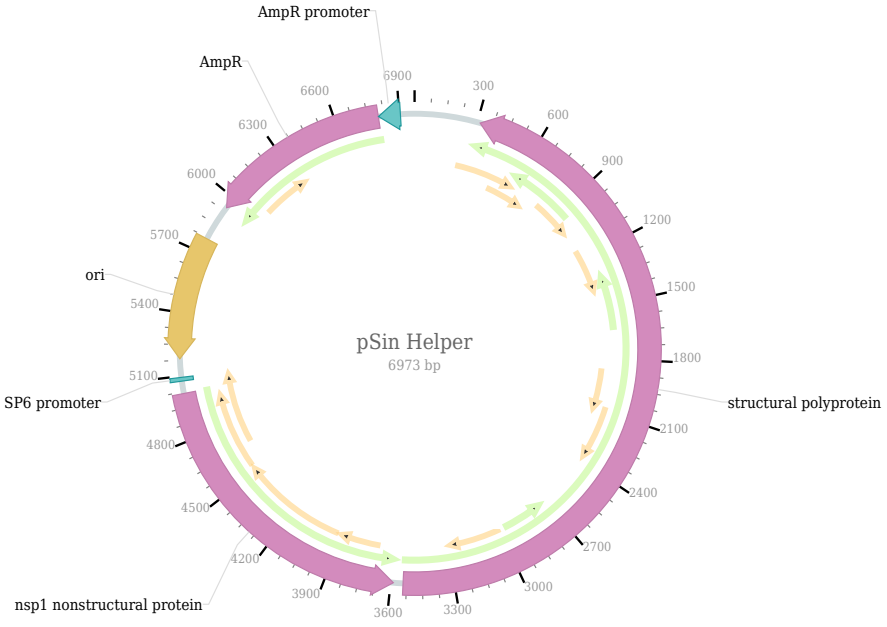
# pSin Helper

| | |
|---|---|
| **Vector ID** | V016732 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 6973 bp |
| **Vector Type** | Protein expression |
| **Host** | Mammalian cells |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Promoter** | SP6 |
| **Growth Strain(s)** | DH10B |
| **Growth Temperature** | 37℃ |
| **Comment** | pSin Helper is a split helper plasmid for the VEGAS Sindbis packaging system in the Cell 2019 paper. It carries genes encoding Sindbis envelope glycoproteins E1, E2 and 6K, and can be linearized and transcribed into functional mRNA. Its mRNA is co-electroporated with pSinCapsid and pTSin RNAs in BHK21 cells to supply viral outer membrane proteins. Together with pSinCapsid, it provides full structural proteins to assemble recombinant Sindbis virions carrying target transgenes. |

## 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 ℃.