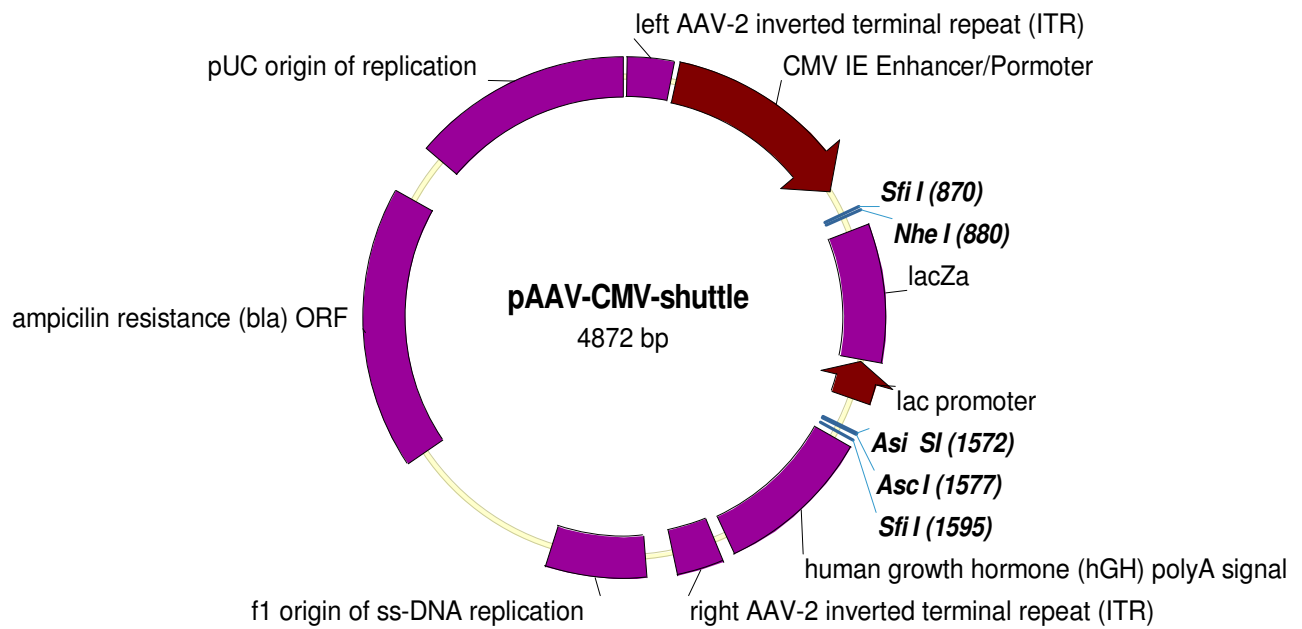


Plasmid Map

pAAV-CMV-shuttle

Catalog Number: 0911



Left ITR: 1-141

CMV IE Enhancer/Promoter: 160-785

LacZ α cassette (complementary): 930-1477 (including lac promoter and lacZ α)

Human growth hormone poly-A: 1617-2095

Right ITR: 2135-2275

f1 origin: 2367-2673

ampicillin resistance (bla) ORF: 3192-4046

pUC origin of replication: 4200-4867

Note:

1. lacZ α expression cassette provides convenient blue-white selection when subcloning transgene insert behind CMV promoter. Bacterial strains that complement lacZ α function such as DH5 α or DH10B should be used.
2. Transgene can be cloned between Nhe I site at 5' and either Asc I or Asi SI site at 3'.
3. Detail of Sfi I subcloning sites:

```
( 859)                               ( 1567)
5' -AACGGCCAGAG AGGCCGCTAGCG . . . GCGATCGCGGCGCGCCGGCCTCTC TGGCCTC
3' -TTGCCGGT CTCTCCGGCGATCGC . . . CGCTAGCGCCGCGCGGCCGGA GAGACCGGAG
      5'- Sfi I site                Asi SI site                3'- Sfi I site
```

4. Above Sfi I sites can be used to subclone blunt-ended fragment. Such fragment can be first ligated with Sfi I adaptors, then ligate with Sfi I-digested 4147bp fragment of the shuttle plasmid. Please contact Applied Viromics for detail.
5. This shuttle plasmid allows transgene as large as 3450bp to be packed into AAV vector.