

Table S8. Prediction of GO cellular component based on the coexpression network CoExp²_{Tbr}. Refer to Table S3 for more details.

	Ribosome	Intracellular	Cytoplasm	Chaperonin-containing T-complex	Integral to membrane	Dynein complex	TriTrypDB annotation (v2.0)
Tb11.02.0445	*						Hypothetical protein
Tb927.5.4120	**	**					Hypothetical protein
Tb09.160.2400	*	*					Hypothetical protein
Tb927.2.4700	*	*					Hypothetical protein
Tb927.3.3570	*	*					Hypothetical protein
Tb927.4.3660	**	**					Hypothetical protein
Tb927.6.2330	*****	*****					RGG protein
Tb927.10.3970	*	*					Hypothetical protein
Tb927.6.1130	*	*					Hypothetical protein
Tb09.211.4690	*	*					Hypothetical protein
Tb09.160.3160	*	*					Hypothetical protein
Tb927.8.6250	*	*					Hypothetical protein
Tb11.01.7730	*	*					Hypothetical protein
Tb927.10.160	*	*					Hypothetical protein
Tb11.01.1570	*	*					NUDIX hydrolase
Tb927.7.4120	*	*					Hypothetical protein
Tb927.3.1370	***	***					40S ribosomal protein S25
Tb11.55.0016		*					Hypothetical protein
Tb927.7.6280		*					Hypothetical protein
Tb927.7.3530		*					Hypothetical protein
Tb927.7.3580		*					Protein kinase
Tb09.244.2390		*					Hypothetical protein
Tb11.02.0450		*					Hypothetical protein
Tb927.10.12100		*					RNA-binding protein
Tb927.3.3880		*					Hypothetical protein
Tb927.4.3830		*					Hypothetical protein
Tb927.10.9050		*					Hypothetical protein
Tb09.211.4180		*					Hypothetical protein
Tb927.5.4010		*					Hypothetical protein
Tb11.01.3530		*					Hypothetical protein
Tb927.4.2570		*					Hypothetical protein
Tb927.2.5440		*					Hypothetical protein
Tb09.244.2710		*					Hypothetical protein
Tb09.160.2900		*					PRP3
Tb11.01.6000		*					Hypothetical protein
Tb11.02.4790		*					ATG16/SAP18/CVT11/APG16
Tb09.211.0500		*					Hypothetical protein
Tb927.10.16140		*					Adenylate/guanylate cyclase
Tb927.3.2470		*					Pumilio RNA binding protein
Tb927.7.5150		*					Hypothetical protein
Tb927.10.9180		*					Hypothetical protein
Tb927.1.1400		*					Hypothetical protein
Tb11.01.1910		*					Hypothetical protein
Tb927.7.1450		*					Hypothetical protein
Tb927.6.1180		*					Hypothetical protein
Tb927.4.1980		*					Hypothetical protein
Tb927.1.2200		*					Hypothetical protein
Tb927.8.3090		*					Hypothetical protein
Tb927.5.1770		*					Hypothetical protein
Tb927.8.2000		*					Cyclophilin type peptidyl-prolyl cis-trans isomerase
Tb11.01.6835		*					Hypothetical protein
Tb927.2.2450		*					Ribosomal RNA methyltransferase
Tb927.7.640			**				Hypothetical protein

Tb09.160.2090			*		Hypothetical protein
Tb927.5.2570			*		Translation initiation factor
Tb09.211.1360			*		Hypothetical protein
Tb09.211.0690			**		Hypothetical protein
Tb927.10.14790			*		Aminopeptidase
Tb09.244.2190			*		Hypothetical protein
Tb09.v1.0820			*		Hypothetical protein
Tb927.5.3100			*		Hypothetical protein
Tb927.10.9510			***		Hypothetical protein
Tb09.211.4820			*		Hypothetical protein
Tb09.160.5350			*		Variant surface glycoprotein (VSG)-related
Tb09.142.0320			*		Hypothetical protein
Tb11.02.1564			*		Leucine-rich repeat protein (LRRP)
Tb927.10.1770			**		Hypothetical protein
Tb11.02.3710			*		Hypothetical protein
Tb11.02.1565			*		Hypothetical protein
Tb927.10.6740			*		Hypothetical protein
Tb927.1.5160			***		Hypothetical protein
Tb927.1.5180			*		Hypothetical protein
Tb927.3.580			**		Leucine-rich repeat protein (LRRP)
Tb11.02.1640			*		Kinetoplastid-specific dual specificity phosphatase
Tb11.01.6210			*		Procyclin-associated gene 2-like protein
Tb927.3.2590			*		Hypothetical protein
Tb927.3.570			*		Expression site-associated gene (ESAG) protein
Tb09.244.0640			***		Variant surface glycoprotein (VSG)
Tb927.10.8980			**		Hypothetical protein
Tb11.01.6140			*		Hypothetical protein
Tb927.1.1850			*		Hypothetical protein
Tb09.160.1440			*		Hypothetical protein
Tb11.02.1470			**		Hypothetical protein
Tb927.10.1230			**		Hypothetical protein
Tb927.3.3980			*		Hypothetical protein
Tb927.10.14770			*		Protein kinase
Tb927.8.7540			*		Hypothetical protein
Tb927.4.4790			*		Hypothetical protein
Tb927.10.3360			*		Hypothetical protein
Tb11.01.6220			*		Procyclin-associated gene 4 (PAG4) protein
Tb927.10.1040			*		Serine carboxypeptidase III precursor
Tb927.4.990			*		Hypothetical protein
Tb927.7.380			*		Hypothetical protein
Tb11.38.0003			**		Variant surface glycoprotein (VSG)
Tb927.6.1730			*		Hypothetical protein
Tb927.10.8860			*		Hypothetical protein
Tb09.160.4760			*		Hypothetical protein
Tb927.3.5830			***		Expression site-associated gene (ESAG) protein
Tb927.1.5030			*		Leucine-rich repeat protein (LRRP)
Tb927.10.9450			**		Hypothetical protein
Tb927.5.1440			*		Hypothetical protein
Tb927.10.530			*		Hypothetical protein
Tb927.7.190			*		Thimet oligopeptidase A
Tb927.4.1110			*		Hypothetical protein
Tb927.5.3600			*		ATP-dependent DEAD/H RNA helicase
Tb09.244.1950			***		Hypothetical protein
Tb09.160.0360			*		Hypothetical protein
Tb11.01.7380			*		Hypothetical protein
Tb927.3.1490			*		Leucine-rich repeat protein (LRRP)
Tb11.01.7530			*		Hypothetical protein
Tb927.8.980			*		Phosphoacetylglucosamine mutase
Tb927.1.5060			*		Variant surface glycoprotein (VSG)-related
Tb927.5.750			*		Hypothetical protein
Tb927.4.810			*		Expression site-associated gene (ESAG) protein
Tb927.10.1780			*		Hypothetical protein
Tb927.3.2520			**		Expression site-associated gene (ESAG) protein
Tb927.3.5720			*		Hypothetical protein
Tb927.5.4600			**		Expression site-associated gene (ESAG) protein
Tb927.5.1400			***		Hypothetical protein
Tb927.3.560			**		Expression site-associated gene (ESAG) protein
Tb927.10.15440			*		Hypothetical protein
Tb927.3.980			**		Hypothetical protein
Tb927.10.5710			*		Hypothetical protein
Tb927.10.5700			*		Hypothetical protein
Tb927.5.1390			*		64 kDa invariant surface glycoprotein
Tb927.7.6860			*		Expression site-associated gene (ESAG) protein

Tb927.3.2500				*	Hypothetical protein
Tb927.8.4360				*	Hypothetical protein
Tb927.3.5680				*	Variant surface glycoprotein (VSG)-related
Tb11.01.7860				*	Hypothetical protein
Tb927.3.1870				**	Hypothetical protein
Tb927.2.3340				**	Hypothetical protein
Tb927.8.6720				*	Hypothetical protein
Tb927.8.5080				*	Hypothetical protein
Tb927.8.7330				**	Hypothetical protein
Tb927.3.520				**	Expression site-associated gene (ESAG) protein
Tb927.3.5690				***	Hypothetical protein
Tb927.8.7310				*	Hypothetical protein
Tb927.6.540				**	Gene related to expression site-associated gene 2 (GRESAG2)
Tb927.1.2600				*	Pumilio/PUF RNA binding protein 9
Tb09.160.0720				*	Hypothetical protein
Tb11.01.5260				*	Radial spoke protein RSP11
Tb927.1.2760				*	Hypothetical protein
Tb09.244.2050				*	Hypothetical protein
Tb09.244.1650				*	Hypothetical protein
Tb11.01.6390				*	Hypothetical protein
Tb927.3.4510				*	Hypothetical protein
Tb927.10.8780				*	Hypothetical protein
Tb927.1.4310				*	Hypothetical protein
Tb11.02.3880				**	Hypothetical protein
Tb927.3.3300				*	Hypothetical protein
Tb11.02.4640				*	Tubulin-tyrsoine ligase-like protein
Tb927.3.3110				*	Hypothetical protein

- * $1 \times 10^{-4} < \text{p-value} \leq 0.01$
- ** $1 \times 10^{-7} < \text{p-value} \leq 1 \times 10^{-4}$
- *** $1 \times 10^{-14} < \text{p-value} \leq 1 \times 10^{-7}$
- **** $1 \times 10^{-28} < \text{p-value} \leq 1 \times 10^{-14}$
- ***** $\text{p-value} \leq 1 \times 10^{-28}$