

Supplementary Table 1

T. gondii nuclear factors	Protein name	Protein accession number	Protein molecular weight (Da)	Number of unique peptides	Percentage sequence coverage	Peptide sequence	Nuclear localization using YFP tagging and/or specific antibodies	Slice number
Nuclear functions								
TgNF1	DEAD/DEAH box helicase, putative TGME49_036650 [Toxoplasma gondii ME49]	gi 211966692	59 951	3	7.5%	DMIGIAETGSGK SGGFGGGPNALPLGSRPY VTYLVMDADR	YES	21
TgNF2	pinin/SDK/memA/ domain-containing protein TGME49_086790 [Toxoplasma gondii ME49]	gi 211966969	36 006	9	40.9%	AMCTELDTSEPR ESSEVKAEGETVAAGEDER LEEVSTELSNK LEEVSTELSNKENELMR MFGALAGHLQR NMEVFIGTEAQPTLFWAPAK QLLMEQSTDLAHK RPPGELFSLDKPEASAPSLPQK VTYSFEGEEFQVEK	YES	16
TgNF3	46 kDa FK506-binding nuclear protein, putative TGME49_060440 [Toxoplasma gondii ME49]	gi 211962881	33 952	7	21.9%	ANASTFDVSNQVCSLK DKLEFTSLDLFLSTR TPLATLGQK TYSVCMLQK TYVQVIQEGK SALVDFLK SALVDFLKK	YES	16
	SWIB/MDM2 domain-containing protein TGME49_073930 [Toxoplasma gondii ME49]	gi 211963658	27 990	3	12.2%	DQVSMFELNK HIWDYIK MINADSTLRPLFQK		1
	Gbp1p protein, putative TGME49_062620 [Toxoplasma gondii ME49]	gi 211963026	31 742	4	17.1%	ADVFEFQGR ADVMTMPDGR GCGIVEYTNVEDAQK GVGTVLFSTPEGAQR		9
	Nucleolar protein family A, putative TGME49_072010 [Toxoplasma gondii ME49]	gi 211963509	20 913	2	16.2%	EEIGKVDEILGPINEMLFQSVR GTLSQQVPYFNQR		9
	RRM domain-containing protein TGME49_036540 [Toxoplasma gondii ME49]	gi 211966681	53 421	3	8.8%	QEMEFAAQGGDPR TTGEAYVQLPDPGLR TVMAAISGNTDSLDAQR		17-20

S1 (continued)

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	Centromere/microtubule binding protein, putative TGME49_014210 [Toxoplasma gondii ME49]	gj 211968418	56 726	10	28.9%	ALETLTGALFQRPPVVAVK DHLVTMHDVLDAMHVDSTR DSCVNAICYGAK EATSDPGLVASAGTEGGK KTDNYAIEPNSSSPIDTSK LCGSEETENGEATEAAVKKEEQPR LLDYDEQR MKEATSDPGLVASAGTEGGK RTIFPLELLLTGFPR TPASWLK		23-24
	Nucleolar phosphoprotein nucleolin, putative TGME49_091930 [Toxoplasma gondii ME49]	gj 211966199	73 100	3	6.1%	GIAFITFETEEAAQK GQAFIEFDSIESATK SLFEECGEIQEVR		28
	krr1 family, zinc finger-containing protein TGME49_019150 [Toxoplasma gondii ME49]	gj 211968343	99 371	2	4,0%	AFVDAAEVVEEGGAFLQK ALADDVAYAPLAEDEER		32
	sec63 domain-containing DEAD/DEAH box helicase, putative TGME49_023390 [Toxoplasma gondii ME49]	gj 211963689	247 618	19	12.7%	ALVAEQVQAFSQR ASNRYPVNVVEFQVSK DTSTGVAPAVHLGEPTEGESLAGR DVGDWLGVSSSGLFNHPSVR EILQSEAEAVK GATVLDADVTEIFFYKPTTQQTR GLFFFGNHYRPVPLK GTQVYLPEK IVAMANSLANAK LELAAFVQPLTR LFSLSSEFK LTAIDLLLQAAADDDPKK LVEQSQLILATPENWDFVSR LVGLSATLPNYDDVAVCLR LVIIDEIHLLHDAR MEQVYSGSFK WLLSESSLPISFK YENFELAK YNTMNEVTYEK		35

S1 (continued)

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Enzymatic and chaperone functions								
	Receptor for activated C kinase, RACK protein, putative TGME49_016880 [Toxoplasma gondii ME49]	gi 211968660	35 128	10	43.9%	DGVAMLWDVNEGK FSPSANKPLIVSCGWDK GVLEGHTDCVTAISTPSLK IWDLENK LWDLNAGVTVR LWNTLAECK NVLSEITPEK SFQGHTSDVNSVAFSPDNR SGAPWCTSLNWSHDGR VIVWTLNDNPDDSGSVGYAR		12-13
	Acid phosphatase, putative TGME49_019320 [Toxoplasma gondii ME49]	gi 211968360	46 589	3	11.6%	LAPADATEAAAAENHGYPK LVSGTTGETLYTHK WQSEFENVYSDANGALK		18
	NADP-specific glutamate dehydrogenase, putative TGME49_093180 [Toxoplasma gondii ME49]	gi 211967784	53 642	5	13.1%	AANAGGVAVSGLEMSQNAMR DVPAGDIGVGAR GFPLGQIQR IVAEGANMPTR VQYSSAAGPYK		18
	delta-aminolevulinic acid dehydratase, putative TGME49_053900 [Toxoplasma gondii ME49]	gi 211967109	71 357	3	6.2%	AGADAVATYYAK AGADMVCPDMMMDGR GYISEKDTVLEVLK		23

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	Heat shock protein 70, putative TGME49_073760 [Toxoplasma gondii ME49]	gj 211963641	72 276	19	35.7%	AIQEALDWLDK ATAGDTHLGGEDFDNR DAGTIAGLSVLR EIAEAYLGK EVESVCTPIITK FDDPSVQSDMK FEELCMDYFR IQQLITDFFNGK KFDDPSVQSDMK LVDFCVQDFK NDAVEIANDQGNR NPENTIFDAK NQLAEKEEFEAK SINPDEAVAYGAAVQAAILK SNQITITNDK SQTFTTYADNQPGVLIQVYEGER SVSEVVLVGGSTR TTPSYVAFTDTER VIAGPGDKPLIEVTYQGEK		25-26-30
	Heat shock protein 70, putative TGME49_111720 [Toxoplasma gondii ME49]	gj 211962068	73 236	18	33.4%	DFNNGKEPNR DKDLLPYEIIINK DVEAVCNPIISK ETAEQFLGK FEELNSDLFQK IINEPTAAAIAAYGLDK ITPSYVAFTDDDR ITPSYVAFTDDDRK LTPEEIER MKETAEQFLGK NALEGYLHSMK NAVVTVPAYFNDAQR NEATINPTNTLFDVK NGILSVSAVDK VDIIPNDQGNR VEVENLMEGVDFSETLTR VTEAQEWLNTNPDAEETR VYQQSGGPGAGGAAGGADDDYGGHDEL		26

S1 (continued)

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	p97 protein TGME49_075650 [Toxoplasma gondii ME49]	gi 211969256	101 140	12	21.8%	AHPGPLAATLADPEGWALYR FAEWLEQQQQNPVEK GNTTVPATYAEWMK GPLHEVLQDPEGWK GPLTTVLADPDGWDLYK GQPVPDITYEEWR IEATYEEWMAK KAHEGPLEQVLADPEGWK MVSEAPGVPSSPSTEVR NMVSSGASIEQTFEEWAQSK NVVDVPQSFEDFLQQPDQQK YEDWVSHPTVR		28
Unknown functions								
TgNF4	Hypothetical protein TGME49_005580 [Toxoplasma gondii ME49]	gi 211965453	51 203	11	26.6%	AFSAVIPESAK EKVPVYLTDLQTGAIR ETEEPEFDSAAMR GVPMVIYER KPEENANTEEKQEDGTGGATSPAVSNLK LEIPGFGLVSGGVDLVIK LHLFTMGR QEDGTGGATSPAVSNLK TRPPFAVDGR TVLVHLLR YGWCTAESR	YES	23-24
TgNF5	Hypothetical protein, conserved TGME49_021380 [Toxoplasma gondii ME49] ALBA 1	gi 211967631	27 211	7	25.1%	AVTLAEVLK AVTLAEVLKR DKEPIGSNEIR DPGYQAPIDESLVK EMKPEEITK LLTEQNMR VMNYVAYAAR	YES	13
TgNF6	Hypothetical protein, conserved TGME49_018820 [Toxoplasma gondii ME49] ALBA 2	gi 211968320	15 374	5	33.8%	DDKPACDEVIITGLGMATK TAIGAASLLQR TPEFAEQIK TPEFAEQIKK VETSYFSSTR	YES	2-4-5

S1 (continued)

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TgNF7	Hypothetical protein TGME49_048810 [Toxoplasma gondii ME49]	gi 211964891	54 264	9	22.5%	DMSATEYELVVLK	?	21
						EGHMVVGDESAVITLK		
						FVGPAEEEVER		
						IISDIPEAEK		
						MFQDWLSVYATADR		
						SPHVAVGLSGGER		
						TDMCLFVK		
						VDLPSSISQADWER		
						YRNPLAESSEEAK		
	Hypothetical protein TGME49_013050 [Toxoplasma gondii ME49]	gi 211968718	19 684	2	12.4%	EGVQSAANITEK VANLQQAMR		2
	Hypothetical protein, conserved TGME49_018820 [Toxoplasma gondii ME49]	gi 211968320	15 374	2	33.8%	TPEFAEQIK VETSYFSSTR		4
	Hypothetical protein TGME49_028630 [Toxoplasma gondii ME49]	gi 211964139	24 254	2	12.6%	GTLQATGASSPISSQK SSWGWSTPPDQWK		4
	Hypothetical protein TGME49_007440 [Toxoplasma gondii ME49]	gi 211967222	34 765	9	28.9%	EVMMIVMQR FEAGNMAMVTGGHNVGR GVPALITHDGR IAAPHHWMLDK ISNVFVIGK ISNVFVIGKGEK LRYALTYR TDQCYPAGFMDVISIEK VRTDQCYPAGFMDVISIEK		10
	Hypothetical protein, conserved TGME49_119850 [Toxoplasma gondii ME49]	gi 211967516	56 644	2	7.3%	GDYGGYGPSSSGGPQSDR TGAASTQAGSDAATMNSTR		15
	Hypothetical protein [Toxoplasma gondii RH]	gi 95007135	83 567	4	8.0%	EVASMEGASPAAFQAAQQR GAFLGAGATGIVTELIEK KLVDEHPFFQVVEDA LLLDPHETR		16
	Hypothetical protein TGME49_107810 [Toxoplasma gondii ME49]	gi 211969572	44 152	2	7.8%	EAMTVEELQAAVHEAR GQDANAPESAAETAPPR		19
	Hypothetical protein TGME49_032440 [Toxoplasma gondii ME49]	gi 211965778	54 027	3	7.1%	LGFSSTEEIDKR SRLDELQAQMDK YQAFLAQQR		20

S1 (continued)

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	Hypothetical protein TGME49_040060 [Toxoplasma gondii ME49]	gi 211964299	88 515	4	8.3%	AVPSGEQPPPPPPHSPPR GASTASLHSEPGAASMPGSPK GFDRPGTTGTTGPQVR KSPPLPLQEQR		21
	Hypothetical protein TGME49_112490 [Toxoplasma gondii ME49]	gi 211962135	51 601	2	7.5%	SDLLSLLATDEDFYAEDR SSYVSEMILGEPDSTVR		22
	Hypothetical protein TGME49_055350 [Toxoplasma gondii ME49]	gi 211962527	66 010	4	8.0%	HMFETEIR SGIDQAAEGGGWHGSK TSMIVTTDAVEAR VQSDPFAPPSR		26
	Hypothetical protein TGME49_051170 [Toxoplasma gondii ME49]	gi 211965042	75 621	6	14.7%	ALLSSASGQVPEPLR EHPPPATGGPLPQR ELYVELGVAER IAEYMLEEHNPSPSSSEIR QQGQDAGEGTAATGPSAPSVSSASPMSR YTPVPTTTPPYPADVER		27-28-29
	Hypothetical protein TGME49_030930 [Toxoplasma gondii ME49]	gi 211965658	34 572	2	7.0%	LQQNALLSGR VQQAVAEIVEEK		28
	Conserved hypothetical protein TGGT1_102650 [Toxoplasma gondii GT1]	gi 221485011	2 905	2	13.6%	LESMASEIAAK LLAAGVDLSHVPGDASLTPGASDQGPR		29
	Hypothetical protein TGME49_089380 [Toxoplasma gondii ME49]	gi 211966037	100 228	5	6.6%	ATVDYLDELGK AVAELAATNAGTEK GALPASAPVR QAVAATETTPFSSAQK VMFVGDSAER		29
	Hypothetical protein, conserved TGME49_106400 [Toxoplasma gondii ME49]	gi 211968066	142 579	5	6.0%	AAEQDAVGPALQASR GPSSGGGAAPVVLRL IVILAETGSTAEDVTNR LQGESEEEGEEEGEGEGQR VTLPAGEGPR		31-33
	Hypothetical protein, conserved TGME49_047450 [Toxoplasma gondii ME49]	gi 211964776	245 852	3	1.9%	AVVYLQSQQQAESAQYR GPLSPPYGSQR IEEGEEGGFSHFGYR		33