

Certificate of Analysis

Project ID: C536P916G0-3**Construct Information:**Gene Name: LbCas12a_pET-28a(+)Clone ID: I577818Cloning Vector: pET-28a(+)Gene Length: 3696 bpCloning Strategy: NdeI/XhoI**Growth in Bacteria:**Plasmid resistance: KanamycinSuggested competent cell: TOP10Growth 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: 10 µg OD260/280=1.8~2.0 Free of contamination	Pass	≥ 10 µg OD260/280=1.94 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: Jing Yu Date: 08/05/2023

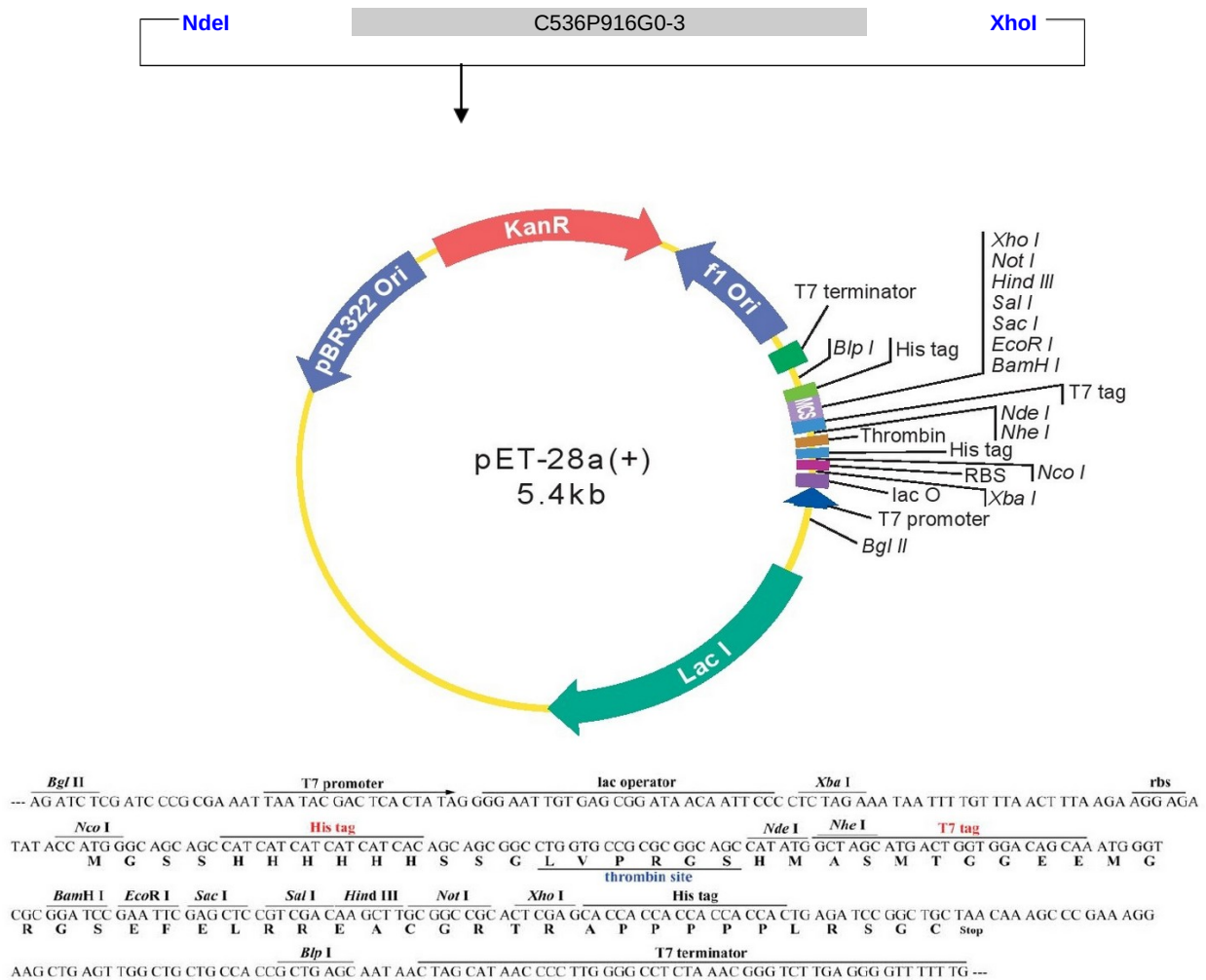
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Plasmid Construct Map

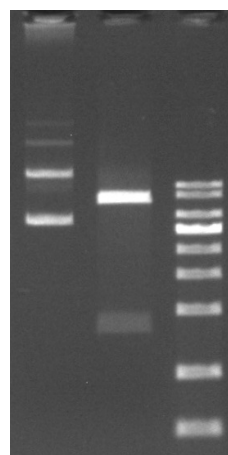
The gene was cloned in pET-28a(+) by NdeI/XhoI .



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

Enzyme Digestion

1 2 M



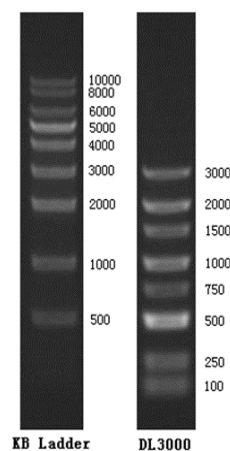
Lane M: KB Ladder

Lane 1: C536P916G0-3 plasmid

Lane 2: C536P916G0-3 plasmid digested
by SmaI and SacI

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



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