

## Product datasheet for MC225489

### Epc1 (NM\_001276350) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Epc1 (NM\_001276350) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Epc1  
**Synonyms:** 2400007E14Rik; 5730566F07Rik; A930032N02Rik; mir-1893  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225489 representing NM\_001276350  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTAAACTGTCGTTTCGGGCGGGCGCTGGACGCCTCGAAGCCGCTGCCGGTCTCCGCTGTGAGG  
 ATCTGCCCGACCTGCACGAATACGCCTCGATAAACCGGGCCGTGCCGCAGATGCCACCGGGATGGAGAA  
 GGAAGAGGAGTCGGTACGCCACTTATACAGGGTGCAGTGTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276350  
**Insert Size:** 186 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001276350.1](#), [NP\\_001263279.1](#)

**RefSeq Size:** 834 bp

**RefSeq ORF:** 186 bp

**Locus ID:** 13831

**UniProt ID:** [Q8C9X6](#)

**Cytogenetics:** 18 A1

**Gene Summary:** Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks several exons in the central and 3' coding regions and includes an alternate 3' terminal exon, resulting in a novel 3' coding region and 3' UTR, compared to variant 2. It encodes isoform 3 which is shorter and has a distinct C-terminus, compared to isoform 2.