

Supplementary files (3 files):

1: Figure S1

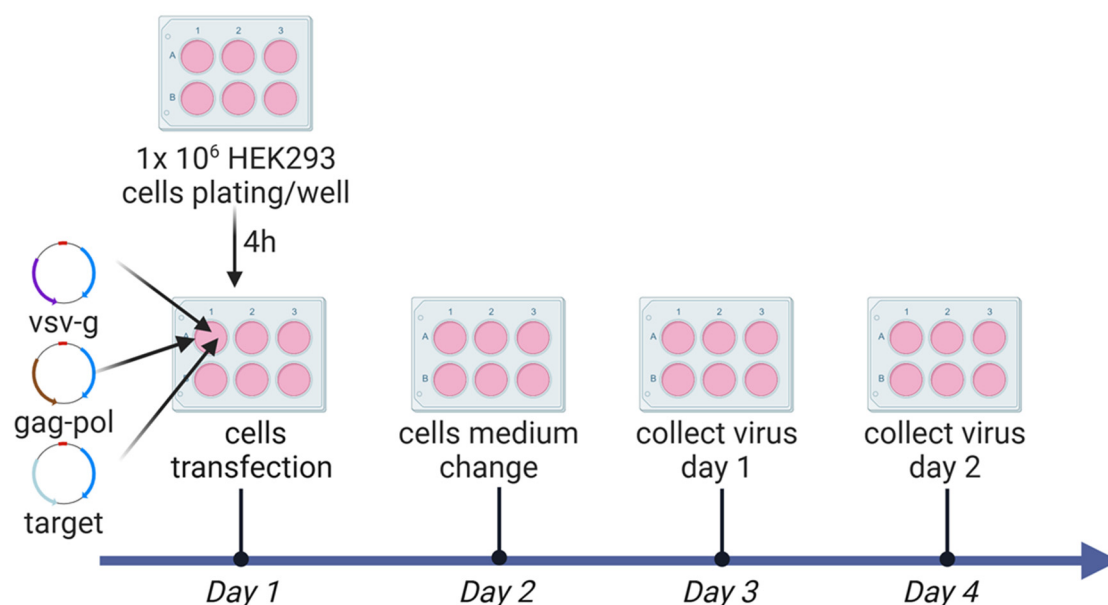


Figure S1: Protocol for Lentivirus Generation Using HEK293 Cells. HEK293 cells are seeded in a 6-well plate at a density of 1×10^6 cells per well in 2 mL of DMEM. Approximately 3-4 hours post-seeding, cells are transfected with a vector mix containing three plasmids required for lentivirus production: VSV-G, Gag-Pol, and the target expression vector (Day 1). On Day 2, the medium is replaced with 2 mL of fresh DMEM. Viral supernatants are collected on Days 3 and 4 for downstream applications.

2: Supplementary List: Supplementary fasta file promoter sequences

>Ef1a_core

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GGGCAGAGCGCACATCGCCACAGTCCCCGAGAAGTTGGGGGAGGGGTCGGCAATTGAA
CGGGTGCCTAGAGAAGGTGGCGCGGGGTAAACTGGGAAAGTGATGTCGTGTACTGGCTCCG
CCTTTTCCCAGAGGTGGGGGAGAACCGTATATAAGTGCAGTAGTCGCCGTGAACGTTCTTT
TTCGCAACGGGTTTGCCGCCAGAACACAG
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>CMV_enhancer

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TTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCC
ATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCA
ATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAA
GTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG
ACCTTATGGGACTTTCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGA
TGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGT
CTCCACCCCATTTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAA
ATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTC
TATATAAGCAGAGCTGGTTTAG
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>SV40_promoter

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GGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTA
GTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCAT
GCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTC
CGCCCAGTTCGCCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTATGCAGAGGCCG
AGGCCGCCTCGGCCTCTGAGCTA
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>EF1a_Full

GTGCCCCGTCAGTGGGCAGAGCGCACATCGCCCCACAGTCCCCGAGAAGTTGGGGGGAGGGG
TCGGCAATTGAACCGGTGCCTAGAGAAGGTGGCGCGGGGTAAACTGGGAAAGTGATGTCGT
GTAAGTGGCTCCGCCTTTTTCCCGAGGGTGGGGGAGAACCGTATATAAGTGCAGTAGTCGCCG
TGAACGTTCTTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTAAGTGCCGTGTGTGGTTCC
CGCGGGCCTGGCCTCTTTACGGGTTATGGCCCTTGCGTGCCTTGAATTACTTCCACCTGGCTG
CAGTACGTGATTCTTGATCCCGAGCTTCGGGTGGAAGTGGGTGGGAGAGTTCGAGGCCTTG
CGCTTAAGGAGCCCCCTTCGCCTCGTGCTTGAGTTGAGGCCTGGCCTGGGCGCTGGGGCCGC
CGCGTGCGAATCTGGTGGCACCTTCGCGCCTGTCTCGCTGCTTTCGATAAGTCTCTAGCCATT
TAAAATTTTTGATGACCTGCTGCGACGCTTTTTTTCTGGCAAGATAGTCTTGTAATGCGGGC
CAAGATCTGCACACTGGTATTTTCGGTTTTTGGGGCCGCGGGCGGCGACGGGGCCCGTGCCTC
CCAGCGCACATGTTTCGGCGAGGCGGGGCTGCGAGCGCGGCCACCGAGAATCGGACGGGG
GTAGTCTCAAGCTGGCCGGCCTGCTCTGGTGCCTGGCCTCGCGCCGCGCTGTATCGCCCCGC
CCTGGGCGGCAAGGCTGGCCCGGTGCGCACCAAGTTGCGTGAGCGGAAAGATGGCCGCTTC
CCGGCCCTGCTGCAGGGAGCTCAAAATGGAGGACGCGGCGCTCGGGAGAGCGGGCGGGTG
AGTCACCCACACAAAGGAAAAGGGCCTTTCCGTCCTCAGCCGTCGCTTCATGTGACTCCAC
GGAGTACCGGGCGCCGTCCAGGcacctcgattagttcttgagcttttgagtagctCGTCTTTAGGTTGGGGGGA
GGGGTTTTATGCGATGGAGTTTCCCCACACTGAGTGGGTGGAGACTGAAGTTAGGCCAGCTT
GGCACTTGATGTAATTCTCCTTGGAATTTGCCCTTTTTGAGTTTGATCTTGTTTCATTCTCAA
GCCTCAGACAGTGGTTCAAAGTTTTTTCTTCCATTTCAGGTGTCGTGA

>HPGK_promoter

TTGCGCCTTTTCCAAGGCAGCCCTGGGTTTGCGCAGGGACGCGGCTGCTCTGGGCGTGGTTC
CGGGAACGCAGCGGCGCCGACCCTGGGTCTCGCACATTCTTCACGTCCGTTTCGACGCTC
ACCCGGATCTTCGCCGCTACCCTTGTTGGGCCCCCGGCGACGCTTCCTGCTCCGCCCTAAG
TCGGGAAGGTTCTTGCGGTTTCGCGGCGTGCCGGACGTGACAAACGGAAGCCGCACGTCTC
ACTAGTACCCTCGCAGACGGACAGCGCCAGGGAGCAATGGCAGCGCGCCGACCCGATGG
GCTGTGGCCAATAGCGGTGCTCAGCAGGGCGCGCCGAGAGCAGCGGCCGGAAGGGGCG
GTGCGGGAGGCGGGGTGTGGGGCGGTAGTGTGGGCCCTGTTCTGCCCCGCGCGGTGTTCCG
CATTCTGCAAGCCTCCGGAGCGCACGTGCGCAGTCGGCTCCCTCGTTGACCGAATCACCGA
CCTCTCTCCCCAG

3: Table S1: primers used for cloning:

primers for cloning sh-EF1-COP-T2A-Puro

EF1A_GFP_PURO_slice_F2 ,CAGCAGAGATCCACTTTGGCGCCGGTGGGCAGAGCGCACATCG
CCCAC,,

GTTGATTGTCGACTTAACGCGTtcaggcaccgggcttgcggtca

primers to generate pPROM_Test

F_promoter_test_spe1_F,gcttacctACTAGTGCTAGCCAAGCTGTGACCGGCGCCTACGC,,

rev_promoter_test_spe1_R,gattcccaACTAGTactggtcgagGGATCCCGCCAAAGTGGATCTCTGCT,,

primers for cloning various promoters

Forward,Reverse,mwt

SV40,GATCCTCGGATCCTgtgtgtcagttagggtgtgg,CAGCTTGGCTAGCcttctggaatagctcagaggcc,269

CMV_Enhancer,GATCCTCGGATCCGACCGCCATGTTGACATTGATTATTGACTAG,CAGCTTGG
CTAGCCGAGCTCTGCTTATATAGACCTCCC,598

HPGK,GATCCTCGGATCCTTGCGCCTTTTCCAAGGCAGC,CAGCTTGGCTAGCCCCCTGGGGAG
AGAGGTCGGTG,511

EF1a_FULL,GATCCTCGGATCCGTGCCCCGTCAGTGGGCAGAGC,CAGCTTGGCTAGCTCACGA
CACCTGAAATGGAAG,1172

EF1a_core,GATCCTCGGATCCGGTGGGCAGAGCGCACATCGC,CAGCTTGGCTAGCGCTGTGTT
CTGGCGGCAAAC,212

