

Guinea Pig Expression Clone CD8 α /pcDNA3.1 Hygro(+)

Catalog No. NR-36204

Product Description: NR-36204 is a full-length expression clone containing the CD8 α gene from guinea pig (*Cavia porcellus*). The CD8 α gene was cloned into vector pcDNA3.1/hygro(+) via *Bam*HI and *Eco*RV insertion sites, transformed into MAX Efficiency[®] *Escherichia coli* (*E. coli*) DH5 α [™] competent cells (Invitrogen[™]), and extracted using a QIAGEN[®] Plasmid Mega Kit.

Note: The vial labels for NR-36204 incorrectly state that the plasmid DNA is provided as an *E. coli* glycerol stock. NR-36204 is purified plasmid DNA that was extracted from bacteria prior to vialing.

Lot¹: 61317369

Manufacturing Date: 08NOV2012

TEST	SPECIFICATIONS	RESULTS
Sequencing of CD8 α Coding Region (820 base pairs)	Identical to guinea pig CD8 α (GenBank: NM_001172876)	Identical to guinea pig CD8 α (GenBank: NM_001172876)
Next-Generation DNA Sequencing	Report results	6735 base pairs (Figure 1 and 2) ²
Concentration by PicoGreen [®] Measurement	0.7 to 1.5 μ g in 25 to 100 μ L per vial	1.3 μ g in 92 μ L per vial (14 μ g/mL)
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.1	1.9
Effective Bacterial Transformation	\geq 100 colonies per ng	\geq 100 colonies per ng

¹NR-36204 was amplified in MAX Efficiency[®] *E. coli* DH5 α [™] competent cells (Invitrogen[™] 18258-012) and extracted using a QIAGEN[®] Plasmid Mega Kit (QIAGEN[®] 12181).

²Sequencing results for NR-36204 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 However, the native cytomegalovirus (CMV) promoter has been replaced by a ubiquitin (UbC) promoter upstream of CD8 α ; this replacement also resulted in the loss of the T7 promoter.

Date: 23 SEP 2015

Signature:



BEI Resources Authentication

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

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Figure 1: Plasmid Map of Guinea Pig Expression Clone CD8a/pcDNA3.1 Hygro

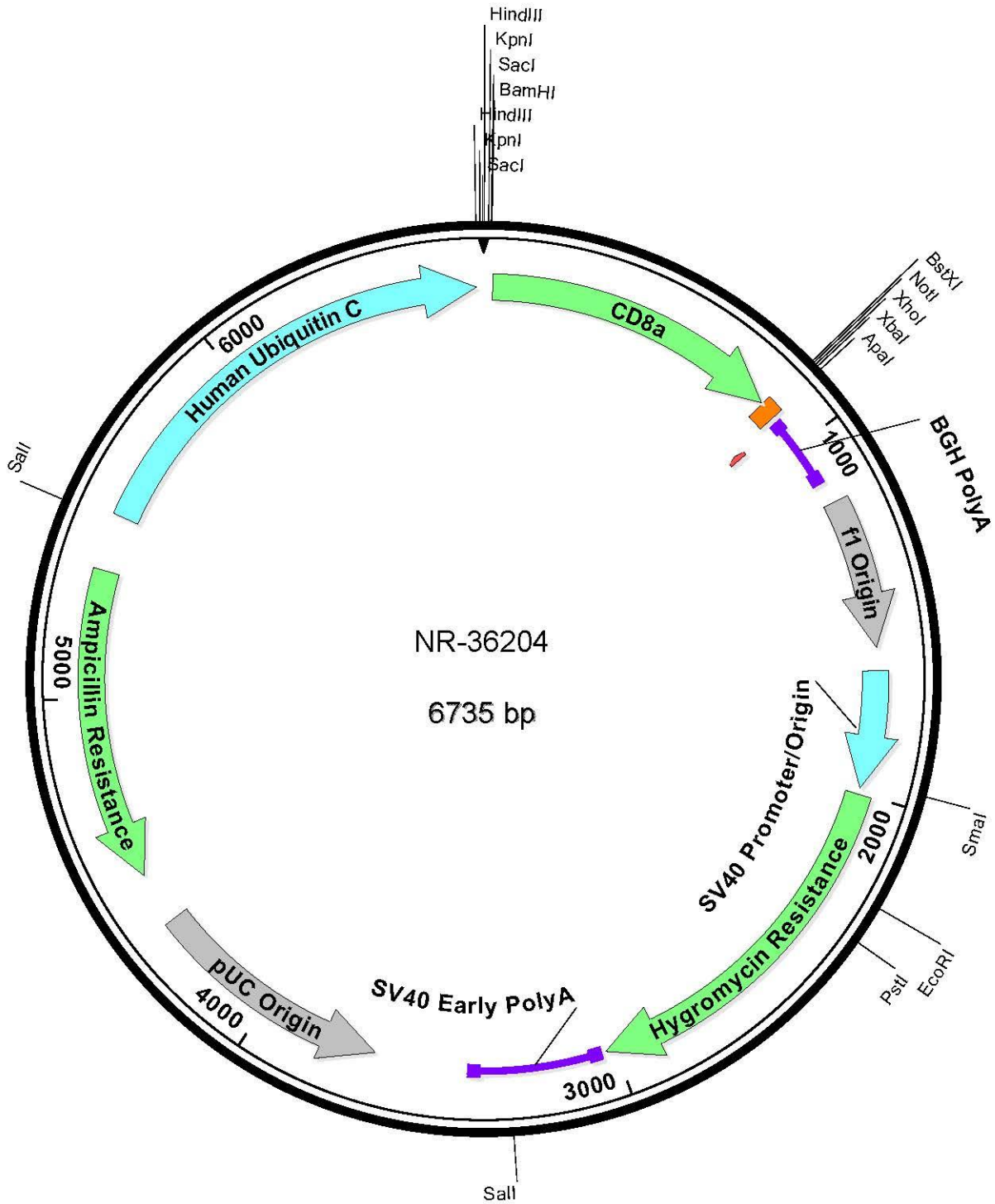


Figure 2: Complete Plasmid Sequence of NR-36204

>NR-36204|lot_61317369|complete plasmid sequence
 GAAGCTTGGTACCGAGCTCGGATCCTGGCTCCTGGCGGCTCCCTTACAGCCTGGACTCCAGGCTCTGCCCTGCGCCGAGGA
 GCGCGCGCCATGGCCCCGCGAGGAAGCGCCTGGCTGCTGCTGCCGGTGGCCCTGCTGCTCGACGCCGCCACGGCCCA
 AGGTGCCAGTCAGTTCCGAATGTCACCCCGTGAAGTGGTCGCGCAAGTCGGCACCAAAGTGACCCTGCGCTGTGAGGTGCTG
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 CGGCGTCCGGGACCAAGTTGGCCCCAGGGCTGGAACAGAAGCGATTACGCCCTCGAAGAGCAGTAACACCTACACCCTCAC
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