

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

**Catalog No. NR-36035**

**Product Description:** NR-36035 is an expression clone containing the mature peptide region of monocyte chemoattractant protein-1 (MCP-1) from *Cavia porcellus* (guinea pig). The complete MCP-1 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<sup>1</sup>: 61161554**

**Manufacturing Date: 02AUG2012**

TEST	SPECIFICATIONS	RESULTS
<b>Purity (post-freeze)<sup>2</sup></b>	Report results	Single colony type consistent with <i>E. coli</i>
<b>Plasmid Analysis</b> Sequencing of insert (~ 300 base pairs)	≥ 99% identical to GenBank: NM_001172926 ( <i>Cavia porcellus</i> , MCP-1 gene)	≥ 99% identical to GenBank: NM_001172926 ( <i>Cavia porcellus</i> , MCP-1 gene)
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>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

<sup>2</sup>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

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