

pSecTag A

hCMV immediate early promoter
Secretion signal
Polylinker

Primer binding sites
C-terminal tag
Bovine growth hormone polyadenylation signal



5' end of hCMV promoter/enhancer
↓

209 CGATGTACGG GCCAGATATA CGCGTTGACA TTGATTATTG ACTAGTTATT AATAGTAATC AATTACGGGG

279 TCATTAGTTC ATAGCCCATA TATGGAGTTC CGCGTTACAT AACTTACGGT AAATGGCCCCG CCTGGCTGAC
enhancer region (5' end)

349 CGCCCAACGA CCCCCGCCA TTGACGTCAA TAATGACGTA TGTTCCCATTA GTAACGCCAA TAGGGACTTT

419 CCATTGACGT CAATGGGTGG ACTATTTACG GTAAACTGCC CACTTGGCAG TACATCAAGT GTATCATATG

489 CCAAGTACGC CCCCTATTGA CGTCAATGAC GGTAATGGC CCGCCTGGCA TTATGCCCAG TACATGACCT

559 TATGGGACTT TCCTACTTGG CAGTACATCT ACGTATTAGT CATCGCTATT ACCATGGTGA TCGGTTTTTG

629 GCAGTACATC AATGGGCGTG GATAGCGGTT TGA CTACCGG GGATTTCCAA GTCTCCACCC CATTGACGTC

699 AATGGGAGTT TGTTTTGGCA CCAAATCAA CGGGACTTTC CAAATGTCTG TAACAACCTCC GCCCCATTGA
enhancer region (3' end)

769 CGCAAATGGG CGGTAGGCGT GTACGGTGGG AGGTCTATAT AAGCAGAGCT CTCTGGCTAA CTAGAGAACC
CAAT TATA 3' end of hCMV putative transcriptional start

839 CACTGCTTAC TGGCTTATCG AAATTAATAC GACTCACTAT AGGGAGACCC AAGCTGGCTA GCCACC ATG
Met

Ig κ-chain leader sequence

908 GAG ACA GAC ACA CTC CTG CTA TGG GTA CTG CTG CTC TGG GTT CCA GGT TCC ACT GGT GAC
Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser Thr Gly Asp

968 GCG GCC CAGCCG GCCAGGCGCG CCGTACGAAG CTTGGTACCG AGCTCGGATC CACTAGTCCA
Sfi I Hind III Asp718 I Kpn I Bam HI

1030 GTGTGGTGGG ATTCTGCAGA TATCCAGCAC AGTGGCGGCC GCTCGAGTCT AGAGGG CCC GAA CAA AAA
Glu Gln Lys
Bst XI Eco RI Pst I Eco R V Bst XI Not I Xho I Xba I Apa I

1098 CTC ATC TCA GAA GAG GAT CTG AAT AGC GCC GTC GAC CAT CAT CAT CAT CAT CAT TGA
Leu Ile Ser Glu Glu Asp Leu Asn Ser Ala Val Asp His His His His His His ***
myc epitope Polyhistidine tag

1155 GTTTAAACCC GCTGATCAGC CTCGACTGTG CTTTCTAGTT GCCAGCCATC TGTTGTTTGC CCCTCCCCCG
pcDNA3.1/BGH reverse priming site

1225 TGCCTTCCTT GACCCTGGAA GGTGCCACTC CCACTGTCTT TTCCTAATAA AATGAGGAAA TTGCATCGCA
BGH poly (A) addition site

1295 TTGTCTGAGT AGGTGT

The variable region is indicate with a box.