# pCAG-D12L

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| **Vector ID** | V014471 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 6577 bp |
| **Vector Type** | Protein expression |
| **Host** | Mammalian cells |

## Product Information

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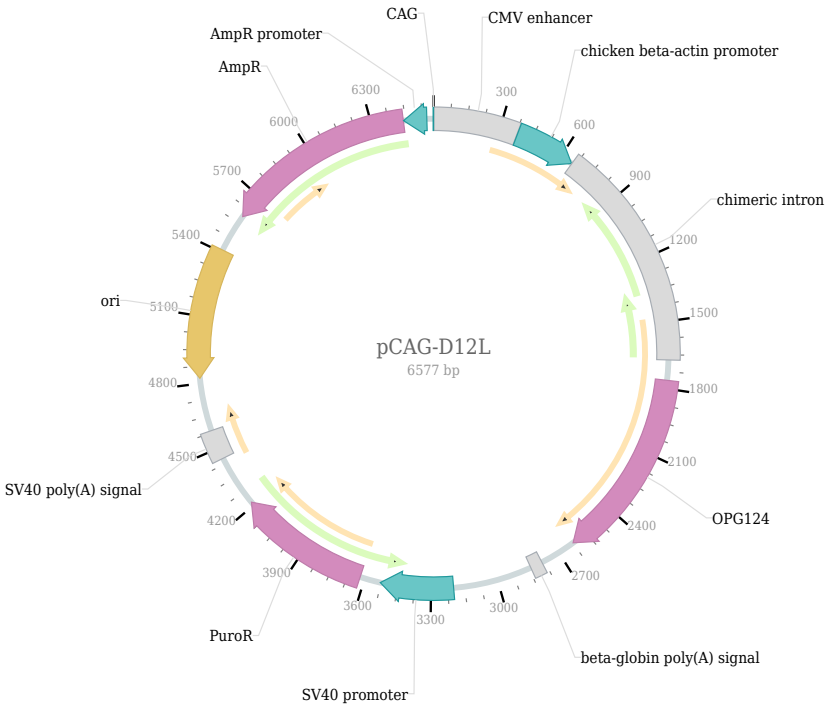
| **Replication Origin** | ori |
| **Selection Marker** | Puro |
| **Promoter** | CAG |
| **5' Primer** | pcaggs-F□GTTCGGCTTCTGGCGTGT |
| **Growth Temperature** | 37℃ |
| **Comment** | pCAG-D12L is a mammalian expression vector. It features the CAG hybrid promoter (CMV enhancer + chicken β-actin promoter + chimeric intron) for high-level constitutive expression of the D12L (OPG124) gene. The vector also includes a SV40 promoter driving PuroR (puromycin resistance) for stable selection, plus SV40 poly(A) and β-globin poly(A) signals, AmpR, and a pUC origin. |

## 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 ℃.