

# Certificate of Analysis

Project ID: U499UHE170-4

**Construct Information:**

Gene Name: ND\_035637\_pET-3a

Clone ID: R114508

Cloning Vector: pET-3a

Gene Length: 4424 bp

Cloning Strategy: XbaI/BlnI

**Growth in Bacteria:**

Plasmid resistance: Ampicillin

Suggested competent cell: TOP10

Growth Temperature: 37 °C

Default	Plasmid Storing at	Bacstab Storing at	Glycerol Stock Storing at
Lyophilized	-20	4°C	-80°C

QC Items	Specifications	Results	
Sequence Accuracy	Sanger sequencing verification to the inserted gene.	Pass	Consistent
Vector Sequence	The flanking sequences of the cloning site are correct.	Pass	Correct
			Shown in the SQD file
Restriction Digests	Expected size bands detected in agarose gel electrophoresis.	Pass	Correct
			Shown in attachment 1
DNA Quality	Miniprep: 4 µg OD260/280=1.8~2.0 Free of contamination	Pass	≥ 4 µg
			OD260/280=1.90
			Pure
Quality Grade	Research Grade	Pass	Research Grade
Appearance	Clear and free of foreign particles.	Pass	Clear
			Free of foreign particles
Additional Test	N/A	N/A	

Certified by: *kaihuichu* Date: 06/08/2022

For research use only

860 Centennial Ave., Piscataway, NJ 08854, USA

Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

Fax: 1-732-210-0262

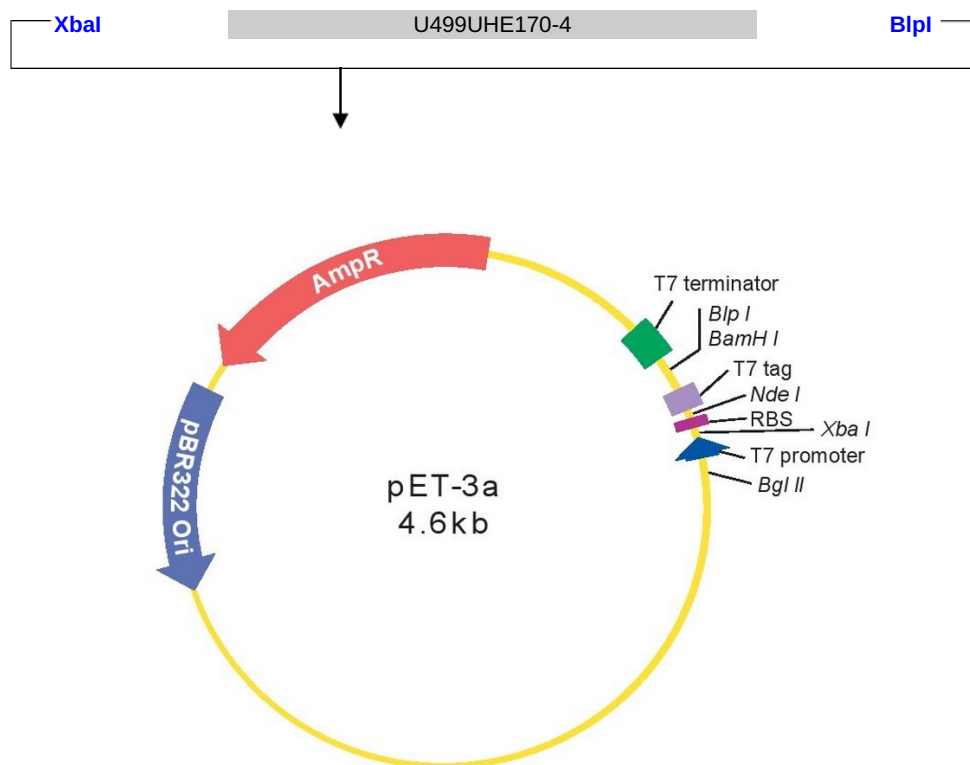
Email: [order@genscript.com](mailto:order@genscript.com)

Web: [www.genscript.com](http://www.genscript.com)

Attachment 1

Plasmid Construct Map

The gene was cloned in pET-3a by XbaI/BlnI .

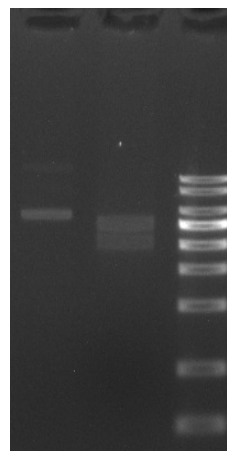


*Bgl II* T7 promoter *Xba I* rbs  
 --- A GAT CTC GAT CCC GCG AAA TTA ATA CGA CTC ACT ATA GGG AGA CCA CAA CGG TTT CCC TCT AGA AAT AAT TTT GTT TAA CTT TAA GAA GGA GAT  
*Nde I* T7 tag *BamH I*  
 ATA CAT ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT CGC GGA TCC GGC TGC TAA CAA AGC CCG AAA GGA AGC TGA GTT GGC TGC TGC  
 M A S M T G G E E M G R G S G C Stop  
*Bln I* T7 terminator  
 CAC CGC TGA GCA ATA ACT AGC ATA ACC CCT TGG GGC CTC TAA ACG GGT CTT GAG GGG TTT TTT G ---

**Notes:** This map is based on a commercial vector. Some of the clone sites may be lost after cloning.

Enzyme Digestion

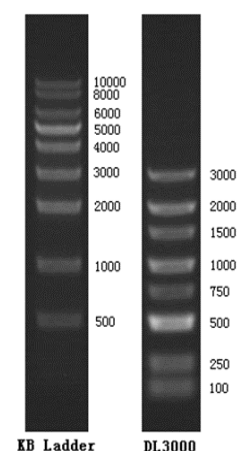
1 2 M



Lane M: KB Ladder  
 Lane 1: U499UHE170-4 plasmid  
 Lane 2: U499UHE170-4 plasmid digested  
 by SacI and HindIII

**Restriction digest of plasmid DNA:**

About 200-1000 ng of plasmid was digested  
 at 37°C for 30-60 minutes and analyzed on  
 1% Agarose Gel



For research use only

860 Centennial Ave., Piscataway, NJ 08854, USA

Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

Fax: 1-732-210-0262

Email: [order@genscript.com](mailto:order@genscript.com)

Web: [www.genscript.com](http://www.genscript.com)