

TABLE S2. Peptides detected from METHYLATED IP proteins derived from Jurkat T cells using Fe3+ IMAC method D/LC-MS/MS and SEQUEST

PEPTIDE SEQUENCE*‡	% acidic		Charge	NCBI qi#	PROTEIN NAME**
	residues	Xcorr			
VITNQYNNPAGLpYSSENISNFNNALESK	7	4.4397	3	13994151	PDZ and LIM domain 1 (elfin) [Homo sapiens]
ERPpSLGIFPLPAGDGLLpTPDAQK	13	4.2804	3	29169179	PHET [Homo sapiens]
LQLDNQpYAVLENQK‡	14	4.2669	2	22041539	similar to hypothetical protein H41 [Homo sapiens]
SHNSALYpSQVQK‡	0	4.2147	2	4503357	p62dok; docking protein 1, 62kD [Homo sapiens]
pYSEVLDSEPK‡	27	4.0817	2	7657577	SHP2 interacting transmembrane adaptor (SIT protein) [Homo sapiens]
SADAPApYQQGQNLpYNELNLGR‡	9	4.0246	3	23830999	CD3‡ (T-cell receptor T3 zeta chain)
YYEGYpYAAGPGYGGRR‡	7	3.9968	2	5031887	LIM domain pref. translocation partner in lipoma (LPP) [Homo sapiens]
ALPAQVDDPPEVPpYANIER	21	3.9341	2	20558968	similar to Rho GTPase activating protein (GAP) 12 [Homo sapiens]
QpYATLIDVYNPFETR‡	14	3.7324	2	2232243	secretory carrier membrane protein (SCA3) [Homo sapiens]
RHpTDPVQLQAAGR‡	8	3.7031	3	4758476	GRB2-related adaptor protein 2 [Homo sapiens]
PQAVGSSNpYASTSAGLK‡	0	3.6814	2	20127650	KIAA0157 protein [Homo sapiens]
SSpSPAPADIAQTVQEDLR‡	17	3.6327	2	5031703	Ras-GAP SH3-domain-binding protein [Homo sapiens]
SSSLpSAANTSQTNPQGAVSSTVSGLQR‡	0	3.5165	2	22027525	Rac/Cdc42 guanine nucleotide exchange factor 6 [Homo sapiens]
IDTLNSDpYTPEPAR‡	20	3.5062	2	18600045	ZAP-70 (Syk-related tyrosine kinase) [Homo sapiens]
SHAENPTASHVDNEYpSQPPRNpSR‡	13	3.4963	3	7656965	CD5 antigen (p56-62) [Homo sapiens]
IPGPGTPVkpYpSEVLDSEPK‡	15	3.4729	3	7657577	SHP2 interacting transmembrane adaptor (SIT protein) [Homo sapiens]
ENDpYESISDLQQGR‡	29	3.4479	2	16753229	phosphoprotein assoc. w glycosphingolipid microdomains [Homo sapiens]
ARApSPFDQAYANSQPAAS‡	6	3.4022	2	7657577	SIT protein [Homo sapiens]
SVLEDDFFATEGQpYQPQ‡	17	3.3886	2	6984209	tyrosine kinase LCK [Homo sapiens]
ALGADDSYpYTAR‡	17	3.3396	2	18600045	ZAP-70 (Syk-related tyrosine kinase) [Homo sapiens]
DLpSGLNQR‡	11	3.1762	2	4502671	CD3‡ (TIT3 complex) [Homo sapiens]
GHDGLpYQGLSTATK‡	7	3.0883	2	23830999	CD3‡ (T-cell receptor T3 zeta chain)
SGESVEEVPLpYGNLHYLQTGR‡	14	3.0656	3	7657577	SHP2 interacting transmembrane adaptor [Homo sapiens]
QGEGEpYAVPDAVAR‡	20	3.0048	2	21618483	docking protein 2, 56kD [Homo sapiens]
APQQQPPPPQPPPPQPPPPPSYpSPAR‡	0	2.971	3	7512403	E1B-55kDa-associated protein - human
ANpSFVGTAAQYSPPELLTEK‡	11	2.9401	2	23271395	Similar to 3-phosphoinositide dependent protein kinase-1 [Homo sapiens]
TTAVEIDYpSLK‡	25	2.8514	2	4503821	FYN binding protein (FYB-120/130) [Homo sapiens]
GPPQpSPVFEQYNNRS‡	6	2.8491	2	27262649	ataxin 2 related protein isoform C; ataxin-2 domain protein [Homo sapiens]
pTASFGGITVLR‡	0	2.7841	2	11360196	hypothetical protein DKFZp566N1047.1 - human (fragment)
RIDTLNSDpYTPEPAR‡	19	2.7822	3	18600045	ZAP-70 (Syk-related tyrosine kinase) [Homo sapiens]
VKEEGYELPYNPATDDpYAVPPRR	22	2.7797	3	4503357	p62dok (downstream of tyrosine kinase 1) [Homo sapiens]
TVpSPGSVpSPIHGQGVVENLK	5	2.7425	3	7542783	intersectin 2 [Homo sapiens]
LIEDNEpYTAR‡	30	2.5042	2	6984209	tyrosine kinase LCK [Homo sapiens]
pYQQPFEDFR‡	22	2.4869	2	7512673	hypothetical protein DKFZp434N101.1 - human (fragment)
NDQpYQPLR‡	11	2.4815	2	4502669	CD3‡ (TIT3 complex) [Homo sapiens]
SSGpSPYGGGYGSGGGGGYGSRR‡	0	2.4487	2	13650330	similar to hypothetical protein MGC37309 [Mus musculus] [Homo sapiens]
ARApSPFDQApYANSQPAAS‡	6	2.3901	2	7657577	SIT protein [Homo sapiens]
FSPDSQpYIDNR‡	18	2.3875	2	25901054	SE2-5LT1 protein [Homo sapiens]
LIEDEGLDpSK‡	40	2.3741	2	29729080	hypothetical protein XP_298590 [Homo sapiens]
MYPPRpSPK	0	2.2386	2	27262649	ataxin 2 related protein isoform C [Homo sapiens]
THFPQFSYpSAPsIRE	7	2.1974	2	4502023	rac protein kinase [Homo sapiens]
DLSpTSPKPSPIpSPVLGR	6	2.1027	2	4240295	KIAA0903 protein [Homo sapiens]
QGpSPVAAGAPAK	0	2.0258	2	21361352	IGF-II mRNA-binding protein 1 [Homo sapiens]
VGLGRGRAVRAGCPACGR	0	2.0233	2	22047425	apoA-I binding protein [Homo sapiens]
LVNEAFVYpSVpYSK‡	8	2.018	2	3650488	signal transducing adaptor molecule 2A (STAM-2A) [Homo sapiens]
VTPPEGYEVVpTVFPK‡	13	2.0131	2	13994151	PDZ and LIM domain 1 (elfin) [Homo sapiens]

*phosphotyrosine-, phosphoserine-, and phosphothreonine residues are designated pY, pS and pT, respectively, and shown as red text; the remainder of the sequence of only phosphopeptides is shown in green text.

**Some synonyms of some proteins are not shown

‡The peptide sequence and phosphorylation site(s) were verified in other experiments.

†The peptide sequence and pS site was verified in other experiments, but the Y was also phosphorylated; the doubly-phosphorylated peptide is shown 19 lines below.