

S2 Table. Components and settings of site-directed mutagenesis PCR to introduce M82A and L188P amino acid exchanges into KSA14m.

Composition of PCR mixture		Temperature profile		
PCR component	Final concentration	Step	M82A	L188P
5X Q5 Reaction Buffer	1X	Initial denaturation	98°C, 90 sec	98°C, 90 sec
10 mM dNTPS	200 µM	Denaturation	98°C, 30 sec	98°C, 30 sec
10 µM Forward primer	0.5 µM	Annealing	59°C, 30 sec	68°C, 30 sec
10 µM Reverse primer	0.5 µM	Elongation	72°C, 4 min 35 sec	72°C, 4 min 36 sec
Template DNA pETM11-ksa14m-alkL	20 ng	Final elongation	72°C, 10 min	72°C, 10 min
Q5 High Fidelity Polymerase	1 U	Hold	4°C	4°C

Plasmid	Primer	Sequence (5'→3')
pETM11-ksa14m(M82A)-alkL	M82A_for	TCGTGATTTTGCAGGAGACGGG
	M82A_rev	AGAAATTTAAGCGCTTGAC
pETM11-ksa14m(L188P)-alkL	L188P_for	ATGAACAAGCCACAGCGAGCAAATC
	L188P_rev	GTTCAATTGCTTCATCCAGTGCAC