

Target	Primer name	Primer Sequence (5'→3')
Cloning Primers		
<i>cre</i>		
	CRE@pUC18A-F	GGTCTGACGCTCAGTGGAACGGCAGAGGCCTGCGGATCC
	CRE@pUC18-R	CTGGCGTTACCCAACCTTAATCGCCGGAGGACACCATGTCCAATTTACTGACCGTACACC
	CRE-aadA@pSUMC-F	CTGCAGGTACCGGTGACCATTCGCAAGCTTATCATCATGCCTCC
	CRE-aadA@pSUMC-R	GATCTTTCTACGGGGTCTGACGCTCGCAGAGGCCTGCGGATCC
	CRE+Pbla-F	AGGGTTATTGTCTCATGAGCGGATACATATTTGAAGTCACGACGTTGTAACGACGGC
	CRE+Pbla-R	GATAAATGCTTCAATAATATTGAAAAGGAAGAGTATGTCCAATTTACTGACCGTACACC
<i>tmeA</i>		
	loxP-blagfp-F	CTACTTCGTATAGCATAACATTATACGAAGTTATGGAAATGTGCGCGGAACCC
	LoxP-blagfp-R	ATAACTTCGTATAATGTATGCTATACGAAGTTATTTACTTGTATAGTTCATCCATGCCAT
	HomRR@pSUMC-F	CTGCAGGTACCGGTGACCATTCGGTCTGACGCTCAGTGGAACG
	HomRR@pSUMC-R	GATCTTTCTACGGGGTCTGACGCTCCTGGCGTTACCCAACCTTAATCGCC
Screening Primers for <i>gfp-bla</i>		
ploxP-GFP -bla		
	Screen-S	CTTAGCCGTGAAAGTACACAACCTATTG
	Screen-AS	GAGAAGCGACATCTTTACGTTTCGCC
<i>tmeA</i> locus		
	Surroundctl0063-F	TAGTAGCTCTTGCAGGGTGTACTT
	Surroundctl0063-R	TACTACTTCCTCTTAATAGTTGAAAGGACCG
qPCR Primers		
<i>16s</i>	Fwd	CCTGGTAGTCCTTGCCGTAAC
	Rev	TACTCCTCAGGCGGCATACTTA
<i>tmeA</i>	Fwd	TAACCTATCTGTGGGAGGGAAG
	Rev	GGCATCTACCGTAGGATCTGTA

<i>tmeB</i>	Fwd	TTCGGAGCTCATAGGAGAACT
	Rev	GCTCATTACAGGAGGGAATAC
<i>gfp</i>	Fwd	GTGCCATGCCCGAAGGTTAT
	Rev	CTTCAGCACGTGTCTTGTAGTTCC
<i>cre</i>	Fwd	TGCAAGTTGAATAACCGGAAATG
	Rev	GGGCCTGAAGATATAGAAGATAATCG
<i>rpoD</i>	Fwd	GCGGTGTTCCATTGTCGTCATA
	Rev	ATTTCTCTCAGCTCGCGCTTTC
<i>Ct696</i>	Fwd	TCGTAGAGGTTCTGCTAGCCTTT
	Rev	TCGGTAATCACGCCTCCGATAA
pL2	Fwd	GACAACGCTTCAAAGAAGATGGCTCTA
	Rev	CCTCTAGTACAAACACCCCAATATTGTG

Supplementary Table 1. Custom Primers