

## Product datasheet for **MR215235**

### **Epc1 (NM\_027497) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epc1 (NM_027497) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epc1
Synonyms:	2400007E14Rik; 5730566F07Rik; A930032N02Rik; mir-1893
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215235 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTAAACTGTCGTTTCGGGCGGGGCTGGACGCCTCGAAGCCGCTGCCGGTCTTCCGCTGTGAGG  
 ATCTGCCCGACCTGCACGAATACGCCTCGATAAACCGGGCCGTGCCGCAGATGCCACCGGGATGGAGAA  
 GGAAGAGGAGTCGGAACACCATCTTCAGCGGGCTATTTCTGCACAGCAGGTGTACGGCGAGAAGCGGGAT  
 AACATGGTTATTCCAGTTCCTGAAGCAGAGAGTAACATCGCTTACTATGAGTCCATATACCTGGGGAGT  
 TCAGGATGCCAAAGCAGCTCATTACATACAGCCTTTTAGCTTGGACGCTGAACAGCCTGATTACGATCT  
 GGATTCTGAAGATGAAGTATTTGTGAATAAACTGAAGAAGAAAATGGACATCTGCCATTGCAGTTTGAG  
 GAGATGATTGACCGCTAGAAAAAGGCAGCGGTCAGCAGCCAGTCACTGCAGGAAGCCAACTACTTC  
 TAAAAGAAGATGATGAGTTAATTAGAGAAGTTTATGAATACTGGATTAAGAGAGGAAAACCTGCCGGG  
 GTCATCACTTATCCCGTTGGTAAAACAGGAAAAGCGAGATGGTTCTAGCACAAATGATCCTTACGTGGCT  
 TTTAGAAGACGAACTGAGAAAATGCAAACTCGGAAAAACCGTAAGAATGATGAAGCCTCATATGAGAAAA  
 TGCTCAAGCTGCGCCGCGATCTCAGCCGGGCTGTACCATCCTGGAAATGATCAAGAGACGGGAGAGAG  
 TAAACGGGAGCTGCTGCACCTGACCCTGGAAATCATGGAGAAGAGGTATAATTTAGGTGACTATAGTGGA  
 GAGATCATGTCTGAGGTGATGCCACAGAGACAGCCAGTGAAGCCTACTTATGCCATCCCCATCATCCCGA  
 TTAATAACAGCAGCCAGTTCAAACACCAGGATGCCACGGACTCGAAGGAGTTCAAAGTTAAACAGCAAGA  
 TAAGGCTGATCTTATCCGGCCGAAGCGCAAATATGAAAAGAAGCCCAAAGTCTTACCCCATCTGCTGCC  
 CCCCCTCAGCAGCAGAGTCTGCTGCACTGCCAGGCTTCACTGCTAAAGACTTAAACCAGTACGACTTCC  
 CCAGCTCAGATGAAGAGCCTCTGTACAGGTTTTGTCTGGCTCTCGGAAGCTGAGGAAGAGAAAGACCC  
 TGATGGCCCTTTTGTCTTCCGTAGGAAAAGCAGGCTGTCACTACTGCTCCTCATTAGACCAAACCTGGC  
 AACTGGCCCTGGACTAGCCCTAAAGATGGAGGCCTGGGGGATGTGCGATATAGATATTGCTTAACTACTC  
 TCACCGTACCCAGAGGTGTCTTGATTGACAGAAAGACGGGTCGGACGTGGTGAAGGGTCTGCTGGA  
 CAGAGCGCATTCACTATGACAGTATGTTTACCACCTGGATTGGACATGCTTTCCTACCACAACCT  
 TCTCCAGTCAATCAGTTTGCCAATACCTCAGAACCAATACCTCGGACAGATCTTCTCTAAAGACCTCA  
 GTCAGATACTAGTCGATATCAAATCATGTAGATGGCGGCACTTTAGGCCTCGGACACCATCCCTGCCTGA  
 CAGTGACAGTGGTGAACCTCCAGTAGAAAGTTACACAGGAGTATCAGTCGAGCAGGAGCAGCACAGCCT  
 GGGGCCACACGTGCAGCACCTCCACCCAGAACAGAAGTAGCAGTGGCTCAGCACACTGTGCATTACAG  
 CCGAACAGTACCAGCAGCACCAGCAGCAGCTGGCACTCATGCAGCAGCAGCAGCTTGCGCAGACTCAGCA  
 GCAGCAGCAAGCAATAGTAGTTCTCTGCCGCGCGCAACAGGGTTTTGTTTCTAAGACGTTGGACTCT  
 GCTAGTGACAGTCTGCTTCTGCTTTGATGACGTCGGAACAGCTGCTGGGGTTCAAGGTGAAGGATG  
 ATGTGGTCTCGGGCTCGGGGTGAATGGCGTCTTCTGCCTCAGGAGTATACAAGGGCTTACACCTCAG  
 TAGCACTACCCAACGGCACTTGTACATACGAGTCTTTCGACAGCAGGTTCAACTTTGTTACAGCCTTCA  
 AATATTACACAGACTTCGGGTTCCACAGCTCACTGAGTACCAAGTAACTGCTGCCAGCTCTGCAACAA  
 CTCAGGTTCTGTTGGGAACAACATCCGATTAAGTGTCCCCTCATCTGTCCCCACTGTCAACTCTGTAC  
 CCCAATAAACGCACGGCATATACCTAGGACTTTAAGTGTCTTCCGCCATCTGCCTTAAAGCTGGCTGCT  
 GCAGCAAATTGTCAAGTTTCCAAGGTCCCCTCCTCATCCTCTGTAGATTCAAGTTCCAAGGAAAAATCATG  
 AATCGAAAAAGCCAGCACTGAACAACATAGCAGACAACACAGTAGCAATGGAGGTGACG

**ACGCGT**ACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

&gt;MR215235 protein sequence

Red=Cloning site Green=Tags(s)

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MSKLSFRARALDASKPLPVFRCELDLHEYASINRAVPQMPTGMEKEEESHHLQRAISAQQVYGEKRD
NMVIPVPEAESNIAYYESIYPGEFRMPKQLIHIQPFSLDAEQPDYDLSEDEVFNKLLKKMDICPLQFE
EMIDRLEKGGQQPVSLQEAKLLKEDDELIREVVEYWIKKRKTGRGSSLIPLVKQEKRDGSSTNDPYVA
FRRRTEKMQTRKNRKNDEASYEKMLKLRDLRAVTILEMIKRREKSKRELLHLTLEIMEKRYNLGDYSG
EIMSEVMAQRQPVKPTYAIPITNSSQFKHQDATDSKEFKVKNQDKADLIRPKRKYKPKVLPSPSAA
APQQQSPAALPGFSKADLNQYDFPSSDEEPLSQVLSGSSEAEENDPDGPFARFRKAGCQYYAPHLDQTG
NWPWTSPKDGGLGDVRYRYCLTTLVTPQRCLGFARRRVGRGGRVLDRAHSDYDSMFHHLDLMLSSPQP
SPVYNQFANTSEPNTSDRSSSKDLSQILVDIKSCRWRHFRPRTPSLPDSDSGELSSRKLHRSISRAGAAQP
GAHTCSTSTQNRSSSGSAHCAFTAQYQQHQQLALMQQQLAQTQQQQANSSSSAAAQQGFVSKTLDS
ASAQFAASALMTSEQLLGFVKDDVVLGLGVNGVLPASGVYKGLHLSTTPTALVHTSPSTAGSTLLQPS
NITQTSGSHSSLSHQVTAASSATTQVLFGNIRLTVPSSVPTVNSVTPINARHIPRTL SAVPPSALKLAA
AANCQVSKVPSSSVDSVPRENHESEKPALNNIADNTVAMEVT
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_027497

ORF Size: 2442 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

**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\\_027497.3](#), [NP\\_081773.1](#)

**RefSeq Size:** 3983 bp

**RefSeq ORF:** 2442 bp

**Locus ID:** 13831

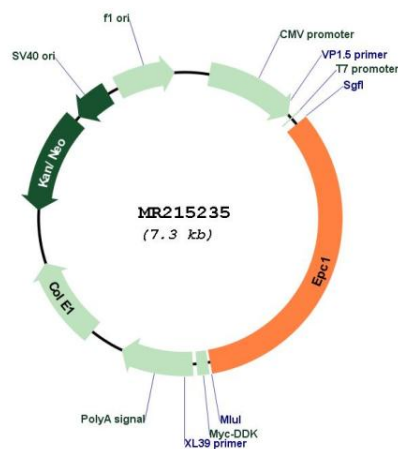
**UniProt ID:** [Q8C9X6](#)

**Cytogenetics:** 18 A1

**MW:** 90.4 kDa

**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]

### Product images:



Circular map for MR215235