

# pAAV.Syn.GCaMP6f.WPRE.SV40 vector

**Catalogue number:** 154057

**Sub-type:** pAAV

**Images:**

## Contributor

**Inventor:**

**Institute:** Howard Hughes Medical Institute

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** pAAV.Syn.GCaMP6f.WPRE.SV40 vector

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** Ultrasensitive protein calcium sensors (GCaMP6) that detects action potentials in cultured neurons and in zebrafish, flies and mice. There are three ultrasensitive GCaMP6 sensors GCaMP6s, 6m, 6f; for slow, medium and fast kinetics, respectively. With the more sensitive sensors having slower kinetics. This GCaMP6f is expressed from the Synapsin promoter with fast kinetics.

**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:** Ultrasensitive proteinâ calciumâ sensors (GCaMP6) that detects action potentials in cultured neurons and in zebrafish, flies and mice. There are three ultrasensitive GCaMP6 sensors GCaMP6s, 6m, 6f; for slow, medium and fast kinetics, respectively. With the more sensitive sensors having slower kinetics.â This GCaMP6f is expressed from the Synapsin promoter with fast kinetics.

## Target details

**Target:** GCaMP6f

**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:** Chen et al. 2013. Nature. 499(7458):295-300. PMID: 23868258. ; Ultrasensitive fluorescent proteins for imaging neuronal activity.

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