

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 18, 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: 20260912T091921+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.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.