



Description:

The pAS4.3w.Ppuro-aOff is a doxycycline/tetracycline all-in-one inducible plasmid, which was derived from pAS4.1w.Ppuro by replacing PAC gene with an ORF coding for PAC-P2A-aOff. This results in the expression of PAC and aOff simultaneously. P2A is a 2A sequences derived from porcine teschovirus-1 (picornavirus).

Location of Features:

- Tet-inducible promoter (TRE-Tight): nt14-440.
- Multiple cloning sites: nt495-574.
- PGKp-PAC-P2A-aOff expression cassette: nt798-2744.
- WPRE: nt2754-3342.

Note:

1. Since lentiviral transfer vector may undergo sequence re-arrangement and/or deletion when its ligated products were transformed into DH5 α competent cells; to avoid that, Stbl3 (Invitrogen) is recommended for transformation.
2. If plasmid-transformed Stbl3 cells grow slowly, try to transform it into HB101 or GM2163 *E. coli* strain for large-prep.