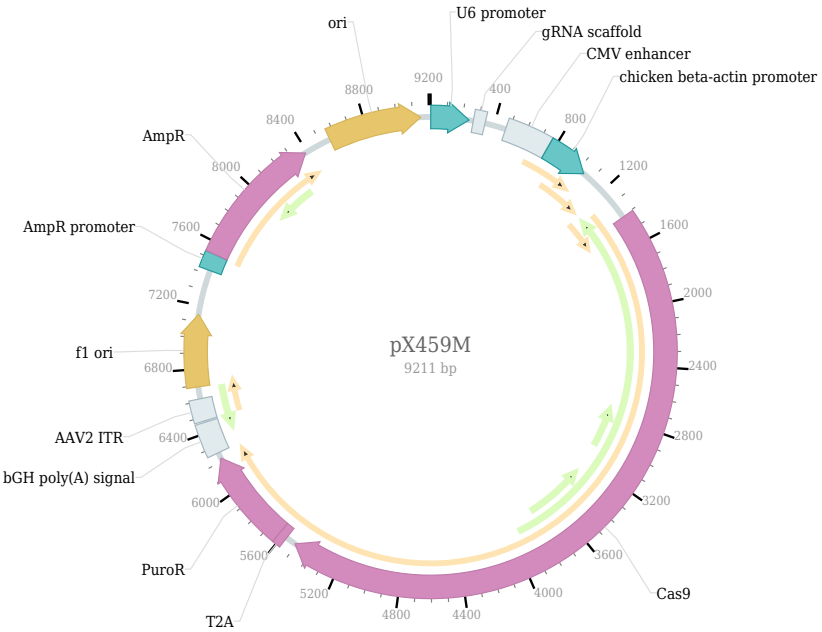
# pX459M

| | |
|---|---|
| **Vector ID** | V013299 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 9211 bp |
| **Vector Type** | Gene knockout |
| **Host** | Mammalian cells |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Selection Marker** | Puro |
| **Promoter** | CBh |
| **Growth Strain(s)** | Stbl3 |
| **Growth Temperature** | 37℃ |
| **Comment** | pX459M is a CRISPR/Cas9 system plasmid vector used for gene editing in mammalian cells. It was engineered based on the pX459 vector developed by the Feng Zhang lab and is primarily used to achieve targeted gene knockout in eukaryotic cells. Besides Cas9 and a guide RNA insertion site, pX459M also introduces a second guide RNA insertion site. In addition, pX458M carries an EGFP fluorescent marker; pX459M carries a puromycin resistance screening marker. |

## 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 ℃.