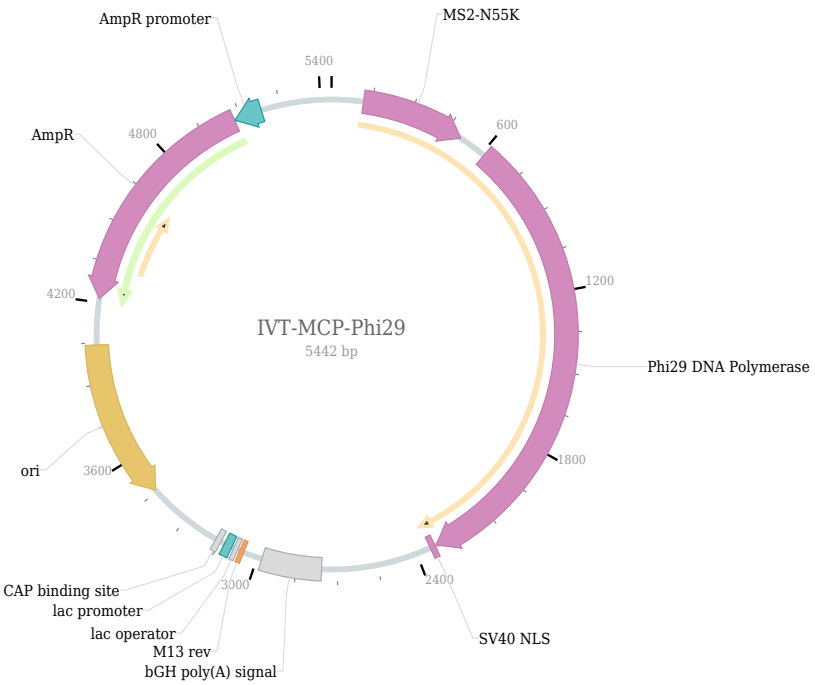
IVT-MCP-Phi29

Vector ID	V037216
Antibiotic Resistance	Ampicillin
Length	5442 bp
Vector Type	In Vitro Transcription
Host	Bacteria

Product Information

Replication Origin	ori
Copy Number	High
Growth Strain(s)	NEB Stable
Growth Temperature	30℃
Expression Method	Transient
Comment	IVT-MCP-Phi29 is an in vitro transcription vector designed to express an mRNA encoding the MS2 coat protein (MCP) fused to the Bacillus subtilis phage Phi29 DNA polymerase. This construct is used in DNA Polymerase Editing (DPE) to tether the polymerase to synthetic templates via an MS2 stem-loop.

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 ℃.