

pCMV(MinDis).iGluSnFR vector

Catalogue number: 154045

Sub-type: pCMV(MinDis)

Images:

Contributor

Inventor:

Institute: Howard Hughes Medical Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: pCMV(MinDis).iGluSnFR vector

Alternate name:

Class:

Conjugate:

Description: This plasmid has an intensity-based glutamate-sensing fluorescent reporter (iGluSnFR) to be used to visualize the fluorescence change during glutamate release by neurons and astrocytes during *in vivo* imaging. This glutamate sensor is constructed from E. coli Glutamate dehydrogenase (GluT) and cpGFP.

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: Neomycin

Additional notes: This plasmid has an intensity-based glutamate-sensing fluorescent reporter (â€œiGluSnFRâ€?) to be used to visualize the fluorescence change during glutamate release by neurons and astrocytes duringÂ in vivoÂ imaging. This glutamate sensor is constructed from E. coli GltI and cpGFP.

Target details

Target: GltI based Glutamate Biosensor

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions:

Related tools

Related tools:

References

References: Improved methods for marking active neuron populations. ; Moeyaert et al. 2018. Nat Commun. 9(1):4440. PMID: 30361563.

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