

Certificate of Analysis for NR-36036

Guinea Pig Expression Clone IFN-y, Recombinant in Escherichia coli

Catalog No. NR-36036

Product Description: NR-36036 is an expression clone containing the mature peptide region of interferon-gamma, IFN- γ , (GenBank: NM_001172874) from *Cavia porcellus* (guinea pig). The IFN- γ gene was cloned into vector pQE-30 via *Bam*HI and *Hind*III insertion sites and transformed into *Escherichia coli* (*E. coli*), strain M15, competent cells. The M15 strain of *E. coli* contains a low-copy plasmid, pREP4, which confers kanamycin resistance and constitutively expresses the lac repressor, which is utilized for tight regulation of recombinant protein expression in this strain. The pQE-30 vector contains a T5 promoter, a β-lactamase gene for ampicillin resistance, an N-terminal His-tag for purification, a thrombin cleavage site between the His-tag and the protein, and the *lacI* gene which is used for enhanced protein expression via IPTG induction.

Lot¹: 61161555 Manufacturing Date: 02AUG2012

TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze) ²	Report results	Single colony type consistent with E. coli
Plasmid Analysis Sequencing of insert (~ 440 base pairs)	≥ 99% identical to GenBank: NM_001172874 (<i>Cavia porcellus</i> , IFN-γ gene)	≥ 99% identical to GenBank: NM_001172874 (<i>Cavia porcellus</i> , IFN-γ gene)
Confirmation of pREP4 ³	Growth	Growth
Viability (post-freeze) ²	Growth	Growth

¹24 hours at 37°C and aerobic atmosphere in Luria Bertani (LB) broth containing 100 μg/mL ampicillin with shaking

Date: 17 OCT 2012 **Sign**

Signature:

Title: Technical Manager, BEI Authentication or designee

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²24 hours at 37°C and aerobic atmosphere on LB agar containing 100 μg/mL ampicillin

³24 hours at 37°C and aerobic atmosphere on LB agar containing 50 μg/mL kanamycin