

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

pET His6 MBP TEV LIC cloning vector (2M-T)

RRID:Addgene_29708

Type: Plasmid

Proper Citation

RRID:Addgene_29708

Plasmid Information

URL: <http://www.addgene.org/29708>

Proper Citation: RRID:Addgene_29708

Insert Name: None

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Size:5908; Vector Backbone:pET; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: This plasmid is an empty vector. Your gene can be inserted with a LIC cloning protocol. All 2-series vectors work as single-expression vectors, as well as transfer vectors for our polycistronic system. The LIC cloning site is flanked by 5 pairs of restriction sites, so that your gene can easily be subcloned into our polycistronic destination vectors (2D, 2E, or 2Z). 2M-T has a TEV-cleavable N-terminal His6-MBP fusion tag. MBP can improve the expression and solubility of your target protein. To clone into this vector, add LIC v1 tags to the 5' end of your PCR primers. Forward - 5'TACTTCCAATCCAATGCA3' Reverse - 5'TTATCCACTTCCAATGTTATTA3' Linearize the plasmid with SspI and gel purify. When digesting the DNA with T4 polymerase, use dCTP for insert and dGTP for vector. More information on this vector can be found through <http://qb3.berkeley.edu/qb3/macrolab/>

Plasmid Name: pET His6 MBP TEV LIC cloning vector (2M-T)

Record Creation Time: 20220422T222131+0000

Record Last Update: 20260815T081322+0000

Ratings and Alerts

No rating or validation information has been found for pET His6 MBP TEV LIC cloning vector (2M-T).

No alerts have been found for pET His6 MBP TEV LIC cloning vector (2M-T).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Loeff L, et al. (2025) Mechanistic basis for PYROXD1-mediated protection of the human tRNA ligase complex against oxidative inactivation. *Nature structural & molecular biology*, 32(7), 1205.

Huang XX, et al. (2025) Effects of RAR γ ligand binding domain mutations on breast fibroepithelial tumor function and signaling. *NPJ breast cancer*, 11(1), 1.

Kim SO, et al. (2024) Serial X-ray liquidography: multi-dimensional assay framework for exploring biomolecular structural dynamics with microgram quantities. *Nature communications*, 15(1), 6287.

Panagoda NT, et al. (2024) Mycobacterium tuberculosis Mce3R TetR-like Repressor Forms an Asymmetric Four-Helix Bundle and Binds a Nonpalindrome Sequence†. *ACS chemical biology*, 19(12), 2580.

Jablunovsky A, et al. (2024) Identification of a critical role for ZIKV capsid γ 3 in virus assembly and its genetic interaction with M protein. *PLoS neglected tropical diseases*, 18(1), e0011873.

Tokonami S, et al. (2023) Effects of N- and C-terminal regions on oligomeric formation of blue light sensor protein SyPixD. *Protein science : a publication of the Protein Society*, 32(6), e4658.

Braxton JR, et al. (2023) The p97/VCP adapter UBXD1 drives AAA+ remodeling and ring opening through multi-domain tethered interactions. *bioRxiv : the preprint server for biology*.

Srole DN, et al. (2023) Characterization of erythroferrone structural domains relevant to its iron-regulatory function. *The Journal of biological chemistry*, 299(12), 105374.

Nähse V, et al. (2023) ATPase activity of DFCP1 controls selective autophagy. *Nature communications*, 14(1), 4051.

Nakasone Y, et al. (2023) Time-resolved study on signaling pathway of photoactivated adenylate cyclase and its nonlinear optical response. *The Journal of biological chemistry*,

299(11), 105285.

Shibata K, et al. (2022) Selective Photoinduced Dimerization and Slow Recovery of a BLUF Domain of EB1. *The journal of physical chemistry. B*, 126(5), 1024.

Boyd RJ, et al. (2022) Characterization and computational simulation of human Syx, a RhoGEF implicated in glioblastoma. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 36(7), e22378.

Schink KO, et al. (2021) The phosphoinositide coincidence detector Phafin2 promotes macropinocytosis by coordinating actin organisation at forming macropinosomes. *Nature communications*, 12(1), 6577.

Moran MW, et al. (2021) Biophysical characterization and a roadmap towards the NMR solution structure of G0S2, a key enzyme in non-alcoholic fatty liver disease. *PloS one*, 16(7), e0249164.

Teo SLY, et al. (2021) Unravelling cytosolic delivery of cell penetrating peptides with a quantitative endosomal escape assay. *Nature communications*, 12(1), 3721.

Asanovi? I, et al. (2021) The oxidoreductase PYROXD1 uses NAD(P)⁺ as an antioxidant to sustain tRNA ligase activity in pre-tRNA splicing and unfolded protein response. *Molecular cell*, 81(12), 2520.

Kroupova A, et al. (2021) Molecular architecture of the human tRNA ligase complex. *eLife*, 10.

Pantoom S, et al. (2021) Direct Interaction of ATP7B and LC3B Proteins Suggests a Cooperative Role of Copper Transportation and Autophagy. *Cells*, 10(11).

Shibata K, et al. (2021) Enzymatic activity of the blue light-regulated phosphodiesterase BlrP1 from *Klebsiella pneumoniae* shows a nonlinear dependence on light intensity. *FEBS letters*, 595(10), 1473.

Lee D, et al. (2020) Regulation of reactive oxygen species during plant immunity through phosphorylation and ubiquitination of RBOHD. *Nature communications*, 11(1), 1838.