

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

pET21b(+)_SARS-CoV-2_3CLpro_Q306A-HIS

RRID:Addgene_224697

Type: Plasmid

Proper Citation

RRID:Addgene_224697

Plasmid Information

URL: <http://www.addgene.org/224697>

Proper Citation: RRID:Addgene_224697

Insert Name: SARS-CoV-2 3C-like proteinase (ORF1ab Severe acute respiratory syndrome coronavirus 2)

Organism: SARS-CoV-2 virus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:39673710](#)

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:5400; Vector Backbone:pET21b(+); Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Silent mutation in the original sequence to delete a second NdeI site as NdeI was needed for cloning; codon coding for Q306 was mutated to codon coding for A306 to delete natural cleavage site of the 3CL-protease; two codons for glycine as a linker before the c-terminal 6x histag.

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Relevant Mutation: silent mutation C to T at position 10546 (eliminating NdeI site); codon CAA for Q306 to codon GCA for A306 (eliminating natural 3CL autocleavage site)

Record Creation Time: 20250709T054329+0000

Record Last Update: 20260829T082426+0000

Ratings and Alerts

No rating or validation information has been found for pET21b(+)_SARS-CoV-2_3CLpro_Q306A-HIS.

No alerts have been found for pET21b(+)_SARS-CoV-2_3CLpro_Q306A-HIS.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.