Table 1. *In silico* identification of purine salvage enzymes of *Sarcocystis neurona.*

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| ***Toxoplasma gondii* (query)** | **Tblastn search of *S. neurona* genome database** | **Reciprocal blast of identified *S. neurona* purine salvage enzymes to *T. gondii* at Eupathdb.org** |
| **Name of the enzyme** | **Toxodb\_V9.0** | **protein length (aa)** | **Genomic locus****scaffold number: position** | **protein length (aa)** | **score** | **e-value** | **Identities** | **Positives** |
| Adenosine Kinase | TGME49\_250880 | 465 | 16: 2467986-2462903 | 410 | 621 | 7.70E-62 | 153/383 (39%) | 207/383 (54%) |
| Adenylosuccinate synthetase | TGME49\_279450 | 460 | 08: 2636984-2635491 | 498 | 1431 | 1.10E-147 | 258/420 (61%) | 322/420 (76%) |
| Adenylosuccinate lyase | TGME49\_263190  | 500 | 22: 367747-348904 | 647 | 1227 | 4.20E-128 | 253/485 (52%) | 325/485 (67%) |
| Inosine-5'-monophosphate dehydrogenase | TGME49\_233110 | 551 | 16: 1016900-1003048 | 710 | 1728 | 3.80E-179 | 347/502 (69%) | 403/502 (80%) |
| GMP synthase | TGME49\_230450 | 569 | 05: 433828-441220 | 632 | 1619 | 4.70E-216 | 311/409 (76%) | 351/409 (85%) |
| Adenosine monophosphate deaminase | TGME49\_234280 | 914 | 03: 2471158-2496958 | 1887\* | 2729 | 0.00E+00 | 512/686 (74%) | 585/686 (85%) |
| Adenosine deaminase | TGME49\_205720 | 366 | 18: 1729665-1745624 | 456 | 847 | 5.30E-92 | 158/312 (50%) | 236/312 (75%) |
| Hypoxanthine-xanthine-guanine phosphoribosyl transferase | TGGT1\_060540 | 279 | 02:5203160-5207925 | 232 | 820 | 6.30E-83 | 151/230 (65%) | 187/230 (81%) |
| Purine nucleoside phosphorylase | TGME49\_107030 | 247 | No ortholog identified |   |   |   |   |   |

\* partial sequence