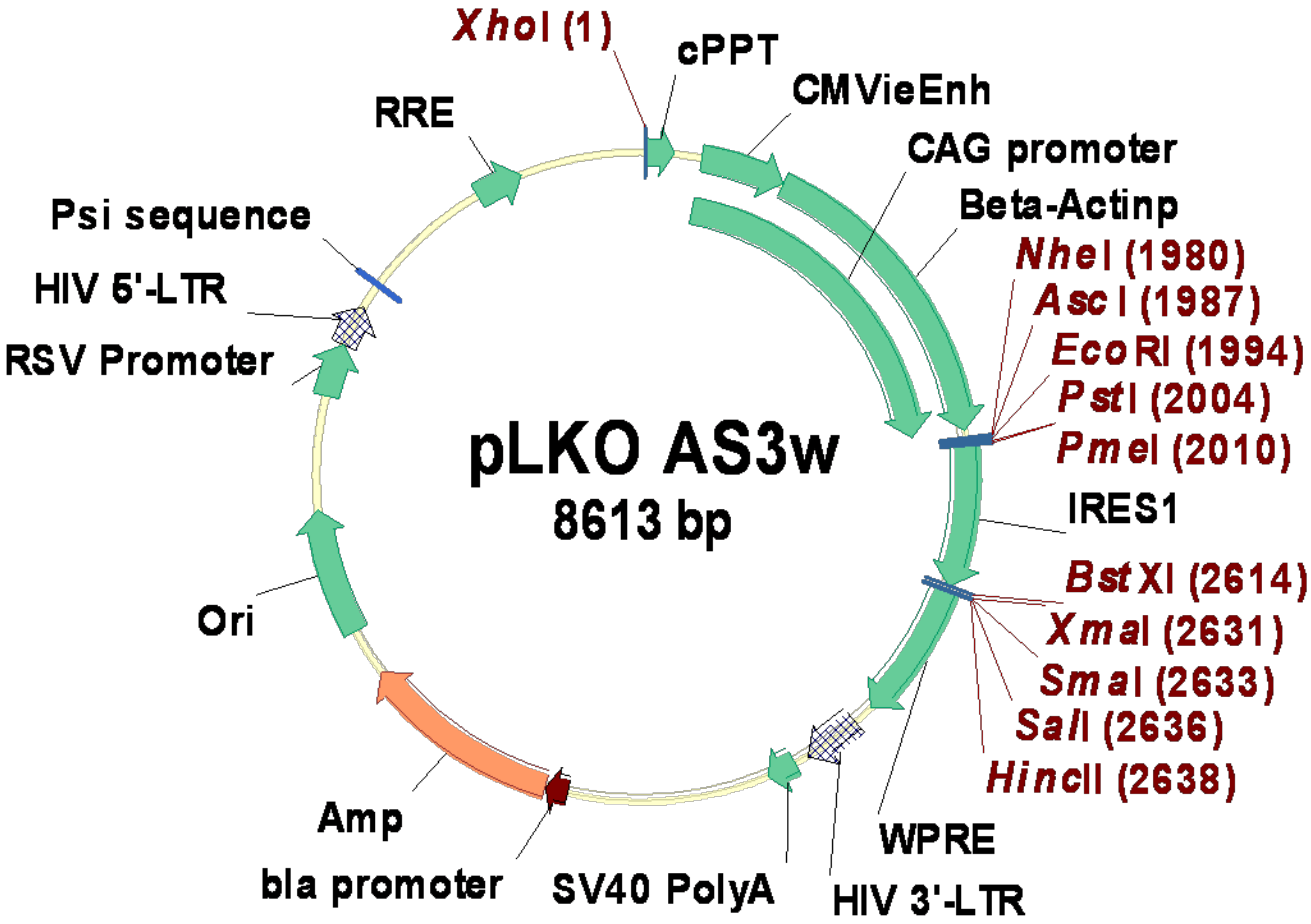

Description:

pLKO_AS3w is a bi-cistronic lentivirus-expression-vector driven by CAG promoter (composed of CMV enhancer [CMVieEnh] and beta-actin promoter); and translation of the 2nd coding sequence (CDS) is directed by the IRES of EMCV.

Location of Features (for other features, please refer to pLKO.1-puro):

- CAG promoter : nt240-1946
- Multiple cloning sites:
  CAGp: *Nhe*I(nt1980), *Asc*I(nt1987), *Eco*RI(nt1994), *Pst*I(nt2004), *Pme*I(nt2010)
  IRES: *Bst*XI(nt2614), *Xma*I/*Sma*I(nt2631), *Sal*I(2633), *Hinc*II(nt2638)
- IRES of EMCV (EMCVI): nt2014-2616
- WPRE (woodchuck hepatitis B virus post-transcription regulatory element): nt2641-3229

Note:

1. Second CDS (gene) has to be inserted into *Bst*XI site (by taking advantage of ATG of *Bst*XI site as translation initiation codon).
2. **Stbl3 (Invitrogen) bacteria is suggested to be used for transformation.**
3. **Please clone your gene of interest into *Nhe*I site where it provides AGC (followed by ATG coden of your gene) as a Kozak sequence for efficient translation.**