

Table S1. Primers

Name	Sequence (5' to 3')	Function
pgp6 away F	GGGGCTAGCGGGATTGATTTTACGAGAGAGATTGCG	Delete <i>pgp6</i> from pBOMB4-Tet-mCherry
pgp6 away R	GGGGCTAGCTCAGCTTGCCTCTGAGAGTAATC	
pgp6@mCherry F	GAGAAAGGATCTGCGGCCGCATGAACAACTAAAAAAGAAGCGAATGTC	Insert <i>pgp6</i> into pBOMB4-Tet-mCherry
pgp6@mCherry R	GAATGGTCGACCGGTACCTGCAGTGACCGAGGATCAGCTCTTTTGC	
gfp@pUC19 F	GGTGCCTCACTGATTAAGCATTGGTAAGATGCCCGACGGTCTTTATAGCGG	Insert <i>gfp</i> into pUC19
gfp@pUC19 R	GGTAACAGGATTAGCAGAGCGAGGTTACTTGTATAGTTTCCATGCCATGTG	
mCherry@gfp F	GGTTTTTATCAAATTTACAAAAGGAAGCCGATCTAGATGGTCTTAAGGGCCGAGGAAGAC	Replace <i>gfp</i> with <i>mCherry</i> in pBOMB4-Tet-mCherry
mCherry@gfp R	CGCCCCGCCCTGCCACTCATCGTATTTGTACAGCTCATCCATGCCACCGG	
aadA F	CCGAAGCTTATCATCATGCCTCCTCTAGACC	Insert <i>aadA</i> into pUC18
aadA R	CCGAAGCTTGAGGGTATTTGCCGACTACCTTG	
trpA@pUC18A F	GGTCTGACGCTCAGTGGAACCGCAGAGCGGTTGAGTGCTATTT	Insert <i>trpA</i> +3kbp into pUC18A
trpA@pUC18A R	CTGGCGTTACCCAACCTAATCGCCGCTCTTGTGGTTTCGGCATTG	
ctl0063@pUC18A F	GGTCTGACGCTCAGTGAACCGGCATGTGGTTGCTGCTGTTTGTG	Insert <i>ctl0063</i> +3kbp into pUC18A
ctl0063@pUC18A R	CTGGCGTTACCCAACCTAATCGCCCTCCCTTTCAACTCCTCATTGCTATCC	
ctl0064@pUC18A F	GGTCTGACGCTCAGTGAACCGGGAGGACTAGGTTTGTGGTTGCGG	Insert <i>ctl0064</i> +3kbp into pUC18A
ctl0064@pUC18A R	CTGGCGTTACCCAACCTAATCGCCACGGGAGAGACATCGTAGAATTTT	
ctl0065@pUC18A F	GGTCTGACGCTCAGTGAACCGCCATCTTCCAGTGGATGCGAAGGT	Insert <i>ctl0065</i> +3kbp into pUC18A
ctl0065@pUC18A R	CTGGCGTTACCCAACCTAATCGCCGATCAAAGATAATCCGTTGGGGCTG	
trpA away F	GGGGGCGCGCTTTTGAATATGAATATGAAGCCAGGCATCG	Delete <i>trpA</i>
trpA away R	GGGGGCGCGCCAAATTCCTCTGTTTCTGCGGATGATTTGTGG	
ctl0063 away F	GGGGGCGCGCCTAAAGAGAAGGTATACGGTGTTCGGTCC	Delete <i>ctl0063</i>
ctl0063 away R	GGGGGCGCGCCATAAATCCTCCGCCGAAGCAATAAC	
ctl0064 away F	GGGGGCGCGCCGGAAATATCTAAGAACATTTTCTAATAGGGAAGAGG	Delete <i>ctl0064</i>
ctl0064 away R	GGGGGCGCGCCTACTACTTCTCTTAATAGTTGAAAGGACCG	
ctl0065 away F	GGGGGCGCGCCGCTGTCTGTGAAGAAGAGCAGATAGGACACAC	Delete <i>ctl0065</i>
ctl0065 away R	GCCGGCGCGCCATAAAGGATTTAGGTCTTTTGCCTATTCTTCAC	
bla-gfp F	GGGGGCGCGCCGAAATGTGCGCGGAACCC	Amplify <i>bla-gfp</i> cassette
bla-gfp R	GGGGGCGCGCCTTACTTGTATAGTTTCATCCATGCCATGTG	
homRR@pSUMC F	CTGCAGGTACCGGTGACCATTCGGTCTGACGCTCAGTGAACG	Insert homologous recombination targeting region into pSUMC
homRR@pSUMC R	GATCTTTTACGGGGTCTGACGCTCCTGGCGTTACCCAACCTAATCGCC	
aadA@pBOMB F	CAGCTCATCCATGCCACCGGTAGATCATCATGCCTCCTCTAGACC	Insert <i>aadA</i> into pBOMB4-Tet-mCherry
aadA@pBOMB R	CACGGATCCGACGCTTAAAGACCCGAGGGTATTTGCCGACTACCTTG	
mCherry@pBOMB F	TGCCTCACTGATTAAGCATTGGTAACGTGCGATGCCGACGGTCTTATAGCGG	Insert <i>mCherry</i> into pBOMB4-Tet-mCherry
mCherry@pBOMB R	CTCAGAAGATCTTTGATCTTTCTACGGGGTACTTGTACAGCTCGTCCATGCCG	
trpA@gfp F	CAAAAGGAAGCCGATCTAGTTGAGTAAAGGAGATGAGTAAATTAACCCAAAGTTTTAAAC	Replace <i>gfp</i> with <i>trpA</i> in pCOMa
trpA@gfp R	GCCCCGCCCTGCCACTCATCGTATCCAGGAATAACTGTTTGTGC	
surround trpA F	CATTGGAGTCTTACATGCTCTCG	Amplify sequence surrounding <i>trpA</i>
surround trpA R	TCTATACAGACAACCTATGAAGCCAGATA	
surround ctl0063 F	TAGTAGCTCTTGACGGGTGTGCTT	Amplify sequence surrounding <i>ctl0063</i>
surround ctl0063 R	TACTACTTCTCTTAAATAGTTGAAAGGACCG	
surround ctl0064 F	TAAAGAGAAGGTATACGGTGTTCGGTCC	Amplify sequence surrounding <i>ctl0064</i>
surround ctl0064 R	CATATAAGGATTTAGGTCTTTTGCCTATTCTTCAC	
surround ctl0065 F	GGGAATATCTAAGAACATTTTCTAATAGGGAAGAGG	Amplify sequence surrounding <i>ctl0065</i>
surround ctl0065 R	TGGATTAGGAGAACGCAAGCTGC	
gapdh s	CCTGGAGAACCTGCCAAGTATG	Amplify <i>Mus musculus gapdh</i> by qPCR
gapdh α-s	AGACAACCTGGTCTCAGTGTA	
16S s	CCTGGTAGTCTTGGCGTAAAC	Amplify <i>C. trachomatis</i> L2 16S by qPCR
16S α-s	TACTCCTCAGGCGGCATACTTA	
pgp7 s	GACAACGCTTCAAAGAAGATGGCTCTAATATAG	Amplify junction between <i>pgp7</i> and <i>pgp8</i> from the native pL2 plasmid by qPCR
pgp8 α-s	CCTCTAGTACAAACACCCCAATATTGTG	
gfp s	GTGCCATGCCGAAGGTTAT	Amplify <i>gfp</i> by qPCR
gfp α-s	CTTCAGCACGTGTCTTGTAGTTC	
mCherry s	AGATCAAGCAGAGGCTGAAGCTGA	Amplify <i>mCherry</i> by qPCR
mCherry α-s	ACTGTTCCACGATGGTGTAGTCTT	
trpA s	GACGCGGAATAAATGGTGTGT	Amplify <i>trpA</i> by qPCR
trpA α-s	GGCGTTGTCCTGCAGAAAT	
ctl0063 s	TAACTATCTGTGGGAGGGAAG	Amplify <i>ctl0063</i> by qPCR
ctl0063 α-s	GGCATCTACCGTAGGATCTGTA	
ctl0064 s	TTCGGAGCTCATAGGAGAACT	Amplify <i>ctl0064</i> by qPCR
ctl0064 α-s	GCTCATTACAGGAGGGAATAC	
ctl0065 s	TCGTAGAGGTTCTGCTAGCCTTT	Amplify <i>ctl0065</i> by qPCR
ctl0065 α-s	TCGGTAATCACGCCTCCGATAA	