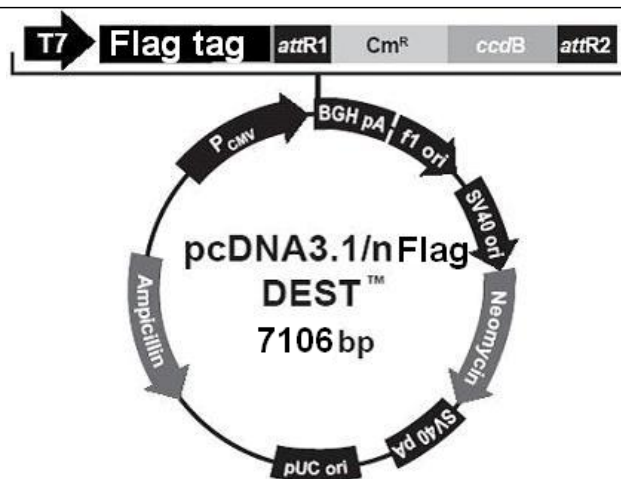


## pcDNA3.1/nFlag-DEST Vector Map and Polylinker

CMV promoter: bases 232-819  
 T7 promoter/priming site: bases 863-882  
 Flag tag: bases 914-937  
*attR1* recombination site: bases 977-1101  
 Chloramphenicol resistance gene: bases 1210-1869  
*ccdB* gene: bases 2211-2516  
*attR2* recombination site: bases 2557-2681  
 BGH Reverse priming site: bases 2700-2717  
 BGH polyadenylation region: bases 2703-2930  
 f1 origin: bases 2976-3404  
 SV40 early promoter and origin: bases 3431-3739  
 Neomycin resistance gene (ORF): bases 3814-4608  
 SV40 early polyadenylation region: bases 4782-4912  
 pUC origin: bases 5295-5965  
 Ampicillin resistance gene (ORF): bases 6110-6970 (complementary strand)



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

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

Flag tag  
 M D Y K D D D D K G Q G  
 911 ATG GAC TAC AAA GAC GAT GAC GAC AAG GGA CAG GGC  
 TAC CTG ATG TTT CTG CTA CTG CTG TTC CCT GTC CCG

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

984 2667  
 977 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  
 2671 TACAAAGTGG TGATAAACCC GCTGATCAGC CTCGACTGTG CCTTCTAGTT GCCAGCCATC  
 ATGTTTCACC ACTATTTCCC