

Primers used for cloning and mutagenesis.

Primer	Sequence 5'-3'
MetRS 5' +100	CCCGCCCGCCGCGCGAGCCCGCGCCCCTGCTAGAATCGC
MetRS 3' -100	GGCACGTTCCAGGGCGTCGACCTGAACTACACGCGGCGG
MetRS NcoI	AAAAAACCATGGCCGCATCCGACCTCACTTCCGTGCAGGCTGCG
MetRS HindIII	AAAAAAAAGCTTCTTCACGCGCATGCCGGGCTTCGCGCCGC
BcTilS 5' +100	CGCTGCGCCAGTTCCAGGGCATGAGCATCGATGCGCTGC
BcTilS 3' -100	GCGTGCGGATTTTGCCCGGAAGGCCGATCAGGCCGCGC
BcTilS NheI	AAAAAAGCTAGCGTGATCCCACCCACCGAATTCTCCGC
BcTilS HindIII	AAAAAAAAGCTTCTAGGCGATCAGCAAATCGGGGCGCC
BcTilS Y274N for	GGCGCGAACCTGCTGCGCTTG
BcTilS Y274N rev	CAGCAGGTTTCGCGCCGCGCGT
BcTilS A244T for	CGAGCTCGGTGAGATCGTCGAGCAGCCGC
BcTilS A244T rev	CGATCTGACCGAGCTCGATTTGCGCGTCG
BcTilS P421L for	CCACGCCAGCACCCCGCGCTCC
BcTilS P421L rev	GGTGCTGGCCTGGCAACGCG
BcTilS N445K for	GATGTCGCGCTTGACGCCCAGTC
BcTilS N445K rev	GGCGTCAAGCGCGACATCGGCG
BcTilS A244S for	GCTCGACGATCTGTCCGAGCTCGATTTGCG
BcTilS A244S rev	GCGAAATCGAGCTCGGACAGATCGTCGAGC
BcTilS N274A for	CGCGCGGCGCGGCCCTGCTGCGCTTCTGG
BcTilS N274A rev	CCAGAAGCGCAGCAGGGCCGCGCCGCGCG
BcTilS P421A for	GAGCGCGGGGTGGCGGCCTGGCAACGCGAC
BcTilS P421A rev	GTCGCGTTGCCAGGCCGCCACCCCGCGCTC
BcTilS N445A for	CGCGACTGGGCGTCGCCCGCGACATCGGCG
BcTilS N445A rev	CGCCGATGTCGCGGGCGACGCCAGTCGCG
BctRNA <sup>Ile2</sup> 5'	AATTCCTGCAGTAATACGACTCACTATAGGGCCCCTAGCTCATGCTTG GTTAGA GCAGCGAACTCATAATTC
BctRNA <sup>Ile2</sup> 3'	mUmGGTGGGCCCCCGGGAGTCGAACCCGGCACCAACGAATTATGA GTCCGC
BctRNA <sup>Met</sup> 5'	AATTCCTGCAGTAATACGACTCACTATAGGCGAATTAGCTCAGTCGGTT AGAGC GACGGAATCATAATC
BctRNA <sup>Met</sup> 3'	mUmGGTGGCGAATCAGGGATTTCGAACCCCGGACCTGCGGATTATGAT TCCG