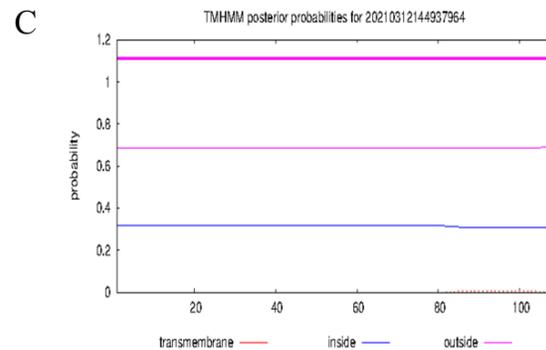
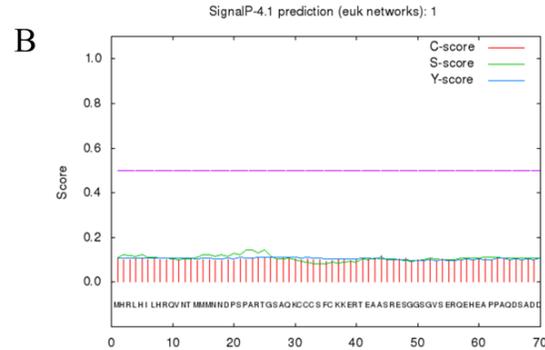


## Supplementary Material

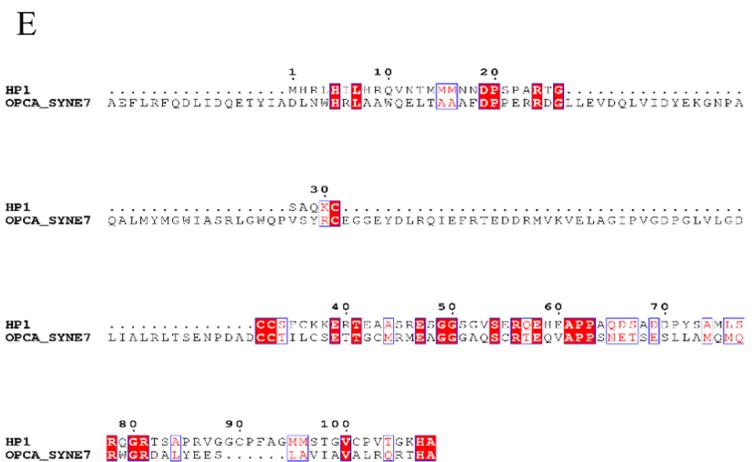
**A**

Transcript ID	Transcript Length	Protein Length	Genomic Length	Isoelectric Point	Molecular Weight	Has SignalP	Has TMHMM
TGGT1_217555	327	108	1346	8.26	11.564 kDa	No	No



**D**

▼ Eukaryota (EUKA)	38
▼ Alveolates (ALVE)	38
▼ Apicomplexa (APIC)	38
▼ Aconoidasida (ACON)	19
▼ Piroplasmida (PIRO)	19
Theileria annulata strain Ankara (tann)	4
Theileria annulata strain Ankara (old build 2015-02-27) (tann-old)	4
Theileria orientalis strain Shintoku (tori)	4
Theileria parva strain Muguga (tpar)	7
▼ Coccidia (COCC)	19
Cystoisospora suis strain Wien I (csui)	1
Hammondia hammondi strain H.H.34 (hhhh)	1
Neospora caninum Liverpool (ncan)	1
Toxoplasma gondii ARI (tgar)	1
Toxoplasma gondii CAST (tgca)	1
Toxoplasma gondii COUG (tgco)	1
Toxoplasma gondii FOU (tgfo)	1
Toxoplasma gondii GAB2-2007-GAL-DOM2 (tggd)	1
Toxoplasma gondii GT1 (tgg1)	1
Toxoplasma gondii MAS (tgma)	1
Toxoplasma gondii ME49 (tgon)	1
Toxoplasma gondii ME49 (old build 2015-08-11) (tgon-old)	1
Toxoplasma gondii RH-88 (tgee)	1
Toxoplasma gondii RUB (tgru)	1
Toxoplasma gondii TgCATB9 (tgta)	1
Toxoplasma gondii TgCatPRC2 (tgtg)	1
Toxoplasma gondii VAND (tgva)	1
Toxoplasma gondii VEG (tgve)	1
Toxoplasma gondii p89 (tgop)	1



**Supplementary Figure 2.** Bioinformatics analysis of hypothetical protein HP1; A: Properties and features of HP1; B: Analysis of signal peptide; C: Analysis of transmembrane region; D: Homologous analysis of HP1; E: Alignment of amino acid sequence of TgHP1 with OPCA of *Synechococcus elongatus*