**Table S1**: Name of mutant constructs, location of amino acid modifications and oligonucleotides used for mutagenesis.

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| --- | --- | --- |
| **Name of mutants** | **Mutated amino acid(s)** | **Site-directed mutagenesis oligonucleotides** |
| ΔLfK13R | K13R | F: 5’-CTCCTGTCAGCTGCATACGGAGAGACTCCCCCATC-3’R: 5’-GATGGGGGAGTCTCTCCGTATGCAGCTGACAGGAG-3’ |
| ΔLfK308R | K308R | F: 5’-CATCCAGAACTTGAGGAGAAGTGAGGAGGAAGTGG-3’R: 5’-CCACTTCCTCCTCACTTCTCCTCAAGTTCTGGATG-3’ |
| ΔLfK361R | K361R | F: 5’-ACTGCATCGCCCTGGTGCTGAGAGGAGAAGCTGAT-3’R: 5’-ATCAGCTTCTCCTCTCAGCACCAGGGCGATGCAGT-3’ |
| ΔLfK379R | K379R | F: 5’-TGTGTACACTGCATGCAGATGTGGTTTGGTGCCTG -3’R: 5’-CAGGCACCAAACCACATCTGCATGCAGTGTACACA-3’ |
| ΔLfK391R | K391R | F: 5'-CCTGGCAGAGAACTACAGATCCCAACAAAGCAGTG-3’R: 5’-CACTGCTTTGTTGGGATCTGTAGTTCTCTGCCAGG-3’ |
| K13 | K308R, K361R, K379R, K391R |  |
| K308 | K13R, K361R, K379R, K391R |  |
| K361 | K13R, K308R, K379R, K391R |  |
| K379 | K13R, K308R, K361R, K391R |  |
| K391 | K13R, K308R, K361R, K379R  |  |
| M5S | K13R, K308R, K361R, K379R, K391R |  |