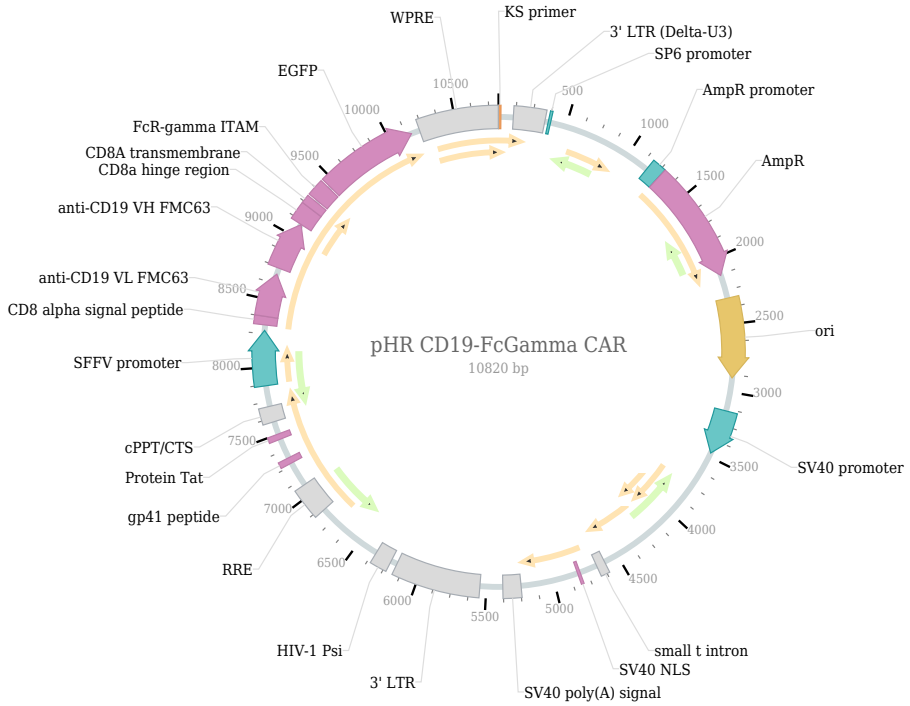
pHR CD19-FcGamma CAR

Vector ID	V016690
Antibiotic Resistance	Ampicillin
Length	10820 bp
Vector Type	Protein expression, Antibody expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Promoter	SFFV
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pHR CD19-FcGamma CAR is a lentiviral CAR-P plasmid built on pHRSIN backbone for macrophage engineering. It carries anti-CD19 scFv, CD8 transmembrane segment and intracellular FcRγ ITAM signaling domain fused with GFP reporter. Once delivered into macrophages via lentivirus, this receptor triggers antigen-specific trogocytosis and full engulfment of CD19-positive Raji lymphoma cells. In co-culture, CAR-P-expressing macrophages markedly reduce viable CD19+ cancer cell counts through targeted phagocytic clearance.

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 ℃.