

## Product datasheet for **PS100125**

### pCMV6-AC-GFP-rtTA Inducible Expression Vector

#### Product data:

Product Type: Inducible Expression Vectors

C-Tag: tGFP

E. coli Selection: Ampicillin (100 ug/mL)

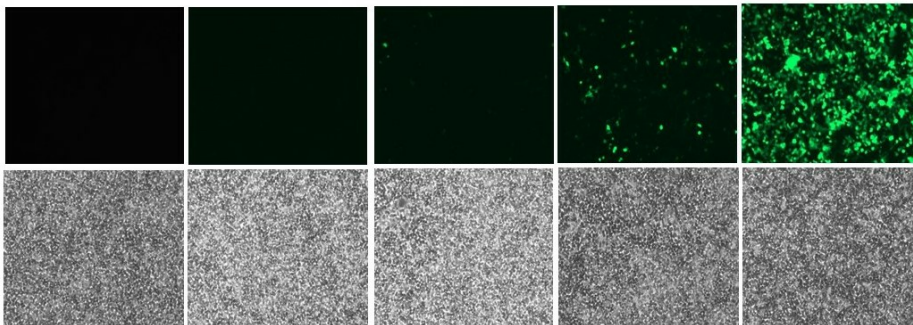
Mammalian Cell Selection: Neomycin

Features: This vector is a tetracycline-inducible mammalian expression vector. ORFs cloned in this vector will be expressed under tetracycline-inducible promoter as a fusion protein with the C-terminal tGFP tags.

- TRE\_F (GE100141) Primer can be used to sequence the target sequence after cloning.
- tGFP\_R (GE100142) Primer can be used to sequence the target sequence after cloning.

Schematic of the multiple cloning sites:

#### Product images:



Induced GFP expression in HEK293T cells transfected with PS100125 and treated with doxycycline (Dox) for 2 days.

+ 0 ng/mL Dox

+ 1 ng/mL Dox

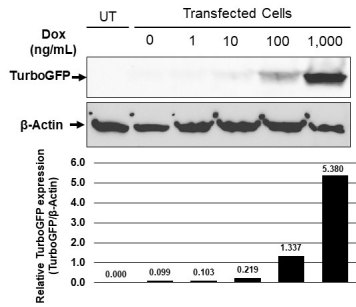
+ 10 ng/mL Dox

+ 100 ng/mL Dox

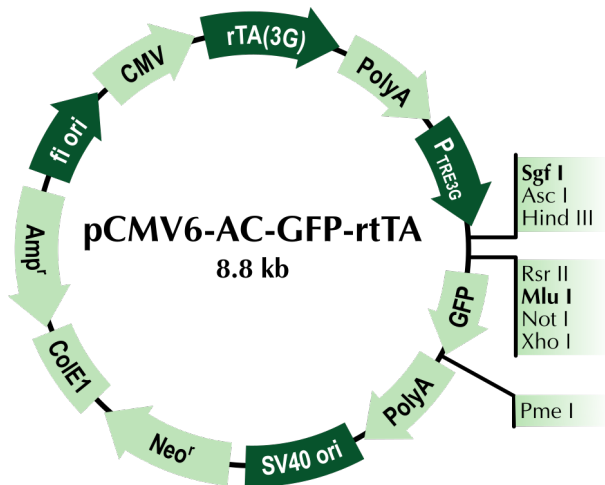
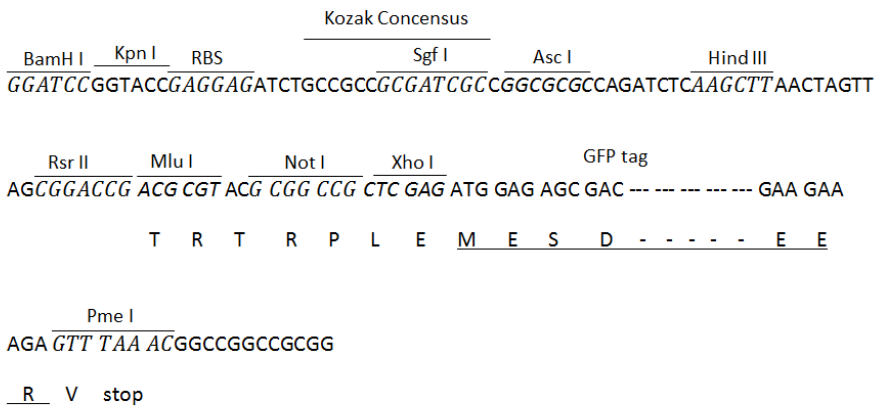
+ 1 µg/mL Dox



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Effects of doxycycline on expression of TurboGFP protein by Western blotting analysis. HEK293T cells were transfected PS100125 plasmid DNA (1 µg DNA/well of a 6-well plate) and treated with increasing doxycycline (Dox) concentrations (0, 1, 10, 100, and 1,000 ng/mL) for 72 hrs. Untransfected (UT) and transfected cells were lysed and analyzed using Western blot with TurboGFP-specific antibody (Cat# [TA150075]). Cell lysates (25µg) were loaded on each lane. Anti-β-Actin mAb (Cat# [TA811000]) was used as loading control for Western blot. Bar graph represents relative TurboGFP expression normalized with β-Actin.



Kozak Consensus

BamHI KpnI RBS SgfI AscI HindIII  
*GGATCCGGTACCGAGGAGATCTGCCGCCGGATCGCCGGCGCGCCAGATCTCAAGCTT*AACTAGTT

RsrII MluI NotI XhoI GFP tag  
*AGCGGACCG ACG CGT ACG CCG CCG CTC GAG ATG GAG AGC GAC* --- --- --- --- GAA GAA  
 T R T R P L E M E S D - - - - E E

PmeI  
*AGA GTT TAA ACGGCCGGCCGCGG*

R V stop