Resource Summary Report

Generated by RRID on Aug 17, 2026

pFRET-HSP33 cys

RRID:Addgene_16076
Type: Plasmid

Proper Citation

RRID:Addgene_16076

Plasmid Information

URL: http://www.addgene.org/16076

Proper Citation: RRID:Addgene_16076

Insert Name: HSP33 cys

Organism: E. coli

Bacterial Resistance: Kanamycin

Defining Citation: PMID:16054089

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:5190; Vector Backbone:pECFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: The HSP-FRET probe was generated by inserting YFP into the pECFP-N1 plasmid between the NheI and BglII sites and then ligating the redox-sensitive regulatory domain from the Escherichia coli HSP-33 between YFP and CFP via the EcoRI and BamHI sites. HSP-33: 210 amino acids; BA000007 region 4241962-4242826. Made in Hammerling lab; used in Waypa et al., Increases in mitochondrial reactive oxygen species trigger hypoxia-induced calcium responses in pulmonary artery smooth muscle cells, Circ Res. 2006 Oct 27; 99(9):970-8 PMID: 17008601.

Plasmid Name: pFRET-HSP33 cys

Record Creation Time: 20220422T221909+0000

Record Last Update: 20260815T080843+0000

Ratings and Alerts

No rating or validation information has been found for pFRET-HSP33 cys.

No alerts have been found for pFRET-HSP33 cys.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Salsinha AS, et al. (2023) Potential of omega-3 and conjugated fatty acids to control microglia inflammatory imbalance elicited by obesogenic nutrients. Biochimica et biophysica acta. Molecular and cell biology of lipids, 1868(7), 159331.

Socodato R, et al. (2023) RhoA balances microglial reactivity and survival during neuroinflammation. Cell death & disease, 14(10), 690.

Canedo T, et al. (2021) Astrocyte-derived TNF and glutamate critically modulate microglia activation by methamphetamine. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 46(13), 2358.

Coloma-Rivero RF, et al. (2020) The Role of the Flagellar Protein FlgJ in the Virulence of Brucella abortus. Frontiers in cellular and infection microbiology, 10, 178.

Socodato R, et al. (2020) Microglia Dysfunction Caused by the Loss of Rhoa Disrupts Neuronal Physiology and Leads to Neurodegeneration. Cell reports, 31(12), 107796.

Socodato R, et al. (2015) c-Src deactivation by the polyphenol 3-O-caffeoylquinic acid abrogates reactive oxygen species-mediated glutamate release from microglia and neuronal excitotoxicity. Free radical biology & medicine, 79, 45.