

**Table 1. Phosphopeptides list from HT-29 cells**

(s) scansite search with high stringency, (s/m) scansite search with medium stringency, (s/l) scansite search with low stringency <sup>1</sup>  
Protein name (NCBI;Swiss Prot-trEMBL)

\* means phosphorylation site without conclusive evidence from manual confirmation.

protein	peptides	score	phosphosites	Potential kinases (scansite and Expasy)
<b>structural proteins</b>				
cytokeratin 8 (gi 4504919; P05787)	ISSpSFSR	39	S36	(s) PKC delta GS RISSSSFSRV GSS in general:during mitosis; PKCε
	AFSSRpSYTSGPGSR	34	S23 <sup>2</sup>	
	AFpSpSRsYTS <sup>2</sup> GPGSR	32	S20, S21	
	AFpSSRpSYTSGPGSR	32	S20, S23	
	VGpSSNFR	41	S43	
keratin 19 (gi 24234699; P08727)	FGPGVAFRAPpSIHGGSGGR	28	S35	
	GVpSVSSAR	23	S46	
keratin 20 (gi 27894337; P35900)	LGTTTpSVYGGAGGR	39	S34	(s/l) PKC delta QRLGTTTPSVYGGAGG
ladinin 1 (gi 20070205; O00515)	GVPEKpSPVLEK	22	S177	(s/l) GSK 3 kinase / Cdk 5 kinase /Cdc 2 kinase KKGVP <sup>2</sup> EKSPVLEKSS
Lamin A/C (gi 5031875; P02545)	KLEpSTESR	34	S423	During interphase During interphase cdc2-kinase; regulates mitotic lamin A disassembly
	AS*SHSpSQTQGGGSVTKKR	65	S407 <sup>3</sup>	
	AS*SHSSQpTQGGGSVTK	46	T409 <sup>3</sup>	
	GRASSHpSQTQGGGSVTK	47	S406, S407	
	LRLpSPpSPTSQR	30	S390, S392 <sup>3</sup>	
lamin B1 (gi 5031877; P20700)	LKLpSPpSPSSR	29	S391, S393	
matrin 3 (gi 106964; P43243)	SYpSPDGKESPSDKK	29	S596	(s) PKA KD KSRKR <sup>2</sup> SYSPDGKE
	SYpSPDGKEpSPDKKSK	21	S596, S602	

myosin, heavy polypeptide 9, non-muscle (gi 12667788)	KGAGDGpSDEEVDGKADGAEAKPAE	49	S1943	
myosin 18A isoform a (gi 28416946; Q92614)	YSHSYLpSDpSDTEAK	27	S2041, S2043	
restin (Reed-Steinberg cell-expressed intermediate filament-associated protein); cytoplasmic linker (gi 4506751; P30622)	TASESISNLpSEAGS*IKKGER	25	S200	
Ser/Arg-related nuclear matrix protein (gi 5032119; O60585)	RYpSPpSPPPKRR HRPpSPPApTPPPK KAApSPpSPQSVR KVLEpSEpSEEDKGGK KPPApSPVQ*SQSPSTNWS*PAVPVKK QKETpSPR	29 31 40 23 30 22	S605, S607 S402, T406 S738, S740 S463, S465 S769 S541	
type I cytoskeletal 18 (gi 37539666; P05783)	pSTFSTNYR SLGSVQAPSYGARPVSSAApSVYAGAGSGSR	39 39	S7 S34	
<b>transcription-related</b>				
autoantigen La (gi 10835067; P05455)	FApSDDEHDEHDENGATGPVKR	21	S366 <sup>2</sup>	CK2
Bcl-2-associated transcription factor (gi 7661958; Q9NYF8)	STFEEpSPLRIK IDIpSPSTLRK	36 21	S531 S560	
calcium-regulated heat-stable protein (24kD) (gi 7656995; Q9BQ53)	TFpSATVR	28	S52	(s) Akt TRRTRT <u>F</u> SATVRASQ
general transcription factor IIF, polypeptide 1 (gi 4504197; Q9BWN0)	IHDLEDDLEMpSpSDApSDASGEEGGRVPK	39	S217, S218, S221	
general transcription factor IIF, polypeptide 2 (gi 4758488)	HYQGEEKpSD	20	S248	
glucocorticoid receptor DNA binding factor 1 isoform a (gi 25121938; Q9NRY4)	KVpSIVSKPVL <sup>Y</sup> RTR	20	S1150	

high mobility group AT-hook 1 isoform b (gi 4504433; P17096)	KLEKEEEEGISQEpSpSEEEQ GRPKKLEKEEEEGIpSQES*S*EEEQ KLEKEEEEGIpSQEpSpSEEEQ	57 42 31	S91, S92 S88 S88, S91, S92	(s) ATM kinase KEEEEGI <u>S</u> QESSEEE (s) DNA pk KEEEEGI <u>S</u> QESSEEE
LOMP protein (gi 4929268; Q9UQM5)	RGEpSLDNLDSPR SAPSVNKEPVSLPGIMR	28 22	S1176 S1159	
nucleolin (gi 4885511; P19338)	KVVVpSPTKK  AIRLELQGPRGpSPNAR	46 20	S67 S562	(s/m) Cdk 5 kinase/ Cdc 2 kinaseC SAKKVVVV <u>S</u> PTKKVAV Cdc2 kinase in mitosis or casein kinase II <sup>2</sup> (s) Cdc2 ELQGPRG <u>S</u> PNARSQP
PC4 and SFRS1 interacting protein 2 (gi 16945970; O75475)	TVpTPAKAVpTTTPGKK TGVTS*TSdpSEEEGDQQEGEKRR	26 36	T99, T105 S275	
SKI-interacting protein; nuclear receptor coactivator, 62-kD; BX42, Drosophila, homolog of (gi 6912676; Q13573)	GPPpSPPAPVMHpsPSR	24	S224, S232	(s) Erk1 kinase KIPRGPP <u>S</u> PPAPVMH
TBP-associated factor 2 (gi 4507347)	SIRpSPpSLpSD	24	S1194, S1196, S1198	
thyroid hormone receptor- associated protein, 150 kDa subunit (gi 4827040; Q9Y2W1)	ASAVSELpSPR	32	S243	(s/m) Cdk 5 kinase ASAVSEL <u>S</u> PRERSPA
Transcription elongation factor A (SII), 1 (gi 5803191; P23193)	KKEPAITSQNpSPEAR	23	S100	
tripartite motif-containing 28 protein 1 (gi 5032179; Q6JDF9)	SRpSGEGEVSGLMR	22	S473	
5'-3' exoribonuclease 2 (gi 18860916; Q9H0D6)	KAEDS*DpSEPEPEDNVR	25	S501	(s) casein kinase 2 RKAEDSD <u>S</u> EPEPEDN
<b>mRNA processing related</b>				

heterogeneous nuclear ribonucleoprotein K isoform a (gi 37550496; Q07244)	RDYDDMpSPR	34	S279  S284		
heterogeneous nuclear ribonucleoprotein K isoform b (gi 14165435)					
splicing coactivator subunit SRm300 (gi 19923466; Q9UHA8)	SGpSpSPEVKDKPR THTTALAGRpSpSPASGR VKAlIpSPR pSRSPpSpSPELNKK  SSGHpSSSELpSPDAVEK NHpSGS*RT*PPVALNSSR AQpSGS*DpSpSPEPKAPAPR	33 26 27 21  26 22 29	S1600, S1601 S295, S297 S914 S1497, S1501, S1502 S1382, S1387 S2100 S1616, S1620, S1621		
splicing factor 3b, subunit 1, 155kDa (gi 6912654; O75533)	WDEpTPGR	27	T235		(s/m) Cdc2 kinase PSLRWDETPGRAKGS
Splicing factor, arginine/serine-rich 7 (gi 3929380; Q16629)	SGpSIKGSR	31	S183		(s) Akt LRRSRSGSIKGSRYF RS domain <sup>2</sup>
splicing factor, arginine/serine-rich 9 (gi 4506903; Q13242)	GpSPHYFSFRPY	35	S211		RS domain <sup>2</sup>
splicing factor YT521-B (gi 21166355; Q96MU7)	RAKpSpTPDGSER	20	S95, T97		
<b>translation-related</b>					

DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 (gi 13787209; Q9NR30)	KKEEPSQNDIpSPK	33	S89	(s/m) Cdk5 kinase EPSQNDI <u>S</u> PKTKSLR
DEAD (Asp-Glu-Ala-Asp) box polypeptide 23 (gi 37542960; Q9BUQ8)	KDHDApSPSKEER	21	S14	
dyskerin (gi 4503337; O60832)	KRES*EpSEpSDETPPAAPQLIK	24	S66, S68	(s) casein kinase 2 KRKRESE <u>S</u> ESEDETPP
eukaryotic translation elongation factor 2 (gi 4503483)	AGETRFpTDTR	24	T57	
eukaryotic translation initiation factor 3, subunit 8 (gi 4503525; Q99613)	RGGYRQQQpSQTAY	27	S909	
eukaryotic translation initiation factor 4B (gi 4503533; P23588)	SRTGpSESpSQTGTSTTSSR	53	S422, S425	(s) Akt RERSRTG <u>S</u> ESSQTGT
nucleophosmin 1 (gi 10835063; P06748)	SQSSDTEQQpSPTSGGGK	31	S505	(s/l) PKC delta SSDTEQQ <u>S</u> PTSGGGK
ribosomal protein P2 (gi 4506671; P05387)	SIRDpTPAK	24	T199 <sup>2</sup>	(s/l) Cdk 5 kinase /cdc 2 kinase VKKSIRDTPAKNAQK
ribosomal protein S6 (gi 17158044; P10660)	KEEpSEEpSDDDDMGFGLFD	43	S102,S105 <sup>2,4</sup>	GRK2; regulates activity <sup>2,4</sup>
ribosomal protein S6 kinase (gi 20149547; Q15418)	RLpSpSLRAS*TSKSESSQK	21	S235,S236 <sup>2</sup>	Phosphorylation involved in cell growth <sup>2</sup>
translation initiation factor IF2 (gi 15451892)	KLpPSTTL	21	S732	
tryptophanyl-tRNA synthetase (gi 47419914; P23381)	VEMYs*GpSDDDDDDFNKLPK SRINpSpSGEpSGDEpSDEFLLQSR	21 50	S137 S182, S183, S186, S190	
	KLpSFDFQ	30	S467	
<b>chromosome-related</b>				

apoptotic chromatin condensation inducer in the nucleus (gi 7662238; Q9UUV3)	SKpSPpSPRLTEDR RLpSQPESAEK	20 27	S386, S388 S710		
chromobox homolog 3; heterochromatin protein HP1 gamma (gi 15082258; Q13185)	RKpSLpSDSEDDDSKSK	34	S93, S95		<b>80</b> KRKSLSDSEDDDSK <b>S94</b> phosphorylated by PIM1; may be responsible for some of the alterations in chromatin organization and nuclear structure which occur at various times during the cell cycle <sup>5</sup> (s) PKA KDGTKRK <b>SL</b> SDSESD (s) PKC $\epsilon$ KDGTKRK <b>SL</b> SDSESD
chromodomain helicase DNA binding protein 1 (gi 4557447; O14646)	QIDpSpSEEDDDDEEDYDNDKR	38	S215, S216		
HIRA interacting protein 3 (gi 21396500; Q9BW71)	KQAREE <p>SEEpSEAE</p> PVQR	24	S196, S199		(s) casein kinase 2 RKQAREE <b>SE</b> SEAEAP
H1 histone family, member 5 (gi 488538; P16401)	SEpTAPAEtATPAPVEKpSPAK SETAPAEtATPAPVEKpSPAK	31 34	T3, S17 S17		(s) Cdk 5 kinase/Cdc 2 kinase TPAPVEK <b>SP</b> AKKKAT
H2A histone family, member X; H2AX histone (gi 4504253; P16104)	KpTSAT*VGPK	25	T120		(s) PKC mu AVLLPKK <b>TS</b> ATVGPK
meiotic recombination 11 homolog A isoform 2 (gi 24234690)	GVDfEpSS*EDDDDDPFMNTSSLRR	48	S660		
minichromosome maintenance protein 2 (gi 33356547; Q8C2R0)	GNDPLTpSPGR GLLYDpSDEEDEERPAR	30 24	S26 S139		mitosis-specific protein kinases <sup>6</sup>
SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1 (gi 21237802; Q92922)	KHS*PSPPPPPpTPTESR KHpSPpSPPPPTPTESR	21 33	T328 S321, S323		(s/m) PKA/Akt/Erk1 NARKRK <b>H</b> SPSPPPPT

SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c2 isoform a (gi 21237805; Q8TAQ2)	KRpSPpSPSPTPEAK	29	S302, S304	(s/m) Akt/GSK 3 kinase/Erk 1 KKRKRSPP <u>S</u> PSPTP <u>E</u> A
tankyrase 1-binding protein of 182 kDa (gi 2027021; Q9C0C2)	NRpSAEEGELAESK	46	S1666	(s/m) Akt KLRPRNR <u>S</u> AEEGELA
thymopoietin (gi 4507555; P42166)	GPPDFpSS*DEEREPTPVLGSGAAAAAGR	38	S66	
<b>Signaling pathway-related</b>				

apoptosis inhibitor 5 1(gi 5729730; Q9Y4J7)	ASEDTTSGpSPPKK	20	S464	(s) casein kinase 1/Cdc2 kinase/ Cdk 5 kinase SED <u>T</u> TSG <u>S</u> PPKKSSA
AP2 associated kinase 1 (gi 29570780)	VGSLpTPPSS*PKTQR	25	T620	
catenin (cadherin-associated protein), delta 1 (gi 10835010; O60716)	GSLApSLDpSLR	27	S349, S352	
cell division cycle 2 protein isoform 1 (gi 4502709; P06493)	IGEGpTYGVVYKGR IGEGpTpYGVVYKGR	48 41	T14 T14, Y15 <sup>2</sup>	Inactivates the enzyme before mitosis Inactivates the enzyme before mitosis Y15: a key role in the radiation-induced G(2) delay (s) Lck kinase EKIGEGTYGVVYKGR
epidermal growth factor receptor pathway substrate 8- like protein 2 (gi 21264616; Q99K30)	GGDpSPEAK	28	S217	
KH domain containing, RNA binding, signal transduction associated 1 (gi 5730027; Q07666)	SGpSMDPSGAHPSVR	39	S20	(s) Akt RSSGRSG <u>S</u> MDPSGAH
G protein-coupled receptor kinase-interactor 1 (gi  41393573; Q9Y2X7)	HGSGADS*DpYENTQSGDPLLLEGKR	23	Y598	(s/l) casein kinase 2 RHGSGAD <u>S</u> DYENTQS
hepatoma-derived growth factor (gi 4758516; P51858)	RAGDLLEDpSPKRPK	33	S165	(s/m) Cdc2 kinase AGDLLED <u>S</u> PKRPKEA
IAP-associated factor VIAF1 (gi 51492730; Q9H2J4)	RDpSDpSEGID	21	S271, S273	
mitogen-activated protein kinase 14 isoform 1 (gi 4503069; Q16539)	HTDDEMpTGpYVATR	31	T179, Y181 <sup>2</sup>	
MLL septin-like fusion (gi 5729933; Q9Y5W4)	HVDSLQRpSPK	26	S67	
nuclear ubiquitous casein and cyclin-dependent kinase substrate	SGKNpSQEDpSEDSKDVK SGKNSQEDpSEDpSEDKDVK	26 21	S50, S54 S54, S58	(s) DNA PK KRRSGKN <u>S</u> QEDSEDS (s) Casein kinase 2 GKNSQED <u>S</u> EDSEDKD



(gi 12232387; Q9H1E3)					
PDGFA associated protein 1 (gi 7657441; Q13442)	KSLDpSDEpSEDEDDYQQKR	45	S60, S63	(s) casein kinase 2 KSLDSEDE <u>SE</u> DEDDY	
protein kinase, AMP- activated, alpha 1 catalytic subunit (gi 40254831; Q13131)	SGpSVSNYR	32	S487		
protein kinase C, D2 type (gi 19923468; Q9BZL6)	RLpSpSTSLASGHSVR	40	S197, S198	(s) Akt GARKRRRL <u>S</u> STSLASG	
SH3-domain kinase binding protein 1 (gi 13994242; Q96B97)	ANpSPSLFGTEGKPK	20	S587	(s/l) calmodulin dependent kinase 2 TAGHRAN <u>S</u> PSLFGTE	
stathmin 1 (gi 5031851; Q96CE4)	ASGQAFELILpSPR	26	S25	(s/m) Cdk 5 kinase / Cdc 2 kinase QAFELIL <u>S</u> PRSKESV	
TBC1 domain family, member 4 (gi 7662198; O60343)	GRLGpSVDSFER	23	S588		
tumor protein p53 (gi 8400738; P04637)	HKKLMFKTEGPDpSD	27	S392 <sup>7,8</sup>	Casein kinase II; binding to 5.8 rRNA <sup>7,8</sup>	
<b>cell-cell structure</b>					
cingulin (gi 16262452; Q9P2M7)	SHS*QApSLAGPGVPDPSNR	31	S134 S131*	(s/m) PKC delta LRSHSQAS <u>L</u> AGPGPV (s/m) PKC mu GKLLRSH <u>S</u> QASLAGP	
plectin 1 (gi 47607492; Q15149)	SSpSVGpSSSSYPISPASVR RApSFAEK	31 22	S4276, S4279 S1611		
tight junction protein 2 (zona occludens 2) (gi 4759342; Q9UDY2)	GRpSIDQDYER SFpSPEER SRpSWEDpSPER	30 23 22	S244 S415 S170, S174	(s) Akt RDRSRGR <u>S</u> IDQDYER (s/l) Cdk 5 kinase IESNRSF <u>S</u> PEERRHQ (s) Akt SHGGRSR <u>S</u> WEDSPER	
<b>Enzymes</b>					
CTP synthase (gi 4503133; P17812)	SGSSpSPDSEITELKFP SINHD	29	S573	(s/m) Akt TYSDRSG <u>S</u> SSSPDSEI	
glycogen phosphorylase (gi 5032009; P11217)	KQIpSVR	24	S14 <sup>2</sup>		
LISCH protein (gi 45505163; Q9UQL3)	NLALS*REpSLVV	24	S627		

ubiquitin-protein ligase (gi 15147337; O95071)	RSpSLSR	20	S287	(s) PKA YPSFRRS <u>S</u> LSRLGSS
<b>Others</b>				
ATP-binding cassette, subfamily F, member 1 (gi 10947135; Q8TAF0)	LKKLpSVPpTpSDDEDEVPAKPR	28	S105, T108, S109	
calnexin (gi 10716563; P27824)	AEDEILNRpSPR	22	S583	
cellular senescence inhibited gene protein (gi 46195723; Q8IWS7)	FFTpTPSK ApTNESEDEIPQLVPIGKK	21 21	T465 T358	(s/m) Cdk 5 kinase / Cdc 2 kinase PEAKFFTTPSKSVRK
CGI-48 protein (gi 7705765; Q9Y5J1)	VQEHEDS*GDpSEVENEAK	53	S100	
epiplakin 1 (gi 13876386; P58107)	QVpSASELHTSGILGPETLR	30	S3225	(s/l) Akt RGLRRQV <u>S</u> ASELHTS
epithelial protein lost in neoplasm beta (gi 7705373; Q6J4T4)	ETPHpSPGVEDAPIAK EpTPHSPGVEDAPIAK	25 23	S490 T487	
heat shock 105kD (gi 42544159; Q92598)	IEpSPKLER	28	S809	

hepatocellular carcinoma-associated antigen 59 (gi 7706557; Q9NZ63)	RGDS*EpSEEDSEQDSEEV	42	S17 S15*	(s) casein kinase 2 RRRGDSESEDEQDS (s) clk 2 kinase FRRRRGDSESEDEQ
Histidine-rich membrane protein Ke4 (gi 12643344; Q92504)	EKQpSpSEEEEEKETR	25	S275, S276	(s) casein kinase 2 STKEKQSEEEEEKET
HLA-B associated transcript-2 isoform a (gi 18375626; Q5TM26)	DYpSYER	23	S1014	
KARP-1-binding protein (gi 7662142; Q5SW78)	LGpSLSARS*DSEATISR	32	S1160	
neurofibromin (gi 4557793; P21359)	SAGpSFKR	35	S2829	cAMP-dependent protein kinase <sup>9</sup> (s) PKC $\alpha\beta\gamma$ QKQRSAGSEFKRNSIK
protein translocation complex beta (gi 5803165)	PGPTPSGTTNVGSSGRpSPSK	34	S17	
RNA binding motif protein, X chromosome (gi 4504451; P38159)	DVYLpSPR	28	S208	(s/l) Cdk 5 kinase SRRDVYLSPRDDDGYS
RNA binding motif protein 8A (gi 4826972; Q9Y5S9)	GFpGpSEEGSR	24	S42	
sarcoma antigen NY-SAR-27 (gi 8922358; Q7Z6E2)	RRpSQpSIEQESQEK	32	S527, S529	
sequestosome 1 (gi 4505571; Q13501)	SRLpTPVpSPESSTEEK	23	T269, S272	autophosphorylation or by MBP kinase <sup>10</sup>
similar to Dnajc5 protein (gi 37552868; Q9H3Z4)	SLpSTSGESLYHVLGLDK	27	S10	(s/m) Akt DQRQSLSTSGESLY
spectrin, beta, non-erythrocytic 1 isoform 1 (gi 4507195; Q01082)	TSSKES*PIpSpSPTSDRKAK RPPpSPEPSTK	26 23	S2165 S2102	(s) GSK 3 kinase RTSSKESSPIPSPTS (s) GSK 3 kinase ERKRRPPSPPEPSTKV
ubiquitin associated protein 2-like (gi 40254861; Q5VU75)	RYPSPSIS*SSPQKDLTQAK RYPSPSISpSPQKDLTQAK	22 20	S605 S605, S609	
up-regulated by BCG-CWS (gi 8272376)	EK VpTGRK	23	T89	
<b>Unknown proteins</b>				
chromosome 9 open reading frame 88 (gi 51093863;	AAPEApSSPPApSPLQHLLPGK	33	S691, S696	

Q9NX58)					
chromosome 13 open reading frame 8 (gi 41281612; Q96JM3)	GGpSPDLWK	29	S476		
DKFZP564C186 protein (gi 7661606)	EAAARS*PDKPGGpSPSASR	28	S56		
hypothetical protein FLJ10006 (gi 24308177)	RKAAVLpSDpSEDEEKASAK	39	S398, S400		
hypothetical protein FLJ10359 (gi 24432054; Q7SY48)	DpSSPKVR	20	S829		
hypothetical protein FLJ20425 (gi 8923398)	KDpSASEEEAR	39	S258		(s) PKC epsilon KKKQRKD <u>S</u> ASEEEAR
hypothetical protein LOC126353 (gi 27735067)	ALpSSDpSILSPAPDAR HLpSESSGKPLSTK	35 37	S394, S397 S471		
KIAA0415 gene product (gi 41222014; Q8N3X2)	pSAPApSPTHPGLMSPR	28	S627, S631		
KIAA0553 protein (gi 41222801)	SHDpSDDpSDYASSKHR	21	S911, S914		
PREDICTED: KIAA0794 protein (gi 37550247; Q86X20)	SEpSLIDASEDpSQLEAAIR	32	S280, S288		(s/l) PKC delta/calmodulin dependent kinase 2/PKA/Akt/Clk kinase/ casein kinase 2 KKCARSE <u>S</u> LIDASED (s/l) DNA PK/casein kinase 2 LIDASED <u>S</u> QLEAAIR
Similar to RIKEN cDNA 3110023B02 (gi 40548332; Q8R0K4)	VQAGPGpSPR	27	S19		

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