

Table S1. List of primers used in this study.

List of primers

Primers used to generate DNA fragments and UTR-linker for ZIKV-Natal CPER and Sanger sequencing (5'–3')	
Natal-CPER_F1_for	AGTTGTTGATCTGTGTGAATCAGAC
Natal-CPER_F1_rev	GTGAACGCTGCGGTACACAAGGAGTATG
Natal-CPER_F2_for	CATACTCCTTGTGTACCGCAGCGTTCAC
Natal-CPER_F2_rev	CTTTCACGGGGTGTCCAATTAGCTCTGAAG
Natal-CPER_F3_for	CTTCAGAGCTAATTGGACACCCCGTGAAAG
Natal-CPER_F3_rev	GACCCGTTTTCCAGCCTTTGTCAGAC
Natal-CPER_F4_for	GTCTGACAAAGGCTGGAAAACGGGTC
Natal-CPER_F4_rev	GAACAACTCTGGCGTCCATCCACCT
Natal-CPER_F5_for	AGGTGGATGGACGCCAGAGTTTGTTT
Natal-CPER_F5_rev	TCCTGTTCCACCCCCACGTCCTCTT
Natal-CPER_F6_for	AAGAGACGTGGGGGTGGAACAGGA
Natal-CPER_F6_rev	ACTGTCCGCTCCCCCTTTGGTCTT
Natal-CPER_F7_for	AAGACCAAAGGGGGAGCGGACAAGT
Natal-CPER_F7_rev	AGACCCATGGATTTCACACACCG
Natal-CPER_UTR-linker_for (CMV)	GGTGTGGGGAAATCCATGGGTCTGGGTCGGCATGGCATCTCCACC
Natal-CPER_UTR-linker_rev (CMV)	GTCTGATTACACAGATCAACAACCTCGGTTCACTAAACGAGCTCTGCTTATATAG

Mutagenesis primers to introduce mutations K28A/R, K45A, V335A/T and S749A/N

K28A_for	GGAGTTCTACTCCTAC <u>CG</u> AAAGTCAGGCATCAC C	Pair with Natal-CPER_F6_rev primer. Product replaces Natal-CPER fragment 6.
K28A_rev	GGTGATGCCTGACTTTG <u>CG</u> TAGGAGTAGAACTCC	Pair with Natal-CPER_F5_for primer. Product replaces Natal-CPER fragment 5.
K28R_for	CCTCTCTAGT <u>A</u> AACGGGGTTGTCAGG	Pair with Natal-CPER_F6_rev primer. Product replaces Natal-CPER fragment 6.
K28R_rev	CCTGACAACCCCGTTT <u>A</u> CTAGAGAGG	Pair with Natal-CPER_F5_for primer. Product replaces Natal-CPER fragment 5.
K45A_for	CCGCGCCCTC <u>CG</u> GATGGTGTGGCAACGGGAG	Pair with Natal-CPER_F6_rev primer. Product replaces Natal-CPER fragment 6.
K45A_rev	CTCCCGTTGCCACACCATC <u>CG</u> GAGGGCGCGG	Pair with Natal-CPER_F5_for primer. Product replaces Natal-CPER fragment 5.
V335A_for	CAAAACCCTGGGAT <u>GCG</u> GTGACTGGAGTCAC	Pair with Natal-CPER_F6_rev primer. Product replaces Natal-CPER fragment 6.
V335A_rev	GTGACTCCAGTCAC <u>GC</u> ATCCCAGGGTTTTG	Pair with Natal-CPER_F6_for primer. Product replaces Natal-CPER fragment 6.
V335T_for	CAAAACCCTGGGAT <u>ACG</u> GTGACTGGAGTCAC	Pair with Natal-CPER_F6_rev primer. Product replaces Natal-CPER fragment 6.
V335T_rev	GTGACTCCAGTCAC <u>CG</u> TATCCCAGGGTTTTG	Pair with Natal-CPER_F6_for primer. Product replaces Natal-CPER fragment 6.
S749A_for	GGGCGGGATGG <u>GC</u> ATCCGGGAGACTG	Pair with Natal-CPER_F7_rev primer. Product replaces Natal-CPER fragment 7.
S749A_rev	CAGTCTCCCGGATGG <u>CC</u> CATCCCGCCC	Pair with Natal-CPER_F6_for primer. Product replaces Natal-CPER fragment 6.
S749N_for	GGGCGGGATGG <u>AAC</u> ATCCGGGAGACTG	Pair with Natal-CPER_F7_rev primer. Product replaces Natal-CPER fragment 7.
S749N_rev	CAGTCTCCCGGATG <u>T</u> TCATCCCGCCC	Pair with Natal-CPER_F6_for primer. Product replaces Natal-CPER fragment 6.

Nucleotides that are underlined represents the substitutions introduced