

**Table S1.** Primers used in this study

<b>Name</b>	<b>Sequence (5' to 3')</b>	<b>Brief Description</b>
TH126	GACTCTGCAGCTCGAGTATGCAGTGAGGCTCTTATGATT	<i>Plef-lacZ</i> insertion
TH127	GATAGGATCCATAAAGACGGGACCACTCAAAG	<i>Plef-lacZ</i> insertion
TH128	CAGTGGTACCGGGACCAGCCATTATGAAGCAAC	<i>Plef-lacZ</i> insertion
TH129	GGAAGAATTCAAGATGAAGATCGACAAAATGGCTC	<i>Plef-lacZ</i> insertion
TH191	GGTAGTCGACAGGAAAGGAGAATCAATTATAGACATGC	<i>atxA</i> rbs Sali
TH192	CCTTGCATGCTTATATTATCTTTTTGATTTTCATG	<i>atxA</i> stop codon SphI
TH198	GGGCATGCTATTTATCATCATCATCTTTATAATCTATTATCTTT TTGATTTTCATGAAAAT	<i>atxA</i> stop codon + FLAG SphI
TH199	GGGCATGCTAGTGGTGGTGGTGGTGGTGTATTATCTTTTTGATT TCATGAAAAT	<i>atxA</i> stop codon + His6 SphI
TH228	CTAAATCTTCAAATTAGTGAAGAACTTGTATTTC	<i>atxA</i> C96S
TH229	GAATACAAGTTCTTCACTAATTTGAAGATTTAG	<i>atxA</i> C96S
TH216	ATGTTAAGGTTATATAGTAATATTCCAAATGAT	<i>atxA</i> C161S
TH217	ATCATTTGGAATATTACTATATAACCTTAACAT	<i>atxA</i> C161S
TH218	TCAAAACACAAATTGAGTGTGTTGTTTCGCTATA	<i>atxA</i> C202S
TH219	TATAGCGAACAACACACTCAATTTGTGTTTTGA	<i>atxA</i> C202S
TH230	AATACAATTCAAGAAAGTATTAgTAATTTAAAC	<i>atxA</i> C356S
TH231	GTTTAAATTAcTAATACTTTCTTGAATTGTATT	<i>atxA</i> C356S
TH222	TACTCCATTTTCGACAGTTATGAAATTTTCATTA	<i>atxA</i> C370S
TH223	TAATGAAATTTTCATAACTGTGCAATGGGAGTA	<i>atxA</i> C370S
TH224	TACACCTCACAAGGAAGTATACATCGAGAG	<i>atxA</i> C402S
TH225	CTCTCGATGTATACTTCCTTGTGAGGTGTA	<i>atxA</i> C402S
TH247	CCAAGTCGACAGGAAAGGAGAATCAATTATAGACATGCTATTTA AAAATAACCCG	<i>atxA</i> rbs + codon 385 Sali
TH260	GGGCATGCTATTTATCATCATCATCTTTATAATCCATACGTTGA GTTTCAAATGCATTG	<i>atxA</i> codon 385 + FLAG + stop codon SphI
TH193	GCGCGTCGACCTCTAGATTTAAGAAGGAGATATAC	GFPmut3a rbs Sali
TH234	GGGCATGCTATTTATCATCATCATCTTTATAATCTTTGTATAGT TCATCCATGCCATG	GFP mut3a stop codon + FLAG
JR170	GGCCGCGGAGAGCCGCATTAAACT	<i>atxA</i> markerless deletion
JR171	GGGCATGTCTATAATTGATTCTCCTTTCTG	<i>atxA</i> markerless deletion
JR172	GAGAATCAATTATAGACATGCCCTTTAAATATTTGTTTAATGAC AC	<i>atxA</i> markerless deletion
JR173	GGCTCGAGCGCTTGTCTCACAATCTCATC	<i>atxA</i> markerless deletion

