

Guinea Pig Expression Clone IL-4, Recombinant in *Escherichia coli*

Catalog No. NR-36038

Product Description: NR-36038 is an expression clone containing the mature peptide region of interleukin 4 (IL-4) from *Cavia porcellus* (guinea pig). The IL-4 gene was cloned into vector pET-30a(+) and transformed into *Escherichia coli* (*E. coli*), strain Rosetta 2(DE3) for protein expression. The pET-30a(+) vector contains a T7 promoter, genes to allow kanamycin and chloramphenicol resistance, an N-terminal His-tag for purification, and the *lacI* gene which is used for enhanced protein expression via IPTG induction.

Lot¹: 61161557

Manufacturing Date: 22AUG2012

TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze)²	Report results	Single colony type consistent with <i>E. coli</i>
Plasmid Analysis³ Sequencing of insert (~ 420 base pairs)	≥ 99% identical to GenBank: NM_001257263.1 (<i>Cavia porcellus</i> , IL-4 gene)	≥ 99% identical to GenBank: NM_001257263.1 (<i>Cavia porcellus</i> , IL-4 gene)
Viability (post-freeze)²	Growth	Growth

¹24 hours at 37°C and aerobic atmosphere in Luria Bertani (LB) broth containing 15 µg/mL kanamycin and 34 µg/mL chloramphenicol with shaking

²24 hours at 37°C and aerobic atmosphere on LB agar containing 15 µg/mL kanamycin and 34 µg/mL chloramphenicol

³Universal T7 promoter and T7 terminator primers were used for sequencing

Date: 15 OCT 2012

Signature:



Title: Technical Manager, BEI Authentication or designee

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