

pCMV-GCaMP5G vector

Catalogue number: 154051

Sub-type: pEGFP-N1

Images:

Contributor

Inventor:

Institute: Howard Hughes Medical Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: pCMV-GCaMP5G vector

Alternate name:

Class:

Conjugate:

Description: The single-wavelength genetically encoded calcium indicators (GECI), GCaMP3, was genetically engineered to have an increase dynamic range to detect action potentials several fold greater than the original. The improved GCaMP5 sensors have effectively been studied in neurons and astrocytes in multiple model organisms including mouse, *Caenorhabditis*, *Drosophila* and zebrafish.

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: The single-wavelength genetically encoded calcium indicators (GECI), GCaMP3, was genetically engineered to have an increase dynamic range to detect action potentials several fold greater than the original. The improved GCaMP5 sensors have effectively been studied in neurons and astrocytes in multiple model organisms including mouse, Caenorhabditis, Drosophila and zebrafish.

Target details

Target: GCaMP5G

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: Viswanathan et al. 2015. Nat Methods. 12(6):568-76. PMID: 25915120. ; High-performance probes for light and electron microscopy.

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