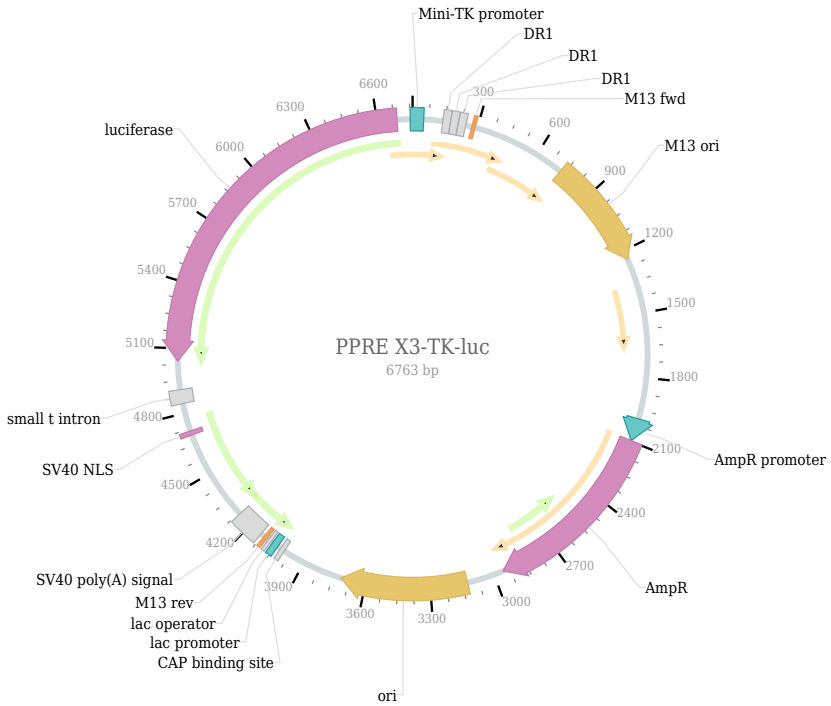
PPRE X3-TK-luc

Vector ID	V012167
Antibiotic Resistance	Ampicillin
Length	6763 bp
Vector Type	Mammalian Expression, Luciferase

Product Information

Replication Origin	ori
Copy Number	High Copy
Cloning Method	Restriction Enzyme
5' Primer	M13pUC-fwd
3' Primer	LucNrev
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	PPRE X3-TK-luc is a firefly luciferase reporter plasmid for measuring PPAR transcriptional activity. It contains three tandem PPAR response elements (PPREs, DR1) upstream of a weak minimal TK promoter. Upon ligand stimulation, PPAR-RXR heterodimers bind PPREs and trigger luciferase expression. Luminescence signals reflect the activation level of PPAR, especially PPARγ. This vector was used in the study to verify ADD1/SREBP1-induced PPARγ transactivation.

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 ℃.