

Supplementary Figure 1: Sequences of plasmids used in this study.

(A) pSV-R/L

5'-GGTACC (KpnI)

TAATACGACTCACTATAG (T7 promoter)

attgacggcgtagtagcacactattgaatcaaacagccgaccaattgcactaccatcaca (1~59, SV 5'UTR)

atggagaagccagtagtaaactgtagcgtagacccccagagtcggttgcgtgcaactgcaaaaagctcccgaatttgaggtagta
gcacagcaggtcactccaatgaccatgctaattgccagagcattttcgcatctg (60~203, DLP structure in NSP1)

GGATCC GACC (BamHI - Kozak sequence)

ATGACTTCGAAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCATTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCT
CTTAATTTACAAAGAAGATCATTTTTGTGGCCATGATTGGGGTGCTTGTTGGCATTTCATTATAGCCATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAAATTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAAGTTAGAACCAGAAGAAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTGAATCCCCTAGTAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCCTAATACTGAATTTGTCAAAGTAAAAGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA (R/L)

GATATC GCGAGC GAATTC (EcoRV-SacI-EcoRI)

ccgctacgccccaatgatccgaccagcaaaactcgatgtacttccgaggaactgatgtgcataatgcatcaggctggtacattagatccccgcttaccgcgg
gcaatatagcaacactaaaactcgatgtacttccgaggaagcgcagtgataatgtcgcagtggtgacacataaccactatattaaccatttatctagcgg
acgccaaaactcaatgtatttctgaggaagcgtggtgcataatgccacgcagcgtctgcataactttattttcttttataatcaacaaaatttgttttaaca
tttc (11385~11703, SV 5'UTR)

AAA (poly-A50)

GCGGCCGC (NotI) -3'

(B) pCVB3-R/L

5'- GGATCC (BamHI)

TAATACGACTCACTATAG (T7 promoter)

*ttaaaacagcctgtgggtgatccaccacagggcctattgggcgctagcactctggtatcacggtacctttgtgcgcctgtttatatccctccccaactgt
aacttagaagtaacacactccgatcaacagtcagcgtggcacaccagccatgtttgatcaagcactctgttaccgggactgagatcaatagactgctcac
gcggttgaaggagaagcgttcggtatccggccaactctcgaaaaaccagtaacacatagagggtgcagagtgtttcgtcagcactaccggcagtga
gaccaggccgatgagtcaccgattccccacggcgaccgtggcgtggctgctggcgcctgcctatgggaaaccataggacgctctaatacag
acatggtgcaagagtctattgagctagttgtaacctccggcccctgaatgcggtactcctaactgaggacagcacacctcaaccagaggcagtgt
gtcgtaacgggcaactctgcagcgaaccgactcttgggtgctggtttcattttattctatactggctgcttatggtgacaattgagagattgtaccata
tagctattggattggccatccggtgctaatagagctattatatctctttgttgattataacccttagcttgagagaggttaaacattacaattcattgtaa
attgaatacaacaaa (1~742, CVB3 5'UTR)*

atggcagctcaa (**expression enhancer sequence**)

GTCGAC *GACC (Sall - Kozak sequence)*

ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGATTATACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCT
CTTAATTTACCAAAGAAGATCATTTTTGTCGGCCATGATTGGGGTGTCTGTTTGGCATTTCATTATAGCCATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAAATTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAAGTTAGAACCAGAAGAAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTGAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTTACAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA (**R/L**)

CCGCGG CGATCG (**SacII**-PvuI)

taaattagagacaattgatctgattgaattggcttaaccctactgtactaaccgaactagacaacggtgcagtaggggtaaattctccgattcgggtcggg
(7298~7400, CVB3 3'UTR)

AAA (**poly-A50**)

GCGGCCGC (NotI) -3'

(C) pEMCV-R/L

5'- GAATTC (EcoRI)

TAATACGACTCACTATAG (T7 promoter)

ttgaaagccgggggtgggagatccggattgccagctctgctcgatatcgaggctgggtccgtgactaccactcccccttcaacgtgaaggctacgatagt
gccagggcgggtactgccgaagtgcaccccaaaataacaacagaccc
ccctctccctccccccccctaacgttactggccgaagccgcttgaat
aaggccggtgtgctgtttgtctatatgttatttccaccatattgccgtctttggcaatgtgagggcccggaaacctggccctgtcttctgacgagcattcctag
gggtcttccccctctcgcaaaaggaatgcaaggtctgttgaatgtcgtgaaggaagcagttcctctggaagcttctgaagacaacaacgtctgtagcggac
cttgcaggcagcggaaacccccacctggcgacaggtgcctctcgcgcaaaagccacgtgtataagataacctgcaaaggcggcacaaccccgatgcc
acgttctgagttggatagttgtggaagagtaaatggctctcctcaagcgtattcaacaaggggctgaaggatgccagaaggtacccttctgatggga
tctgatctggggcctcgggtgcacatgctttacatgtgttttagtcgaggttaaaaaacgtctaggccccccgaaccacggggacgtggttttctttgaaaaaca
cgatgataat (1~833, EMCV 5'UTR)

GGATCC GACC (BamHI - Kozak sequence)

ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCAATTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATAACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCT
CTTAATTTACCAAAGAAGATCATTTTTGTCCGCCATGATTGGGGTGCTTGTGGCATTTCATTATAGCCATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAACTTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTGAATCCCCTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA (R/L)

GTCGAC CGATCG (SalI-PvuI)

tagttagtactcctggcacaacgcgttaccggtaagccaatcgggtatacacggctgcatactgcagacaggggtcttctactttgcaagatagcttagagt
agtaaaataaatagatagag (7713~7835, EMCV 3'UTR)

AA (poly-A50)

GCGGCCGC (NotI) -3'

(D) pJEV-R/L

5'-GGTACC (KpnI)

TAATACGACTCACTATAG (**T7 promoter**)

agaagtttatctgtggaacttctggcttagtatcgttgagaagaatcgagagattagtcagtttaaacagtttttagaacggaagataacc

(1~95, JEV 5'UTR)

atgactaaaaaccaggaggcccggtaaaaaccggctatcaatatgctgaaacgcgcctaccccgctattcccactagtgaggaggaagagggtg
gta (**96~197, partial JEV core**)

GGATCC *GACC* (**BamHI** - *Kozak sequence*)

ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGATTATACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCT
CTTAATTTACCAAAGAAGATCATTTTTGTCCGCCATGATTGGGGTCTTGTGGCATTTCATTATAGCCATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGATGATGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAACTTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTAAAATCCCCTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTACAAAAATGTTTATTGAATCGGACCCAGGATTCTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCCTAATACTGAATTTGTCAAAGTAAAAGGCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTGTTGAGCGAGTTCTCAAAAATGAACAATAA (**R/L**)

GTCGAC *CGATCG* (**SaII**-PvuI)

tagtgtgatttaaagtagaaaagtagactatgtaaataatgaaatgagaaaatgcatgcatatggagtcaggccagaaaagctgccaccggatactggg
tagacggtgctgtctcgtctcagtcaccaggaggactgggttaacaaatctgacaacagaaagtgagaaagccctcagaaccgtctcgaagtaggtcct
gctcactggaagttgaaagaccaacgtcaggccacaatttgccaccccgtagggggtgcgcctgcgcagcccaggaggactgggttaccaaag
ccgttgagccccacggcccaagcctcgtctaggatgcaatagacgaggtgaaggactagaggtagaggagaccccgtggaacaacaatatcggc
ccaagccccctgaagctgtagaggaggtggaaggactagaggtagaggagaccccgcatttgcatacaacagcatattgacacctgggaatagactg
ggagatcttctctctatctcaacatcagctactaggcacagagcgccaagatgtagtggtggtgaggagaacaacagagatct (**10392~10977,**
JEV 3'UTR)

AAA (**poly-A50**)

GCGGCCGC (NotI) -3'

(E) pCrPV-R/L

5'-GGTACC (KpnI)

TAATACGACTCACTATAG (T7 promoter)

*aaagcaaaaatgtgatcttgcttgtaaatacaatcttgagaggttaataaattacaagtagtgctatctttgtatttaggttagctatttagctttacgttcaggat
gcctagtggcagccccacaatatccaggaagccctctctgcggttttcagattaggttagtcgaaaaacctaagaaattta*

(6025~6213, CrPV IGR-IRES)

cct gct (start codon)

ACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAAATG
AATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACGCG
GCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATACCAGACCTTATTGGTAT
GGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCTCT
TAATTTACCAAAGAAGATCATTTTTGTCGGCCATGATTGGGGTGCTTGTGGCATTTCATTATAGCTATGAGCATCAAG
ATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAAGA
AGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAACTTCTTCGTGGAAACCATGTTGCCA
TCAAAAATCATGAGAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAGGTGAAGTTCGT
CGTCCAACATTATCATGGCCTCGTGAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAATT
ATAATGCTTATCTACGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATCTTTTCCAATGCTATTG
TTGAAGGTGCCAAGAAGTTTCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTGAT
GAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA (R/L)

agacatgataagatacattgatgagtttgacaaccacaacaagaatgcagtgaaaaaatgcttattttgtgaaattgtgatgctattgctttatttgaac
cattataagctgcaataaacaagttaacaacaacaatgcattcattttatgttcaggttcagggggagatgtgggaggtttttaagcaagtaaacctctac
aatgtgta (1535~1755, SV40 late polyadenylation signal sequence)

GCGGCCGC (NotI) -3'

GCGGCCGC (NotI) -3'

(G) pMA-CVB3-R/L-EMCV-R/L

5'- GGATCC (BamHI)

TAATACGACTCACTATAG (T7 promoter)

GTTAAC AA GTTAAC

(HpaI- poly-A50-HpaI)

*ttaaaacagcctgtgggtgatccaccacagggcctattgggcgctagcactctggtacacggctcttctgctgctgtttatatcccctccccaactgt
aacttagaagtaacacactccgatcaacagtcagcgtggcacaccagccatgttttagcaagcacttctgtaccccgactgagatcaatagactgctcac
gcggtgaaggagaaagcgttcgtatccggccaactacttcgaaaaaccagtaacacatagaggttgagagtggttcgctcagcactaccagtgta
gaccaggccgatgagtcaccgattccccacggcgaccgtggcggtggctgctggcggcctgcctatgggaaaccatagagcgtctaatacag
acatggtgcaagagtctattgagctagttgtaacctccggcccctgaatgcggtacatcctaactgaggacagcacaccctcaaaccagaggcagtg
gtcgtaacgggcaactctgcagcggaaaccgactcttgggtgctgcttcttttattctatactggctgcttatggtgacaattgagagattgtaccata
tagctattggattggccatccggtgctaatagagctattatatctcttggattataaccctagcttgagagaggttaaaccattacaattcattgtaa
attgaatacaaaa (1~742, CVB3 5'UTR)*

atggcagctcaa (expression enhancer sequence)

ACTTCGAAAGTTTATGATCCAGAACAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGCCAGATGTAAACAAATG
AATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACGCG
GCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGATTATACCAGACCTTATTGGTAT
GGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCTCT
TAATTTACCAAAGAAGATCATTTTTGTCGGCCATGATTGGGGTGCTTGTGGCATTTCATTATAGCTATGAGCATCAAG
ATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAAGA
AGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAATGGTTTTGGAGAATAACTTCTTCGTGGAAACCATGTTGCCA
TCAAAAATCATGAGAAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAGGTGAAGTTCGT
CGTCCAACATTATCATGGCCTCGTAAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAATT
ATAATGCTTATCTACGTGCAAGTGTGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCCTTTCCAATGCTATTG
TTGAAGGTGCCAAGAAGTTTCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTGAT
GAAATGGGAAAATATATCAAATCGTTGCTTGGAGCGAGTTCTCAAAAATGAACAATAA (R/L)

cccctctccctccccccccctaacgttactgcccgaagccgcttgaataagccgggtgctgctgtttgtctatatgttattttccaccatattgccgtctttggca
atgtgagggcccggaaacctggccctgtcttctgacgagcattcctaggggtctttcccctctcgccaaaggaatgcaaggtctgttgaatgctgtaagga
agcagttccttgaagccttgaagacaaacagctctgtagcagcccttgcaggcagcggaaacccccacctggcgacaggtgcctctgaggccaaa
agccacgtgtataagatacacctgcaaaggcggcacaacccagtgccacgttgtgagttggatagttgtggaagagtcaaatggctctcctaagcgtat
tcaacaaggggctgaaggtgcccagaaggtacccattgtatggatctgatctggggcctcggtgcacatgctttacatgtgttttagtcgaggttaaaaa
acgtctaggccccccgaaccacggggacgtggttttctttgaaaaacagatgataat (1~833, EMCV5'UTR)

ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATAACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTTCCTATAGTTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCT
CTTAATTTACCAAAGAAGATCATTTTTGTGCGCCATGATTGGGGTGCCTTGTGGCATTTCATTATAGCTATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAACTTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTGAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA **(R/L)**

taaattagagacaatttgatctgattgaattggctaaccctactgtactaaccgaactagacaacggtgcagtaggggtaaattctccgattcggtgagg
(7298~7400, CVB3 3'UTR)

AA **(poly-A50)**

GCGGCCGC (NotI) -3'

(H) pCAP-ribosome-R/L

5'-GGTACC (KpnI)

TAATACGACTCACTATAG (T7 promoter)

GGGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATC **(Human ribosomal protein large 32 5'UTR)**

AAGCTTGAGG

GGATCC GACC (BamHI - Kozak sequence)

ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGA
CTTAATTTACCAAAGAAGATCATTTTTGTGGCCATGATTGGGGTGCTTGTTGGCATTTCATTATAGCTATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAAATTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATCAAAGAGAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTAAAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCTAATACTGAAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA **(R/L)**

GAATTC (EcoRI)

GACTAGT

GTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAC

(Human ribosomal protein small 9 3'UTR)

AGATCT

AA **(poly-A64)**

ATGCATC

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC **(poly-C30)**

AAAGGCTCTTTTCAGAGCCACCAGAATT **(Histone stem-loop sequence)**

GCGGCCGC (NotI) -3'

(I) peIF4G-R/L

5'-GGTACC (KpnI)

TAATACGACTCACTATAG (T7 promoter)

ggggtagggatgagggagggagggcattgtgatgtacagggctgctctgtgagatcaagggctctaaggggtgggagctggggcagggactacg
agagcagccagatgggctgaaagtggaactcaaggggttctggcacctacctacgtctcccctgggggtggggagttggccagagtcttaagat
tggggcaggggtggagaggtgggctctctgctctccactcatcttagctttcttcccagatccgaattcgagatccaaaccaaggaggaaggatc
acagaggagatcatgtctggg **(58~377, eIF4G 5'UTR)**

GGATCC GACC (BamHI - Kozak sequence)

*ATGACTTCGAAAGTTTATGATCCAGAACAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCAATTTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATAACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGA
CTTAATTTACAAAGAAGATCAATTTTGTGGCCATGATTGGGGTGCTTGTGGCATTTCATTATAGCTATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAACTTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAGTTAGAACCAGAAAGAAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTGAAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAAATATCAAAATCGTTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA (R/L)*

GGCGCC (NarI)

tgaccacaactgagggctggtggggccggggacctggagccccatggacacacagatggccccgtagccgctggactgcaggggggagcagca
gcggcggtgagcagtggtgcctgtagtgtgatgtgtctgaactaataaagtggctgaagagcaggtggtgggctgcctgggccccctccagga
tgccgaggtgtccctctctccccctgggacacagagatatattatataaagtcttgaatttggtgtcttgggggtggggaggggacccaacgcctg
ccccggggtccttttttttctgaaatcactctcgggactgccgtcctcgtctggtggggcatatgccccagccccgtaccaccctgctgttgcctgg
gcagggggaaggggggacgggtgctgtaattattaacatgaattcaatt **(4571~5026, eIF4G 3'UTR)**

AAA **(poly-A50)**

GCGGCCGC (NotI) -3'

(K) pCN43-R/L

5'-GGTACC (KpnI)

TAATACGACTCACTATAG (T7 promoter)

gctgtaggaaagtaccaacagcagcggagtttaaaactttaatagacaggtctgagtgctgaactgccttttcattttactcatcctccaaggagttcaactactgctgacttactactttaagcaaaagagtggtgccaggcaac **(1~157, CN43 5'UTR)**

GGATCC *GACC (BamHI - Kozak sequence)*

ATGACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAA
ATGAATGTTCTTGATTCATTTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACG
CGGCCTCTTCTTATTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGTATTATACCAGACCTTATTGGT
ATGGGCAAATCAGGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGA
CTTAATTTACCAAAGAAGATCATTTTTGTCCGACATGATTGGGGTGTCTTGTGGCATTTCATTATAGCTATGAGCATCAA
GATAAGATCAAAGCAATAGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAA
GAAGATATTGCGTTGATCAAATCTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAAATTCTTCGTGGAAACCATGTTGC
CATCAAAAATCATGAGAAAAGTTAGAACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAAGGTGAAGTTC
GTCGTCCAACATTATCATGGCCTCGTGAATCCCCTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAA
TTATAATGCTTATCTACGTGCAAGTGATGATTTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTAT
TGTTGAAGGTGCCAAGAAGTTTCTAATACTGAATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTG
ATGAAATGGGAAAATATATCAAATCGTTCGTTGAGCGAGTTCTCAAAAATGAACAATAA **(R/L)**

GGCGCC *(NarI)*

aattcagacaaggccacagaataagattttccatgcatctgcaaatcgtatattcttttccatccactgcaacaatcattaccatcacttttcatcattcctca
gctactactcacattcattaatggtttctgtaaacattttaagacagttgggatgtcacttaacatttttttttgagctaaagtcagggaatcaagccatgctt
aatatttaacaatcacttatatgtgtgtcgaagagttgtttgtgtcatgtattggtacaagcagatacagtataaactcacaacacagatttgaaaataatg
cacatatggtg **(1893~2229, CN43 3'UTR)**

AAA **(poly-A50)**

GCGGCCGC (NotI) -3'

(L) pCrPV-R/L-EMCV-R/L

5'- GGATCC (BamHI)

TAATACGACTCACTATAG (T7 promoter)

GTTTAAAC (PmeI)

*aaagcaaaaatgatcttgctgtaaatacaattttgagaggttaataaattacaagtagtgctattttgtatttaggttagctatttagctttacgttccaggat
gcctagtggcagccccacaataatccaggaagccctctctgcggttttcagattaggttagtcgaaaaacctaagaattta*

(6025~6213, CrPV IGR-IRES)

cct **gct (start codon)**

GAATTC (EcoRI)

*ACTTCGAAAGTTTATGATCCAGAACAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAAATGAAT
GTTCTTGATTCAATTATTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACCGCGGCCTCTT
CTTATTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGATTATACCAGACCTTATTGGTATGGGCAAATCA
GGCAAATCTGGTAATGGTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTTGAACCTCTTAATTTACCAAAG
AAGATCATTTTTGTCCGCCATGATTGGGGTGCTTGTGGCATTTCATTATAGCTATGAGCATCAAGATAAGATCAAAGCAAT
AGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAAGAAGATATTGCGTTGATCAAAT
CTGAAGAAGGAGAAAAAATGGTTTTGGAGAATAACTTCTTCGTGGAAACCATGTTGCCATCAAAAAATCATGAGAAAGTTAG
AACCAGAAGAATTTGCAGCATATCTTGAACCATTCAAAGAGAAAGGTGAAGTTCGTCGTCCTCAACATTATCATGGCCTCGTG
AAATCCCGTTAGTAAAAGGTGGTAAACCTGACGTTGTACAAATTGTTAGGAATTATAATGCTTATCTACGTGCAAGTGATGAT
TTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTATTGTTGAAGGTGCCAAGAAAGTTTCTAATACTGA
ATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTGATGAAATGGGAAAATATATCAAATCGTTCGTTGAG
CGAGTTCCTCAAAAATGAACAATAA (R/L)*

GAGCTC (SacI)

*ccctctccctccccccccctaacgttactggccgaagccgcttgaataagccggtgtgctttgtctatgttattttccaccatattgccgtctttggca
atgtgagggcccgaaacctggccctgtctcttgacgagcattctaggggtctttccctctcgccaaaggaatgcaaggtctgttgaatgctggaagga
agcagttcctctggaagcttctgaagacaacaacgtctgtagcgacctttgcaggcagcgggaacccccacctggcgacaggtgcctctgcgccaaa
agccacgtgtataagatacacctgcaaagcggcacaacccagtgccacgtgtgagttggatagttgtggaagagtgcaaatggctctcctcaagcgtat
tcaacaaggggctgaaggatgccagaaggtacccattgtatgggatctgatctgggctcgtgacatgctttacatgtgttttagtcgaggttaaaaa
acgtctaggccccccaaccacggggacgtggttttctttgaaaaacacgatgataat (1~833, EMCV 5'UTR)*

GATATC GTCGAC **TTAATTAA** GACC (EcoRV – Sall – **PacI** - Kozak sequence)

atggaagatgcaaaaacattaagaaggccagcgcattctaccactcgaagacgggaccgcccggcgagcagctgcacaaagccatgaagcgtca

*cgccctggtgcccgaccatcgctttaccgacgcacatatcgaggtggacattacctacgccgagtacttcgagatgagcgttcggtggcagaagctat
gaagcgtatgggctgaatacaaacccatcggtatcgtggtgagcagagaatagcttgagttctcatgcccggttgggtgccctgttcacgttggtggt
gtggccccagctaacgacatctacaacgagcgcgagctgctgaacagcatgggcatcagccagcccaccgtctattcgtgagcaagaaagggtgcaa
aagatcctcaacgtgcaaaagaagctaccgatcatacaaaagatcatcatgtagcaagaccgactaccagggctccaaagcatgtacaccttcgtg
actcccatttgccaccggctcaacgagtagcacttcgtgcccgagagcttcgaccgggacaaaaccatcgccctgatcatgaacagtagtgagcagacc
ggattgcccaagggtagccctaccgaccgaccgcttgtgtccgattcagtcagtcgcccgacccccatcttcggcaaccagatcatccccgacaccgct
atcctcagcgtggtgccatttcaccacggcttcggcatgttcaccacgctgggctacttgatctgcccgttccgggtcgtgctcatgtaccgcttcgaggagga
gctattcttcgagcgttgcaagactataagattcaatctgccctgctggtgccacactatttagcttcttcgtaagagcactctcatcgacaagtagcagctta
agcaacttgacgagatgccagcggcggggcggcctcagcaaggaggtaggtagggcgtggccaaacgcttcacatccagggatccgccagg
gctacggcctgacagaaaaccagcgcattctgatccccgaaggggacgacaagcctggcagtaggcaagggtggtgcccttcttcgaggcta
aggtggtgacttgacaccgtaagactgggtgtgaaccagcgcggcagctgtgctccgtggccccatgatcatgagcggctacgtaacaacc
ccgagggtacaaacgctctcatcgacaaggacggctggctgcacagcggcagatcgctactgggacgaggacgagcacttctcatcgtggaccggct
gaagacctgatcaatacaagggtaccaggtagccccagccgaactggagagcatcctgctgcaacacccccaacatcttcgacgggggtcggcg
cctgccgacgacgatccggcagctgccccccgagctgctgctggaacacggtaaaaccatgaccgagaaggagatcgtggactatgtggcca
gccaggttacaaccgccaagaagctgctgctggtgtgtgttcgtggacgaggtgcctaaaggactgaccggcaagttggacggccgcaagatccgag
agattctattaaggccaagaaggcggcaagatcggcgtgtaa (R/L)*

CCGCGG (SacII)

AGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACAAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGT
GATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAACAACAACAATTGCATTCATTTTATGTTTCAGGTT
CAGGGGGAGATGTGGGAGGTTTTTTAAAGCAAGTAAACCTCTACAAATGTGGTA

(1535~1755, SV40 polyadenylation signal sequence)

GCGGCCGC (NotI) -3'

agccacgtgtataagatacacctgcaaaggcggcacaaccccagtgccacgttgtagttggatagttgtgaaagagtcaaatggctctcctcaagcgat
tcaacaaggggctgaaggatgccagaaggtacccattgtatgggatctgatctgggctcggcgacatgctttacatggttttagtcgaggttaaaa
acgtctaggccccccaaccacggggacgtggtttccttgaaaaacacgatgataat **(1~833, EMCV5'UTR)**

GATATC GTCGAC TTAATTAA GACC (EcoRV – Sall – **PacI** - *Kozak sequence*)

*atggaagatgccaaaaacattaagaaggccagcgccattctaccactcgaagacgggaccggcgagcagctgcacaaagccatgaagcgcta
cgccctggtgcccggcaccatcgctttaccgacgcacatatcgaggtggacattacctacgccgagtacttcgagatgagcgttcggctggcagaagctat
gaagcgctatgggctgaatacaaacatcgatcgtggtgtgcagcgagaatagcttgagttctcatgccgtgttgggtgcctgttcacgtgtggct
gtggccccagtaacgacatctacaacgagcgcgagctgctgaacagcatgggcatcagccagcccaccgtcgtattcgtgagcaagaaagggtgcaa
aagatcctcaacgtgcaaaagaagctaccgatcatacaaaagatcatcatgatagcaagaccgactaccagggctccaagcatgtacaccttcgtg
actcccatttgccaccggcttaacgagtacgacttcgtgccgagagcttcgaccgggacaaaaccatcgccctgatcatgaacagtagtggcagtagc
ggattgccaaggcgtagccctaccgaccgaccgctgtgtcggattcagtcagcccgaccccatcttcggaaccagatcatccccgacaccgct
atcctcagcgtggtgccatttcaccacggcttcggcatgttcaccacgctgggctacttgatctgcgctttcgggtcgtgctcatgtaccgcttcgaggagga
gctattcttgccagcgttgcaagactataagattcaatctgccctgctggtgccacactatttagcttctcgtaagagcactctcatgacaagtagcagccta
agcaactgcacgagatgccagcggcggcgccgctcagcaaggaggtaggtgaggcgtggcacaacgcttcacctaccaggcatccgccagg
gctacggcctgacagaacaaccagcgcattctgatccccgaaggggacgacaagcctggcgagtaggcaaggtggtgcccttctcagaggcta
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ccgagggtacaacgctctcatcgacaaggacggctggctgcacagcggcgacatcgctactgggacgaggacgagcacttctcatcgtggaccggct
gaagagcctgatcaatacaagggtaccaggtagccccagccgaactggagagcatcctgctgcaacaccccaacatcttcgacgccggggtcggcg
cctgccgacgacgatgccggcgagctgcccggcagtcgctgctggaacacggtaaacatgaccgagaaggagatcgtggactatgtggcca
gccagggtacaaccgccaagaagctgctggtggtgtgttcgtggacgaggtgcctaaaggactgaccggcaagttggacgccgcaagatccgcg
agattctattaaggccaagaagggcgcaagatcgcgtgtaa **(F/L)***

CCGCGG (**SacII**)

taaattagagacaattgatctgattgaattggctaacctactgtactaaccgaactagacaacgggtgcagtaggggtaaattctccgattcgggtcggg
(7298~7400, CVB3 3'UTR)

AAA **(poly-A50)**

GCGGCCGC (**NotI**) -3'

(N) pCrPV-R/L-EMCV-F/L

5'- GGATCC (BamHI)

TAATACGACTCACTATAG (T7 promoter)

GTTTAAAC (PmeI)

*aaagcaaaaatgtagcttctgtaaatacaatgagaggttaataaattacaagtagtgctatggtttagctatttagctttacgttccaggat
gcctagtggcagccccacaatatccaggaagccctctgcggttttcagattaggtagtcgaaaaacctaagaattta*

(6025~6213, CrPV IGR-IRES)

cct **gct** (start codon)

GAATC (EcoRI)

*ACTTCGAAAGTTTATGATCCAGAACAAAGGAAACGGATGATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAAATGAAT
GTTCTTGATTCATTTAATTATTATGATTCAGAAAAACATGCAGAAAATGCTGTTATTTTTTACATGGTAACGCGGCCTCTT
CTTTTTATGGCGACATGTTGTGCCACATATTGAGCCAGTAGCGCGGTGATTATAACCAGACCTTATTGGTATGGGCAAATCA
GGCAAATCTGGTAATGGTTCTTATAGGTTACTTGATCATTACAAATATCTTACTGCATGGTTGAACTTCTAATTACCAAAG
AAGATCATTTTTGTCGGCCATGATTGGGGTCTTGTGGCATTTCATTATAGCTATGAGCATCAAGATAAGATCAAAGCAAT
AGTTCACGCTGAAAGTGTAGTAGATGTGATTGAATCATGGGATGAATGGCCTGATATTGAAGAAGATATTGCGTTGATCAAAT
CTGAAGAAGGAGAAAAATGGTTTTGGAGAATAACTTCTCGTGAAACCATGTTGCCATCAAAAATCATGAGAAAGTTAG
AACCAGAAGAATTTGCAGCATATCTGAACCATTCAAAGAGAAAGGTGAAGTTCGTCGTCCAACATTATCATGGCCTCGTG
AAATCCCGTTAGTAAAGGTGGTAAACCTGACGTTGTACAAATTGTAGGAATTATAATGCTTATCTACGTGCAAGTGATGAT
TTACCAAAAATGTTTATTGAATCGGACCCAGGATTCTTTTCCAATGCTATTGTTGAAGGTGCCAAGAAGTTTCTAATACTGA
ATTTGTCAAAGTAAAAGGTCTTCATTTTTCGCAAGAAGATGCACCTGATGAAATGGGAAAATATATCAAATCGTTCTGTTGAG
CGAGTTCTCAAAAATGAACAATAA (R/L)*

GAGCTC (SacI)

*ccccctccccccccccctaacgttactggccgaagccgcttgaataagccggtgtgctgttctatatgttatttccaccatattgccgtctttggca
atgtgagggcccggaaacctgcccctgtctcttgacgagcattcctaggggtcttccccctctgcccgaaggaatgcaaggtctgttgaatgctgtaagga
agcagttccttgaagcttctgaagacaaacacgtctgtagcgaccttgcaggcagcggaaacccccacctggcgacaggtgcctctgcccga
agccacgtgtataagatacacctgcaaagcggcacaacccagtgccacgtgtgagttggatagttgtggaagagtcaaaggctctcctcaagcgtat
tcaacaaggggctgaaggtgccagaaggtacccattgtatggatctgatctggggcctcggtgcacatgctttacatgtgttagtcgaggttaaaa
acgtctaggccccccaaccacggggacgtggtttctttgaaaaacacgatgataat (1~833, EMCV5'UTR)*

GATATC GTCGAC **TAAATTAA** GACC (EcoRV – Sall – **PacI** - Kozak sequence)

*atggaagatgcaaaaacattaagaagggccagcgcattctaccactcgaagacgggaccgcccggcgagcagctgcacaaagccatgaagcgtat
cgccctggtgcccggcaccatgcctttaccgacgcacatatcagaggtggacattacctacgcccagctacttcgagatgagcgttcggctggcagaagctat*

*gaagcgctatgggctgaatacaaacatcgatcgtggtgtgcagcgagaatagcttgagttctcatgccggtgtgggtgccctgttcatcgggtggct
gtggccccagtaacgacatctacaacgagcgcgagctgtgaacagcatgggcatcagccagcccaccgtctattctgtgagcaagaaagggtgcaa
aagatcctcaacgtgcaaaagaagctaccgatcataaaaagatcatcatgtagcaagaccgactaccaggggtccaaagcatgtacacctctgtg
actcccatttgccacccggctcaacgagtagcacttctgtgccgagagcttcgaccgggacaaaaccatcgccctgatcatgaacagtagtggcagtagc
ggattgcccaagggcgtagccctaccgaccgaccgcttgtgtccgattcagtcagtcgcccgacccccatcttcggaaccagatcatccccgacaccgt
atcctcagcgtggtgccattcaccacggcttggcatgttcaccacgctgggctacttgatctgcggctttcgggtcgtgctcatgtaccgcttcgaggagga
gctattcttgcgagcttgaagactataagattcaatctgccctgctggtgccacactatttagcttcttcgtaagagcactctcatcgaagaagtagcacta
agcaacttgacgagatcgccagcggcggcgccgctcagcaaggaggtaggtagggccgtggcacaacgcttccacctaccaggtaccgccagg
gctacggcctgacagaaacaaccagcgcattctgatccccgaaggggacgacaagcctggcgagtaggcaaggtggtgcccttctcagaggta
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ccgagggtacaacgctctcatcgacaaggacggctggtgcacagcggcagatcgctactgggacgaggacgagcacttctcatcgtggaccggct
gaagagcctgatcaatacaagggctaccaggtagccccagccgaactggagagcatcctgctgcaacacccccaacatcttcgacgggggtcggcgg
cctgccgacgacgatgccggcagctgcccggcagctgctgctggaacacggtaaaaccatgaccgagaaggagatcgtggactatgtggcca
gccaggttacaaccgccaagaagctgcgcggtggtgtgtgctgtagcagaggtgcctaaaggactgaccggcaagttggacgcccgaagatccgcg
agattctattaaggccaagaagggcggcaagatcgccgtgtaa (F/L)*

CCGCGG (SacII)

AGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACAAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGT
GATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAACAACAACAATTGCATTCATTTTATGTTTCAGGTT
CAGGGGGAGATGTGGGAGGTTTTTAAAGCAAGTAAACCTCTACAAATGTGGTA

(1535~1755, SV40 polyadenylation signal sequence)

GCGGCCGC (NotI) -3'