

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

[pET28-mE1](#)

RRID:Addgene_32534

Type: Plasmid

Proper Citation

RRID:Addgene_32534

Plasmid Information

URL: <http://www.addgene.org/32534>

Proper Citation: RRID:Addgene_32534

Insert Name: E1, ubiquitin-activating enzyme

Organism: Mus musculus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22012022](#)

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:5369; Vector Backbone:pET-28b; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pET28-mE1

Record Creation Time: 20220422T222141+0000

Record Last Update: 20260815T081347+0000

Ratings and Alerts

No rating or validation information has been found for pET28-mE1.

No alerts have been found for pET28-mE1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Robb CG, et al. (2026) Conformational landscapes resolved by ion mobility mass spectrometry reveal mechanisms of polyubiquitin-controlled phase separation. *Chemical science*, 17(23), 11357.

Liao Z, et al. (2026) Faf1 accelerates p97-mediated protein unfolding by promoting ubiquitin engagement. *Cell reports*, 45(6), 117393.

Altas B, et al. (2024) Nedd4-2-dependent regulation of astrocytic Kir4.1 and Connexin43 controls neuronal network activity. *The Journal of cell biology*, 223(1).

Li H, et al. (2024) Bidirectional substrate shuttling between the 26S proteasome and the Cdc48 ATPase promotes protein degradation. *Molecular cell*.

Williams C, et al. (2023) The Ufd1 cofactor determines the linkage specificity of polyubiquitin chain engagement by the AAA+ ATPase Cdc48. *Molecular cell*, 83(5), 759.

Williams C, et al. (2023) Preparation of site-specifically fluorophore-labeled polyubiquitin chains for FRET studies of Cdc48 substrate processing. *STAR protocols*, 4(4), 102659.

Wang F, et al. (2023) Structure of the human UBR5 E3 ubiquitin ligase. *Structure (London, England : 1993)*, 31(5), 541.

Kröning A, et al. (2022) Ubiquitin-directed AAA+ ATPase p97/VCP unfolds stable proteins crosslinked to DNA for proteolysis by SPRTN. *The Journal of biological chemistry*, 298(6), 101976.

Wu Z, et al. (2022) LUBAC assembles a ubiquitin signaling platform at mitochondria for signal amplification and transport of NF- κ B to the nucleus. *The EMBO journal*, 41(24), e112006.

Ji Z, et al. (2022) Translocation of polyubiquitinated protein substrates by the hexameric Cdc48 ATPase. *Molecular cell*, 82(3), 570.

Banchenko S, et al. (2021) Structural insights into Cullin4-RING ubiquitin ligase remodelling by Vpr from simian immunodeficiency viruses. *PLoS pathogens*, 17(8), e1009775.

Bard JAM, et al. (2019) The 26S Proteasome Utilizes a Kinetic Gateway to Prioritize Substrate Degradation. *Cell*, 177(2), 286.

Dao TP, et al. (2018) Ubiquitin Modulates Liquid-Liquid Phase Separation of UBQLN2 via Disruption of Multivalent Interactions. *Molecular cell*, 69(6), 965.

Michel MA, et al. (2018) Enzymatic Assembly of Ubiquitin Chains. *Methods in molecular biology (Clifton, N.J.)*, 1844, 73.

Morimoto D, et al. (2018) Hydrogen-Deuterium Exchange Profiles of Polyubiquitin Fibrils. *Polymers*, 10(3).

Dove KK, et al. (2017) Structural Studies of HHARI/UbcH7-Ub Reveal Unique E2-Ub Conformational Restriction by RBR RING1. *Structure* (London, England : 1993), 25(6), 890.

Worden EJ, et al. (2017) An AAA Motor-Driven Mechanical Switch in Rpn11 Controls Deubiquitination at the 26S Proteasome. *Molecular cell*, 67(5), 799.

Krist DT, et al. (2017) UbFluor: A Fluorescent Thioester to Monitor HECT E3 Ligase Catalysis. *Current protocols in chemical biology*, 9(1), 11.

Martinez-Fonts K, et al. (2016) A Rapid and Versatile Method for Generating Proteins with Defined Ubiquitin Chains. *Biochemistry*, 55(12), 1898.

Reichard EL, et al. (2016) Substrate Ubiquitination Controls the Unfolding Ability of the Proteasome. *The Journal of biological chemistry*, 291(35), 18547.