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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-36034

Guinea Pig Expression Clone IL-1β, Recombinant in *Escherichia coli*

Catalog No. NR-36034

Product Description: NR-36034 is an expression clone containing the mature peptide region of interleukin 1 beta (IL-1β) from *Cavia porcellus* (guinea pig). The complete IL-1β 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.

Lot[1]: 61161553 **Manufacturing Date: 03AUG2012**

TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze)[2]	Report results	Single colony type consistent with *E. coli*
Plasmid Analysis Sequencing of insert (~ 460 base pairs)	≥ 99% identical to GenBank: AF119622 (*Cavia porcellus*, IL-1β gene)	≥ 99% identical to GenBank: AF119622 (*Cavia porcellus*, IL-1β gene)
Viability (post-freeze)[2]	Growth	Growth

[1]24 hours at 37°C and aerobic atmosphere in Luria Bertani (LB) broth containing 15 µg/mL kanamycin and 34 µg/mL chloramphenicol with shaking
[2]24 hours at 37°C and aerobic atmosphere on LB agar containing 15 µg/mL kanamycin and 34 µg/mL chloramphenicol

Date: 13 SEP 2012 **Signature:** 

Title: Technical Manager, BEI Authentication or designee

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.

Support Provided by NIAID

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