

Supplemental Table 1.

Table 1. List of primers used for the plasmid constructs

Primer name	Sequence from 5' to 3'
P21 forward	5'CGGATCCACCATGTCAGAACCGGCTGGGGATGTC3'
aa119 reverse	5'GAATTCAAGGGTACAAGACAGTGACAGGT3'
aa140 reverse	5'GAATTCTCGACCCTGAGAGTCTCCAGGTC3'
aa164 reverse	GAATTCGGGCTTCCTCTTGGAGAAGATC
p21S98Aforward	GGCAGGCGGCCTGGCACCGCACCTGCTCTGCTGCAGG
P21S98A reverse	CCTGCAGCAGAGCAGGTGCGGTGCCAGGCCGCCTGCC
p21S98EForward	AGGCAGGCGGCCTGGCACCGAACCTGCTCTGCTGCAGGGGA
p21S98EReverse	TCCCCTGCAGCAGAGCAGGTTTCGGTGCCAGGCCGCCTGCCT
P21R94Tforward	GAGTTGGGAGGAGGCAGGACGCCTGGCACCTCACCTG
P21R94Treverse	GCAGGTGAGGTGCCAGGCGTCCTGCCTCCTCCCAACTC
D80/5 forward	CTGCCAAGCTCTACCTTCCCCGGGATGAGTTGGGAGGAGGCA
D80/5 reverse	TGCCTCCTCCCAACTCATCCCCGGGAAGGTAGAGCTTGGGCAG
D94/8 forward	GGATGAGTTGGGAGGAGGCAGGCCTGCTCTGCTGCAGGGGACAG
D94/8 reverse	CTGTCCCCTGCAGCAGAGCAGGCCTGCCTCCTCCCAACTCATCC
D108/12 forward	TCTGCTGCAGGGGACAGCAGAGCTGTCACTGTCTTGTACCCTTG
D108/12 reverse	CAAGGGTACAAGACAGTGACAGCTCTGCTGTCCCCTGCAGCAGA
ASK1 Forward	TCCCCGCGGACCATGAGCACGGAGGCGGACGAGGGC
ASK1aa 762 Re	ATTTGCGGCCGCTCCAGCAAGTCACTTTCACAGTCTCC
GT689/90/AV For	CAGAGTCGTTTTAGGAAAAGCCGCTTATGGGATAGTC
GT689/90/AV Rev	GACTATCCCATAAGCGGCTTTTCCTAAAACGACTCTG
Y792F For	CAAATACTGGAAGGATTAATAATTTCTCCATGACAATCAGATAG
Y792F Rev.	CTATCTGATTGTCATGGAGAAATTTAATCCTTCCAGTATTTG

R802T For

CATGACAATCAGATAGTTCACACGGACATAAAGGGTGACAATG