

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pET PPL His6 MBP LIC cloning vector (2K-T)

RRID:Addgene_37183

Type: Plasmid

Proper Citation

RRID:Addgene_37183

Plasmid Information

URL: <http://www.addgene.org/37183>

Proper Citation: RRID:Addgene_37183

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Size:6025; 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. 2K-T has a TEV-cleavable N-terminal His6 and MBP fusion tag to enhance solubility and ease purification. These tags are preceded by a periplasmic locator signal, which is autocleaved during secretion. The PPL tag may be helpful if your protein binds to or interferes with intracellular E. coli molecules, since your protein of interest is safely sequestered in the periplasm. It may also be helpful if your protein of interest is more stable in the periplasmic environment. Protein purification may also be made simpler using this expression method. 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). 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 PPL His6 MBP LIC cloning vector (2K-T)

Record Creation Time: 20220422T222157+0000

Record Last Update: 20260815T081413+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Gao Y, et al. (2025) Nanobodies against Cavin1 reveal structural flexibility and regulated interactions of its N-terminal coiled-coil domain. Journal of cell science, 138(8).

Khowsathit J, et al. (2020) Computational Design of an Allosteric Antibody Switch by Deletion and Rescue of a Complex Structural Constellation. ACS central science, 6(3), 390.

Premkumar L, et al. (2018) Development of Envelope Protein Antigens To Serologically Differentiate Zika Virus Infection from Dengue Virus Infection. Journal of clinical microbiology, 56(3).