Table S2: Phosphorylation changes following 15 minute of arginine deprivation in *L. donovani* promastigotes

Accession number	**Description**	**Phosphorylated tryptic peptide**	**Repeat 1**	**Repeat 2**
			Log$_2$ fold from non-starved	
LinJ.27.1700	protein kinase-like protein	G**p**SPDVDDKFVDVGDATK	6.67	1.68
LinJ.24.0160	hypothetical protein, conserved	GGEEEGTNFIVD**pS**DDEDEAVAAIR	6.6	1.9
LinJ.15.0810	protein kinase, putative	APPVSYNEPGHEQLD**pS**R	6.55	1.73
LinJ.13.1330	hypothetical protein, conserved	LSYSAATAE**pS**PSK	5.48	1.55
LinJ.35.2530	hypothetical protein, conserved	AG**pSpS**IADTPARPWPEDAGLSLK	5.05	2.06
LinJ.35.4450	hypothetical protein, conserved	APIAD**pS**DS**p**DDDEPVR	4.64	3.31
LinJ.08.0630	hypothetical protein, conserved	ASS**pT**EGSPVAAGTIPAVAAK	4.28	2.67
LinJ.30.0520	hypothetical protein, conserved	FA**pS**PDKLETVTPTK	4.25	0.95
LinJ.22.1070	hypothetical protein, conserved	**pS**LDGAAGDAEECADAASASTGFPR	3.34	1.36
LinJ.09.0840	hypothetical protein, conserved	**pS**PLATPTAVFSPSNSK	2.76	6.74
LinJ.34.3220	DNA topoisomerase IB, large subunit	VV**pS**DDDDVPLAALR	2.08	1.62
LinJ.27.1100	hypothetical protein, conserved	V**pS**NGQTIMQLQDELETLHR	2.02	1.12
LinJ.31.0450	cytoskeleton-associated protein CAP5.5, putative,	VPQPEAQ**pS**AKV**pSpS**ETA**pS**VEEQR	1.84	1.75
LinJ.35.3150	ATP-dependent RNA helicase, putative	GGG**pT**GNEDDDYEDGGYDAYR	1.77	1.92
LinJ.35.4450	hypothetical protein, conserved	APIAD**pS**D**pS**DDDEPVRKPVLAK	1.66	1.29
LinJ.36.5290	hypothetical protein, conserved	VQVMTEDMNEDG**pS**NDER	1.63	1.48
LinJ.36.2260	DEAD box RNA helicase, putative	FDpY**SpS**DDDDSARPAK	1.61	1.29
LinJ.01.0790	eukaryotic initiation factor 4a, putative	FCETFVGG**pT**R	1.59	1.88
LinJ.36.6110	hypothetical protein, conserved	KC**pS**APELPPR	1.57	3.48
LinJ.35.0920	hypothetical protein, conserved	LLNNENADDLL**pSpS**DDEEPK	1.48	1.91
LinJ.25.1100	hypothetical protein, conserved	F**pS**IEGNEPEQKPLVPTSHLR	1.39	2.48

LinJ.13.0700	hypothetical protein, conserved	GDNLLHDSDQTPCDAAAAGSSIVANN**pT**PR	1.37	1.23
LinJ.11.1110	60S ribosomal protein L28, putative	AVAAVRPDLADV**pS**FRR	1.36	1.19
LinJ.14.1300	hypothetical protein, conserved	AV**pS**VVDGPHGPHAR	1.34	2.14
LinJ.35.2240	RNA-binding protein, putative	H**pS**HG**pS**NDEIQNGGDTDNFR	1.29	3.4
LinJ.31.2440	hypothetical protein, conserved	GNTD**pS**PDTAELAAAALQALSPQGVLHTDSR	1.26	1.73
LinJ.35.2610	hypothetical protein, conserved	TNTSATVT**pS**EGNSNSEK	1.24	0.77
LinJ.08.1040	Phosphoribosylpyrophosphate synthetase	MTEVHAMSGTV**pS**PHTEK	1.22	0.99
LinJ.35.4450	hypothetical protein, conserved	APIAD**pS**D**pS**DDDEPVRKPVAK	1.22	1.1
LinJ.35.4060	protein kinase A catalytic subunit isoform 1	SPGDTSNFEKYPD**pS**PVDR	1.19	1.13
LinJ.31.2700	serine/threonine protein phosphatase pp1(5.9), putative	DAN**pS**PLSSFAR	1.16	1.68
LinJ.27.1630	hypothetical protein, conserved	NLP**pS**VDDGLYQK	1.14	1.46
LinJ.04.0060	hypothetical protein, conserved	GNEEEERNE**pT**PRDPCK	1.01	1.18
LinJ.01.0480	hypothetical protein, conserved	AVAESAPS**pS**PTTGK	0.98	0.9
LinJ.33.2570	hypothetical protein, conserved	Q**pS**ATATTAAPGEDVDPMEAK	0.97	0.95
LinJ.33.2570	hypothetical protein, conserved	Q**pS**ATATTAAPGEDVDPMEAK	0.97	0.89
LinJ.36.2490	tyrosine aminotransferase	AGNSTG**pS**LTEER	0.94	1.25
LinJ.36.2490	tyrosine aminotransferase	AGN**pS**TGSLTEER	0.94	1.1
LinJ.31.0090	hypothetical protein, conserved	**pS**AEKAPEKPVADKEAEDAEK	0.68	0.78
LinJ.11.0150	hypothetical protein, conserved	IQDVNEDSGLPFDVE**pS**AHREGD**pS**PAR	0.55	1.3
LinJ.34.0500	calcium channel protein, putative,ion transporter, putative	LYRQP**pS**LPATEMGF**pS**VVGTPQQR	-0.81	-1.94
LinJ.13.1350	MCAK-like kinesin, putative	ERVAEQPRPM**pS**AQR	-0.85	-3.31
LinJ.20.1130	hypothetical protein, conserved	GYEG**pT**D**pS**EDGENHHHSAAGAGKK	-0.85	-0.63
LinJ.35.4450	hypothetical protein, conserved	RP**pS**PKP**pS**PK	-0.9	-3.01
LinJ.32.0370	hypothetical protein, conserved	SAAAGAG**pS**AKRPAGLSPGAAAALAADEK	-0.92	-0.93
LinJ.36.1560	hypothetical protein, conserved	AGKQH**pS**DEEVELSVK	-0.94	-1.71

LinJ.19.1140	hypothetical protein, conserved	GDD**pS**EDREH**pS**DVDDDGHKSGAAGTVADVAAAEK	-1.03	-1.78
LinJ.19.1140	hypothetical protein, conserved	GDDSEDREH**pS**DVDDDGHKSGAAGTVADVAAAEK	-1.03	-2.24
LinJ.13.0290	flagellar radial spoke protein, putative	ITSSTTIAPQGALEEPEPEQE**pT**EEDEDEDAEDGAQRKPK	-1.05	-6.65
LinJ.19.1140	hypothetical protein, conserved	QRHT**pS**PSPYEQVPK	-1.2	-1.94
LinJ.29.1510	RNA binding protein, putative	D**pT**PLLLPR	-1.29	-1.22
LinJ.29.2540	hypothetical protein, unknown function	RYVPPSEEQDAEAAGQ**pS**ASR	-1.5	-4.52
LinJ.21.0920	hypothetical protein, conserved	AR**pS**QLAAVRDDLAQR	-1.52	-2.51
LinJ.32.2950	RNA-binding protein, putative	AR**pS**GEDDCDDEENTFNFKR	-1.59	-6.7
LinJ.30.0580	hypothetical protein, conserved	TTGRDPNED**pS**G**pS**DAEEVTEEELAARK	-1.61	-4.87
LinJ.25.1920	hypothetical protein, conserved	AKPVVPFDVSDYEDKKVQ**pS**PK	-1.65	-2.61
LinJ.33.3230	hypothetical protein, conserved	VG**pT**PVEPHRGALEGA**pS**PVDAR	-1.72	-3.42
LinJ.33.3230	hypothetical protein, conserved	VG**pT**PVEPHRGALEGASPVDAR	-1.72	-6.33
LinJ.12.0720	hypothetical protein, conserved	DLLAR**pT**PDVGDDDDEDLRR	-1.77	-1.63
LinJ.22.0060	hypothetical protein, conserved	ASVENARH**pS**AQNAVDNAK	-1.78	-1.29
LinJ.16.1550	kinesin, putative	SV**pS**GTG**pS**KGTFKR	-1.8	-1.37
LinJ.18.1510	P-type H^+-ATPase, putative	KYELDAAAFEDKPE**pS**H**pS**DAEMTPQKPQRR	-1.8	-2.79
LinJ.05.0140	nucleolar RNA helicase II, putative	ISAKA**pS**DHGNGVAVEK	-1.81	-2.03
LinJ.20.1670	hypothetical protein, conserved	EQRA**pS**PATVVAPEDKK	-1.86	-5.88
LinJ.34.0700	hypothetical protein, conserved	AAEPELADADGVEPSSGPTSSR**pS**PTGR	-1.88	-1.23
LinJ.36.6780	ubiquitin fusion degradation protein, putative	VAAG**pT**PPLKHLPGQSSSPSSGPK	-1.95	-6.75
LinJ.15.0300	hypothetical protein, conserved	AALPEALAVHAHDWD**pS**SSSGRGR	-1.97	-1.95
LinJ.11.0520	nucleobase transporter	YLADSG**pS**EKKAELLLETEHGDVTAR	-1.99	-1.34
LinJ.29.0280	hypothetical protein, conserved	LAAR**pS**PAK**pS**PAR	-2	-1.44
LinJ.17.1310	hypothetical protein, unknown function	VFNRDG**pS**AVAQR	-2.07	-2.77
LinJ.21.1850	hypothetical protein, conserved	MRVEQVLAHQM**pS**PSASGR	-2.09	-1.63

LinJ.36.6110	hypothetical protein, conserved	KRGG**pS**INGATALLR	-2.17	-6.7
LinJ.27.1220	hypothetical protein, conserved	HVF**pT**PEGCKYGDK	-2.27	-6.75
LinJ.29.0120	proteasome regulatory non-ATPase subunit, putative	EGNA**pS**EEAAAKPEEEKTAPLNHK	-2.36	-1.57
LinJ.34.3220	DNA topoisomerase IB, large subunit	ANKVV**pS**DDDDVPLAALRV	-2.39	-2.74
LinJ.04.0060	hypothetical protein, conserved	NE**pT**PRDPCKL**pT**DVSTDHYAK	-2.4	-6.67
LinJ.21.0920	hypothetical protein, conserved	AL**pS**AV**pS**EKNADFNDLRR	-2.65	-1.21
LinJ.05.0100	phosphoprotein phosphatase, putative	ETKGPV**pS**PR	-2.7	-2.6
LinJ.04.0060	hypothetical protein, conserved	VNIDNVERHPPVPEGVN**pT**PR	-2.87	-6.67
LinJ.34.1610	hypothetical protein, conserved	DVGDHREA**pS**VL**pT**AAGR	-2.93	-2.37
LinJ.14.0860	hypothetical protein, conserved	KASAGGDDDEAQ**pS**PESSPKETK	-3.05	-6.73
LinJ.36.6290	hypothetical protein, conserved	EAVEHA**pS**VQDTAAKEVEATK	-3.13	-3.63
LinJ.24.2180	hypothetical protein, conserved	AHKDYVVPELPEEPMWPLIGH**pT**P	-3.17	-1.52
LinJ.18.1510	P-type H -ATPase, putative	ALEGLREDTHVLNEST**pS**PVNAFSPK	-3.28	-1.74
LinJ.31.1230	hypothetical protein, conserved	AER**pS**PFGGGFECPEGYWVCSVEHGGCSK	-4.6	-4.91
LinJ.29.0280	hypothetical protein, conserved	SPAK**pS**PARAN**pS**PEPQPMTSASSTPR	-4.72	-6.38
LinJ.13.1350	MCAK-like kinesin, putative	VQAAIQAPALPARIP**pT**PLRR	-4.76	-4.32
LinJ.07.0620	hypothetical protein, conserved	KAAAAQRGDD**pT**D**pS**DNEAVNAQAR	-5.09	-3.61
LinJ.25.1120	hypothetical protein, conserved	**pS**NFG**pS**RVDLHNLGDLSR	-5.67	-2.07
LinJ.25.1120	hypothetical protein, conserved	SNFG**pS**RVDLHNLGDLSR	-5.67	-4.08
LinJ.32.0370	hypothetical protein, conserved	RPAGLSPGAAAALAADEKQA**pS**CAACH	-5.76	-6.45
LinJ.15.0060	hypothetical protein, conserved	KPL**pT**PPRLILAPPTALGQ**pS**PDVKPK	-5.95	-6.25
LinJ.13.0700	hypothetical protein, conserved	R**pS**RSPVAWTASIGGAAK	-6.51	-3.13
LinJ.13.0620	ubiquitin-like protein	RSDDSLQFEQDASQQPT**pS**PLLPPQAPVKAPAASAFDR	-6.7	-2.37
LinJ.35.0300	hypothetical protein, conserved	AP**pS**PDFLGSQLLAEYRGEAASLQLAK	-6.86	-5.37
LinJ.18.0590	RNA binding protein, putative	A**pS**PQQQAAVQSAPGKIEYLR	-6.94	-4.48

LinJ.23.1190	hypothetical protein, unknown function	NE**pS**DDMERQADEKR	-7.31	-7.1

Di methylation of tryptic peptides extracted from *L. donovani* promastigotes 15 min after arginine deprivation initiated. Phosphopeptide enrichment, mass spectrometry and data analysis is described in detail in Experimental Procedures