

Supplementary Materials:

***Entamoeba histolytica*: Proteomics bioinformatics revealed predictive functions and protein- protein interactions of differentially abundant membrane and cytosolic protein**

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Table S1. Classification of Increased Abundance Proteins by PANTHER DB (Membrane proteins are bolded)

Accession Number	Gene Name	PANTHER (Family/Subfamily)
Catalytic Activity (Molecular Function)		
EH1_129750	Rho family GTPase	Ras-related protein rac1-related (pthr24072: sf281)
EH1_199590	70 kDa heat shock protein putative	Endoplasmic reticulum chaperone bip (pthr19375: sf144)
EH1_076870	3-oxo 5 alpha-steroid 4-dehydrogenase domain	Sc2 (pthr10556: sf28)
EH1_054830	Calcium-transporting ATPase	Calcium-transporting ATPase (pthr24093: sf369)
EH1_014030	NAD(P) transhydrogenase subunit alpha, putative	Nicotinamide nucleotide transhydrogenase (pthr10160: sf19)
EH1_054180	Protein SEY1 homolog 2	Protein sey1 (pthr45923: sf2)
EH1_200230	Cell surface protease gp63 putative	Leishmanolysin-like peptidase (pthr10942: sf0)
Binding (Molecular Function)		
EH1_129750	Rho family GTPase	Ras-related protein rac1-related (pthr24072: sf281)
EH1_199590	70 kDa heat shock protein putative	Endoplasmic reticulum chaperone bip (pthr19375: sf144)
EH1_014030	NAD(P) transhydrogenase subunit alpha, putative	Nicotinamide nucleotide transhydrogenase (pthr10160: sf19)
EH1_136160	Calreticulin putative	Calreticulin (pthr11073: sf2)
EH1_139030	EhSyntaxin 1A (Fragment)	Syntaxin-1a (pthr19957: sf41)
EH1_021410	EhSyntaxin B	Ld23667p (pthr19957: sf38)
EH1_175460	60S acidic ribosomal protein	60s acidic ribosomal protein p0 (pthr45699: sf3)
Accession Number	Gene Name	PANTHER (Family/Subfamily)
Cellular Process (Biological Process)		
EH1_078310	Uncharacterized protein	Protein yippee-like (pthr14255: sf3)
EH1_129750	Rho family GTPase	Ras-related protein rac1-related (pthr24072: sf281)
EH1_065790	Rab family GTPase	Ld44762p (pthr47980: sf24)

EH1_199590	70 kDa heat shock protein putative	Endoplasmic reticulum chaperone bip (pthr19375: sf144)
EH1_076870	3-oxo 5 alpha-steroid 4-dehydrogenase domain-contai	Sc2 (pthr10556: sf28)
EH1_014030	NAD(P) transhydrogenase subunit alpha, putative	Nicotinamide nucleotide transhydrogenase (pthr10160: sf19)
EH1_136160	Calreticulin putative	Calreticulin (pthr11073: sf2)
EH1_139030	EhSyntaxin 1A (Fragment)	Syntaxin-1a (pthr19957: sf41)
EH1_054180	Protein SEY1 homolog 2	Protein sey1 (pthr45923: sf2)
EH1_021410	EhSyntaxin B	Ld23667p (pthr19957: sf38)
EH1_175460	60S acidic ribosomal protein	60s acidic ribosomal protein p0 (pthr45699: sf3)
Cell/Cell Part (Cellular Component)		
EH1_078310	Uncharacterized protein	Protein yippee-like (pthr14255: sf3)
EH1_129750	Rho family GTPase	Ras-related protein rac1-related (pthr24072: sf281)
EH1_065790	Rab family GTPase (Fragment)	Ld44762p (pthr47980: sf24)
EH1_199590	70 kDa heat shock protein putative	Endoplasmic reticulum chaperone bip (pthr19375: sf144)
EH1_076870	3-oxo 5 alpha-steroid 4-dehydrogenase domain-contai	Sc2 (pthr10556: sf28)
EH1_014030	NAD(P) transhydrogenase subunit alpha, putative	Nicotinamide nucleotide transhydrogenase (pthr10160: sf19)
EH1_136160	Calreticulin putative	Calreticulin (pthr11073: sf2)
EH1_139030	EhSyntaxin 1A (Fragment)	Syntaxin-1a (pthr19957: sf41)
EH1_054180	Protein SEY1 homolog 2	Protein sey1 (pthr45923: sf2)

Table S2. Classification of decreased abundance proteins by PANTHER DB.

Mapped ID	Gene Name/ Symbol	PANTHER (Family/Subfamily)
		Binding / Cellular Process / Cell Part
EH1_052860	Heat shock protein 70 putative	Ribosome-associated molecular chaperone ssb1-related (pthr19375: sf395)
EH1_125840	Peptidyl-prolyl cis-trans isomerase	Peptidyl-prolyl cis-trans isomerase d-related (pthr1107: sf380)
EH1_166810	Elongation factor 2	Elongation factor 2 (pthr42908: sf10)
EH1_104630	Filamin 2 putative	Zgc:100997 (pthr19961: sf58)
EH1_198930	Actin putative	Actin-related protein 3b (pthr11937: sf31)
EH1_192450	Rho family GTPase	Ras-related protein rac1-related (pthr24072: sf281)
EH1_146180	Rho family GTPase	Ras-related protein rac1-related (pthr24072: sf281)
EH1_176140	Profilin	Profilin (pthr11604: sf0)
EH1_174180	Skp1 family protein	S-phase kinase-associated protein 1 (pthr11165: sf24)
EH1_147570	Rho GDP exchange inhibitor, putative	Ld16419p (pthr10980: sf3)
EH1_091250	Arp2/3 complex 34 kDa subunit	Actin-related protein 2/3 complex subunit 2 (pthr12058: sf0)
EH1_005020	F-actin-capping protein subunit beta	F-actin-capping protein subunit beta (pthr10619: sf0)