Resource Summary Report

Generated by RRID on Aug 22, 2026

pRSETA-PAGFP

RRID:Addgene_11911
Type: Plasmid

Proper Citation

RRID:Addgene_11911

Plasmid Information

URL: http://www.addgene.org/11911

Proper Citation: RRID:Addgene_11911

Insert Name: pRSETA-PAGFP

Organism: Aequorea victoria

Bacterial Resistance: Ampicillin

Defining Citation: PMID:12228718

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:2827; Vector Backbone:pRSETA; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: The fluorescent protein encoding region contains one of the three substitutions (A206K) suggested by Dr. Roger Tsien. This mutation disrupts fluorescent protein dimerization even at high concentrations. The mutation does not seem to have much effect on the fluorescent properties of the CFP, GFP and YFP versions, so hopefully it will not affect PAGFP too much. The PAGFP A206K mutant does not display obvious fluorescent differences compared with the original, but please bear in mind that I haven't characterized it to the same extent. The citation for the A206K mutation in fluorescent proteins is Science 2002 296:913.

Plasmid Name: pRSETA-PAGFP

Relevant Mutation: The PAGFP has four mutations (L64F/T65S/V163A/T203H) compared with the Clontech EGFP. The PAGFP also contains an A206K mutation to disrupt dimerization

Record Creation Time: 20220422T221623+0000

Record Last Update: 20260815T080310+0000

Ratings and Alerts

No rating or validation information has been found for pRSETA-PAGFP.

No alerts have been found for pRSETA-PAGFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Carrell SN, et al. (2017) A facilitated diffusion mechanism establishes the Drosophila Dorsal gradient. Development (Cambridge, England), 144(23), 4450.

Nahmani M, et al. (2017) High-numerical-aperture cryogenic light microscopy for increased precision of superresolution reconstructions. Proceedings of the National Academy of Sciences of the United States of America, 114(15), 3832.

Chang YW, et al. (2014) Correlated cryogenic photoactivated localization microscopy and cryo-electron tomography. Nature methods, 11(7), 737.

Chen Z, et al. (2012) Extending the fundamental imaging-depth limit of multi-photon microscopy by imaging with photo-activatable fluorophores. Optics express, 20(17), 18525.