

Guinea Pig Expression Clone CD8 α /pUB6A

Catalog No. NR-36205

Product Description: NR-36205 is a full-length expression clone containing the CD8 α gene from guinea pig (*Cavia porcellus*). The CD8 α gene was cloned into vector pUB6A via *Bam*HI and *Eco*RI 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-36205 incorrectly state that the plasmid DNA is provided as an *E. coli* glycerol stock. NR-36205 is purified plasmid DNA that was extracted from bacteria prior to vialing.

Lot¹: 61317371

Manufacturing Date: 16NOV2012

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	6801 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	1.5 μ g in 34 μ L per vial (44 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-36205 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-36205 revealed that most regions of the vector match the depositor's information, including the ampicillin resistance gene, ubiquitin C promoter, polyadenylation signals, and the pMB1 and f1 origins of replication. However, the blasticidin resistance gene and associated EM-7 promoter normally encoded by pUB6A have been completely replaced with the hygromycin resistance gene under control of the SV40 promoter (presumably taken from the pcDNA 3.1 vector).

Date: 24 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 CD8α/pUB6A

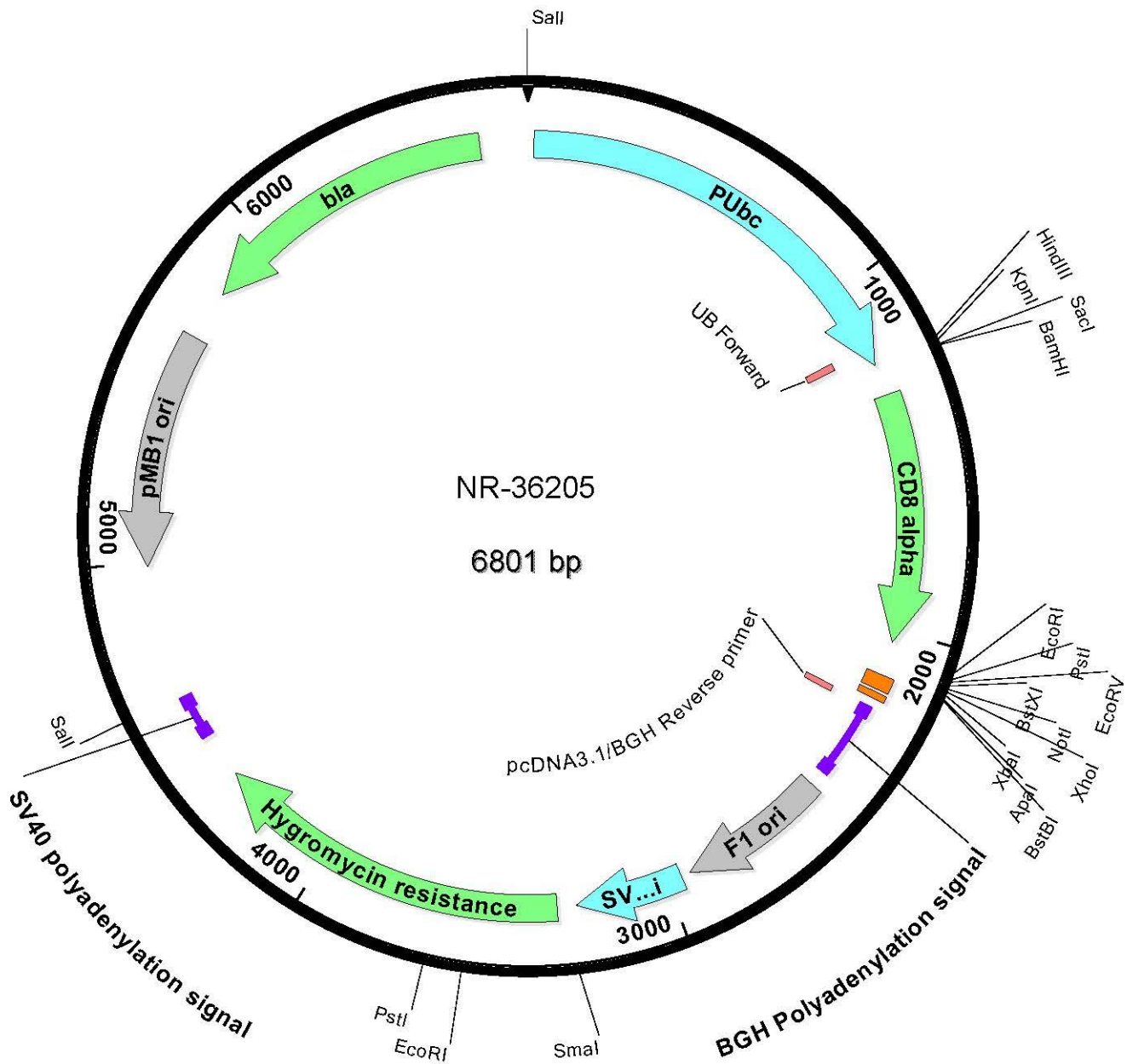


Figure 2: Complete Plasmid Sequence of NR-36205

>NR-36205|lot_61317371|complete plasmid sequence
GACGATCGGGAGATCTGGCCCTCCGCGCCGGTTTTGGCGCCTCCCGCGGGCGCCCCCTCCTCACGGCGAGCGCTGCCAC
GTCAGACGAAGGGCGCAGCGAGCGTCTGATCCTTCCGCCCGGACGCTCAGGACAGCGGCCCGCTGCTCATAAGACTCGGC
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