

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

pBAD-D2

RRID:Addgene_37470

Type: Plasmid

Proper Citation

RRID:Addgene_37470

Plasmid Information

URL: <http://www.addgene.org/37470>

Proper Citation: RRID:Addgene_37470

Insert Name: D2 second generation cameleon (calcium sensor)

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16720273](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:4000; Vector Backbone:pBAD; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Genetically encoded, ratiometric, calcium biosensor that contains enhanced CFP and citrine. D2 does not bind wild-type calmodulin. It has a K_{d1} and K_{d2} of 0.8 microM and 28 microM. See also Palmer & Tsien (2006) Nature Protocols.

Plasmid Name: pBAD-D2

Record Creation Time: 20220422T222158+0000

Record Last Update: 20260815T081415+0000

Ratings and Alerts

No rating or validation information has been found for pBAD-D2.

No alerts have been found for pBAD-D2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.