

Resource Summary Report

Generated by [RRID](#) on Aug 29, 2026

pET-MBP-Geo_st

RRID:Addgene_87700

Type: Plasmid

Proper Citation

RRID:Addgene_87700

Plasmid Information

URL: <http://www.addgene.org/87700>

Proper Citation: RRID:Addgene_87700

Insert Name: GeoCas9

Organism: Geobacillus stearothermophilus

Bacterial Resistance: Ampicillin

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

Comments: Please see <http://biorxiv.org/content/early/2017/05/16/138867> for the preprint publication describing this construct.

Plasmid Name: pET-MBP-Geo_st

Record Creation Time: 20220422T222602+0000

Record Last Update: 20260829T081224+0000

Ratings and Alerts

No rating or validation information has been found for pET-MBP-Geo_st.

No alerts have been found for pET-MBP-Geo_st.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Belato HB, et al. (2025) Structural and Dynamic Impacts of Single-atom Disruptions to Guide RNA Interactions within the Recognition Lobe of *Geobacillus stearothermophilus* Cas9. bioRxiv : the preprint server for biology.

Knight AL, et al. (2025) Assessing Temperature-Dependent DNA Cleavage by CRISPR-Cas9. Bio-protocol, 15(19), e5463.

Belato HB, et al. (2025) Structural and dynamic impacts of single-atom disruptions to guide RNA interactions within the recognition lobe of *Geobacillus stearothermophilus* Cas9. eLife, 13.

Belato HB, et al. (2022) Disruption of electrostatic contacts in the HNH nuclease from a thermophilic Cas9 rewires allosteric motions and enhances high-temperature DNA cleavage. The Journal of chemical physics, 157(22), 225103.

Lee J, et al. (2018) Potent Cas9 Inhibition in Bacterial and Human Cells by AcrIIC4 and AcrIIC5 Anti-CRISPR Proteins. mBio, 9(6).

Harrington LB, et al. (2017) A thermostable Cas9 with increased lifetime in human plasma. Nature communications, 8(1), 1424.

Harrington LB, et al. (2017) A Broad-Spectrum Inhibitor of CRISPR-Cas9. Cell, 170(6), 1224.