

Table S1.

	Name	KEGG	Protein IDs	Peptide	MS scan IDs	p-adj	Enrichment
MAPK module	MEK1	K04369	XP_038079443.1, PMI_017007	NLTLPVKPDDSAPSNAVNNS*ASMAAIAK	51401	0.0444	-1.5136
	p90RSK	K04373	XP_038049299.1, PMI_022459	T*PKDSPGLPPSASAHQLFR	44589	0.0165	-1.6801
cdk1-Cyclin B module	PPP2R2	K04354	XP_038070796.1, PMI_020469	KRPLSTSDGT*AK	22877	0.0180	-1.5714
	PPP2R2	K04354	XP_038070796.1, PMI_020469	RPLS*TSDBGTAKK	23882	0.0040	-1.8997
	MYT1	K06633	PMI_008112	AVSFQSEPSVLQS*PHYNEK	41151	0.0109	-1.8548
	APC3	K03350	PMI_002534, XP_038047876.1, PMI_014580	LFS*NNSVKENATK	45583	0.0003	-2.4236
	APC3	K03350	PMI_002534, XP_038047876.1, PMI_014580	LFS*NNS*VK	49005, 45078	0.0003	-2.4422
	CDC25C	K05866	XP_038070722.1	NRS*ETIMWEACNDKENVDIKNK	42276	0.0262	-1.4918
Translational activation module	ARPP19		XP_038072705.1, PMI_013584	KQS*TEISK	23112	0.0004	-2.3112
	LARP1	K18757	PMI_014589	EGRES*VDSPR	8801, 7715	0.0000	-3.9525
	CPEB	K02602	XP_038045408.1, PMI_005839, PMI_001490	HTS*NNPGRPEK	10213	0.0000	-3.3840
	CPEB	K02602	XP_038045408.1, PMI_005839, PMI_001490	YPS*QEIQQDYEK	37277	0.0035	-1.8924
	EIF4ENIF1	K18728	PMI_009884	KS*EPDGESGEKEEGGDK	21052, 19560	0.0000	-2.9642
	EIF3A	K03254	PMI_009181	S*AGIKDEEDEPR	22666	0.0140	-1.6728
	EIF4B	K03258	XP_038044282.1	SNEDDSAFHKKEPLSPTSPAPKS*PK	36461	0.0440	1.5003
	EIF4G1	K03260	XP_038075416.1	VIQRVS*QTIK	36609	0.0444	-1.4466
	GLD2/PAP	K14376	XP_038074837.1, PMI_002048	LPS*GELPDMSSPMPK	53218, 49713, 47545	0.0111	-1.7180
	PPM1G	K17499	PMI_005456, PMI_016115	KAS*ESTPTDDDDSKR	16212, 19904, 17237	0.0011	-2.2632
Microtubule module	CLIP1	K10421	XP_038055294.1, PMI_010288	KTS*TSTVNSETSQR	14508	0.0001	-2.6735
	CLIP1	K10421	XP_038055294.1, PMI_010288	S*VDLTGNKPSLTNK	42275	0.0232	-1.5252
	XMAP215	K16803	XP_038047612.1, PMI_009212	SNRLS*QGSMSEPVNGSAEQER	22932	0.0107	-1.7741
	GTSE1	K10129	XP_038054192.1	KES*DESQGSQSQESK	15744	0.0003	-2.4737
	GTSE1	K10129	XP_038054192.1	LPSTPST*PVHQDKK	33139, 34006	0.0038	-1.8905
	GTSE1	K10129	XP_038054192.1	LLSSDQS*ATKPVGR	38688	0.0113	-2.0316
	POC1	K16482	XP_038054221.1, PMI_022968, PMI_011690	S*TGADINAHSEPK	21180	0.0022	-2.0017
	PCM1	K16537	XP_038056285.1, XP_038056290.1	LLS*VQQQLR	46891	0.0011	-2.1149
	CEP44	K16761	XP_038055484.1	HAS*GSLVR	15956	0.0211	-1.5896
	CEP44	K16761	XP_038055484.1	RVS*VSVNELR	34019	0.0482	-1.3946
	CEP192	K16725	XP_038068323.1	RPS*FGTGHKT*PEGR	27259	0.0172	-1.5904
	KIF21	K10395	XP_038053367.1, XP_038053368.1	LHSHSDRENES*ADEKEDAAEK	18719	0.0460	1.5649
	KIF14	K17915	PMI_006555, XP_038045418.1	IDS*PMT*PLKR	40449	0.0344	-1.4586
	FRYL		XP_038055332.1, PMI_004592, PMI_010187	RS*S*SGGTLEK	17295	0.0113	-1.6849
Cortical contraction module	MYPT1	K06270	XP_038073240.1, XP_038073245.1	TGS*ASTDTSSTSVR	12906	0.0023	-1.9539
	MRCK	K16307	XP_038071518.1	RGGGS*VGAENNEVK	17206	0.0032	-1.9099
	MRCK	K16307	XP_038071518.1	RLES*EKNTLSHR	21479	0.0278	-1.5109
	mDia2	K16688	XP_038063096.1, PMI_026018, PMI_028305	LQSRPS*VEEEEAHQEYER	26257	0.0146	-1.6930
	MYO9	K10360	XP_038073351.1, PMI_008384	KQS*DPQQAEEALGLPSDKPGK	42738	0.0337	-1.5479
	BCR	K08878	XP_038059104.1	LS*TPDVEILNVR	53153	0.0480	-1.4272