# pAAVS1-P-CAG-GFP

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|---|---|
| **Vector ID** | V012093 |
| **Antibiotic Resistance** | Ampicillin, Kanamycin |
| **Length** | 9608 bp |
| **Vector Type** | Mammalian Expression ; donor vector (human) |

## Product Information

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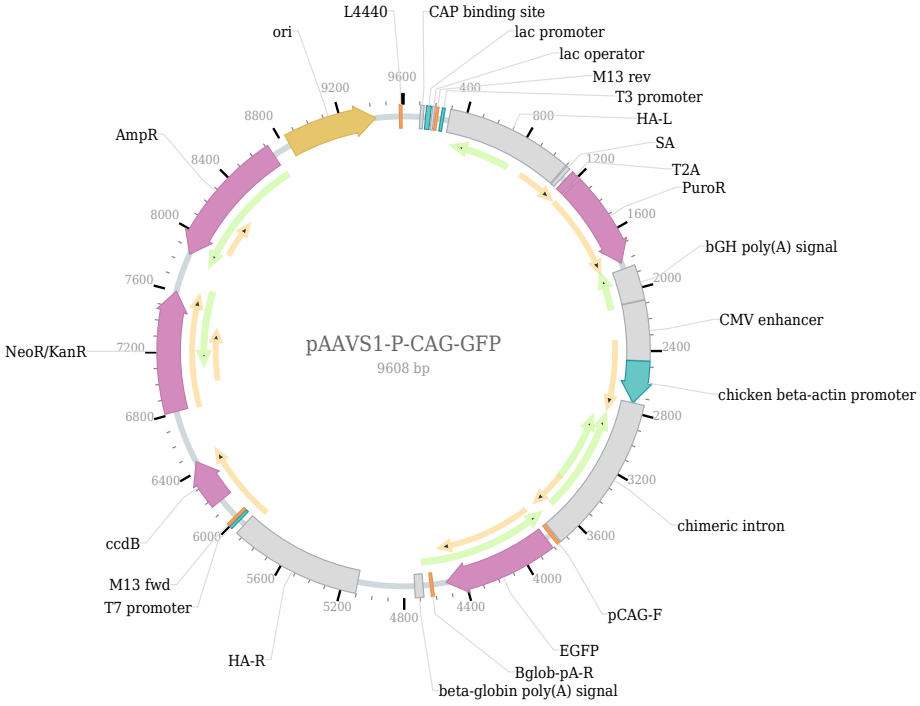
| **Replication Origin** | ori |
| **Selection Marker** | Puromycin |
| **Copy Number** | High Copy |
| **Promoter** | chicken β-actin |
| **Cloning Method** | Restriction Enzyme |
| **5' Primer** | AGCCTCTGCTAACCATGTTC |
| **3' Primer** | ATTAGCCAGAAGTCAGATGC |
| **Growth Strain(s)** | DB3.1 |
| **Comment** | pAAVS1-P-CAG-GFP is an AAVS1-targeting donor vector for human cells, with homology arms for HDR-mediated site-specific integration. It uses a splice-acceptor puromycin marker for positive selection and a strong CAG promoter to drive stable, constitutive GFP expression in pluripotent and differentiated cells. It is widely used as a fluorescent control reporter to verify AAVS1 editing and track iPSC-derived cell fate in developmental and disease modeling assays. |

## 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 ℃.