



Description:

pLX301 was developed by TRC. Key features of this vector include:

- (i) CMV promoters for robust and consistent ORF expression;
- (ii) High viral titers with inclusion of cPPT and WPRE elements;
- (iii) Selectable marker expression (*PAC* that confer Puromycin resistance).

Additionally, this vector contains a Gateway cassette encoding the Chloramphenicol resistance gene and the *ccdB* topoisomerase poison, and the pLKO vector backbone encoding Amp/Carb resistance. The *ccdB* gene product is toxic to DH5alpha bacteria. As a result, DH5alpha cannot be used to amplify this destination vector in preparation of the starting materials for LR reactions. Whereas in selecting for the intended recombination products in LR reactions, one needs to use DH5alpha, as unrecombined destination vector cannot propagate in DH5alpha.

Note: One Shot® *ccdB* Survival™ 2 T1R Competent Cells (Cat. No. A10460) are needed for amplifying *ccdB*-bearing pLX vectors.