

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

rbcLS-pMAL-2px

RRID:Addgene_41621

Type: Plasmid

Proper Citation

RRID:Addgene_41621

Plasmid Information

URL: <http://www.addgene.org/41621>

Proper Citation: RRID:Addgene_41621

Insert Name: rbcL/rbcS

Organism: Synechococcus elongatus PCC 6301

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16423843](#)

Vector Backbone Description: Backbone Marker:NEB; Backbone Size:6721; Vector Backbone:pMAL-p2x; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: The rbcL/rbcS genes, which are adjacent in the Synechococcus PCC6301 chromosome, were PCR amplified together from whole cells using Vent polymerase and primers: 5'SrbcL (5'-GGGCCC[CATATG]CCCAAGACGCAATCTGCCGCAGG-3') and 3'SrbcS (5'-CCCGGG[GAGCTC]AGGCTTTAGTAGCGGCCGGGACG-3'). The rbcL/rbcS PCR product was cloned into pMAL-2px using restriction enzymes NdeI and SacI (bracketed), and sequenced to confirm its wild-type identity. Plasmid Features: Type Start End Name GENE 2 1420 rbcLS GENE 1511 1846 rbcS GENE 1862 2062 'malE-MCS-lacZa REGION 2047 2453 terminators GENE 2564 3424 ampR REGION 3466 3979 M13 ori REGION 4090 4678 pMB1 ori GENE 5108 5299 rop GENE 5807 6955 lacIQ REGION 7198 7225 Ptac

Plasmid Name: rbcLS-pMAL-2px

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260815T081447+0000

Ratings and Alerts

No rating or validation information has been found for rbcLS-pMAL-2px.

No alerts have been found for rbcLS-pMAL-2px.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.