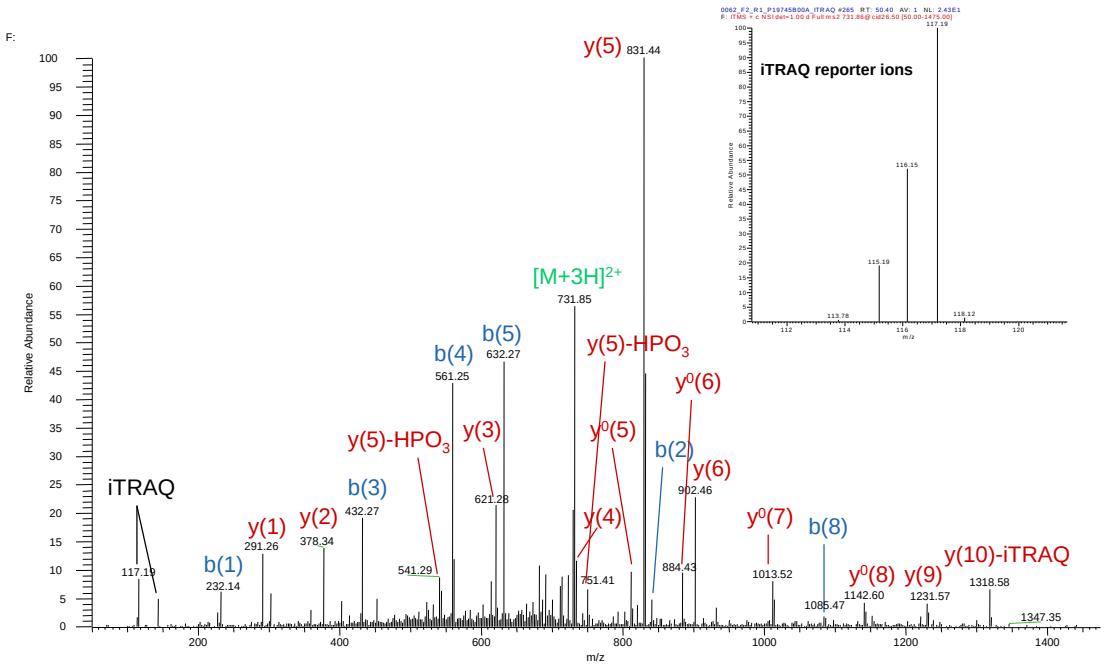
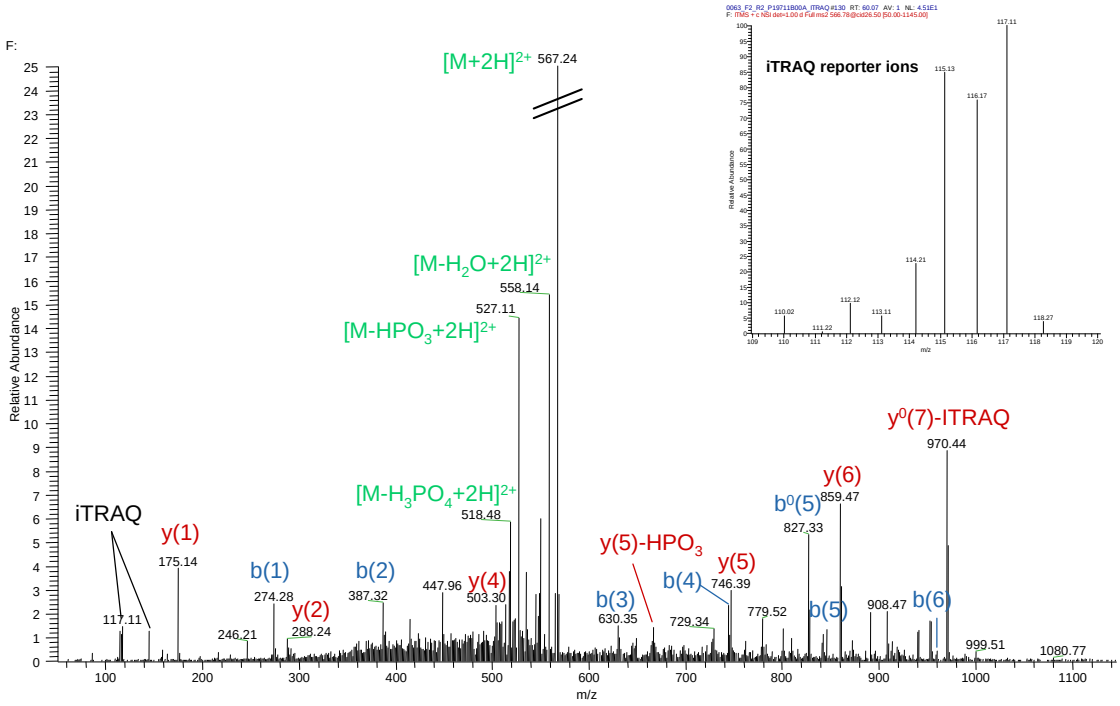


Figure S32: EIpYNTIR

SPLICE ISOFORM 1 OF P20936 RAS GTPASE-ACTIVATING PROTEIN 1.



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