

Additional file 3. Primers used for design and validate the recombinant CSFV strains

Primer	Sequence (5'-3')
JL23-F1-F	GTATACGAGATTAGCTCATCCTCGT
JL23-F1-R	TCTTTTTTACTTGGTATTTTACTCCCT
JL23-F2-F	GGAGTAAAATACCAAGTAAAAAAGAA
JL23-F2-R	GCCACCTTAGTTTCATACGGCCA
JL23-F3-F	GGTGGCCGTATGAAACTAAGGTGGC
JL23-F3-R	GCACCCAACCAAGGTGCTCCAAATC
JL23-F4-F	GATTTGGAGCACCTTG GTTGG
JL23-F4-R	ACATAGTCAGCTACAGTATTCATTGT
JL23-F5-F	CAATGAATACTGTAGCTGACTATGTGA
JL23-F5-R	ATAGAATATACTTTAGCGCCAACCT
JL23-F6-F	AGGTTGGCGCTAAAGTATATTCTATG
JL23-F6-R	GGGCCGTTAGGAAATTGCCTTA
JL23-K114G-F	AAAGGGGGATACAATACCACTCTATTAAACGGTAGTGC
JL23-K114G-R	GTATTGTATCCCCCTTTTACCACTGGGGTTGT
CSFV-E2-WF	CAGCTSAAYCTAACAGTRGRAC
CSFV-E2-WR	CRCTRAYCATBAGCAAYGCYACYG
CSFV-E2-NF	GGYRAATATGTGTGTGTWAGACC
CSFV-E2-NR	TGGTCTTRACTGGRTTGTTRGTC