

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

pCAGGS-hPhyBY276H-mCherry-HRasCT

RRID:Addgene_100540

Type: Plasmid

Proper Citation

RRID:Addgene_100540

Plasmid Information

URL: <http://www.addgene.org/100540>

Proper Citation: RRID:Addgene_100540

Insert Name: Phytochrome B (1-908 aa, Y276H mutation)

Organism: Arabidopsis thaliana

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29078307](#)

Vector Backbone Description: Backbone Marker:Junichi Miyazaki (Osaka University, Japan); Backbone Size:4870; Vector Backbone:pCAGGS; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Expression vector of PhyB-Y276H-mCherry-HRasCT in mammalian cells. PhyB-Y276H has two additional missense mutations (P840S, P884L); the construct will function as described in the publication. mCherry has a G229L mutation that does not affect function.

Plasmid Name: pCAGGS-hPhyBY276H-mCherry-HRasCT

Relevant Mutation: Human codon optimized PhyB (1-908 aa), Y276H mutation

Record Creation Time: 20220422T221448+0000

Record Last Update: 20260815T080012+0000

Ratings and Alerts

No rating or validation information has been found for pCAGGS-hPhyBY276H-mCherry-HRasCT.

No alerts have been found for pCAGGS-hPhyBY276H-mCherry-HRasCT.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.