**Table S1. RRM domain-containing proteins of *T.gondii***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Toxoplasma* Gene ID** | **RRM a** | **Other domains a** | **Gene product description** | ***Plasmodium* gene ID** |
| **Conserved RRM proteins with known function** | | | | |
| TGME49\_031970 | 1 | Pro8NT, ProCN, PRP8\_domainIV, MPN\_PRP8, U5\_2snR, U6\_2snR | pre-mRNA splicing factor PRP8 | PFD0265w |
| TGME49\_094670 | 1 | eIF3g | eukaryotic translation initiation factor 3 | MAL8P1.83 |
| TGME49\_022860 | 1 | WD40 | eukaryotic translation initiation factor 3 subunit 9 | PFE0885w |
| TGME49\_005180 | 1 | UsnRNP70\_N | U1 small nuclear ribonucleoprotein | MAL13P1.338 |
| TGME49\_027850 | 1 | Cyclophilin (2) | RNA recognition motif-containing protein | PF08\_0086 |
| TGME49\_036910 | 1 | zfCCCH | U2 snRNP auxiliary factor small subunit | PF11\_0200 |
| TGME49\_119850\* | 1 | U2AF | U2 snRNP auxiliary factor subunit p65 | PF13\_0147 |
| TGME49\_114050\* | 1 | U2AF | U2 snRNP auxiliary factor subunit p65 | PF13\_0147 |
| TGME49\_039410 | 1 | RI | CNOT4, CCR-NOT complex subunit | PFL1705w |
| TGME49\_054650 | 1 |  | RBM22 | PFL2310w |
| TGME49\_109800 | 1 |  | U1A small nuclear ribonucleoprotein | MAL13P1.35  PFI1695c |
| TGME49\_068750 | 1 |  | peptidyl-prolyl cis-trans isomerase E | PF13\_0122 |
| TGME49\_011020 | 1 |  | embryonic poly(A)-binding protein 2 | PFI1175c |
| TGME49\_070640 | 1 |  | SC35, SR-rich splicing factor | PF11\_0279  PFE0160c |
| TGME49\_089560 | 1 |  | nuclear cap-binding protein | PFD0750w |
| TGME49\_083740 | 1 |  | 3'UTR mRNA cleavage stimulating protein | PFI1600w |
| TGME49\_105010 | 1 |  | SF3b splicing complex subunit | PFL1200c |
| TGME49\_064610\* | 2 |  | hnRNP A1 like 2 | PFD0700c |
| TGME49\_110050\* | 2 |  | DAZ-associated protein 1 | PFD0700c |
| TGME49\_024580 | 2 |  | SF3b splicing complex subunit 4 | PF14\_0194 |
| TGME49\_062620 | 2 |  | hnRNP M | PF10\_0068 |
| TGME49\_015230 | 2 |  | HIV-1 Tat specific factor 1 | MAL7P1.157a |
| TGME49\_091930 | 2 |  | nucleolin | PFI0820c |
| TGME49\_091950\* | 2 |  | U2 snRNP auxiliary factor subunit p65 | PF14\_0656 |
| TGME49\_034520\* | 3 |  | U2 snRNP auxiliary factor subunit p65 | PF14\_0656 |
| TGME49\_112530 | 3 |  | RBM23 | MAL13P1.120 |
| TGME49\_108920 | 3 |  | U2 snRNP auxiliary factor | PF07\_0066 |
| **RRM proteins with unknown function** | | | | |
| **Contain 3 or more RRM domains** | | | | |
| TGME49\_118690 | 5 |  | RBM19 | PFL0830w |
| TGME49\_120100 | 3 |  | RNA recognition motif-containing protein | MAL13P1.303-b |
| TGME49\_036540\* | 3 |  | RRM domain-containing protein | PF10\_0235 |
| TGME49\_066740 | 3 |  | DNA/RNA binding protein |  |
| TGME49\_002770 | 3 |  | RNA-binding protein |  |
| TGME49\_090660 | 3 |  | polypirimidine track-binding protein 3 | PFF0320c |
| TGME49\_068200 | 3 | WW | RNA recognition motif domain-containing protein | PF13\_0315  PF14\_0096 |
| **Contain 2 RRM domains** | | | | |
| TGME49\_105850 | 2 |  | RNA binding protein |  |
| TGME49\_023930 | 2 |  | RNA binding protein |  |
| TGME49\_121630 | 2 |  | hypothetical protein |  |
| TGME49\_104760 | 2 |  | conserved hypothetical protein |  |
| TGME49\_003530 | 2 |  | RNA recognition motif domain containing protein |  |
| TGME49\_121360 | 2 | WW | RNA recognition motif domain-containing protein | MAL8P1.40 |
| TGME49\_065530 | 2 |  | RNA binding motif-containing protein |  |
| TGME49\_017540\* | 2 |  | splicing factor | PFE0865c |
| TGME49\_119530\* | 2 |  | splicing factor | PFE0865c |
| TGME49\_094710 | 2 |  | hypothetical protein |  |
| TGME49\_068380 | 2 |  | RNA recognition motif-containing protein |  |
| TGME49\_092200 and TGME49\_092210 | 2 |  | poly(A) binding protein | PFI1025w |
| **Contain 1 RRM domain** | | | | |
| TGME49\_067600 | 1 | DUF1768  FHA  SF-CC1 | RNA recognition motif-containing protein |  |
| TGME49\_014820 | 1 | G-patch | DNA repair enzyme | PF14\_0513 |
| TGME49\_070770 | 1 | PWI | hypothetical protein | PFF0505c |
| TGME49\_111070 | 1 | zinc finger (2) | hypothetical protein |  |
| TGME49\_089010 | 1 | MPP\_SW (2) CWf\_J (2) | conserved hypothetical protein |  |
| TGME49\_084050 | 1 | DEAH  DUF1605 | DEAH-box RNA/DNA helicase |  |
| TGME49\_074140 | 1 | rad18 | RNA recognition motif-containing protein |  |
| TGME49\_083880 | 1 | SF-CC1 | RBM34 | PF10\_0194 |
| TGME49\_006670 | 1 | SPOC | hypothetical protein |  |
| TGME49\_040070 | 1 | WW | RNA recognition motif domain-containing protein | PFL1745c |
| TGME49\_054220 | 1 |  | hypothetical protein |  |
| TGME49\_021570 | 1 |  | hypothetical protein | PF07\_0083 |
| TGME49\_065250 | 1 |  | alpha-1 type II collagen |  |
| TGME49\_054210 | 1 |  | hypothetical protein |  |
| TGME49\_008350 | 1 |  | RNA recognition motif-containing protein |  |
| TGME49\_012190 | 1 |  | RNA recognition motif domain containing protein |  |
| TGME49\_091330 | 1 |  | hypothetical protein | PFF0760w |
| TGME49\_011420 | 1 |  | hypothetical protein |  |
| TGME49\_072440 | 1 |  | hypothetical protein |  |
| TGME49\_094710 | 1 |  | hypothetical protein |  |
| TGME49\_003540 | 1 |  | RNA binding protein |  |
| TGME49\_003080 | 1 |  | RNA recognition motif-containing protein | PF13\_0318 |
| TGME49\_106600 | 1 |  | RNA recognition motif domain-containing protein |  |
| TGME49\_015400 | 1 |  | RNA binding protein |  |
| TGME49\_070880 | 1 |  | RNA binding motif-containing protein | PFD0775c |
| TGME49\_008970 | 1 |  | hypothetical protein |  |
| TGME49\_110570 | 1 |  | hypothetical protein |  |
| TGME49\_072890 | 1 |  | RNA recognition motif domain-containing protein |  |
| TGME49\_068380 | 1 |  | RNA recognition motif-containing protein |  |
| TGME49\_040710 | 1 |  | RRM domain-containing protein | PF14\_0028 |
| TGME49\_099030 | 1 |  | RNA recognition motif 2 domain-containing protein |  |
| TGME49\_113910 | 1 |  | RNA recognition motif 2 domain-containing protein |  |
| TGME49\_033230 | 1 |  | RNA binding motif-containing protein | PF14\_0057 |
| TGME49\_113730 | 1 |  | hypothetical protein |  |
| TGME49\_058610 | 1 |  | RNA recognition motif-containing protein |  |
| TGME49\_024720 | 1 |  | RNA binding motif-containing zinc finger protein |  |
| TGME49\_094810\* | 1 |  | RRM domain-containing protein | PF10\_0235 |
| TGME49\_023860 | 1 |  | RNA-binding protein |  |
| TGME49\_065320 | 1 |  | cell cycle control protein swf2 | PFE0750c |
| TGME49\_030160 | 1 |  | conserved hypothetical protein | PF13\_0058 |

*Toxoplasma* genome has 86 proteins that contain one or more RRM domains. 50 RRM proteins have orthologs in *Plasmodium falciparum*.

Data analysis performed in ToxoDB, PlasmoDB and ncbi. Conservative proteins with known function were identified in BLAST search (ncbi.org). Orthologs had e-values -10 or lower.

a – domains were identified according to ncbi.org

\* - more than one *Toxoplasma* gene has the same orthologous protein in *Plasmodium falciparum*