**Table S1**: DNA oligonucleotide primers used in the study.

| Primer name | Oligonucleotide sequence (5'-3') | Primer length (mer) |
|-------------|---------------------------------|---------------------|
| E113A       | F: ggacagttttcgatttcccattcagctttttttgtcacaatg | 48 |
|             | R: catgtggcagaaaaagaagagtcgaatgaggggaatggaactgtcc | 48 |
| E113Q       | F: cagttttcgatttcccatttctctttttttgtcacaatg | 45 |
|             | R: catgtggcagaaaaagaagagtcgaatgaggggaatggaactgtcc | 45 |
| E116A       | F: ttcttcagatggacagttttcgcattcattcttctttttctg | 50 |
|             | R: cagaaaaagagaagagaatggtctatcagaaaaactgtcctcattggaaga | 50 |
| E116Q       | F: cagatggacagttttcgcattcattcttctttttctg | 43 |
|             | R: gaaaaagagaagagaatggtctatcagaaaaactgtcctcattggaaga | 43 |
| E124A       | F: tatagatagtctgatttcttagtttcttcagatggacagttttctg | 52 |
|             | R: gaaaatggaactgtcctcatctgaagctagctagctatgatctatctata | 52 |
| E124Q       | F: gatatcgatatttcttttcttcagatggacagttttctg | 47 |
|             | R: aaaaatggaactgtcctcatctgaagctagctagctatgatctatctata | 47 |
| E127A       | F: gtaacctcattatatctgatcattttcttcagatggacagttttctg | 56 |
|             | R: aaaaatggaactgtcctcatctgaagctagctagctatgatctatctata | 56 |
| E127Q       | F: attcatatatagacatcattttctttcttcagatggacagttttctg | 47 |
|             | R: aatactgtcctcatctgaagctagctagctatgatctatctata | 47 |
| E165A       | F: cttctgtttgtaacgatcattttcagacatcatgttccaaaa | 52 |
|             | R: tttttaggaactatgatgtcttagcttgggtttaatccattcacaacgag | 52 |
| E165Q       | F: gtttgtaacagattaaaaaccaattttctagacatcatgttccaaaa | 47 |
|             | R: tttttaggaactatgatgtcttagcttgggtttaatccattcacaacgag | 47 |
| M161A       | F: attaaacccaatctttcagacatctgtttgcaaaaaagaaatcttttttctaaagtcttaacca | 70 |
|             | R: tggtaaatctctctttgtagaatagttcttttggaaactgctagtctgaagatggtttaaat | 70 |
| M161L       | F: ttacacccaatctttcagacatcataaagtctttgcaaaaaagaaatcttttttctaaagtcttaacca | 57 |
|             | R: actctttagaaataaatctttttgttgaacattttttggaatgtggtttaaat | 57 |
| M161C       | F: attaaacccaatctttcagacatcataaagtcttttggaaacattttttggaatgtggtttaaat | 70 |
|             | R: tggtaaatctcttttagaaataaatcttttttttggaacattttttggaatgtggtttaaat | 70 |
M161E  
F: attaacccaaatttcagacatttcatgtttccaaaaaagaattttcattctattctaaaagtatttcaacca  
R: tggttgaaatcacttttagaaataagaatttttttggaacatgaaatgtctgaagaatgtgggttaat  

M162A  
F: ttggtttgtaacgattaaccccaatttccagaagccatatgtttccaaaaaagaattttcattctaaa  
R: ttagaaataagaatattctttttggaacatgtgtctgaagaattttgttaatcgttacaaacgaa