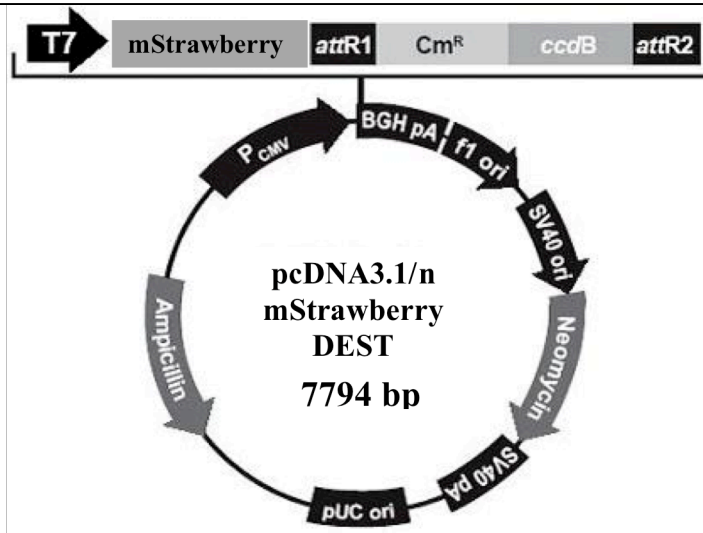


# pcDNA3.1/n mStrawberry-DEST Vector Map and Polylinker

CMV promoter: bases 232-819  
 T7 promoter/priming site: bases 863-882  
 mStrawberry tag: bases 914-1625  
 attR1 recombination site: bases 1665-1789  
 Chloramphenicol resistance gene: bases 1898-2557  
 ccdB gene: bases 2899-3204  
 attR2 recombination site: bases 3245-3369  
 BGH Reverse priming site: bases 3388-3405  
 BGH polyadenylation region: bases 3391-3618  
 f1 origin: bases 3664-4092  
 SV40 early promoter and origin: bases 4119-4427  
 Neomycin resistance gene (ORF): bases 4502-5296  
 SV40 early polyadenylation region: bases 5470-5600  
 pUC origin: bases 5983-6653  
 Ampicillin resistance gene (ORF): bases 6798-7658 (complementary strand)



\*pcDNA3.1/nV5 vector (Invitrogen) altered at SIDNET to create mStrawberry tag

T7 promoter/priming site

851 GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGT T AAGCTT CACC

911 atg gtc agc aag ggc gag gag aat aac atg gcc atc atc aag gag ttc atg cgc ttc aag gtc cgc atg gag ggc tcc gtc  
 aac ggc cac gag ttc gag atc gag ggc gag ggc gag ggc cgc ccc tac gag ggc acc cag acc gct aag ctg aag gtc acc  
 aag ggt ggc ccc ctg ccc ttc gcc tgg gac atc ctg tcc ccc aac ttc acc tac ggc tcc aag gcctac gtc aag cac ccc  
 gcc gac atc ccc gac tac ttc aag ctg tcc ttc ccc gag ggc ttc aag tgg gag cgc gtc atg aac ttc gag gac gcc ggc  
 gtc gtc acc gtc acc cag gac tcc tcc ctg cag gac ggc gag ttc atc tac aag gtc aag ctg cgc ggc acc aac ttc ccc  
 tcc gac ggc ccc gta atg cag aag aag acc atg ggc tgg gag gcc tcc tcc gag cgg atg tac ccc gag gac gcc gcc ctg  
 aag ggc gag atc aag atg agg ctg aag ctg aag gac ggc gcc cac tac acc tcc gag gtc aag acc acc tac aag gcc aag  
 aag ccc gtc cag ctg ccc ggc gcc tac atc gtc gcc atc aag ttg gac atc acc tcc cac aac gag gac tac acc atc gtc  
 gaa cag tac gaa cgc gcc gag ggc cgc cac tcc acc ggc gcc atg gac gag ctg tac aag

1635 Gly Pro Asp Pro Ser Thr Asn Ser Ala Asp Ile  
 GGC CCG GAT CCG TCG ACG AAT TCT GCA GAT ATC

1672

3355

1665 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

3359 TACAAAGTGG TGATAAACCC GCTGATCAGC CTCGACTGTG CTTTCTAGTT GCCAGCCATC  
 ATGTTTCACC ACTATTTCCC