

**Table S2. List of used primers for MgsR mutagenesis**

name	sequence
mgsR_+5`mRNA region_for	ACAAAGAGATGGTTAACTGAGGAGGAAAAACGAATGGA ACAACAATTA ACTTTTTAC
pX_UP+mgsR 5`region_fusion_r ev	CCTCAGTTAACCATCTCTTTGTGATTTAAGTGAACAAGTTT ATC
amyE_front_for	TGTTTGCAAACGATTCAAAC
amyE_back_rev	AATGGGGAAGAGAACCGC
mgsR_R17K_for	CTGCACGTCATGCAAGAAAACAAAACATTG
mgsR_R17K_rev	CAATGTTTTGTTTTCTTGCATGACGTGCAG
mgsR_R37/42K_f or	CGGCACTTATTCAAAGAAACCCCGACAAAAG
mgsR_R37/42K_r ev	CTTAATTCTTCTTTTGTGCGGGTTTCTTTG
mgsR_R33K_for	GAATTTAACGAAAAGCACTTATTCAGAG
mgsR_R33K_rev	CTCTGAATAAGTGCTTTTCGTTAAATTC
mgsR_R63K_for	GAAATTTTGCGACAAAAGCCAGACTTTC
mgsR_R63K_rev	GAAAGTCTGGCTTTTTGTCGCCAAAATTC
mgsR_R94/95K_f or	GAAGCCGAAGCTTTTGAAGAAACCGATTCTAGTAGACAA C
mgsR_R94/95K_r ev	GTTGTCTACTAGAATCGGTTTCTTCAAAGCTTCGGCTTC
mgsR_R33E_for	GAATTTAACGAAGAGCACTTATTCAGAG
mgsR_R33E_rev	CTCTGAATAAGTGCTCTTCGTTAAATTC
mgsR_R63E_for	GAAATTTTGCGACAGAAAGCCAGACTTTC

mgsR_R63E_rev	GAAAGTCTGGCTTTCTGTGCGCCAAAATTC
mgsR_R94/95E_for	GAAGCCGAAGCTTTTGGAGGAACCGATTCTAGTAGACAA C
mgsR_R94/95E_rev	GTTGTCTACTAGAATCGGTTCCCTCCAAAAGCTTCGGCTTC
mgsR_37/42E_for	CGGCACTTATTCGAAGAAACCCCGACAGAAG
mgsR_R37/42E_rev	CTTTAATTCTTCTTCTGTGCGGGGTTTCTTCG
mgsR_R17E_for	CTGCACGTCATGCGAGAAAACAAAACATTG
mgsR_R17E_rev	CAATGTTTTGTTTTCTCGCATGACGTGCAG
mgsR_up200+_BamHI_for	CGGGATCCCCGAGAGTCCCTCTGACTG
mgsR_BamHI_rev	GAGGATCCTCATGCAGATTGATGAACCGT
C-STREP_rev	GAGGATCCTCATTTTTCAAATTGCGGATGTGACCA
mgsR_C-STREP_to_add_rev	AAATTGCGGATGTGACCATGCAGATTGATGAACCGTTTTTC