

CaMPARI 2.0 plasmids

Catalogue number: 154044

Sub-type:

Images:

Contributor

Inventor:

Institute: Howard Hughes Medical Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: CaMPARI 2.0 plasmids

Alternate name:

Class:

Conjugate:

Description: CaMPARI (Calcium Modulated Photoactivatable Ratiometric Integrator) is a photoconvertible protein construct that allows imaging of the integrated calcium activity of populations of cells over time. CaMPARI 2.0 is the second generation of CaMPARI molecules with improved green brightness by 50% and red brightness by 250%. Additionally, CaMPARI 2.0 has faster kinetics, and a lower photoconversion rate in low calcium conditions resulting in a net 100-fold difference in green-to-red switching in low- vs. high-calcium conditions. Lastly, these different CaMPARI proteins display a range of sensitivity in their calcium binding (K_d 's ranging from 100 nM to 1 μ M of free calcium).

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:

Additional notes: CaMPARI (Calcium Modulated Photoactivatable Ratiometric Integrator) is a photoconvertible protein construct that allows imaging of the integrated calcium activity of populations of cells over time. CaMPARI 2.0 is the second generation of CaMPARI molecules with improved green brightness by 50% and red brightness by 250%. Additionally, CaMPARI 2.0 has faster kinetics, and a lower photoconversion rate in low calcium conditions resulting in a net 100-fold difference in green-to-red switching in low- vs. high-calcium conditions. Lastly, these different CaMPARI proteins display a range of sensitivity in their calcium binding (K_d 's ranging from 100 nM to 1 μ M of free calcium).

Target details

Target:

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: Moeyaert et al. 2018. Nat Commun. 9(1):4440. PMID: 30361563.

CancerTools.org