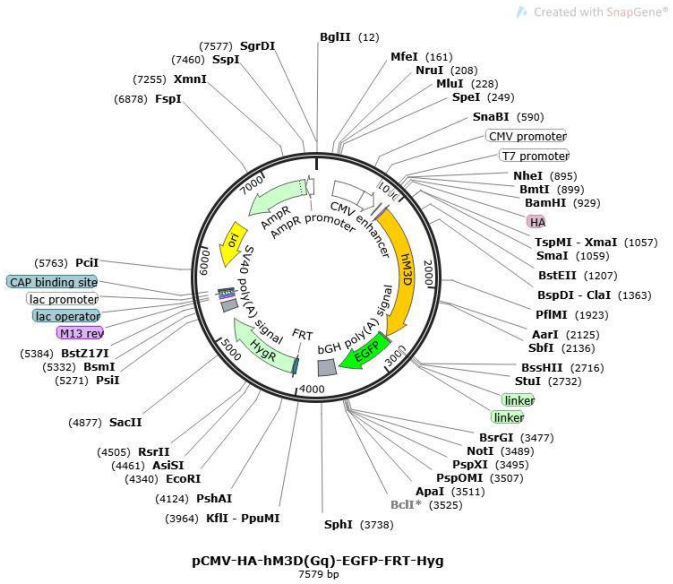
pCMV-HA-hM3D(Gq)-EGFP-FRT-Hyg

SPECIFICATION MANUAL

PRODUCT TECHNICAL PROFILE

Catalog No.	PVT60171
Product Name	pCMV-HA-hM3D(Gq)-EGFP-FRT-Hyg
Plasmid Size	7579 bp
Host	mammalian cells
Use	Protein expression
Fragment type	ORF
Prokaryotic resistance	Ampicillin
Screening markers	Hyg
Fluorescence labeling	Green
Promoter	CMV
Replicon	pUC
Copy number	high
Competent cells	DH5a
Temperature	37C
Forward primer	CMV-F:CGCAAATGGGCGGTAGGCGTG

PLASMID VECTOR MAP



SEQUENCE INFORMATION

```
LOCUS       pCMV-HA-hM3DGq-EGFP-FRT-Hyg        7579 bp    ds-DNA    circular    SYN
GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGA
GTAGTGCGCGAGCAAAATTTAAGCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCGATGTACGGGCCAGA
TATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCC
CGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACG
```

GTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTA
TGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGAT
TTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAG
GCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGC
TAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGATCCACCATGTACCCATACGATGTTCCAGATTACGCTATGACCTTGCACAATAACAGTACAACCTCGCCTTTGTTTCC
AAACATCAGCTCCTCCTGGATACACAGCCCCTCCGATGCAGGGCTGCCCCCGGGAACCGTCACTCATTTCGGCAGCTACAATGTTTCTCGAGCAGCTGGCAATTTCTCCTCT
CCAGACGGTACCACCGATGACCCTCTGGGAGGTCATACCGTCTGGCAAGTGGTCTTCATCGCTTTCTTAACGGGCATCCTGGCCTTGGTGACCATCATCGGCAACATCCTGG
TAATTGTGTCATTTAAGGTCAACAAGCAGCTGAAGACGGTCAACAACTACTTCCTCTTAAGCCTGGCCTGTGCCGATCTGATTATCGGGGTCATTTCAATGAATCTGTTTAC
GACCTACATCATCATGAATCGATGGGCCTTAGGGAACTTGGCCTGTGACCTCTGGCTTGCCATTGACTGCGTAGCCAGCAATGCCTCTGTTATGAATCTTCTGGTCATCAGC
TTTGACAGATACTTTTCCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGTGTGATGATCGGTCTGGCTTGGGTCATCTCCTTTGTCCTTTGGG
CTCCTGCCATCTTGTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTCAGTTCCTCAGTGAGCCCACCATTACTTTTGGCACAGCCATCGC
TGGTTTTTATATGCCTGTCACCATTATGACTATTTTATACTGGAGGATCTATAAGGAAACTGAAAAGCGTACCAAAGAGCTTGCTGGCCTGCAAGCCTCTGGGACAGAGGCA
GAGACAGAAAACTTTGTCCACCCCACGGGCAGTTCTCGAAGCTGCAGCAGTTACGAACTTCAACAGCAAAGCATGAAACGCTCCAACAGGAGGAAGTATGGCCGCTGCCACT
TCTGGTTCACAACCAAGAGCTGGAAACCCAGCTCCGAGCAGATGGACCAAGACCACAGCAGCAGTGACAGTTGGAACAACAATGATGCTGCTGCCTCCCTGGAGAACTCCGC
CTCCTCCGACGAGGAGGACATTGGCTCCGAGACGAGAGCCATCTACTCCATCGTGCTCAAGCTTCCGGGTCACAGCACCATCCTCAACTCCACCAAGTTACCCTCATCGGAC
AACCTGCAGGTGCCTGAGGAGGAGCTGGGGATGGTGGACTTGGAGAGGAAAGCCGACAAGCTGCAGGCCCAGAAGAGCGTGGACGATGGAGGCAGTTTTCCAAAAAGCTTCT
CCAAGCTTCCCATCCAGCTAGAGTCAGCCGTGGACACAGCTAAGACTTCTGACGTCAACTCCTCAGTGGGTAAGAGCACGGCCACTCTACCTCTGTCCTTCAAGGAAGCCAC
TCTGGCCAAGAGGTTTGCTCTGAAGACCAGAAGTCAGATCACTAAGCGGAAAAGGATGTCCCTGGTCAAGGAGAAGAAAGCGGCCCAGACCCTCAGTGCGATCTTGCTTGCC
TTCATCATCACTTGGACCCCATACAACATCATGGTTCTGGTGAACACCTTTTGTGACAGCTGCATACCCAAAACCTTTTGGAATCTGGGCTACTGGCTGTGCTACATCAACA
GCACCGTGAACCCCGTGTGCTATGCTCTGTGCAACAAAACATTCAGAACCACTTTCAAGATGCTGCTGCTGTGCCAGTGTGACAAAAAAAAGAGGCGCAAGCAGCAGTACCA
GCAGAGACAGTCGGTCATTTTTCACAAGCGCGCACCCGAGCAGGCCTTGGGTGGAGGCGGTTCAGGTGGAGGTGGCTCTATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGG
GTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCT
GCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAA
GTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGC
ATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACG
GCATCAAGGTGAACTTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCATCGGCGACGGCCCCGTGCTGCTGCCCGA
CAACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGGGATCACTCTCGGCATGGAC
GAGCTGTACAAGTAAGCGGCCGCTCGAGTCTAGAGGGCCCGTTTAAACCCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCCTCCCCCGTG
CCTTCCTTGACCCTGGAAGGTGCCACTCCCACTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGC
AGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGCTCTAGGGGGTATCCCCA
CGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTT
CTCGCCACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGG
TTCACGTACCTAGAAGTTCCTATTCCGAAGTTCCTATTCTCTAGAAAGTATAGGAACTTCCTTGGCCAAAAAGCCTGAACTCACCGCGACGTCTGTCGAGAAGTTTCTGATC
GAAAAGTTCGACAGCGTCTCCGACCTGATGCAGCTCTCGGAGGGCGAAGAATCTCGTGCTTTCAGCTTCGATGTAGGAGGGCGTGGATATGTCCTGCGGGTAAATAGCTGCG
CCGATGGTTTCTACAAAGATCGTTATGTTTATCGGCACTTTGCATCGGCCGCGCTCCCGATTCCGGAAGTGCTTGACATTGGGGAATTCAGCGAGAGCCTGACCTATTGCAT
CTCCCGCCGTGCACAGGGTGTCACGTTCGCAAGACCTGCCTGAAACCGAACTGCCCGCTGTTCTGCAGCCGGTCGCGGAGGCCATGGATGCGATCGCTGCGGCCGATCTTAGC
CAGACGAGCGGGTTCGGCCCATTCGGACCGCAAGGAATCGGTCAATACACTACATGGCGTGATTTCATATGCGCGATTGCTGATCCCCATGTGTATCACTGGCAAACTGTGA
TGGACGACACCGTCAGTGCGTCCGTCGCGCAGGCTCTCGATGAGCTGATGCTTTGGGCCGAGGACTGCCCCGAAGTCCGGCACCTCGTGCACGCGGATTTCGGCTCCAACAA
TGTCCTGACGGACAATGGCCGCATAACAGCGGTCATTGACTGGAGCGAGGCGATGTTCGGGGATTCCCAATACGAGGTCGCCAACATCTTCTTCTGGAGGCCGTGGTTGGCT
TGTATGGAGCAGCAGACGCGCTACTTCGAGCGGAGGCATCCGGAGCTTGCAGGATCGCCGCGGCTCCGGGCGTATATGCTCCGCATTGGTCTTGACCAACTCTATCAGAGCT
TGGTTGACGGCAATTTCGATGATGCAGCTTGGGCGCAGGGTCGATGCGACGCAATCGTCCGATCCGGAGCCGGGACTGTCGGGCGTACACAAATCGCCCGCAGAAGCGCGGC
CGTCTGGACCGATGGCTGTGTAGAAGTACTCGCCGATAGTGGAAACCGACGCCCCAGCACTCGTCCGAGGGCAAAGGAATAGCACGTACTACGAGATTTCGATTCCACCGCC
GCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCCAACTTGTTTATTG
CAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCA
TGTCTGTATACCGTCGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGC
ATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAA
TCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTC
AAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTT
TTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCC
TCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGT
GTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTA
TCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTAT
TTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCA
GATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCA
AAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCAC
CTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACC
GCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAAT
TGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCA
GCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTT
ATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATG
CGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAA
GGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCA
AAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATAC
ATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC

SANGER SEQUENCING REPORT

The following Sanger sequencing reads verify the cloned construct. They were derived from the ABI trace files supplied in the product sequencing report.

Read 1: 73_CMV-F_TSS20240910-027-02713_E02 — 2030 bp (Sanger / ABI trace)

CGTAACACTCCGCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAA
ATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGATCCACCATGTACCCATACGATGTTCCAGATTACGCTATGAC
CTTGCACAATAACAGTACAACCTCGCCTTTGTTTCCAAACATCAGCTCCTCCTGGATACACAGCCCCTCCGATGCAGGGCTGCCCCCGGGAACCGTCACTCATTTCGGCAGC
TACAATGTTTCTCGAGCAGCTGGCAATTTCTCCTCTCCAGACGGTACCACCGATGACCCTCTGGGAGGTCATACCGTCTGGCAAGTGGTCTTCATCGCTTTCTTAACGGGCA
TCCTGGCCTTGGTGACCATCATCGGCAACATCCTGGTAATTGTGTCATTTAAGGTCAACAAGCAGCTGAAGACGGTCAACAACTACTTCCTCTTAAGCCTGGCCTGTGCCGA
TCTGATTATCGGGGTCATTTCAATGAATCTGTTTACGACCTACATCATCATGAATCGATGGGCCTTAGGGAACTTGGCCTGTGACCTCTGGCTTGCCATTGACTGCGTAGCC
AGCAATGCCTCTGTTATGAATCTTCTGGTCATCAGCTTTGACAGATACTTTTCCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGTGTGATGA
TCGGTCTGGCTTGGGTCATCTCCTTTGTCCTTTGGGCTCCTGCCATCTTGTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTCAGTTCCT
CAGTGAGCCCCATTACTTTTGCACAGCCATCGCTGGTTTTATATGCCTGCCACATTATGACTATTTTTACTGGAGGACCTTAAGGAACTGAAAAGGGACCAAAGATTTGCT
GGCTTGACGTAACACTCCGCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCT
TATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGATCCACCATGTACCCATACGATGTTCCAGATTACG
CTATGACCTTGCACAATAACAGTACAACCTCGCCTTTGTTTCCAAACATCAGCTCCTCCTGGATACACAGCCCCTCCGATGCAGGGCTGCCCCCGGGAACCGTCACTCATTT
CGGCAGCTACAATGTTTCTCGAGCAGCTGGCAATTTCTCCTCTCCAGACGGTACCACCGATGACCCTCTGGGAGGTCATACCGTCTGGCAAGTGGTCTTCATCGCTTTCTTA
ACGGGCATCCTGGCCTTGGTGACCATCATCGGCAACATCCTGGTAATTGTGTCATTTAAGGTCAACAAGCAGCTGAAGACGGTCAACAACTACTTCCTCTTAAGCCTGGCCT
GTGCCGATCTGATTATCGGGGTCATTTCAATGAATCTGTTTACGACCTACATCATCATGAATCGATGGGCCTTAGGGAACTTGGCCTGTGACCTCTGGCTTGCCATTGACTG
CGTAGCCAGCAATGCCTCTGTTATGAATCTTCTGGTCATCAGCTTTGACAGATACTTTTCCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGT
GTGATGATCGGTCTGGCTTGGGTCATCTCCTTTGTCCTTTGGGCTCCTGCCATCTTGTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTC

AGTTCCTCAGTGAGCCCCCATTACTTTTGCACAGCCATCGCTGGTTTTATATGCCTGCCACATTATGACTATTTTTACTGGAGGACCTTAAGGAACTGAAAAGGGACCAAAG
ATTTGCTGGCTTGA

Read 2: 87_BGH_TSS20220902-027-00598_E02 — 2078 bp (Sanger / ABI trace)

CGTGCTACGGGACTCTAGACTCGAGCGGCCGCTTACTTGTACAGCTCGTCCATGCCGAGAGTGATCCCGGCGGCGGTCACGAACTCCAGCAGGACCATGTGATCGCGCTTCT
CGTTGGGGTCTTTGCTCAGGGCGGACTGGGTGCTCAGGTAGTGGTTGTCGGGCAGCAGCACGGGGCCGTCGCCGATGGGGGTGTTCTGCTGGTAGTGGTCGGCGAGCTGCAC
GCTGCCGTCCTCGATGTTGTGGCGGATCTTGAAGTTCACCTTGATGCCGTTCTTCTGCTTGTCGGCCATGATATAGACGTTGTGGCTGTTGTAGTTGTACTCCAGCTTGTGC
CCCAGGATGTTGCCGTCCTCCTTGAAGTCGATGCCCTTCAGCTCGATGCGGTTCACCAGGGTGTCGCCCTCGAACTTCACCTCGGCGCGGGTCTTGTAGTTGCCGTCGTCCT
TGAAGAAGATGGTGCGCTCCTGGACGTAGCCTTCGGGCATGGCGGACTTGAAGAAGTCGTGCTGCTTCATGTGGTCGGGGTAGCGGCTGAAGCACTGCACGCCGTAGGTCAG
GGTGGTCACGAGGGTGGGCCAGGGCACGGGCAGCTTGCCGGTGGTGCAGATGAACTTCAGGGTCAGCTTGCCGTAGGTGGCATCGCCCTCGCCCTCGCCGGACACGCTGAAC
TTGTGGCCGTTTACGTCGCCGTCCAGCTCGACCAGGATGGGCACCACCCCGGTGAACAGCTCCTCGCCCTTGCTCACCATAGAGCCACCTCCACCTGAACCGCCTCCACCCA
AGGCCTGCTCGGGTGCGCGCTTGTGAAAAATGACCGACTGTCTCTGCTGGTACTGCTGCTTGCGCCTCTTTTTTTTGTCACACTGGCAGCAGCAGCATCTTGAAAGTGGT
TCTGAATGTTTTGTTGCACAGAGCATAGCACACGGGGTTCACGGTGCTGTTGATGTAGCACAGCCAGTAGCCCAGATTCCAAAAGGTTTTGGGTATGCAGCTGTCACAAAAG
GTGTTCACCAGAACCATGATGTTGTATGGGGCGTGCTACGGGACTCTAGACTCGAGCGGCCGCTTACTTGTACAGCTCGTCCATGCCGAGAGTGATCCCGGCGGCGGTCACG
AACTCCAGCAGGACCATGTGATCGCGCTTCTCGTTGGGGTCTTTGCTCAGGGCGGACTGGGTGCTCAGGTAGTGGTTGTCGGGCAGCAGCACGGGGCCGTCGCCGATGGGGG
TGTTCTGCTGGTAGTGGTCGGCGAGCTGCACGCTGCCGTCCTCGATGTTGTGGCGGATCTTGAAGTTCACCTTGATGCCGTTCTTCTGCTTGTCGGCCATGATATAGACGTT
GTGGCTGTTGTAGTTGTACTCCAGCTTGTGCCCCAGGATGTTGCCGTCCTCCTTGAAGTCGATGCCCTTCAGCTCGATGCGGTTCACCAGGGTGTCGCCCTCGAACTTCACC
TCGGCGCGGGTCTTGTAGTTGCCGTCGTCCTTGAAGAAGATGGTGCGCTCCTGGACGTAGCCTTCGGGCATGGCGGACTTGAAGAAGTCGTGCTGCTTCATGTGGTCGGGGT
AGCGGCTGAAGCACTGCACGCCGTAGGTCAGGGTGGTCACGAGGGTGGGCCAGGGCACGGGCAGCTTGCCGGTGGTGCAGATGAACTTCAGGGTCAGCTTGCCGTAGGTGGC
ATCGCCCTCGCCCTCGCCGGACACGCTGAACTTGTGGCCGTTTACGTCGCCGTCCAGCTCGACCAGGATGGGCACCACCCCGGTGAACAGCTCCTCGCCCTTGCTCACCATA
GAGCCACCTCCACCTGAACCGCCTCCACCCAAGGCCTGCTCGGGTGCGCGCTTGTGAAAAATGACCGACTGTCTCTGCTGGTACTGCTGCTTGCGCCTCTTTTTTTTGTCAC
ACTGGCACAGCAGCAGCATCTTGAAAGTGGTTCTGAATGTTTTGTTGCACAGAGCATAGCACACGGGGTTCACGGTGCTGTTGATGTAGCACAGCCAGTAGCCCAGATTCCA
AAAGGTTTTGGGTATGCAGCTGTCACAAAAGGTGTTCACCAGAACCATGATGTTGTATGGGG

Read 3: 87_CMV-F_TSS20220902-027-00598_F06 — 2110 bp (Sanger / ABI trace)

AATGGGGGCAATAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGCGTTTAAACT
TAAGCTTGGTACCGAGCTCGGATCCACCATGTACCCATACGATGTTCCAGATTACGCTATGACCTTGCACAATAACAGTACAACCTCGCCTTTGTTTCCAAACATCAGCTCC
TCCTGGATACACAGCCCCTCCGATGCAGGGCTGCCCCCGGGAACCGTCACTCATTTCGGCAGCTACAATGTTTCTCGAGCAGCTGGCAATTTCTCCTCTCCAGACGGTACCA
CCGATGACCCTCTGGGAGGTCATACCGTCTGGCAAGTGGTCTTCATCGCTTTCTTAACGGGCATCCTGGCCTTGGTGACCATCATCGGCAACATCCTGGTAATTGTGTCATT
TAAGGTCAACAAGCAGCTGAAGACGGTCAACAACTACTTCCTCTTAAGCCTGGCCTGTGCCGATCTGATTATCGGGGTCATTTCAATGAATCTGTTTACGACCTACATCATC
ATGAATCGATGGGCCTTAGGGAACTTGGCCTGTGACCTCTGGCTTGCCATTGACTGCGTAGCCAGCAATGCCTCTGTTATGAATCTTCTGGTCATCAGCTTTGACAGATACT
TTTCCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGTGTGATGATCGGTCTGGCTTGGGTCATCTCCTTTGTCCTTTGGGCTCCTGCCATCTT
GTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTCAGTTCCTCAGTGAGCCCACCATTACTTTTGGCACAGCCATCGCTGGTTTTTATATG
CCTGTCACCATTATGACTATTTTATACTGGAGGATCTATAAGGAAACTGAAAAGCGTACCAAAGAGCTTGCTGGCCTGCAAGCCTCTGGGACAGAGGCAGAGACAGAAAACT
TTGTCCACCCCACGGGCAGTTCTCGAAGCTGCAGCAGTTACGAACTTAATGGGGGCAATAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTACTGGCTTATCGAAAT
TAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGATCCACCATGTACCCATACGATGTTCCAGATTACGCTATGACCT
TGCACAATAACAGTACAACCTCGCCTTTGTTTCCAAACATCAGCTCCTCCTGGATACACAGCCCCTCCGATGCAGGGCTGCCCCCGGGAACCGTCACTCATTTCGGCAGCTA
CAATGTTTCTCGAGCAGCTGGCAATTTCTCCTCTCCAGACGGTACCACCGATGACCCTCTGGGAGGTCATACCGTCTGGCAAGTGGTCTTCATCGCTTTCTTAACGGGCATC
CTGGCCTTGGTGACCATCATCGGCAACATCCTGGTAATTGTGTCATTTAAGGTCAACAAGCAGCTGAAGACGGTCAACAACTACTTCCTCTTAAGCCTGGCCTGTGCCGATC
TGATTATCGGGGTCATTTCAATGAATCTGTTTACGACCTACATCATCATGAATCGATGGGCCTTAGGGAACTTGGCCTGTGACCTCTGGCTTGCCATTGACTGCGTAGCCAG
CAATGCCTCTGTTATGAATCTTCTGGTCATCAGCTTTGACAGATACTTTTCCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGTGTGATGATC
GGTCTGGCTTGGGTCATCTCCTTTGTCCTTTGGGCTCCTGCCATCTTGTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTCAGTTCCTCA
GTGAGCCCACCATTACTTTTGGCACAGCCATCGCTGGTTTTTATATGCCTGTCACCATTATGACTATTTTATACTGGAGGATCTATAAGGAAACTGAAAAGCGTACCAAAGA
GCTTGCTGGCCTGCAAGCCTCTGGGACAGAGGCAGAGACAGAAAACTTTGTCCACCCCACGGGCAGTTCTCGAAGCTGCAGCAGTTACGAACTT

Read 4: 87_PEGFP-N-3_TSS20220902-027-00598_H02 — 2026 bp (Sanger / ABI trace)

TAAAACCCGGTGAAGCTCCTCGCCCTTGCTCACCATAGAGCCACCTCCACCTGAACCGCCTCCACCCAAGGCCTGCTCGGGTGCGCGCTTGTGAAAAATGACCGACTGTCTC
TGCTGGTACTGCTGCTTGCGCCTCTTTTTTTTGTCACACTGGCACAGCAGCAGCATCTTGAAAGTGGTTCTGAATGTTTTGTTGCACAGAGCATAGCACACGGGGTTCACGG
TGCTGTTGATGTAGCACAGCCAGTAGCCCAGATTCCAAAAGGTTTTGGGTATGCAGCTGTCACAAAAGGTGTTCACCAGAACCATGATGTTGTATGGGGTCCAAGTGATGAT
GAAGGCAAGCAAGATCGCACTGAGGGTCTGGGCCGCTTTCTTCTCCTTGACCAGGGACATCCTTTTCCGCTTAGTGATCTGACTTCTGGTCTTCAGAGCAAACCTCTTGGCC
AGAGTGGCTTCCTTGAAGGACAGAGGTAGAGTGGCCGTGCTCTTACCCACTGAGGAGTTGACGTCAGAAGTCTTAGCTGTGTCCACGGCTGACTCTAGCTGGATGGGAAGCT
TGGAGAAGCTTTTTGGAAAACTGCCTCCATCGTCCACGCTCTTCTGGGCCTGCAGCTTGTCGGCTTTCCTCTCCAAGTCCACCATCCCCAGCTCCTCCTCAGGCACCTGCAG
GTTGTCCGATGAGGGTAACTTGGTGGAGTTGAGGATGGTGCTGTGACCCGGAAGCTTGAGCACGATGGAGTAGATGGCTCTCGTCTCGGAGCCAATGTCCTCCTCGTCGGAG
GAGGCGGAGTTCTCCAGGGAGGCAGCAGCATCATTGTTGTTCCAACTGTCACTGCTGCTGTGGTCTTGGTCCATCTGCTCGGAGCTGGGTTTCCAGCTCTTGGTTGTGAACC
AGAAGTGGCAGCGGCCATACTTCCTCCTGTTGGAGCGTTTCATGCTTTGCTGTTGAAGTTCGTAACTGCTGCAGCTTCGAGAACTGCCCGTGGGGTGGACAAAGTTTTCTGT
CTCTGTAAAACCCGGTGAAGCTCCTCGCCCTTGCTCACCATAGAGCCACCTCCACCTGAACCGCCTCCACCCAAGGCCTGCTCGGGTGCGCGCTTGTGAAAAATGACCGACT
GTCTCTGCTGGTACTGCTGCTTGCGCCTCTTTTTTTTTGTCACACTGGCACAGCAGCAGCATCTTGAAAGTGGTTCTGAATGTTTTGTTGCACAGAGCATAGCACACGGGGTT
CACGGTGCTGTTGATGTAGCACAGCCAGTAGCCCAGATTCCAAAAGGTTTTGGGTATGCAGCTGTCACAAAAGGTGTTCACCAGAACCATGATGTTGTATGGGGTCCAAGTG
ATGATGAAGGCAAGCAAGATCGCACTGAGGGTCTGGGCCGCTTTCTTCTCCTTGACCAGGGACATCCTTTTCCGCTTAGTGATCTGACTTCTGGTCTTCAGAGCAAACCTCT
TGGCCAGAGTGGCTTCCTTGAAGGACAGAGGTAGAGTGGCCGTGCTCTTACCCACTGAGGAGTTGACGTCAGAAGTCTTAGCTGTGTCCACGGCTGACTCTAGCTGGATGGG
AAGCTTGGAGAAGCTTTTTGGAAAACTGCCTCCATCGTCCACGCTCTTCTGGGCCTGCAGCTTGTCGGCTTTCCTCTCCAAGTCCACCATCCCCAGCTCCTCCTCAGGCACC
TGCAGGTTGTCCGATGAGGGTAACTTGGTGGAGTTGAGGATGGTGCTGTGACCCGGAAGCTTGAGCACGATGGAGTAGATGGCTCTCGTCTCGGAGCCAATGTCCTCCTCGT
CGGAGGAGGCGGAGTTCTCCAGGGAGGCAGCAGCATCATTGTTGTTCCAACTGTCACTGCTGCTGTGGTCTTGGTCCATCTGCTCGGAGCTGGGTTTCCAGCTCTTGGTTGT
GAACCAGAAGTGGCAGCGGCCATACTTCCTCCTGTTGGAGCGTTTCATGCTTTGCTGTTGAAGTTCGTAACTGCTGCAGCTTCGAGAACTGCCCGTGGGGTGGACAAAGTTT
TCTGTCTCTG

Read 5: 87_hM3D-F1_TSS20220902-027-00598_B02 — 2006 bp (Sanger / ABI trace)

CTGGTAGCTTTGCGATACTTTTCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGTGTGATGATCGGTCTGGCTTGGGTCATCTCCTTTGTCCT
TTGGGCTCCTGCCATCTTGTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTCAGTTCCTCAGTGAGCCCACCATTACTTTTGGCACAGCC
ATCGCTGGTTTTTATATGCCTGTCACCATTATGACTATTTTATACTGGAGGATCTATAAGGAAACTGAAAAGCGTACCAAAGAGCTTGCTGGCCTGCAAGCCTCTGGGACAG
AGGCAGAGACAGAAAACTTTGTCCACCCCACGGGCAGTTCTCGAAGCTGCAGCAGTTACGAACTTCAACAGCAAAGCATGAAACGCTCCAACAGGAGGAAGTATGGCCGCTG
CCACTTCTGGTTCACAACCAAGAGCTGGAAACCCAGCTCCGAGCAGATGGACCAAGACCACAGCAGCAGTGACAGTTGGAACAACAATGATGCTGCTGCCTCCCTGGAGAAC
TCCGCCTCCTCCGACGAGGAGGACATTGGCTCCGAGACGAGAGCCATCTACTCCATCGTGCTCAAGCTTCCGGGTCACAGCACCATCCTCAACTCCACCAAGTTACCCTCAT
CGGACAACCTGCAGGTGCCTGAGGAGGAGCTGGGGATGGTGGACTTGGAGAGGAAAGCCGACAAGCTGCAGGCCCAGAAGAGCGTGGACGATGGAGGCAGTTTTCCAAAAAG
CTTCTCCAAGCTTCCCATCCAGCTAGAGTCAGCCGTGGACACAGCTAAGACTTCTGACGTCAACTCCTCAGTGGGTAAGAGCACGGCCACTCTACCTCTGTCCTTCAAGGAA
GCCACTCTGGCCAAAAGGTTTGCTCTGAAGACCAGAAGTCCGATCACTAAGCGGAAAAGGATGTCCCTGGTCAAGGAAAAAAAGCGGCCCAAACCCTCAGGGGATCTCTGGT
AGCTTTGCGATACTTTTCATCACGAGGCCGCTCACGTACCGAGCCAAACGAACAACAAAGAGAGCCGGTGTGATGATCGGTCTGGCTTGGGTCATCTCCTTTGTCCTTTGGG
CTCCTGCCATCTTGTTCTGGCAATACTTTGTTGGAAAGAGAACTGTGCCTCCGGGAGAGTGCTTCATTCAGTTCCTCAGTGAGCCCACCATTACTTTTGGCACAGCCATCGC
TGGTTTTTATATGCCTGTCACCATTATGACTATTTTATACTGGAGGATCTATAAGGAAACTGAAAAGCGTACCAAAGAGCTTGCTGGCCTGCAAGCCTCTGGGACAGAGGCA
GAGACAGAAAACTTTGTCCACCCCACGGGCAGTTCTCGAAGCTGCAGCAGTTACGAACTTCAACAGCAAAGCATGAAACGCTCCAACAGGAGGAAGTATGGCCGCTGCCACT
TCTGGTTCACAACCAAGAGCTGGAAACCCAGCTCCGAGCAGATGGACCAAGACCACAGCAGCAGTGACAGTTGGAACAACAATGATGCTGCTGCCTCCCTGGAGAACTCCGC
CTCCTCCGACGAGGAGGACATTGGCTCCGAGACGAGAGCCATCTACTCCATCGTGCTCAAGCTTCCGGGTCACAGCACCATCCTCAACTCCACCAAGTTACCCTCATCGGAC

AACCTGCAGGTGCCTGAGGAGGAGCTGGGGATGGTGGACTTGGAGAGGAAAGCCGACAAGCTGCAGGCCCAGAAGAGCGTGGACGATGGAGGCAGTTTTCCAAAAAGCTTCT
CCAAGCTTCCCATCCAGCTAGAGTCAGCCGTGGACACAGCTAAGACTTCTGACGTCAACTCCTCAGTGGGTAAGAGCACGGCCACTCTACCTCTGTCCTTCAAGGAAGCCAC
TCTGGCCAAAAGGTTTGCTCTGAAGACCAGAAGTCCGATCACTAAGCGGAAAAGGATGTCCCTGGTCAAGGAAAAAAAGCGGCCCAAACCCTCAGGGGATCT

Caution:

1. This product is FOR RESEARCH USE ONLY!
2. The item is lyophilized form, Please take the powder plasmid by centrifugation at 5000rpm/min for 1min. Add 20 uL ddH2O in to the tube of plasmid.Take 2 uL plasmid into 100 uL corresponding competent cell, centrifugal then full coating on plate.
3. Shipping temperature is 2-8C.