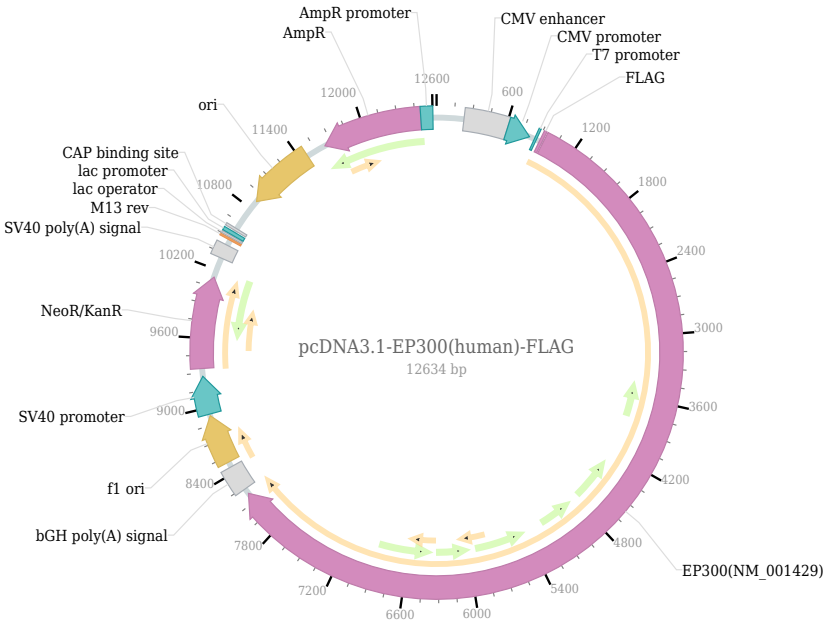
# pcDNA3.1-EP300(human)-FLAG

| | |
|---|---|
| **Vector ID** | V018360 |
| **Accession ID** | NM_001429.4 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 12634 bp |
| **Vector Type** | Protein expression |
| **Host** | Mammalian cells |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Selection Marker** | Neo/G418 |
| **Promoter** | CMV |
| **Fusion Tag** | FLAG |
| **Growth Strain(s)** | JM109 |
| **Expression Method** | Transient |
| **Comment** | pCDNA3.1-EP300(human)-FLAG (12.6 kb) is a mammalian expression vector for the human EP300 (p300) gene. It features a CMV promoter driving the full-length EP300 ORF (NM_001429) with a C-terminal FLAG tag for detection. The vector also includes an AmpR (ampicillin resistance) for bacterial selection, a NeoR/KanR cassette (G418 resistance) for stable selection in mammalian cells, pUC ori, f1 ori, bGH poly(A) signal, and SV40 poly(A) signal. EP300 is a histone acetyltransferase involved in transcriptional regulation and chromatin remodeling |

## 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 ℃.