

Product datasheet for **MR215437**

Epc1 (NM_007935) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epc1 (NM_007935) 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:

>MR215437 representing NM_007935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAACACCATCTTCAGCGGGCTATTTCTGCACAGCAGGTGTACGGCGAGAAGCGGGATAACATGGTTA
 TTCAGTTCCTGAAGCAGAGAGTAACATCGCTTACTATGAGTCCATATACCCTGGGGAGTTCAGGATGCC
 AAAGCAGCTCATTACATACAGCCTTTTAGCTTGACGCTGAACAGCCTGATTACGATCTGGATTCTGAA
 GATGAAGTATTTGTAATAAACTGAAGAAGAAAATGGACATCTGCCATTGCAGTTTGAGGAGATGATTG
 ACCGGCTAGAAAAAGGCAGCGGTGAGCAGCCAGTCACTGTCAGGAAGCCAACTACTTCTAAAAGAAGA
 TGATGAGTTAATTAGAGAAGTTTATGAATACTGGATTAAGAAAGAGGAAAACCTGCCGGGGTTCATCACTT
 ATCCCCTGGTAAACAGGAAAAGCGAGATGGTTCTAGCACAAATGATCCTTACGTGGCTTTTAGAAGAC
 GAACTGAGAAAAAGCAAACTCGGAAAACCGTAAGAATGATGAAGCCTCATATGAGAAAAAGCTCAAGCT
 GCGCCCGATCTCAGCCGGGCTGTACCATCCTGGAAATGATCAAGAGACGGGAGAAGAGTAAACGGGAG
 CTGCTGCACCTGACCCTGGAAATCATGGAGAAGAGGTATAATTTAGGTGACTATAGTGGAGAGATCATGT
 CTGAGGTCATGGCACAGAGACAGCCAGTGAAGCCTACTTATGCCATCCCCATCATCCCGATTACTAACAG
 CAGCCAGTTCAAACACCAGGATGCCACGGACTCGAAGGAGTTCAAAGTTAAACAGCAAGATAAGGCTGAT
 CTTATCCGGCCGAAGCGCAAATATGAAAAGAAGCCCAAAGTCTTACCCCATCTGCTGCCGCCCTCAGC
 AGCAGAGTCTGCTGCACTGCCAGGCTTCACTGCTAAAGACTTAAACCAGTACGACTTCCCAGCTCAGA
 TGAAGAGCCTCTGTCACAGGTTTTGCTGGCTCTCGGAAGCTGAGGAAGAGAATGACCCGTATGGCCCT
 TTTGCTTTCCGTAGGAAAGCAGGCTGTCACTATGCTCCTCATTTAGACCAAAGTGGCAACTGACCCTACC
 CCAGAGGTGCTTTGGATTTGACAGAAAGCGGGTGGGACGTGGTGAAGGGTCTGCTGGACAGAGCGCAT
 TCAGACTATGACAGTATGTTTACCACCTGGATTTGGACATGCTTCTCACCACAACTTCTCCAGTCA
 ATCAGTTTGCCAATACCTCAGAACCCAATACCTCGGACAGATCTTCTCTAAAGACCTCAGTCAGATACT
 AGTCGATATCAAATCATGTAGATGGCGCACTTTAGGCCCGGACACCATCCCTGCCTGACAGTGACAGT
 GGTGAAGTCTCCAGTAGAAAGTTACACAGGAGTATCAGTCGAGCAGGAGCAGCACAGCCTGGGGCCACA
 CGTGCAGCACCTCCACCCAGAACAGAAGTAGCAGTGGCTCAGCACACTGTGCATTACAGCCGAACAGTA
 CCAGCAGCACCCAGCAGCTGGCACTCATGCAGCAGCAGCAGCTTGGCAGACTCAGCAGCAGCAGCAA
 GCAAAATAGTAGTCTCTGCCGCCGCGCAACAGGGTTTTGTTTCTAAGACGTTGGACTCTGCTAGTGCAC
 AGTTTGTGCTTCTGCTTTGATGACGTCGGAACAGCTGCTGGGGTTCAAGGTGAAGGATGATGTGGTGCT
 CGGGCTCGGGGTGAATGGCGTCCTTCTGCCTCAGGAGTATACAAGGGCTTACACCTCAGTAGCACTACA
 CCAACGGCACTTGTACATACGAGTCTTTCGACAGCAGGTTCAACTTTGTTACAGCCTTCAAATATTACAC
 AGACTTCCGGTCCCACAGCTCACTGAGTACCAAGTAACTGCTGCCAGCTCTGCAACAACCTCAGGTTCT
 GTTTGGGAACAACATCCGATTAAGTGTCTCCCTCATCTGTCCCACTGTCAACTCTGTACCCCAATAAAC
 GCACGGCATATACCTAGGACTTTAAGTGTGTTCCGCCATCTGCCTTAAAGCTGGCTGCTGCAGCAAATT
 GTCAAGTTTCAAAGTCCCCTCCTCATCTGTAGATTCAAGTCCAAGGAAAAATCATGAATCGGAAAA
 GCCAGCACTGAACAACATAGCAGACAACACAGTAGCAATGGAGGTGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215437 representing NM_007935
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MEHHLQRAISAQQVYGEKRDNMVIPVEAESNIAYYESIYPGEFRMPKQLIHIQPFSLDAEQPDYDL DSE
DEVFVNKLLKKMDICPLQFEEMIDRLEKGGSGQQPVSLQEAKLLKEDDELIREVYEWIKKRKTCRGSSL
IPLVKQEKRDGSSNDPYYAFRRRTEKMQRKNRKNDEASYEKMLKLRDL SRAVTILEMIKRREKSKRE
LLHLTLEIMEKRYNLGDYSGEIMSEVMAQRQPVKPTYAIP IPIITNSSQFKHQDATDSKEFKVKNQDKAD
LIRPKRKYEKPKVLPSPSAAAPQQQSPAALPGFSAKDLNQYDFPSSDEEPLSQVLSGSSEAEENDPDGP
FAFRRKAGCQYYAPHLDQTGNWPWTSPKDGGLGDVRYRYCLTTLTVPQRCLGFARRRVGRGRVLDRAH
SDYDSMFHHLDLMLSSPQSPVNQFANTSEPNTSDRSSKDLSQLVDIKSCRWRHFRPRTPSLPDSDS
GELSSRKLHRISRAGAAQPGAHTCSTSTQNRSSSGSAHCAFTA EYQQHQQLALMQQQLAQTQQQQ
ANSSSSAAAQQGFVSKTLDASAAQFAASALMTSEQLLGFVKDDVVLGLGVNGVLPASGVYKGLHLSSTT
PTALVHTSPSTAGSTLLQPSNITQTSGSHSSLHQVTAASSATTQV LFGNNIRLTPVSSVPTVNSVTPIN
ARHIPRTL SAVPPSALKLAAAANCQVSKVPSSSSVDSVPRENHESEK PALNNIADNTVAMEVT
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007935

ORF Size: 2289 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_007935.2](#), [NP_031961.1](#)

RefSeq Size: 3895 bp

RefSeq ORF: 2292 bp

Locus ID: 13831

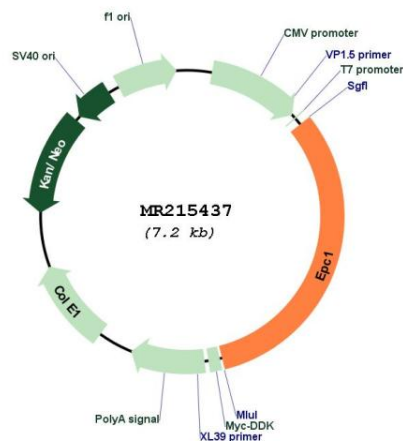
UniProt ID: [Q8C9X6](#)

Cytogenetics: 18 A1

MW: 85.2 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 MR215437