



Description:

pAS1w-8xTetO is tetracycline-inducible shRNA expression system (TRE-Tight version that contains 8 copies of modified TetO sequence, a tetracycline repressor binding sequence). Puromycin (PAC) resistant gene is driven by human PGK promoter (hPGK) for the selection of virally transduced cells.

Location of Features:

- Tet-inducible U6 promoter: nt 9933-10197
- DSE : nt 9933-9960
- PSE : nt 10134-10152
- cPPT : nt 1917-2034
- hPGK promoter : nt 2090-2594
- Puromycin gene (PAC) : nt 2605-3201
- TetR : nt 3313-3936
- WPRE : nt 3952-4540
- HIV 3'LTR : nt 4611-4861
- F1 Ori : nt 5400-5830
- Amp R: nt 6201-7007
- pUC Ori : nt 7748-7133
- RSV promoter : nt 8098-8326
- HIV 5'LTR : nt 8327-8507
- Psi sequence : nt 8559-8696
- RRE : nt 9183-9387

Note:

- 1.Tet operator (TetO) repeat sequence: 5'- TCCCTATCAGTGATAGAGA -3'.
- 2.Stbl3 competent cell is recommended to be used for transformation.
- 3.AgeI and EcoRI restriction enzyme sites are cloning sites for shRNA.