Table S8. Prediction of GO cellular component based on the coexpression network $CoExp^2_{Tbr}$. Refer to Table S3 for more details.

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				Chaperonin-containing T-complex			
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				Ϋ́	Integral to membrane	Dynein complex	
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	om	Intracellulaı	Cytoplasm	ero	al t	o u	
	SO	acı	do	аре	eg n	Jei	
	Ribosome	Intr	Ç	Ch	Inte	Dy	TriTrypDB annotation (v2.0)
Th 11 00 0115	*						Live otherical protein
Tb11.02.0445	**	**					Hypothetical protein
Tb927.5.4120 Tb09.160.2400	*	*					Hypothetical protein
Tb927.2.4700	*	*					Hypothetical protein 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 Hypothetical protein
Tb927.2.5440 Tb09.244.2710		*					
Tb09.244.2710		*					Hypothetical protein 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 Tb09.244.2190	*	Aminopeptidase Hypothetical protein
Tb09.244.2190 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 Tb927.10.6740	*	Hypothetical protein Hypothetical protein
Tb927.10.0740	***	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 Tb927.1.1850	*	Hypothetical protein 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 Tb927.4.990	*	Serine carboxypeptidase III precursor 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 Tb927.7.190	*	Hypothetical protein 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 Tb927.10.1780	*	Expression site-associated gene (ESAG) protein 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

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