

Resource Summary Report

Generated by [dkNET](#) on Sep 5, 2026

pCAGGS-PHFF-sh-hBVRA

RRID:Addgene_100285

Type: Plasmid

Proper Citation

RRID:Addgene_100285

Plasmid Information

URL: <http://www.addgene.org/100285>

Proper Citation: RRID:Addgene_100285

Insert Name: MTS-PcyA-FLAG-P2A-MTS-HA-HO1-P2A-MTS-Myc-Fd-P2A-MTS-Fnr-T7 (synthetic genes)

Organism: Thermosynechococcus elongatus bp-1 for PcyA and HO1, and Synechocystis sp. PCC 6803 for Fd and Fnr.

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 for Phycocyanobilin (PCB) synthesis in mammalian cells. In addition, shRNA targeting to human BVRA is expressed so that PCB is further accumulated.

Plasmid Name: pCAGGS-PHFF-sh-hBVRA

Relevant Mutation: All genes are codon-optimized for expression in human cells.

Record Creation Time: 20220422T221447+0000

Record Last Update: 20260905T074246+0000

Ratings and Alerts

No rating or validation information has been found for pCAGGS-PHFF-sh-hBVRA.

No alerts have been found for pCAGGS-PHFF-sh-hBVRA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Remeeva AA, et al. (2025) Structure and effective brightness of near-infrared fluorescent protein iRFP713/C15S/V254C complexed with phycocyanobilin. The FEBS journal.