

## Supplemental Figure 1

Primers used for cloning into MBP-pp:

FOR – 5' gcgcaattccctgtggatttcactatgg – 3'

REV – 5' gcgcaagcttcacacagatcggtttacctc – 3'

Primers used for L to M mutations:

L60M FOR 5' – gacagctggcgttctggggatgagaataaagaatgccctta – 3'

REV 5' – taaggcattctttattctcatccccagaacgccagctgtc – 3'

L167M FOR 5' – gtaggaccaccaggcttatgctctctgtggcaaacgg – 3'

REV 5' – ccgtttgccacagagcataagcctggtggtcctac – 3'

L258M FOR 5' – ccttaatcgccgcctgagaatgtgtaaagtccc – 3'

REV 5' – gggactttacacattctcagggcggcgattaagg – 3'