

Resource Summary Report

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

pMAL-c2x-MT2

RRID:Addgene_32102

Type: Plasmid

Proper Citation

RRID:Addgene_32102

Plasmid Information

URL: <http://www.addgene.org/32102>

Proper Citation: RRID:Addgene_32102

Insert Name: MT (2x)

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17692533](#)

Vector Backbone Description: Backbone Marker:New England Biolabs; Backbone Size:6700; Vector Backbone:pMAL-c2x; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: In this construct, a translational modification was made that changes an alanine to an aspartic acid at the junction between the two MT genes. The second copy of the MT gene was inserted into the pMAL-c2x-MT1 plasmid (Addgene plasmids 32101) before the existing MT copy. The inserted MT gene was amplified from pET-3d-MT using the forward primer (50-CTCGGGATCGAGGGAAGGATTTCAAGATATACCATGGACCCC-30), which codes for the MBP linker region containing an XmnI and NcoI site fused in frame to the MT gene, and the reverse primer (50-GTGACCACATGTACAGCACGTGCACTTGTCC-3 0), which contains an AflIII site at the MT–MT junction. The pMAL-c2x-MT plasmid was prepared by digesting with XmnI and NcoI, and the PCR product was constructed with XmnI and AflIII. Since NcoI and AflIII produced equivalent DNA ends, the second copy of MT was inserted with removal of both restriction sites at the ligation junction. This process can be reproduced iteratively to introduce as many copies of MT in frame into the construct as desired. In addition to this plasmid Addgene offers versions with 1 copy (32101), 3 copies (32115) and 4 copies (32100) of MT.

Plasmid Name: pMAL-c2x-MT2

Record Creation Time: 20220422T222139+0000

Record Last Update: 20260725T074548+0000

Ratings and Alerts

No rating or validation information has been found for pMAL-c2x-MT2.

No alerts have been found for pMAL-c2x-MT2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Bari NK, et al. (2018) Cellulose-metallothionein matrix for metal binding. Carbohydrate polymers, 192, 126.