

Fig. S1

Supplementary Table 1. Primers used in this study.

Primer Name	Description	Sequence 5' to 3' Direction	Source
BP22	Outside Primer (Forward) for ToxT insertion in pBAD33 (<i>Xba</i> I)	GCTCTAGATTTAGGATACATTTTTATGATTGGGAAAAAATCTTTTCAAAC	1
BP195	Outside Primer (Reverse) for ToxT insertion in pBAD33 (<i>Pst</i> I)	GATCCTGCAGTTAATGATGATGATGATGATGTTTTCTGCAACTCCTGTGC	1
BP171	Outside Primer (Forward) for ToxT insertion in pMAL-c2e (<i>Kpn</i> I)	GACAAGGTACCGATGATTGGGAAAAAATCTTTTCAAAC	1
BP172	Outside Primer (Reverse) for ToxT insertion in pMAL-c2e (<i>Pst</i> I)	GATCCTGCAGTTATTTTTCTGCAACTCCTGTCAAAC	1
JT96	G100A Inside Primer (Reverse) Pair with BP22 or BP171	CCTTATCATGAGATCAGCAAGAATGTAAGATTTAG	2
JT97	G100A Inside Primer (Forward) Pair with BP195 or BP172	CTAAAATCTTACATTCTTGCTGATCTCATGATAAGG	2
JT98	D101A Inside Primer (Reverse) Pair with BP22 or BP171	CTATATAAATTCCTTATCATGAGAGCACCAAGAATGTAAG	2
JT99	D101A Inside Primer (Forward) Pair with BP195 or BP172	CTTACATTCTTGGTGCCTCATGATAAGGAATTTATATAG	2
JT100	L102A Inside Primer (Reverse) Pair with BP22 or BP171	CTATATAAATTCCTTATCATGGCATCACCAAGAATGTAAG	2
JT101	L102A Inside Primer (Forward) Pair with BP195 or BP172	CTTACATTCTTGGTGATGCCATGATAAGGAATTTATATAG	2
JT102	M103A Inside Primer (Reverse) Pair with BP22 or BP171	CACTATATAAATTCCTTATCGCGAGATCACCAAGAATG	2
JT103	M103A Inside Primer (Forward) Pair with BP195 or BP172	CATTCTTGGTGATCTCGCGATAAGGAATTTATATAGTG	2
JT104	I104A Inside Primer (Reverse) Pair with BP22 or BP171	CACTATATAAATTCCTTGGCATGAGATCACCAAGAATG	2
JT105	I104A Inside Primer (Forward) Pair with BP195 or BP172	CATTCTTGGTGATCTCATGGCAAGGAATTTATATAGTG	2
JT106	R105A Inside Primer (Reverse) Pair with BP22 or BP171	CTTTATTTTCACTATATAAATTCGCTATCATGAGATCACC	2
JT107	R105A Inside Primer (Forward) Pair with BP195 or BP172	GGTGATCTCATGATAGCGAATTTATATAGTGAAAAATAAAG	2
JT71	N106A Inside Primer (Reverse) Pair with BP22 or BP171	CTTTATTTTCACTATATAAAGCCCTTATCATGAGATCACC	2
JT72	N106A Inside Primer (Forward) Pair with BP195 or BP172	GGTGATCTCATGATAAGGGCTTTATATAGTGAAAAATAAAG	2
JT73	L107A Inside Primer (Reverse) Pair with BP22 or BP171	GATCTTTATTTTCACTATATGCATTCCTTATCATGAGATC	2
JT74	L107A Inside Primer (Forward) Pair with BP195 or BP172	GATCTCATGATAAGGAATGCATATAGTGAAAAATAAAGATC	2
JT108	Y108A Inside Primer (Reverse) Pair with BP22 or BP171	GTAATAGATCTTTATTTTCACTAGCTAAAATTCCTTATCATGAG	2
JT109	Y108A Inside Primer (Forward) Pair with BP195 or BP172	CTCATGATAAGGAATTTAGCTAGTGAAAAATAAAGATCTATTAC	2
JT110	S109A Inside Primer (Reverse) Pair with BP22 or BP171	CAAAGTAATAGATCTTTATTTTCAAGCATATAAATTCCTTATC	2
JT111	S109A Inside Primer (Forward) Pair with BP195 or BP172	GATAAGGAATTTATATGCTGAAAAATAAAGATCTATTACTTTG	2
JT112	E110A Inside Primer (Reverse) Pair with BP171	CCAAAGTAATAGATCTTTATTTGCACTATATAAATTCCTTATC	2
JT113	E110A Inside Primer (Forward) Pair with BP172	GATAAGGAATTTATATAGTGCAAATAAAGATCTATTACTTTGG	2
JT75	L114A Inside Primer (Reverse) Pair with BP171	CATTATGTTTCAAAATCCAAAGTAATGCATCTTTATTTTAC	2
JT76	L114A Inside Primer (Forward) Pair with BP172	GTGAAAAATAAAGATGCATTACTTTGGAATGTGAACATAATG	2
JT144	R105K Inside Primer (Reverse) Pair with BP171	CTTTATTTTCACTATATAAATTCCTTATCATGAGATCACC	2
JT145	R105K Inside Primer (Forward) Pair with BP172	GGTGATCTCATGATAAAGAAATTTATATAGTGAAAAATAAAG	2
JT146	R105Q Inside Primer (Reverse) Pair with BP171	CTTTATTTTCACTATATAAATTCGTATCATGAGATCACCAAG	2
JT147	R105Q Inside Primer (Forward) Pair with BP172	CTTGGTGATCTCATGATACAGAATTTATATAGTGAAAAATAAAG	2
JT148	L107F Inside Primer (Reverse) Pair with BP171	GATCTTTATTTTCACTATAAAAAATTCCTTATCATGAGATC	2
JT149	L107F Inside Primer (Forward) Pair with BP172	GATCTCATGATAAGGAATTTTATAGTGAAAAATAAAGATC	2
JT150	L107S Inside Primer (Reverse) Pair with BP171	GATCTTTATTTTCACTATAAAGAAATTCCTTATCATGAGATC	2
JT151	L107S Inside Primer (Forward) Pair with BP172	GATCTCATGATAAGGAATTCCTTATAGTGAAAAATAAAGATC	2
JT156	N106F Inside Primer (Reverse) Pair with BP171	GATCTTTATTTTCACTATAAAAAACCTTATCATGAGATC	2
JT157	N106F Inside Primer (Forward) Pair with BP172	GATCTCATGATAAGGTTTTATATAGTGAAAAATAAAGATC	2
JT180	N106S Inside Primer (Reverse) Pair with BP171	CTTTATTTTCACTATAAAGACCTTATCATGAG	2
JT181	N106S Inside Primer (Forward) Pair with BP172	CTCATGATAAGGTCCTTATATAGTGAAAAATAAAG	2
JT182	R105A, N106A Inside Primer (Reverse) Pair with BP171	CTTTATTTTCACTATAAAGCCGCTATCATGAGATCACCAAG	2
JT183	R105A, N106A Inside Primer (Forward) Pair with BP172	CTTGGTGATCTCATGATAGCGCTTTATATAGTGAAAAATAAAG	2
JT184	R105F Inside Primer (Reverse) Pair with BP171	CTTTATTTTCACTATAAATTTAAATATCATGAGATCACCAAG	2
JT185	R105F Inside Primer (Forward) Pair with BP172	CTTGGTGATCTCATGATTTAATTTATATAGTGAAAAATAAAG	2

1: Abuaita and Withey (24)

2: This study

Fig. S2

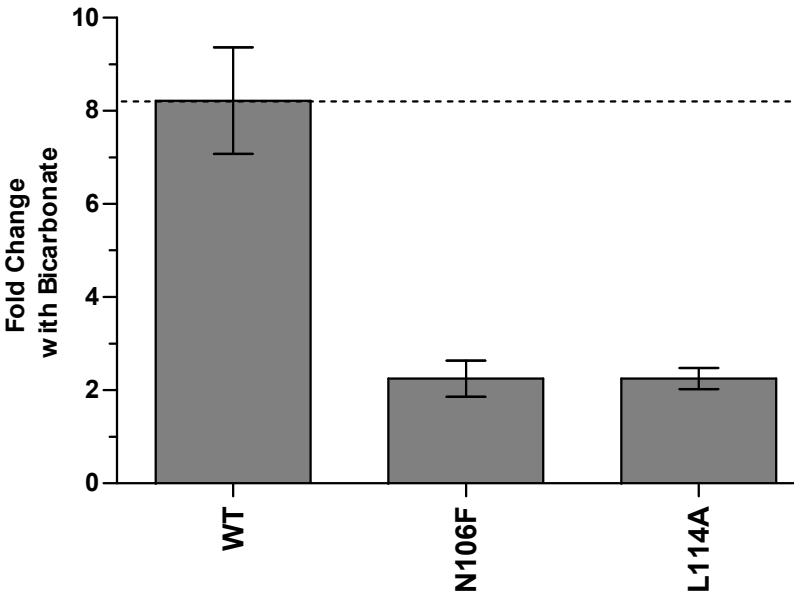
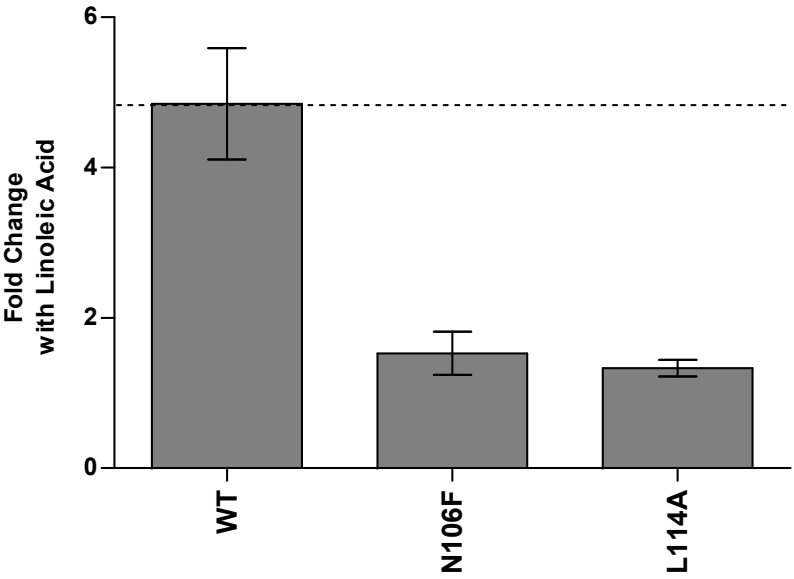


Fig. S3

