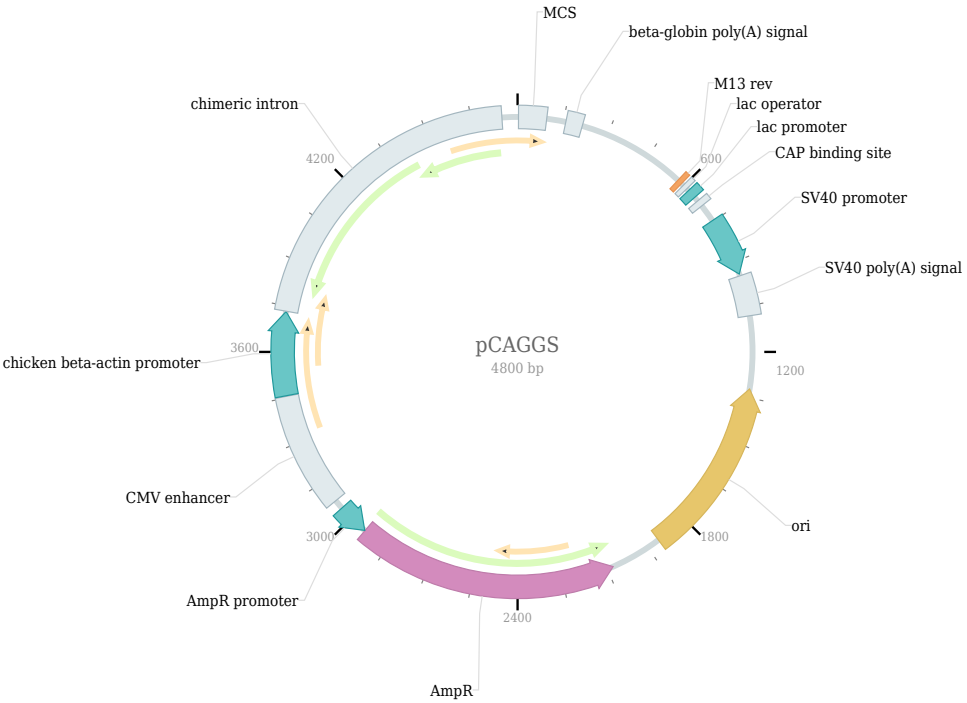
# pCAGGS

| | |
|---|---|
| **Vector ID** | V008798 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 4800 bp |
| **Vector Type** | Mammalian expression vector |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Source/Author** | De Schamphelaire W, Olbrechts A, Meert J, Verhelst K, Roggeman Fonseca M, Vanhoucke M, Beyaert R. |
| **Promoter** | CAG |
| **Growth Strain(s)** | DH10B |
| **Growth Temperature** | 37℃ |
| **Comment** | The pCAGGS vector has several distinctive features. 1. It has a unique promoter combination of chicken β-actin promoter and CMV enhancer (CAG promoter), enabling high-level expression in a wide range of cell types and being more versatile than some single strong promoters. 2. It shows low cytotoxicity and high genetic stability. 3. It has rich multiple cloning sites and can be combined with other elements for greater flexibility. 4. The presence of a chimeric intron enhances expression efficiency, increases universality across cell types and species, and facilitates gene regulation. |

## Vector Map



## Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.