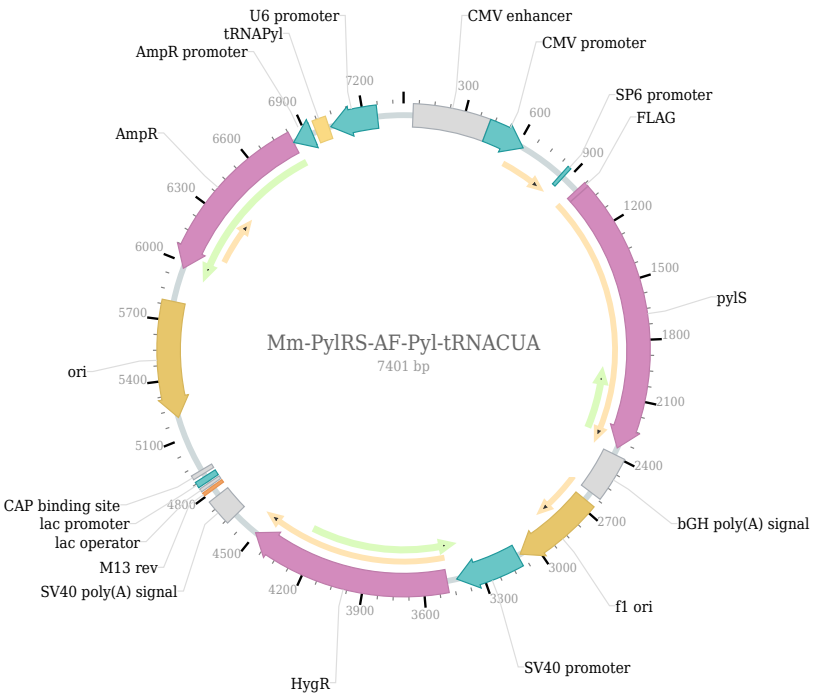
Mm-PylRS-AF-Pyl-tRNACUA

Vector ID	V016759
Antibiotic Resistance	Ampicillin
Length	7401 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	U6
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	Mm-PylRS-AF is the Pyrrolysine--tRNA ligase bearing the Y306A and Y384F mutations from Methanosarcina mazei. Mm-PylRS-AF enables the encoding of various bulky non-natural lysine derivatives by UAG. This allows for the incorporation of a wider range of amino acids into proteins than what is naturally possible, thus expanding the genetic code and the potential for creating proteins with novel properties and functions. Mm-PylRS-AF ligase catalyzes the attachment of bulky non-natural lysine derivatives to tRNACUA.

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 ℃.