



Description:

pEGFP-sgRNA 2 is a control sgRNA-expressing lentivector:

1. The expression of EGFP sgRNA 2 is controlled by human U6 promoter;
2. The sequence of EGFP sgRNA 2 is 5'- GATGGCCGACAAGCAGAAGAA -3';
3. This sgRNA-expressing lentivector can be used as a negative control for CRISPR interference (CRISPRi) or CRISPR activation (CRISPRa).

Location of Features:

• U6 promoter	: nt 96-344	• HIV 3'LTR	: nt 2488-2723
• EGFP sgRNA2	: nt 345-365	• SV40 polyA	: nt 2800-2930
• sgRNA scaffold	: nt 366-451	• bla promoter	: nt 3790-3888
• U6 terminator	: nt 452-457	• Amp	: nt 3889-4746
• cPPT	: nt 523-640	• Ori	: nt 4950-5490
• hPGK promoter	: nt 693-1199	• RSV promoter	: nt 5975-6203
• Puromycin (PAC)	: nt 1211-1813	• HIV 5'LTR	: nt 6204-6384
• WPRE	: nt 1829-2417	• Psi sequence	: nt 6495-6539
		• RRE	: nt 7050-7291

Note:

U6 promoter sequencing primer (forward): 5'- TACAAAATACGTGACGTAG-3'.