Table S1. Sequences of primers used in this study

Designation	Sequence	Length (bp)	Target
P146F1F	CACCGTTGCCTTTAAATCCGATGTC	25	$F1_{P146}$ forward primer
P146F1R	TCATACCTTAAAGTCGCTAAGTTG	24	$F1_{P146}$ reverse primer
P146F2F	CACCGCTCCACAGACAAGTTCTTCG	25	$F2_{P146}$ forward primer
P146F2R	TCACTCTTGTTGTTGGAACTCGGT	24	$F2_{P146}$ reverse primer
P146F3F	CACCGCAAATTCAACTAATTCTAGT	25	$F3_{P146}$ forward primer
P146F3R	TTACCTCGCCGCCTTAGCAG	20	$F3_{P146}$ reverse primer
P146Mut1F	GTTTCAGCTTGGTCTAACTTAGAT	24	TGA mutation 1 forward primer
P146Mut1R	ATCTAAGTTAGACCAAGCTGAAAC	24	TGA mutation 1 reverse primer
P146Mut2F	TCAAGTTTCTTTGGTGATTCA	21	TGA mutation 2 forward primer
P146Mut2R	TGAATCACCAAAGAAACTTGACCAAAGACTAAT	33	TGA mutation 2 reverse primer
P146Mut3F	GAGGCACTTTTAGATGCTTGGGTTGGAAAACAAAATTTC	39	TGA mutation 3 forward primer
P146Mut3R	GAAATTTTGTTTTCCAACCCAAGCATCTAAAAGTGCCTC	39	TGA mutation 3 reverse primer
P146Mut4F	CAGGCTAAAAGATTAAATTTTGCAAGTTGGAGTCAACTCCAAGACG	46	TGA mutation 4 forward primer
P146Mut4R	CGTCTTGGAGTTGACTCCAACTTGCAAAATTTAATCTTTTAGCCTG	46	TGA mutation 4 reverse primer
P146Mut5F	GAACAAGTTAAAACAAATAATGGCC	25	TGA mutation 5 forward primer
P146Mut5R	GGCCATTATTTGTTTTAACTTGTTCCCATTCACTTTGTTTTAGATA	46	TGA mutation 5 reverse primer
P146Mut5F (J)	GATCAAGTTAAAACAACAAATAATG	25	TGA mutation 5 for. primer (J)
P146Mut5R (J)	CATTATTTGTTGTTTTAACTTGATCCCATTCATTTTGTTTTAGATA	46	TGA mutation 5 rev. primer (J)
P146F3R (J)	TTACTTCGCCGCTTTAGCAG	20	$F3_{P146}$ reverse primer (J)
P146F3R (JΔK)	TTACGCCGCTTTAGCAGCAGCTGCTGCAGGAGCACTAGAA	40	$F3_{P146}$ reverse primer (JΔK)
P146F3R (232ΔR)	TTACGCCGCCTTAGCAGCAGCAGCTGCTGCCGGAGCACTA	40	$F3_{P146}$ reverse primer (232ΔR)

Additional sequence CACC (underlined) added to facilitate directional cloning into pET100/GW/D-TOPO vector. Additional sequence TCA (underlined) added to signal end of translation. Unique primers required to create strain J and 232 versions of $F3_{P146}$ are labelled in brackets.