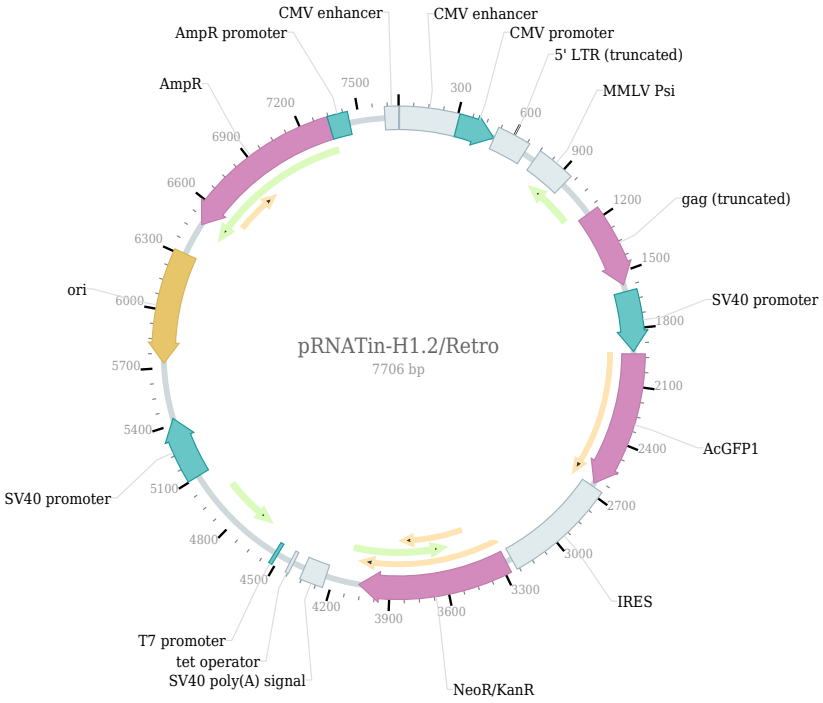
pRNATin-H1.2/Retro

Vector ID	V006548
Antibiotic Resistance	Ampicillin
Length	7706 bp
Vector Type	RNAi vectors

Product Information

Replication Origin	ori
Selection Marker	Neomycin
Promoter	H1.2
Cloning Method	Enzyme digestion and ligation
5' Primer	CCAACTTGTTTATTGCAGCT
3' Primer	TAATACGACTCACTATAGGG
Fusion Tag	cGFP
Comment	pRNATin-H1.2/Retro siRNA expression vector is compatible with Clontech Retro-X Expression System. It uses an inducible H1 promoter for siRNA expression. The promoter contains the tetracycline operator (TetO1). As a competitor, tetracycline or doxycycline can bind this operator to remove the blockade of tetracycline repressor (TetR) from H1 promoter and induce the transcription of siRNA.The vector also carries a neomycin resistance gene for establishing stable transfection cell line and a cGFP marker for tracking transfection efficiency, both genes are under the control of SV40 promoter. The vector uses CMV enhancer/promoter joined MSV 5'LTR (CMV/MSV 5'LTR) and MSV 3'LTR for viral transcription and packaging.

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 ℃.