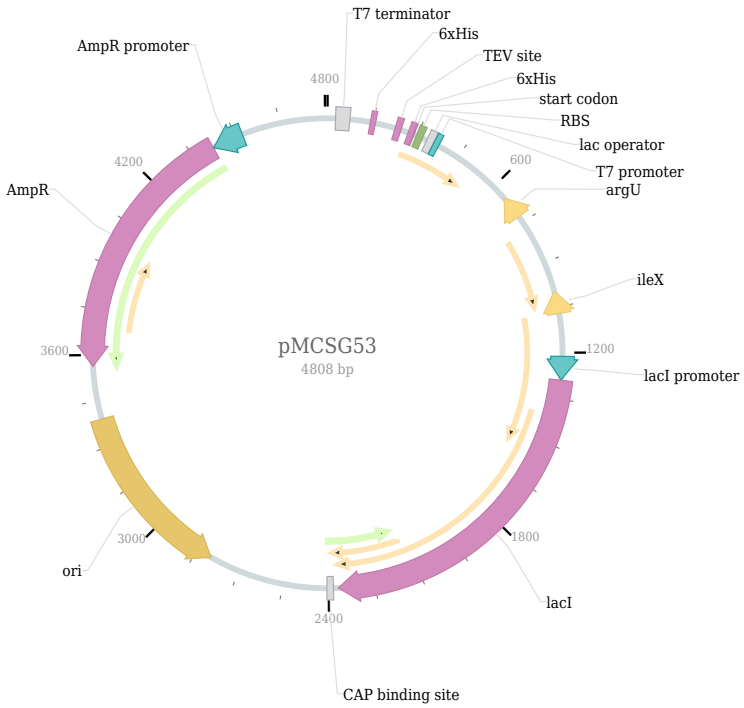
pMCSG53

Vector ID	V010641
Antibiotic Resistance	Ampicillin
Length	4808 bp
Vector Type	Structural Genomics Vectors

Product Information

Replication Origin	ori
Source/Author	Eschenfeldt WH, Makowska-Grzyska M, Stols L, Donnelly MI,
Copy Number	High copy number
Growth Strain(s)	Top10
Comment	pMCSG53 is an MCSG high-throughput expression vector based on pMCSG7 with added rare-codon tRNA genes, improving yields of genes containing uncommon E. coli codons. Carries a T7 promoter, N-terminal His6 tag, and TEV cleavage site; designed for structural genomics protein production (Eschenfeldt et al. 2013).

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 ℃.