

**S2 Table. Primers used in this study**

<b>Name</b>	<b>Sequence</b>
toxR D89A top	CGCAAATGCTCAAAGCTTCGACAAAGTCCC
toxR D89A bottom	GGGACTTTGTCTGAAGCTTTGAGCATTTTGCG
ToxR S90A top	CAAATGCTCAAAGATGCGACAAAGTCCCCAC
ToxR S90A bottom	GTGGGGACTTTGTCTGCATCTTTGAGCATTTTG
ToxR T91A top	ATGCTCAAAGATTCGGCAAAGTCCCCACAATAC
ToxR T91A bottom	ATTGTGGGGACTTTGCCGAATCTTTGAGCATTTTG
toxR K92A top	CTCAAAGATTCGACAGCGTCCCCACAATACGTC
toxR K92A bottom	GACGTATTGTGGGGACGCTGTCTGAATCTTTGAG
toxR S93A top	CAAAGATTCGACAAAGGCCCCACAATACGTCAAAC
toxR S93A bottom	GTTTTGACGTATTGTGGGGCCTTTGTCTGAATCTTTG
toxR P94A top	GATTCGACAAAGTCCGCACAATACGTCAAAC
toxR P94A bottom	GTTTTGACGTATTGTGCGGACTTTGTCTGAATC
ToxR Q95A top	TCGACAAAGTCCCCAGCATACTGTCAAACGGTTC
ToxR Q95A bottom	GAACCGTTTTGACGTATGCTGGGGACTTTGTCTGAATC
ToxR Y96A top	GACAAAGTCCCCACAAGCCGTCAAACGGTTC
ToxR Y96A bottom	GAACCGTTTTGACGGCTTGTGGGGACTTTGTCT
ToxR V97A top	CAAGTCCCCACAATACGCCAAAACGGTTCCGAAG
ToxR V97A bottom	CTTCGGAACCGTTTTGGCGTATTGTGGGGACTTG
toxR K98A top	GTCCCCACAATACGTCTGCAACGGTTCCGAAGCG
toxR K98A bottom	CGTTCTCGGAACCGTTGCGACGTATTGTGGGGAC
toxR T99A top	CACAATACGTCAAAGCGGTTCCGAAGCGCGG
toxR T99A bottom	CCGCGCTTCGGAACCCGTTTGACGTATTGTG
ToxR V100A top	CAATACGTCAAACGGCTCCGAAGCGCGGTTAC
ToxR V100A bottom	GTAACCGCGCTTCGGAGCCGTTTTGACGTATTG
toxR P101A top	CAATACGTCAAACGGTTGCGAAGCGCGGTTACC
toxR P101A bottom	GGTAACCGCGCTTCGCAACCGTTTTGACGTATTG
toxR K102A top	GTCAAAACGGTTCCGGCGCGCGGTTACCAATTG
toxR K102A bottom	CAATTGGTAACCGCGCGCCGGAACCGTTTTGAC
toxR R103A top	CAAACCGGTTCCGAAGGCCGGTTACCAATTGATC
toxR R103A bottom	GATCAATTGGTAACCGGCCTTCGGAACCGTTTTG
toxR G104A top	CGGTTCCGAAGCGCGCTTACCAATTGATCGC
toxR G104A bottom	GCGATCAATTGGTAAGCGCGCTTCGGAACCG
ToxR Y105A top	GTTCCGAAGCGCGGTGCCCAATTGATCGCCCGAG
ToxR Y105A bottom	CTCGGGCGATCAATTGGGCACCGCGCTTCGGAAC
ToxR Q106A top	CCGAAGCGCGGTTACGCATTGATCGCCCGAGTG
ToxR Q106A bottom	CACTCGGGCGATCAATGCGTAACCGCGCTTCGG
ToxR L107A top	GAAGCGCGGTTACCAAGCGATCGCCCGAGTGGAAC
ToxR L107A bottom	GTTTCCACTCGGGCGATCGCTTGTAACCGCGCTTC
ToxR I108A top	CGCGGTTACCAATTGGCCGCCCGAGTGGAAC

ToxR I108A bottom	GTTTCCACTCGGGCGGCCAATTGGTAACCGCG
ToxR R110A top	GTTACCAATTGATCGCCGCAGTGGAAACGGTTGAAG
ToxR R110A bottom	CTTCAACCGTTTCCACTGCGGGCGATCAATTGGTAAC
ToxR V111A top	CAATTGATCGCCCGAGCGGAAACGGTTGAAGAAG
ToxR V111A bottom	CTTCTTCAACCGTTTCCGCTCGGGCGATCAATTG
ToxR E112A top	GATCGCCCGAGTGGCAACGGTTGAAGAAGAG
ToxR E112A bottom	CTCTTCTTCAACCGTTGCCACTCGGGCGATC
ToxR T113A top	GATCGCCCGAGTGGAAAGCGGTTGAAGAAGAGATG
ToxR T113A bottom	CATCTCTTCTTCAACCGCTTCCACTCGGGCGATC
ToxR V114A top	GCCCGAGTGGAAACGGCTGAAGAAGAGATGGCTC
ToxR V114A bottom	GAGCCATCTCTTCTTCAGCCGTTTCCACTCGGGC
ToxR V111A top	CAATTGATCGCCCGAGCGGAAACGGTTGAAGAAG
ToxR V111A bottom	CTTCTTCAACCGTTTCCGCTCGGGCGATCAATTG
ToxR E112A top	GATCGCCCGAGTGGCAACGGTTGAAGAAGAG
ToxR E112A bottom	CTCTTCTTCAACCGTTGCCACTCGGGCGATC
ToxR T113A top	GATCGCCCGAGTGGAAAGCGGTTGAAGAAGAGATG
ToxR T113A bottom	CATCTCTTCTTCAACCGCTTCCACTCGGGCGATC
ToxR V114A top	GCCCGAGTGGAAACGGCTGAAGAAGAGATGGCTC
ToxR V114A bottom	GAGCCATCTCTTCTTCAGCCGTTTCCACTCGGGC