

**Guinea Pig Expression Clone CD8β/pcDNA3.1 Hygro(+)**

**Catalog No. NR-36206**

**Product Description:** NR-36206 is a full-length expression clone containing the CD8β gene from guinea pig (*Cavia porcellus*). The CD8β gene was cloned into vector pcDNA3.1/hygro(+) via *Bam*HI and *Eco*RV insertion sites, transformed into MAX Efficiency® *Escherichia coli* (*E. coli*) DH5α™ competent cells (Invitrogen™), and extracted using a QIAGEN® Plasmid Mega Kit.

**Note:** The vial labels for NR-36206 incorrectly state that the plasmid DNA is provided as an *E. coli* glycerol stock. NR-36206 is purified plasmid DNA that was extracted from bacteria prior to vialing.

**Lot<sup>1</sup>: 61317372**

**Manufacturing Date: 14DEC2012**

TEST	SPECIFICATIONS	RESULTS
Sequencing of CD8α Coding Region (670 base pairs)	Identical to guinea pig CD8β (GenBank: NM_001172877)	Identical to guinea pig CD8β (GenBank: NM_001172877)
Next-Generation DNA Sequencing	Report results	6540 base pairs (Figure 1 and 2) <sup>2</sup>
Concentration by PicoGreen® Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 40 µL per vial (27 µg/mL)
OD <sub>260</sub> /OD <sub>280</sub> Ratio	1.7 to 2.1	2.0
Effective Bacterial Transformation	≥ 100 colonies per ng	≥ 100 colonies per ng

<sup>1</sup>NR-36206 was amplified in MAX Efficiency® *E. coli* DH5α™ competent cells (Invitrogen™ 18258-012) and extracted using a QIAGEN® Plasmid Mega Kit (QIAGEN® 12181).

<sup>2</sup>Sequencing results for NR-36206 revealed that most regions of the vector match the depositor's information, including the ampicillin resistance gene, the hygromycin resistance gene under control of the SV40 promoter, polyadenylation signals, and the pUC and f1 origins of replication. However, the native cytomegalovirus (CMV) promoter has been replaced by a ubiquitin (UbC) promoter upstream of CD8β; this replacement also resulted in the loss of the T7 promoter. The hygromycin resistance gene contains an in-frame 21-base-pair deletion which removes seven amino acids near the C-terminal end of the protein (not near the active site).

**Date:** 24 SEP 2015

**Signature:**



BEI Resources Authentication

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Figure 1: Plasmid Map of Guinea Pig Expression Clone CD8β/pcDNA3.1 Hygro

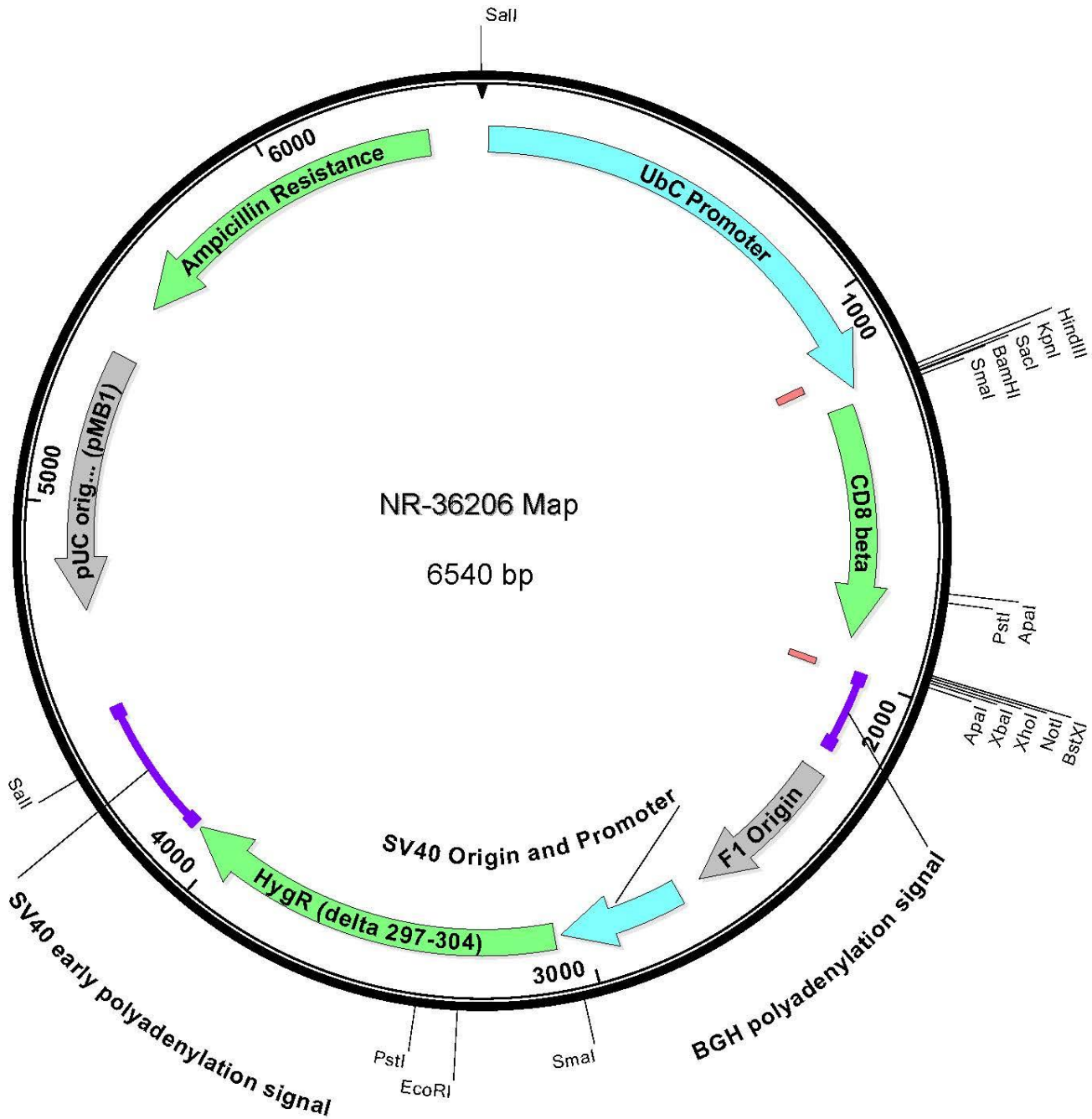


Figure 2: Complete Plasmid Sequence of NR-36206

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>NR-36206|lot_61317372|complete plasmid sequence
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