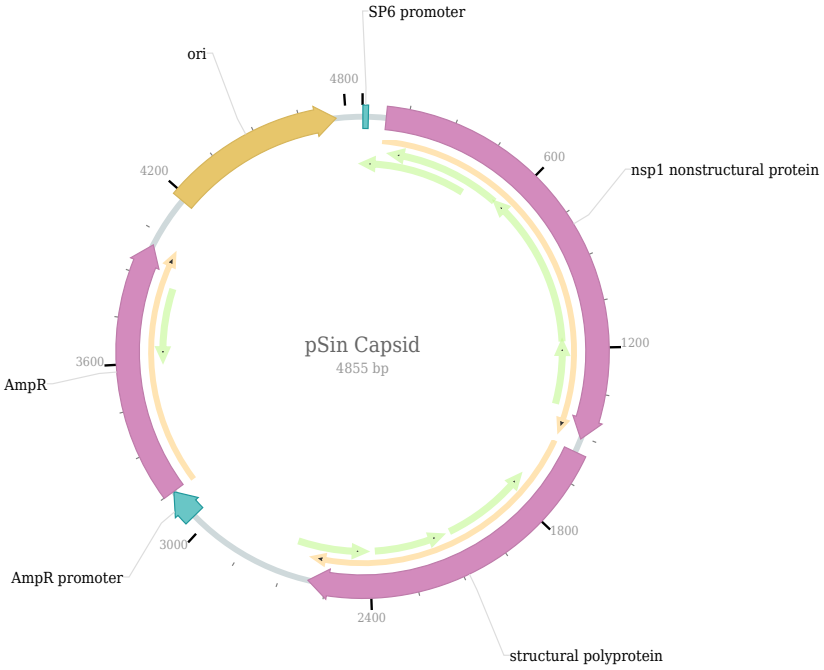
pSin Capsid

Vector ID	V016680
Antibiotic Resistance	Ampicillin
Length	4855 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Promoter	SP6
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pSin Capsid is a helper plasmid in the VEGAS Sindbis viral system from the 2019 Cell paper. It encodes the Sindbis capsid protein and generates packaging-competent mRNA after linearization and in vitro transcription. Co-electroporation of its mRNA with pTSin and pSinHelper RNAs in BHK21 cells enables assembly of recombinant Sindbis virions carrying target transgenes. This plasmid supplies core nucleocapsid components essential for continuous viral propagation during mammalian directed evolution.

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 ℃.