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

| TriTrypDB annotation (v2.0) | Ribosome | Intracellular | Cytoplasm | Chaperonin-containing T-complex | Integral to membrane | Dynein complex |
|------------------------------|----------|---------------|-----------|-------------------------------|----------------------|----------------|
| Tb11.02.0445                 | *        |               |           |                               |                      |                |
| Tb927.5.4120                 | **       | **            |           |                               |                      |                |
| Tb09.160.2400                | *        | *             |           |                               |                      |                |
| Tb927.2.4700                 | *        | *             |           |                               |                      |                |
| Tb927.3.3570                 | *        | *             |           |                               |                      |                |
| Tb927.4.3660                 | **       | **            |           |                               |                      |                |
| Tb927.6.2330                 | ***      | ***           |           |                               |                      |                |
| Tb927.10.3970                | *        | *             |           |                               |                      |                |
| Tb927.6.1130                 | *        | *             |           |                               |                      |                |
| Tb09.211.4690                | *        | *             |           |                               |                      |                |
| Tb927.9.3160                 | *        | *             |           |                               |                      |                |
| Tb927.8.6250                 | *        | *             |           |                               |                      |                |
| Tb11.01.7730                 | *        | *             |           |                               |                      |                |
| Tb927.10.160                 | *        | *             |           |                               |                      |                |
| Tb11.01.1570                 | *        | *             |           |                               |                      | NUDIX hydrolase |
| Tb927.7.4120                 | *        | *             |           |                               |                      |                |
| Tb927.3.1370                 | ***      | ***           |           |                               |                      | 40S ribosomal protein S25 |
| Tb11.55.0016                 | *        |               |           |                               |                      |                |
| Tb927.7.6280                 | *        |               |           |                               |                      |                |
| Tb927.7.3530                 | *        |               |           |                               |                      |                |
| Tb927.7.3580                 | *        |               |           |                               |                      | Protein kinase  |
| Tb09.244.2390                | *        |               |           |                               |                      |                |
| Tb11.02.0450                 | *        |               |           |                               |                      |                |
| Tb927.10.1210                | *        |               |           | RNA-binding protein           |                      |                |
| Tb927.3.3880                 | *        |               |           |                               |                      |                |
| Tb927.4.3830                 | *        |               |           |                               |                      |                |
| Tb927.10.9050                | *        |               |           |                               |                      |                |
| Tb927.10.4180                | *        |               |           |                               |                      |                |
| Tb927.5.4010                 | *        |               |           |                               |                      |                |
| Tb11.01.3530                 | *        |               |           |                               |                      |                |
| Tb927.4.2570                 | *        |               |           |                               |                      |                |
| Tb927.2.5440                 | *        |               |           |                               |                      |                |
| Tb09.244.2710                | *        |               |           |                               |                      |                |
| Tb09.160.2900                | *        |               |           |                               |                      | PRP3           |
| Tb11.01.6000                 | *        |               |           |                               |                      |                |
| Tb11.02.4790                 | *        |               |           | ATG16/SAP18/CVT11/APG16       |                      |                |
| Tb09.211.0500                | *        |               |           |                               |                      |                |
| Tb927.10.16140               | *        |               |           | Adenylate/guanylate cyclase    |                      |                |
| Tb927.3.2470                 | *        |               |           |                               |                      |                |
| Tb927.7.5150                 | *        |               |           |                               |                      |                |
| Tb927.10.9180                | *        |               |           |                               |                      |                |
| Tb927.1.1400                 | *        |               |           |                               |                      |                |
| Tb11.01.1910                 | *        |               |           |                               |                      |                |
| Tb927.7.1450                 | *        |               |           |                               |                      |                |
| Tb927.6.1180                 | *        |               |           |                               |                      |                |
| Tb927.4.1980                 | *        |               |           |                               |                      |                |
| Tb927.1.2200                 | *        |               |           |                               |                      |                |
| Tb927.8.3090                 | *        |               |           |                               |                      |                |
| Tb927.5.1770                 | *        |               |           |                               |                      |                |
| Tb927.8.2000                 | *        |               |           | Cyclophilin type peptidyl-prolyl cis-trans isomerase | |                |
| Tb11.01.6835                 | *        |               |           |                               |                      |                |
| Tb927.2.2450                 | *        |               |           | Ribosomal RNA methyltransferase |                      |                |
| Tb927.7.640                  | **       |               |           |                               |                      |                |
| Tb927.1.2200                 | *        |               |           |                               |                      |                |
| Accession | Description |
|-----------|-------------|
| Tb09.160.2090 | Hypothetical protein |
| Tb09.211.1360 | Hypothetical protein |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.211.0300 | Aminopeptidase |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.160.5350 | Variant surface glycoprotein (VSG)-related |
| Tb09.142.0320 | Hypothetical protein |
| Tb09.160.1440 | Hypothetical protein |
| Tb09.160.4760 | Hypothetical protein |
| Tb09.160.0360 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.211.1360 | Hypothetical protein |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.211.0300 | Aminopeptidase |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.160.5350 | Variant surface glycoprotein (VSG)-related |
| Tb09.142.0320 | Hypothetical protein |
| Tb09.160.1440 | Hypothetical protein |
| Tb09.160.4760 | Hypothetical protein |
| Tb09.160.0360 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.211.1360 | Hypothetical protein |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.211.0300 | Aminopeptidase |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.160.5350 | Variant surface glycoprotein (VSG)-related |
| Tb09.142.0320 | Hypothetical protein |
| Tb09.160.1440 | Hypothetical protein |
| Tb09.160.4760 | Hypothetical protein |
| Tb09.160.0360 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.211.1360 | Hypothetical protein |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.211.0300 | Aminopeptidase |
| Tb09.211.0690 | Hypothetical protein |
| Tb09.160.5350 | Variant surface glycoprotein (VSG)-related |
| Tb09.142.0320 | Hypothetical protein |
| Tb09.160.1440 | Hypothetical protein |
| Tb09.160.4760 | Hypothetical protein |
| Tb09.160.0360 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Tb09.160.3600 | Hypothetical protein |
| Gene         | Description                                      |
|--------------|--------------------------------------------------|
| 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                         |
| Tb927.1.4510 | * Hypothetical protein                           |
| Tb11.02.3880 | ** Hypothetical protein                          |
| Tb927.3.3300 | * Hypothetical protein                           |
| Tb11.02.4640 | * Tubulin-tyrosine ligase-like protein            |
| Tb927.3.3110 | * Hypothetical protein                           |

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