

Resource Summary Report

Generated by [dkNET](#) on Sep 3, 2026

EcMBP165-cpGFP.PPYF.pRSET

RRID:Addgene_33372

Type: Plasmid

Proper Citation

RRID:Addgene_33372

Plasmid Information

URL: <http://www.addgene.org/33372>

Proper Citation: RRID:Addgene_33372

Insert Name: MBP based Maltose Biosensor

Organism: E. coli

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21989929](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:2900; Vector Backbone:pRSET-A; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: The MBP-cpGFP insertion variant was constructed by overlap PCR using the wild-type MBP sequence from the pMalE-p4E vector (New England Biolabs) and the cpGFP146 variant from GCaMP2 into pRSET-A between BamHI and EcoRI sites. The N-terminal periplasmic leader sequence of MBP was excluded, and a BamHI site (encoding Gly-Ser) was included at the 5'-end. At the C-terminus, an additional His6Gly tag was included after the terminus of MBP (a cloning oversight). An EcoRI site was included after the stop codon.

Plasmid Name: EcMBP165-cpGFP.PPYF.pRSET

Relevant Mutation: cpGFP146 variant from GCaMP2 inserted between AA165-166 of MBP

Record Creation Time: 20220422T222145+0000

Record Last Update: 20260902T045303+0000

Ratings and Alerts

No rating or validation information has been found for EcMBP165-cpGFP.PPYF.pRSET.

No alerts have been found for EcMBP165-cpGFP.PPYF.pRSET.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.