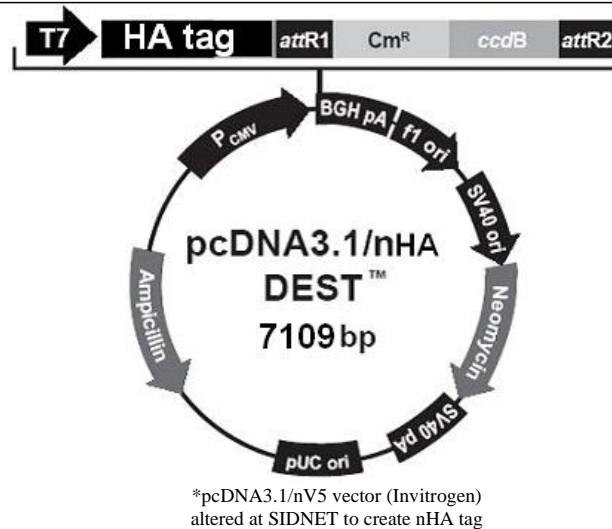


pcDNA3.1/nHA-DEST Vector Map and Polylinker

CMV promoter: bases 232-819
 T7 promoter/priming site: bases 863-882
 HA tag: bases 914-940
attR1 recombination site: bases 980-1104
 Chloramphenicol resistance gene: bases 1213-1872
ccdB gene: bases 2214-2519
attR2 recombination site: bases 2560-2684
 BGH Reverse priming site: bases 2703-2720
 BGH polyadenylation region: bases 2706-2933
 f1 origin: bases 2979-3407
 SV40 early promoter and origin: bases 3434-3742
 Neomycin resistance gene (ORF): bases 3817-4611
 SV40 early polyadenylation region: bases 4785-4915
 pUC origin: bases 5298-5968
 Ampicillin resistance gene (ORF): bases 6113-6973 (complementary strand)



T7 promoter/priming site
 851 GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGT TAAGCTTACC

HA tag
 M Y P Y D V P D Y A G Q G
 911 ATG TAC CCA TAC GAC GTC CCA GAC TAC GCT GGA CAG GGC
 TAC ATG GGT ATG CTG CAG GGT CTG ATG CGA CCT GTC CCG

950 Pro Asp Pro Ser Thr Asn Ser Ala Asp Ile
 CCG GAT CCG TCG ACG AAT TCT GCA GAT ATC

980 Thr Ser Leu Tyr Lys Lys Ala Gly
 ACA AGT TTG TAC AAA AAA GCA GGC TN- --- gene --- NACCCAGCTT TCTTG
 TGT TCA AAC ATG TTT TTT CGT CCG AN- --- gene --- NTGGGTCGAA AGAAC

attB1 attB2
 BGH Reverse priming site
 2674 TACAAAGTGG TGATAAACCC GCTGATCAGC CTCGACTGTG CTTTCTAGTT GCCAGCCATC
 ATGTTTCACC ACTATTTCCC