

S3 Table. Primer pairs used for site directed mutagenesis of *cpe*^{Sc}.

Primer	Primer Sequence 5'→3'	Forward/Reverse Primer
Cpe-Ser27Ala-F	GCCCATGGGGGCGTCGTCGGCCG	Forward
Cpe-Ser27Ala-R	CGGCCGACGACGCCCCATGGGC	Reverse
Cpe-Ser173Ala-F	GCTTGTACGCCGCCCGGTCGGCAT	Forward
Cpe-Ser173Ala-R	ATGCCGACCGGGGCGGCGTACAAGC	Reverse
Cpe- Tyr359Ala-F	CAGCAGACCGGGGCGGCGGTGAGGATC	Forward
Cpe- Tyr359Ala-R	GATCCTCACCGCCGCCCGGTCTGCTG	Reverse
Cpe-Ser206Ala-F	CCCGTGGGCAGGGCGCGCAGCTCGGG	Forward
Cpe-Ser206Ala-R	CCCGAGCTGCGCGCCCTGCCACGGG	Reverse
Cpe-Ser234Ala-F	CGCCGGTGTGTCGGCCAGCGGATCATCT	Forward
Cpe-Ser234Ala-R	AGATGATCGCGCTGGCCGACAACACCGGCG	Reverse
Cpe-Lys375Ala-F	GCTGGAACCGGCCGGAAGTAGACCCGGC	Forward
Cpe-Lys375Ala-R	GCCGGGTCTACTTCGCGGCCGGTTCAGC	Reverse
Cpe-Ser378Ala-F	ACCGGGGTGGCACCGCCCTGAAG	Forward
Cpe-Ser378Ala-R	CTTCAAGGCCGGTGCCAGCCCCGT	Reverse
Cpe-Lys89Ala-F	CACGACCCAGCCCGCTGCGCGACGGGG	Forward
Cpe-Lys89Ala-R	CCCCGTGCGCACGCGGGCTGGGTCGTG	Reverse
Cpe-Trp91Ala-F	CGACAGCACGACCGCGCCCTTGTGCGCG	Forward
Cpe-Trp91Ala-R	CGCGCACAAGGGCGCGGTCGTGCTGTCG	Reverse
Cpe-Lys375Arg-F	GAACCGGCCCTGAAGTAGACCCGGCGC	Forward
Cpe-Lys375ArgR	GCGCCGGGTCTACTTCAGGGCCGGTTC	Reverse
Cpe-Arg418Lys-F	CGGTCTGTTCTGGCCGGGATCGGGGCC	Forward
Cpe-Arg418Lys-R	GGCGCCGATCCCGGCCAGGAACAGACCG	Reverse
Cpe-Arg311Ala-F	CAGGTCCGAGCCGGCGACGGTCATACC	Forward
Cpe-Arg311Ala-R	GGTGATGACCGTCGCCGGCTCCGACCTG	Reverse
Cpe-Glu321Ala-F	GATGCCGAGCGCATGGACCGTCGCGCCC	Forward

S3 Table (Continued)		
Cpe-Glu321Ala-R	GGGCGCGACGGTCCATGCGCTCGGCATC	Reverse
Cpe-Trp326Ala-F	GCTCGGCATCGACGCGCACATGGACGCC	Forward
Cpe-Trp326Ala-R	GGCGTCCATGTGCGCGTTCGATGCCGAGC	Reverse
Cpe-Arg346Ala-F	CCGCTGGTGTCCGCTCCGCTGTCCTGGA	Forward
Cpe-Arg346Ala-R	TCCAGGACAGCGGAGCGGACACCAGCGG	Reverse
Cpe-Lys176Ala-F	CGCATCAGATAGAGCGCGTACGCCGACCCGGT	Forward
Cpe-Lys176Ala-R	ACCGGGTCGGCGTACGCGCTCTATCTGATGCG	Reverse
Cpe-Arg115Ala-F	CAGGGTGAGGATGGCGATCAGCCCGCTG	Forward
Cpe-Arg115Ala-R	CAGCGGGCTGATCGCCATCCTCACCTG	Reverse