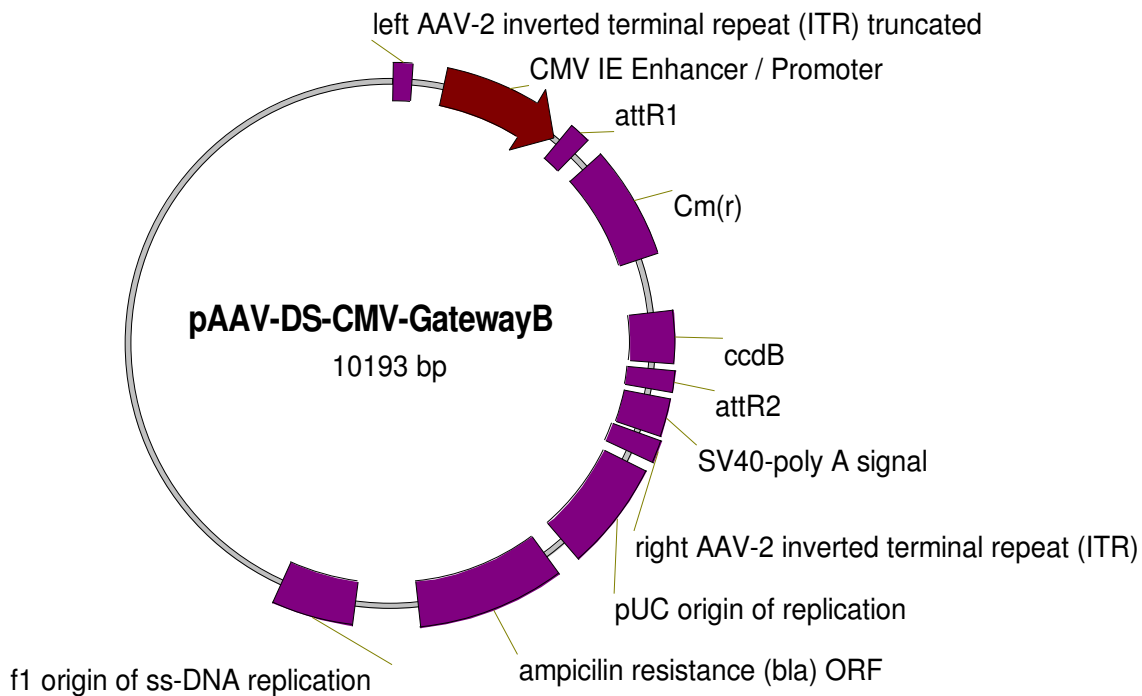


Plasmid Map

pAAV-DS-CMV-GatewayB

Catalog Number: 0922



Left ITR (truncated): 1-117

CMV IE Enhancer/Promoter: 316-1072

Gateway B cassette: 1111-2815 (including attR1, Cm(r), ccdB, and attR2)

Human growth hormone poly-A: 2854-3072

Right ITR: 3095-3224

f1 origin: 3286-3921

ampicillin resistance (bla) ORF: 4059-4916

pUC origin of replication: 5307-5783

Note:

1. Truncation of the left ITR allows the newly replicated single strand AAV genome to fold over and form double strand (DS) sequence. The DS genome can be packed to form AAV particle if its length is within 2500bp. Gene expression from DS-AAV starts earlier and reaches much higher level compared with AAV with SS genome.
2. Gateway B cassette allows directional subcloning of gene of interest using Invitrogen's Gateway™ system. The pAAV-CMV-GatewayB shuttle plasmid works as a "destination plasmid". The gene of interest needs to be in pENTR plasmid. Refer to user manual of Invitrogen's Gateway™ system for detail of subcloning procedures.
3. Chloramphenicol resistant gene (Cm(r)) allows confirmation of the plasmid to contain the Gateway™ cassette by adding chloramphenicol to agar plates or culture broth.
4. The plasmid contains ccdB toxic gene. Use *One Shot ccdB Survival T1 Phage –Resistant Cell* from Invitrogen (Cat. No. C7510-03) for further expansion.
5. This shuttle plasmid allows transgene as large as 980bp (between two recombination sites) to be packed into AAV vector.