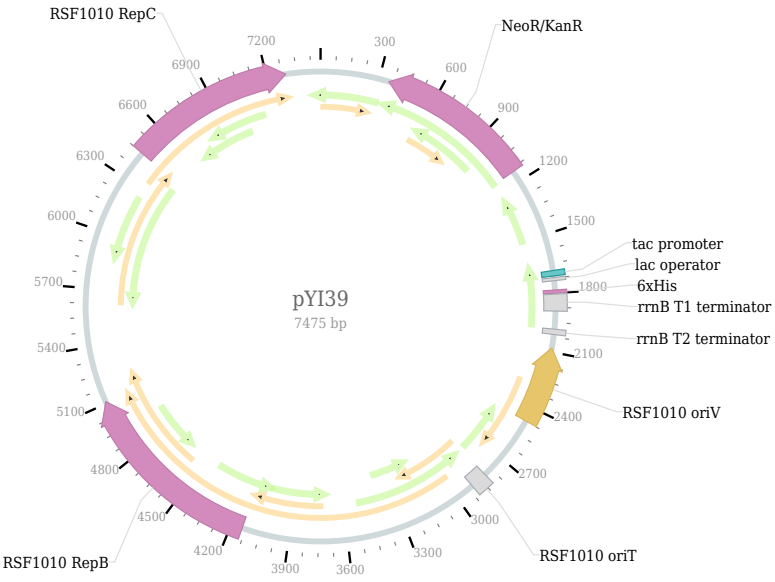
pYI39

Vector ID	V016476
Antibiotic Resistance	Kanamycin
Length	7475 bp
Vector Type	Cloning vector

Product Information

Replication Origin	RSF1010 oriV
Source/Author	Inaba Y, West AC, Banta S.
Promoter	tac
Growth Strain(s)	DH10B
Comment	pYI39 (7.5 kb) is a broad-host-range expression vector for Gram-negative bacteria. It features the tac promoter with lac operator for IPTG-inducible expression of N-terminal 6xHis-tagged proteins, followed by rrnB T1/T2 terminators. The vector carries the complete RSF1010 replicon (repA, repB, repC, oriV, oriT) for replication and conjugative transfer in diverse hosts. Selection is provided by NeoR/KanR (neomycin/kanamycin resistance).

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 ℃.