



900 CACCATGGACTACAAGGACGATGACGATAAGGCGGCGGCTCGAGCATGCATCTAGAGGGCC 960
 GTGGTACCTGATGTTCTGCTACTGCTATTCCGCCGGCGAGCTCGTACGTAGATCTCCCGG

LOCUS RDB 5956 pCMV_S-FLAG 5508bp DNA circular 13-APR-2006
 SOURCE Cloning vector
 ORGANISM Artificial sequences; Cloning vehicles.
 FEATURES Location/Qualifiers
 BASE COUNT 1278 A 1421 C 1404 G 1405 T
 ORIGIN

BglII

1 GACGGATCGGGAGATCTCCCCGATCCCCTATGGTCGACTCTCAGTACAATCTGCTCTGATG
 61 CCGCATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGCG
 121 CGAGCAAAATTTAAGCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGC
 181 TTAGGGTTAGGCGTTTTGCGCTGCTTCGCGATGTACGGGCCAGATATACGCGTTGACATT |5' end of hCMV
 241 GATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATA
 301 TGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACC
 361 CCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCC
 421 ATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGT
 481 ATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATT
 541 ATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCA

NcoI*

601 TCGCTATTACCATGGTGGATGCGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTG

AP1

661 ACTCACGGGGATTTCCAAGTCTCCACCCATTGACGTCAATGGGAGTTTGTTTTGGCACC

CAAT

721 AAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCCATTGACGCAAATGGGCG

TATA 3'end of hCMV| | +1

781 GTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCA

T7 promoter

EcoRI*

841 CTGCTTAACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGAATTC

AlaGluPhe

* They are not unique.

NcoI*

NotI

XbaI

ApaI

901 ACCATGGACTACAAGGACGATGACGATAAGGCGGCCGCTCGAGCATGCATCTAGAGGGCC

ThrMETAspTyrLysAspAspAspLysAlaAlaAlaArgAlaCysIle***

single FLAG tag

<- SP6 promoter

|5' end of BGH poly(A) signal

961 CTATTCTATAGTGTACCTAAATGCTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTA

1021 GTTGCCAGCCATCTGTTGTTTGGCCCTCCCCGTCCTTCCTTGACCCTGGAAGGTGCCA

1081 CTCCCCTGTCTCTTTCCTAATAAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTC

3' end of

1141 ATTCTATTCTGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATA

BGH poly(A) signal|

1201 GCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGG

1261 GCTCGAGGGG GGATCCCCAC GCGCCCTGTA GCGGCGCATT AAGCGCGGGC GGTGTGGTGG
 1321 TTACGCGCAG CGTGACCGCT AACTTGGCA GCGCCCTAGC GCCCGCTCCT TTCGCTTTCT
 1381 TCCCTTCCTT TCTCGCCACG TTCGCCGGCT TTCCCCGTCA AGCTCTAAAT CGGGGCATCC
 1441 CTTTAGGGTT CCGATTTAGT GCTTTACGGC ACCTCGACCC CAAAAACTT GATTAGGGTG
 1501 ATGGTTCACG TAGTGGGCCA TCGCCCTGAT AGACGGTTTT TCGCCCTTTG ACGTTGGAGT
 1561 CCACGTTCTT TAATAGTGGA CTCTTGTTCC AAAGTGAAC AACACTCAAC CCTATCTCGG
 1621 TCTATTCTTT TGATTTATAA GGGATTTTGG GGATTTTCGGC CTATTGGTTA AAAAATGAGC
 1681 TGATTTAACA AAAATTTAAC GCGAATTTTA ACAAATATT AACGTTTACA ATTTAAATAT
 1741 TTGCTTATAC AATCTTCCTG TTTTGGGGC TTTTCTGATT ATCAACCGGG GTGGGTACCG
 1801 AGCTCGAATT CTGTGGAATG TGTGTCAGTT AGGGTGTGGA AAGTCCCCAG GCTCCCCAGG
 1861 CAGGCAGAAG TATGCAAAGC ATGCATCTCA ATTAGTCAGC AACCAGGTGT GGAAAGTCCC
 1921 CAGGCTCCCC AGCAGGCAGA AGTATGCAAA GCATGCATCT CAATTAGTCA GCAACCATAG
 1981 TCCCCCCCCCT AACTCCGCC ATCCCCGCC TAAGTCCGCC CAGTTCCGCC CATTCTCCGC
 2041 CCCATGGCTG ACTAATTTTT TTTATTTATG CAGAGGCCGA GGCCGCCTCG GCCTCTGAGC
 2101 TATTCAGAA GTAGTGAGGA GGCTTTTTTG GAGGCCTAGG CTTTTGCAAA AAGCTCCCGG
 2161 GAGCTTGGAT ATCCATTTTC GGATCTGATC AAGAGACAGG ATGAGGATCG TTTTCGATGA
 2221 TTGAACAAGA TGGATTGCAC GCAGTTCTC CGGCCGCTTG GGTGGAGAGG CTATTCGGCT
 2281 ATGACTGGGC ACAACAGACA ATCGGCTGCT CTGATGCCGC CGTGTTCGGG CTGTCAGCGC
 2341 AGGGGCGCCC GTTCTTTTTT GTCAAGACCG ACCTGTCCGG TGCCCTGAAT GAACTGCAGG
 2401 ACGAGGCAGC GCGGCTATCG TGGCTGGCCA CGACGGGCGT TCCTTGCGCA GCTGTGCTCG
 2461 ACGTTGTCAC TGAAGCGGGA AGGACTGGC TGCTATTGGG CGAAGTGCCG GGGCAGGATC
 2521 TCCTGTCATC TCACCTTGCT CCTGCCGAGA AAGTATCCAT CATGGCTGAT GCAATGCGGC
 2581 GGCTGCATAC GCTTGATCCG GCTACCTGCC CATTTCGACCA CCAAGCGAAA CATCGCATCG
 2641 AGCGAGCACG TACTCGGATG GAAGCCGGTC TTGTGATCA GGATGATCTG GACGAAGAGC
 2701 ATCAGGGGCT CGCGCCAGCC GAACTGTTCC CCAGGCTCAA GGCGCGCATG CCCGACGGCG
 2761 AGGATCTCGT CGTGACCCAT GCGGATGCCT GCTTGCCGAA TATCATGGTG GAAAATGGCC
 2821 GCTTTTCTGG ATTCATCGAC TGTGGCCGGC TGGGTGTGGC GGACCGCTAT CAGGACATAG
 2881 CGTTGGCTAC CCGTGATATT GCTGAAGAGC TTGGCGGCGA ATGGGCTGAC CGCTTCCTCG
 2941 TGCTTTACGG TATCGCCGCT CCCGATTCCG AGCGCATCGC CTTCTATCGC CTTCTTGACG
 3001 AGTTCCTCTG AGCGGGACTC TGGGGTTTCA AATGACCGAC CAAGCGACGC CCAACTGCC
 3061 ATCACGAGAT TTCGATTCCA CCGCCGCTT CTATGAAAGG TTGGGCTTCG GAATCGTTTT
 3121 CCGGGACGCC GGCTGGATGA TCCTCCAGCG CGGGGATCTC ATGCTGGAGT TCTTCGCCCA
 3181 CCCCAACTTG TTTATTGCAG CTTATAATGG TTACAAATAA AGCAATAGCA TCACAAATTT
 3241 CACAAATAAA GCATTTTTTT CACTGCATTC TAGTTGTGGT TTGTCCAAAC TCATCAATGT
 3301 ATCTTATCAT GTCTGGATCC CGTCGACCTC GAGAGCTTGG CGTAATCATG GTCATAGCTG
 3361 TTTCCCTGTGT GAAATTGTTA TCCGCTCACA ATTCCACACA ACATACGAGC CGGAAGCATA
 3421 AAGTGTAAG CCTGGGGTGC CTAATGAGTG AGCTAACTCA CATTAAATTG GTTGCCTCA
 3481 CTGCCCGCTT TCCAGTCGGG AAACCTGTCT TGCCAGCTGC ATTAATGAAT CGGCCAACGC
 3541 GCGGGGAGAG GCGGTTTGGC TATTGGGCGC TCTTCCGCTT CCTCGCTCAC TGACTCGCTG
 3601 CGCTCGGTCG TTCGGCTGCG GCGAGCGGTA TCAGCTCACT CAAAGGCGGT AATACGGTTA
 3661 TCCACAGAAT CAGGGGATAA CGCAGGAAAG AACATGTGAG CAAAAGGCCA GCAAAGGCC
 3721 AGGAACCGTA AAAAGGCCG GTTGCTGGCG TTTTCCATA GGCTCCGCC CCCTGACGAG
 3781 CATCACAAA ATCGACGCTC AAGTCAGAGG TGGCGAAACC CGACAGGACT ATAAAGATAC
 3841 CAGGCGTTTC CCCCTGGAAG CTCCCTCGTG CGCTCTCCTG TTCCGACCCT GCCGCTTACC
 3901 GGATACCTGT CCGCCTTTCT CCCTTCGGGA AGCGTGGCGC TTTCTCAATG CTCACGCTGT
 3961 AGGTATCTCA GTTCGGTGTA GGTGCTTCGC TCCAAGCTGG GCTGTGTGCA CGAACCCCC

4021 GTTCAGCCCG ACCGCTGCGC CTTATCCGGT AACTATCGTC TTGAGTCCAA CCCGGTAAGA
4081 CACGACTTAT CGCCACTGGC AGCAGCCACT GGTAACAGGA TTAGCAGAGC GAGGTATGTA
4141 GGCGGTGCTA CAGAGTTCTT GAAGTGGTGG CCTAACTACG GCTACACTAG AAGGACAGTA
4201 TTTGGTATCT GCGCTCTGCT GAAGCCAGTT ACCTTCGGAA AAAGAGTTGG TAGCTCTTGA
4261 TCCGGCAAAC AAACCACCGC TGGTAGCGGT GGTTTTTTTTG TTTGCAAGCA GCAGATTACG
4321 CGCAGAAAAA AAGGATCTCA AGAAGATCCT TTGATCTTTT CTACGGGGTC TGACGCTCAG
4381 TGGAACGAAA ACTCACGTTA AGGGATTTTG GTCATGAGAT TATCAAAAAG GATCTTCACC
4441 TAGATCCTTT TAAATTAATA ATGAAGTTTT AAATCAATCT AAAGTATATA TGAGTAAACT
4501 TGGTCTGACA GTTACCAATG CTTAATCAGT GAGGCACCTA TCTCAGCGAT CTGTCTATTT
4561 CGTTCATCCA TAGTTGCCTG ACTCCCCGTC GTGTAGATAA CTACGATACG GGAGGGCTTA
4621 CCATCTGGCC CCAGTGCTGC AATGATACCG CGAGACCCAC GCTCACCGGC TCCAGATTTA
4681 TCAGCAATAA ACCAGCCAGC CGGAAGGGCC GAGCGCAGAA GTGGTCCTGC AACTTTATCC
4741 GCCTCCATCC AGTCTATTAA TTGTTGCCGG GAAGCTAGAG TAAGTAGTTC GCCAGTTAAT
4801 AGTTTGCGCA ACGTTGTTGC CATTGCTACA GGCATCGTGG TGTCACGCTC GTCGTTTGGT
4861 ATGGCTTCAT TCAGCTCCGG TTCCCAACGA TCAAGGCGAG TTACATGATC CCCCATGTTG
4921 TGCAAAAAAG CGGTTAGCTC CTTCCGTCCT CCGATCGTTG TCAGAAGTAA GTTGGCCGCA
4981 GTGTTATCAC TCATGGTTAT GGCAGCACTG CATAATTCTC TTAGTGTGATC GCCATCCGTA
5041 AGATGCTTTT CTGTGACTGG TGAGTACTCA ACCAAGTCAT TCTGAGAATA GTGTATGCGG
5101 CGACCGAGTT GCTCTTGCCC GCGTCAATA CGGGATAATA CCGCGCCACA TAGCAGAACT
5161 TTAAAAGTGC TCATCATTTG AAAACGTTCT TCGGGGCGAA AACTCTCAAG GATCTTACCG
5221 CTGTTGAGAT CCAGTTCGAT GTAACCCACT CGTGCACCCA ACTGATCTTC AGCATCTTTT
5281 ACTTTCACCA GCGTTTCTGG GTGAGCAAAA ACAGGAAGGC AAAATGCCGC AAAAAAGGGA
5341 ATAAGGGCGA CACGGAAATG TTGAATACTC ATACTCTTCC TTTTTCATAA TTATTGAAGC
5401 ATTTATCAGG GTTATTGTCT CATGAGCGGA TACATATTTG AATGTATTTA GAAAAATAAA
5461 CAAATAGGGG TTCCGCGCAC ATTTCCCCGA AAAGTGCCAC CTGACGTC

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