

## LV-EF1A-OCT3/4 for both in vitro and in vivo

SKU: PLV-10012

## **General Information**

OCT3/4 (POU5F1) is a transcription factor that is expressed in stem cells and germ cells. Its expression is required to sustain cell self-renewal of undifferentiated stem cells. Oct-3/4 is the most recognized marker for totipotent ES cells. Ectopic expression of OCT3/4 has been used to produce iPS cells in culture.

Human elongation factor-1 alpha (EF-1 alpha) is a constitutive promoter of human origin that can be used to drive ectopic gene expression in various in vitro and in vivo contexts.

EF-1 alpha (or EF1a) is often useful in conditions where other promoters (such as CMV) have diminished activity or have been silenced (as in embryonic stem cells).

## Quick Facts:

Virus:	LV-EF1A-OCT3/4
Titer (approx):	1 x 10 <sup>8</sup> CFU/mL
Vector Information:	Vector includes both 5' and 3' lentiviral LTR and all necessary elements for effective transduction; woodchuck hepatitis virus posttranscriptional regulatory element (WPRE)
Promoter for Target	EF1A
Gene:	
Target Gene /	OCT3/4
Reporter(s):	
Selection Gene:	Puromycin
Biosafety Level:	BSL-2
Shipped:	Dry ice
Storage:	Store at -80C

Comments: N/A

References: N/A