

Table S1: Oligonucleotides used in this study

Primer Name (restriction site)	Nucleotide Sequence (restriction site underlined)	Cloning Vector (research objective)
Annotation of <i>TgPTS</i> and <i>TgPSS</i>		
<i>TgPTS</i> -F	ATGCAACTCCCTCAAGA	<i>pDrive</i> (T/A-cloning for testing and sequencing <i>TgPTS</i> (TGGT1_273540)
<i>TgPTS</i> -R	TCACTGACTCGTTCCATTTCACG	
<i>TgPSS</i> -F	ATGTGTGGGGACCGCCGCT	<i>pDrive</i> (T/A-cloning for testing and sequencing <i>TgPSS</i> (TGGT1_261480)
<i>TgPSS</i> -R	TCACTCGTCTTTGGCCTTC	
Expression and localization of <i>TgPTS</i> and <i>TgPSS</i> in <i>T. gondii</i> (RHΔku80-hxgprt strain)		
<i>TgPTS</i> -F (<i>Nsi</i> I)	CTCATCAT <u>G</u> CATATGCAACTCCCTCAAGAAAGG	<i>pTgGRA1-UPKO</i> (Ectopic expression of <i>TgPTS</i> -HA at the <i>TgUPRT</i> locus)
<i>TgPTS</i> -HA-R (<i>Pac</i> I)	CTCAT <u>CTTAATTAA</u> ATCAAGCGTAATCTGGAACATCGTA TGGGTACTGACTTCGTTGATT	
<i>TgPSS</i> -F (<i>Eco</i> RV)	CTCGATATCATGTGTCGGGGACCGCCGCT	<i>pTgSAG1-UPKO</i> (Ectopic expression of <i>TgPSS</i> -HA at the <i>TgUPRT</i> locus)
<i>TgPSS</i> -HA-R (<i>Pac</i> I)	CT <u>CTTAATTAA</u> ATCAAGCGTAATCTGGAACATCGTATGG GTACTCGTCTTTGGCCCTTC	
Making of Δ<i>tgpts</i> mutant in <i>T. gondii</i> (RHΔku80-hxgprt strain)		
<i>TgPTS</i> -5'COS-F (<i>Not</i> I)	CTCAT <u>CG</u> GGGCCGCGTTGCCCTCGAGTGCTTG	<i>pTKO-HXGPRT</i> (Cloning of the <i>TgPTS</i> 5'COS)
<i>TgPTS</i> -5'COS-R (<i>Eco</i> RI)	CTCAT <u>CGAATT</u> CACGAGGCCAGTGGAACGAC	
<i>TgPTS</i> -3'COS-F (<i>Hpa</i> I)	CTCAT <u>GTTAAC</u> AGCATCTTATCGATGCGCT	<i>pTKO-HXGPRT</i> (Cloning of the <i>TgPTS</i> 3'COS)
<i>TgPTS</i> -3'COS-R (<i>Hpa</i> I)	CTCAT <u>GTTAA</u> CTCACTGACTTCGTTGATTTTC	
Screening for 5' and 3' recombination in <i>T. gondii</i> (Δ<i>tgpts</i> strain)		
<i>TgPTS</i> -5'Scr-F	CGATTCTTGAGAGCAACTG	<i>pDrive</i> (T/A-cloning of 5' PCR product for sequencing)
<i>TgPTS</i> -5'Scr-R	GACGCAGATGTGCGTGATTC	
<i>TgPTS</i> -3'Scr-F	ACTGCCGTGTGGTAAAATGAA	<i>pDrive</i> (T/A-cloning of 3' PCR product for sequencing)
<i>TgPTS</i> -3'Scr-R	GCCATAGAGTTCATTGCGGACTC	
Genetic complementation in <i>T. gondii</i> (Δ<i>tgpts</i> strain)		
<i>TgPTS</i> -F (<i>Nsi</i> I)	CTCATCAT <u>G</u> CATATGCAACTCCCTCAAGAAAGG	<i>pTgGRA1-UPKO</i> (Ectopic expression of <i>TgPTS</i> -HA at the <i>TgUPRT</i> locus)
<i>TgPTS</i> -HA-R (<i>Pac</i> I)	CTCAT <u>CTTAATTAA</u> ATCAAGCGTAATCTGGAACATCGTA TGGGTACTGACTTCGTTGATTTCACG	
<i>TgPTS</i> _(ΔECWWWD) -P1-F (<i>Nsi</i> I)	CTCATCAT <u>G</u> CATATGCAACTCCCTCAAGAAAGG	<i>pTgGRA1-UPKO</i> (2-step cloning for ectopic expression of <i>TgPTS</i> _(ΔECWWWD) -myc at the <i>TgUPRT</i> locus)
<i>TgPTS</i> _(ΔECWWWD) -P1-R (<i>Sbf</i> I)	CTCAT <u>CCCTGC</u> AGGGCGCAGAGTTGGGGACGAG	
<i>TgPTS</i> _(ΔECWWWD) -P2-F (<i>Nsi</i> I)	CTCAT <u>CGATAG</u> CATCTTATCGATGCGCTG	
<i>TgPTS</i> _(ΔECWWWD) -P2-myc-R (<i>Pac</i> I)	CTCAT <u>CTTAATTAA</u> ATCACAGATCTCTCAGAAATAAG TTTTGTTCTGACTTCGTTGATTTCACGT	
3'-tagging of <i>TgPSS</i> gene locus with 2HA-DD tag (Δ<i>tgpts</i> strain)		
<i>TgPSS</i> -3'IT-2HA-DD-F	TACTTCCAATCCAATTAA <u>TG</u> CGACGGGAAAGTCCTTGG	<i>pLIC-2HA-DD-DHFR</i> (Ligation-independent cloning for expression of <i>TgPSS</i> -2HA-DD fusion protein)
<i>TgPSS</i> -3'IT-2HA-DD-R	TCCTCCACTTCCAATT <u>TAG</u> CCTCGTCTTTGGCCTTC C	
Expression of genes flanking the <i>TgPTS</i> locus in <i>T. gondii</i> (RHΔku80-hxgprt, Δ<i>tgpts</i> and Δ<i>tgpts</i>/<i>TgPTS</i>-HA strains)		
TGGT1_273550-F	ATGCATTGTCAACTAGGAGGC	ORF-specific PCR of TGGT1_273550
TGGT1_273550-R	TTACAGTGTGCGAACTGGGGTC	

TGGT1_273530-F	ATGTTGAAGACACCAGTAACGGT	ORF-specific PCR of TGGT1_273530
TGGT1_273530-R	TCAAGCGACAGATAGGTCGTC	
Quantification of <i>T. gondii</i> infection in mouse brain tissue		
<i>TgB1</i> -F	TCCCCTCTGCTGGCGAAAAGT	Quantification of parasite cyst burden by qPCR method
<i>TgB1</i> -R	AGCGTTCGTAGCTGGCAACTATCGATTG	
<i>MmASL</i> -F	TCTTCGTTAGCTGGCAACTCACCT	Quantification of a reference gene (mouse host) for normalization of parasite cyst burden by qPCR method
<i>MmASL</i> -R	ATGACCCAGCAGCTAACGAGATCA	
Expression of <i>TgPTS</i> and <i>TgPSS</i> in <i>E. coli</i> (M15/pREP4 strain)		
<i>TgPTS</i> -F (<i>Bgl</i> II)	CTCAT <u>CAGATCT</u> TGCAACTCCCTCAAGAAAGG	<i>pQE60</i> (expression of <i>TgPTS</i> -6xHis)
<i>TgPTS</i> -His-R (<i>Bgl</i> II)	CTCAT <u>CAGATCT</u> CTGACTTCGTTGATTTCACG	
<i>TgPSS</i> -F (<i>Bgl</i> II)	CTCAT <u>CAGATCT</u> ATGTCGGGGACTGCCGCT	<i>pQE60</i> (expression of <i>TgPSS</i> -6xHis)
<i>TgPSS</i> -His-R (<i>Bgl</i> II)	CTCAT <u>CAGATCT</u> CTCGTCTTGGCCTTCCAACA	