

TetR-controlled recombination-based in vivo expression technology (TRIVET) vector

Catalogue number: 160861

Sub-type: Reporter

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: TetR-controlled recombination-based in vivo expression technology (TRIVET) vector

Alternate name: TRIVET

Class:

Conjugate:

Description: This system is based upon recombination-based in vivo expression technology (RIVET) and allows the detection of transient gene silencing events even in a subset of a complex, heterogenous bacterial population. It requires all three components; the tpc reporter cassette, pTRIVET and pTRIVET1. It can be used as a random approach to identify repressed genes during intestinal colonization and as a specific approach to study conditional transcriptional silencing of a gene of interest. The protocol for which can be found at PMID: 33659431.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers: PhoA activity

Additional notes: Vibrio cholerae gene expression

Target details

Target: Cholera

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: This system is based upon recombination-based in vivo expression technology (RIVET) and allows the detection of transient gene silencing events even in a subset of a complex, heterogenous bacterial population. It requires all three components; the tpc reporter cassette, pTRIVET and pTRIVET1. It can be used as a random approach to identify "in vivo" repressed genes during intestinal colonization and as a specific approach to study conditional transcriptional silencing of a gene of interest. The protocol for which can be found at PMID: 33659431.

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions:

Related tools

Related tools:

References

References: Opelt et al. 2016. J Biol Chem. 291(46):24076-24084. PMID: 27679490. ; Lang et al. 2012. J Biol Chem. 287(45):38124-34. PMID: 22988236.

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