

Tet-On® 3G Inducible Expression System (EF1alpha, mCherry)

Catalog No. 631347 **Amount** Each

Description

The Tet-On 3G Inducible Expression System (EF1alpha, mCherry) is a powerful, tightly regulated, tetracycline-inducible mammalian expression system that is controlled by the addition of doxycycline to the culture medium. This system allows the simultaneous expression of a gene of interest and a red fluorescent protein (mCherry) marker under the control of a Tet-responsive promoter that binds the Tet-On 3G transactivator protein in the presence of doxycycline. It includes the pTRE3G-mCherry Vector Set, consisting of an IRES-based vector into which the gene of interest can be cloned and simultaneously expressed with the mCherry marker, a control vector that inducibly expresses luciferase, and two linear selection markers for hygromycin and puromycin resistance—and the pEF1a-Tet3G Vector, which constitutively expresses the Tet-On 3G transactivator protein from a human elongation factor 1 alpha (EF1 α) promoter, allowing expression of the protein in a variety of mammalian cells (such as hematopoietic or stem cells) without the transgene silencing associated with CMV promoters. This system also includes our highly efficient Xfect™ Transfection Reagent and Tet System Approved FBS.

Package Contents

- pTRE3G-mCherry Vector Set (Cat. No. 631175; Not sold separately) >> [View Components](#)
- pEF1a-Tet3G Vector (Cat. No. 631336; Not sold separately) >> [View Components](#)
- Xfect Transfection Reagent (Cat. No. 631317) >> [View Components](#)
- Tet System Approved FBS, US-Sourced (Cat. No. 631105) >> [Search Lot # on our website to download](#)

Product User Manuals

User manuals for Clontech products are available for download at www.clontech.com/manuals.

The following user manuals apply to this product:

- Tet-On 3G Inducible Expression Systems User Manual (PT5148-1)
- Xfect Protocol-at-a-Glance (PT5003-2)

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