

Primer Name	Description	Sequence
sgRNA GRA17_1	sgRNA in the region +48 of ORF of TGME49_222170	GTTTTCTTTGGGACTTCTCAG
sgRNA GRA17_2	sgRNA in the region +86 of ORF of TGME49_222170	CTCCGTTTGCCCGTCCCGG
sgRNA GRA23_1	sgRNA in the region +76 of ORF of TGME49_297880	CGTTCGTGTCGCCGACGAC
sgRNA GRA23_2	sgRNA in the region +173 of ORF of TGME49_297880	TTACCCCTCATTGTCAAGC
P1 GRA17	Forward primer binding to region -108 of ORF of TGME49_222170	TGGCGAGCTCGTCCACTTCA
P3 GRA17	Reverse primer binding to region +297 of ORF of TGME49_222170	cgagctcggtaaacacttac
P1 GRA23	Forward primer binding to region -90 of ORF of TGME49_297880	ttcgaagaagctctctcaac
P3 GRA23	Reverse primer binding to region +88 of ORF of TGME49_297880	GGCCCGCACCATACGAC
P2	RV binding to the plasmid pTKO that contains HGPR1 minicassette for T. gondii	atcccaacgaagaagagaccac
Fw UPRT plasmid	Forward primer binding to plasmid #100606 (addgene David Sibley) for amplification of backbone with UPRT homology arms	GACAGACCGCTGACGGGAATC
Rv UPRT plasmid	Reverse primer binding to plasmid #100606 (addgene David Sibley) for amplification of backbone with UPRT homology arms	AGAAGCCTGTGACAGGTC
FP GRA17_5_ UTR	Forward primer for amplification of 5'UTR of GRA17 (TGME49_222170) for Gibson assembly	TAAAACGATCGAAATGTTTG
RP GRA17_5_ UTRS	Reverse primer for amplification of 5'UTR of GRA17 (TGME49_222170) for Gibson assembly	AAAAACCGATTGAGCTC
FP SRS9_5_ UTR	Forward primer for amplification of 5'UTR of SRS9 (TGME49_320190) for Gibson assembly	AACAGTGTTCGCTGATTGTCATATG
RP SRS9_5_ UTR	Reverse primer for amplification of 5'UTR of SRS9 (TGME49_320190) for Gibson assembly	TGTGTCGACCCGTGTGCA
FP SAG1_5_ UTR	Forward primer for amplification of 5'UTR of SAG1 (TGME49_233460) for Gibson assembly	TAAACGATCCGGGACGAC
RP SAG1_5_ UTR	Reverse primer for amplification of 5'UTR of SAG1 (TGME49_233460) for Gibson assembly	ACAACCGTGTGTTTACAC
FP GRA17	Forward primer for amplification of ORF of GRA17 (TGME49_222170) for Gibson assembly	ATGAAATCGGGCAGTTGCC
RP GRA17	Reverse primer for amplification of ORF of GRA17 (TGME49_222170) for Gibson assembly	CTGCTTGCCCTGCATGGC
FP GRA17_3_ UTR	Forward primer for amplification of 3'UTR of GRA17 (TGME49_222170) for Gibson assembly	GCGAAAAGTGACCCCTCGAC
RP GRA17_3_ UTR	Reverse primer for amplification of 3'UTR of GRA17 (TGME49_222170) for Gibson assembly	TCTGGTAGGAAACGTCAAC
Gibson_g175utr_UPRT	Forward primer for amplification of 5'UTR of GRA17 (TGME49_222170) for Gibson assembly	GACCTgTCCACAGGGCTTCTaaacgatgaaatgtgttgg
RV_5'utr_GRA17_rev	Reverse primer for amplification of 5'UTR of GRA17 (TGME49_222170) for Gibson assembly	tgcccatttcatAAAAACCGATTGAGCTC
Gibson_SAG5UTR_UPRT	Forward primer for amplification of 5'UTR of SAG1 (TGME49_233460) for Gibson assembly	GACCTgTCCACAGGGCTTCTaaacgatcgggagac
RV_SAG_5'utr_rev	Reverse primer for amplification of 5'UTR of SAG1 (TGME49_233460) for Gibson assembly	tgcccatttcatACAACCGTGTGTTACAC
Gibson_FW_SRS95URT_UPRT	Forward primer for amplification of 5'UTR of SRS9 (TGME49_320190) for Gibson assembly	GGACCTgTCCACAGGGCTTCTaacagtgttgcgtgatttcatatgc
RV_SRS9_5'utr_rev	Reverse primer for amplification of 5'UTR of SRS9 (TGME49_320190) for Gibson assembly	tgcccatttcatTGTGTCGACCCGTGTGCA
GRA17_fwd_SRS9	Forward primer for amplification of ORF of GRA17 (TGME49_222170) for Gibson assembly	acgggtgacacaATGAAATCGGGCAGTTGCC
GRA17_fwd_sag1	Forward primer for amplification of ORF of GRA17 (TGME49_222170) for Gibson assembly	aacacacggttTATGAAATCGGGCAGTTGCC
GRA17_fwd	Forward primer for amplification of ORF of GRA17 (TGME49_222170) for Gibson assembly	tcaatcgttttATGAAATCGGGCAGTTGCC
GRA17_rev_3xmyc	Reverse primer for amplification of 3'UTR of GRA17 (TGME49_222170) for Gibson assembly	CAGAGATGAGTTCCTCCATCTGCTGCCCTGCATGGC
3X_cmyc_top	Oligos of 3X c-Myc tag	ATGGAGCAGAAATCATCTCTGAAGAAGATCTGGAACAAAAGTTGATTTCAGAAAGATCTGGAACAGAAAGCTCATCTCTGAGGAAGATCTG
3X_cmyc_bottom	Oligos of 3X c-Myc tag	CAGATCTCTCAGAGATGAGTCTCTGTCAGATCTCTCTGAAATCAACTTTGTTCCAGATCTCTCAGAGATGAGTTCTGCTCCAT
GRA17_3'utr_fwd_3xmyc	Forward primer for amplification of 3'UTR of GRA17 (TGME49_222170) for Gibson assembly	CTCATCTCAGAGAGATCTGTGA GCGAAAAGTGACCCCTCGAC
Gibson_RV_g173utr_UPRT	Reverse primer for amplification of 3'UTR of GRA17 (TGME49_222170) for Gibson assembly	TTCCAGTCCGCGATTCCGTCAGCGGTCTGTGgagaacatgatttctactggtg
sgRNA UPRT	sgRNAR in the region +570 of ORF of TGME49_312480 (UPRT)	TGTGGTGCCTCATGAAGCAGA
P4 UPRT	Forward primers binding to region -1150 of TGME49_312480 (UPRT)	ACTACTGGCTCTCTCCCTGAGC
P5 UPRT	Reverse primer binding to region +1116 of ORF of TGME49_312480 (UPRT)	CCCCAGAACATCCAGAAGAAAAGACG
P6 GRA17	Reverse primer binding to 5'UTR region of GRA17 (TGME49_222170)	cccgatctctatagtaattca
P6 SAG1	Reverse primer binding to 5'UTR region of SAG1 (TGME49_222170)	attctgaqctcaqctctc
P6 SRS9	Reverse primer binding to 5'UTR region of SRS9 (TGME49_222170)	ctcgcggcagttccccttcta