

# Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

## pelB-MBP-BB0323-ss

RRID:Addgene\_137067

Type: Plasmid

### Proper Citation

RRID:Addgene\_137067

### Plasmid Information

**URL:** <http://www.addgene.org/137067>

**Proper Citation:** RRID:Addgene\_137067

**Insert Name:** AAC66700.1

**Organism:** *Borrelia burgdorferi* B31

**Bacterial Resistance:** Kanamycin

**Defining Citation:** [PMID:31772280](#)

**Vector Backbone Description:** Vector Backbone: pelB-MBP (DNASU access no. EvNO00813783); Vector Types: Bacterial Expression; Bacterial Resistance: Kanamycin

**Comments:** This plasmid uses the T7lac promoter to express in *E. coli* the mature (lacking the signal peptide), wild-type protein containing an N-terminal PelB signal peptide + His10 + mature maltose binding protein + TEV protease cleavage site. The gene encoding the protein does not have the same DNA sequence as *B. burgdorferi* because the gene has been optimized for expression in *E. coli*. BB0323 is a lipoprotein. BB0323 is not expected to be lipidated in this construct. After TEV cleavage, the target protein has an added A residue at the N-terminus of the mature protein.

**Plasmid Name:** pelB-MBP-BB0323-ss

**Relevant Mutation:** mature BB0323: lacks the BB0323 signal peptide

**Record Creation Time:** 20220422T221755+0000

**Record Last Update:** 20260725T073909+0000

### Ratings and Alerts

No rating or validation information has been found for pelB-MBP-BB0323-ss.

No alerts have been found for pelB-MBP-BB0323-ss.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.