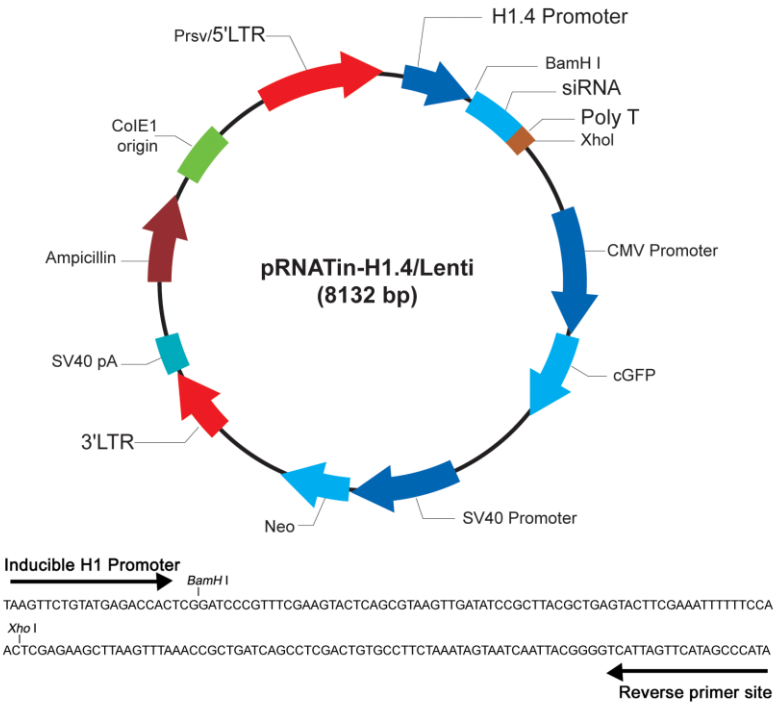
siRNA expression vector pRNATin-H1.4/Lenti (Catalogue No.: SD1260)

Description: pRNATin-H1.4/Lenti siRNA expression vector is compatible with Invitrogen ViraPower™ Lentiviral Expression System. An inH1.4 (the same as inH1.2) promoter is used to drive the siRNA cassette between BamH I and Xho I sites. inH1.4 promoter is an inducible promoter carrying a tetracycline operator (TetO1). As a competitor, tetracycline or doxcycline can bind this operator to derepress the blockade of tetracycline repressor (TetR) from H1 promoter and induce the transcription of siRNA. The vector also carrys cFP marker for tracking transfection efficiency and a neomycin resistance gene for establishing stable transfection cell line, which are driven by CMV promoter and SV40 promoter, respectively. The vector uses Rous sarcoma virus (RSV) enhancer/promoter joined HIV 5'LTR (P_{RSV}/5'LTR) and HIV 3'LTR for viral transcription and packaging.



Polylinker: 1947-2022
RSV/5'LTR: 1-410
inducible H1 Promoter: 1847-1946
CMV promoter: 2067-2654
cGFP: 2671-3390
SV40 promoter: 3398-3743
Neomycin: 3784-4578
3'LTR: 4653-4887
Ampicillin: 6047-6907
ColE1 origin: 6967-7853

Forward Sequencing Primer:
DA0027 SD1258 Forward
(GGGAAATCACCATAAACGTG)
Reverse Sequencing Primer:
DA0028: SD1258 Reverse
(TGGGCTATGAACTAATGACCC)