

Resource Summary Report

Generated by [NIF](#) on Sep 20, 2026

pCAG:myr-Venus

RRID:Addgene_32602

Type: Plasmid

Proper Citation

RRID:Addgene_32602

Plasmid Information

URL: <http://www.addgene.org/32602>

Proper Citation: RRID:Addgene_32602

Insert Name: myr-Venus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16604528](#)

Vector Backbone Description: Backbone Size:4700; Vector Backbone:pCAGGS; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: To generate myristoylated fluorescent fusion proteins, an N-terminal myristoylation tag derived from Src was generated by adding the sequences MGSSKSKPK to the N-terminus of any given fluorescent protein. This was achieved by using the following oligonucleotide: 5' GFP-MYR-Eco (5'-CTT GAA TTC GCC ACC ATG GGA AGC AGC AAG AGC AAG CCA AAG GTG AGC AAG GGC GAG GAG CTG). The GFP and Venus coding sequences were amplified from pEGFP-N1 (BD Biosciences, San Jose, CA) and pCS2-Venus (Nagai et al., 2002) to generate myr-GFP and myr-Venus, respectively, by high-fidelity polymerase chain reaction (PCR) using Pfx Polymerase (Invitrogen, La Jolla, CA) with the 5' myristoylation primer combined with a 3'-GFP primer (5'-GTC ATG AAT TCT TAC TTG TAC AGC TCG TCC) primer, respectively. The resulting product was cloned into the EcoRI site of pCAGGS to generate pCX::myr-EGFP and pCX::myr-Venus

Plasmid Name: pCAG:myr-Venus

Record Creation Time: 20220422T222141+0000

Record Last Update: 20260919T091709+0000

Ratings and Alerts

No rating or validation information has been found for pCAG:myr-Venus.

No alerts have been found for pCAG:myr-Venus.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Campaña MB, et al. (2025) PDGFR α / β heterodimer activation negatively affects downstream ERK1/2 signaling and cellular proliferation. Nature communications, 16(1), 4754.

Fuhr D, et al. (2025) Additive effects on craniofacial development upon conditional ablation of PDGFR α and SHP2 in the mouse neural crest lineage. bioRxiv : the preprint server for biology.

Donlin-Asp PG, et al. (2021) Differential regulation of local mRNA dynamics and translation following long-term potentiation and depression. Proceedings of the National Academy of Sciences of the United States of America, 118(13).

Kuo T, et al. (2019) Identification of C2CD4A as a human diabetes susceptibility gene with a role in β cell insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 116(40), 20033.

Hsia HE, et al. (2014) Ubiquitin E3 ligase Nedd4-1 acts as a downstream target of PI3K/PTEN-mTORC1 signaling to promote neurite growth. Proceedings of the National Academy of Sciences of the United States of America, 111(36), 13205.