Resource Summary Report

Generated by dkNET on Jul 30, 2026

pET His6 Mocr TEV LIC cloning vector (2O-T)

RRID:Addgene_29710
Type: Plasmid

Proper Citation

RRID:Addgene_29710

Plasmid Information

URL: http://www.addgene.org/29710

Proper Citation: RRID:Addgene_29710

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). 2O-T has a TEV-cleavable N-terminal His6-Mocr fusion tag. Mocr 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 Mocr TEV LIC cloning vector (2O-T)

Record Creation Time: 20220422T222131+0000

Record Last Update: 20260725T074534+0000

Ratings and Alerts

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

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

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Brochu J, et al. (2023) Characterization of a pathway of genomic instability induced by R-loops and its regulation by topoisomerases in E. coli. PLoS genetics, 19(5), e1010754.

Ferdous S, et al. (2023) The interaction between transport-segment DNA and topoisomerase IA-crystal structure of MtbTOP1 in complex with both G- and T-segments. Nucleic acids research, 51(1), 349.

Cao N, et al. (2020) Mechanistic insights from structure of Mycobacterium smegmatis topoisomerase I with ssDNA bound to both N- and C-terminal domains. Nucleic acids research, 48(8), 4448.

Banda S, et al. (2017) Distinct Mechanism Evolved for Mycobacterial RNA Polymerase and Topoisomerase I Protein-Protein Interaction. Journal of molecular biology, 429(19), 2931.

Tan K, et al. (2016) Insights from the Structure of Mycobacterium tuberculosis Topoisomerase I with a Novel Protein Fold. Journal of molecular biology, 428(1), 182.

Banda S, et al. (2016) Investigating direct interaction between Escherichia coli topoisomerase I and RecA. Gene, 585(1), 65.