

Product datasheet for **RG234810**

EPC1 (NM_001272019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPC1 (NM_001272019) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPC1
Synonyms:	Epl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234810 representing NM_001272019
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTATACCGGTCCCAGAGGCAGAAAAGTAATATTGCTTACTATGAGTCTATATATCTCGGGAATTTA
 AGATGCCAAAGCAGCTCATTACATACAGCCTTTTAGTTGGATGCTGAACAGCCTGATTATGATTTGGA
 TTCTGAAGATGAAGTATTTGTGAATAAACTGAAAAAGAAAATGGACATCTGCCATTGCAATTTGAGGAG
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 AAGAAGATGATGAACTAATTAGAGAAGTTTATGAATATTGGATTAAGAAAGAGAAAAACTGTCGAGGGCC
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 CTAATAGCAGTCAATTTAAACACCAGGAAGCAATGGATGTGAAGGAGTTCAAAGTTAATAAGCAAGATAA
 AGCCGATCTTATCCGACCGAAACGGAAATATGAAAAGAAGCCCAAAGTCTTACCATCGTCTGCCGCTGCT
 ACTCCCCAACAGACGAGTCTGTGCTGCACTGCCAGTCTTCAATGCTAAAGATCTGAATCAGTATGACTTTC
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 TACTACCAACAGCACTTGTACATACAAGTCCATCAACGGCAGGTTTCAAGCTTTGTTACAGCCTTCAAAT
 ATTACACAGACTTCAAGTTCCCACAGTGCAGTCAAGTAACTGCTGCCAATTCTGCAACAACCTC
 AGGTTCTGATTGGGAACAACATTCGATTAAGTGTACCTTCATCAGTTGCCACTGTAACTCTATTGCCCC
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 GCAAATGTCAAGTTTCCAAGTCCCATCTTCCTCTGTAGATTCAAGTTCCAAGGAAAAATCATGAAT
 CAGAAAAGCCAGCACTGAACAACATAGCAGACAACACAGTAGCGATGGAGGTGACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234810 representing NM_001272019
Red=Cloning site Green=Tags(s)

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MVIPVPEAESNIAYYESIYPGEFKMPKQLIHIQPFSLDAEQPDYDLSEDEVFVNKLLKKMDICPLQFEE
MIDRLEKGGSGQPVSLQEAKLLKEDDELIREVVEYWIKKRKNCRGPSLIPSVKQEKRDGSSSTNDPYVAF
RRRTEKMQTRKNRKNDEASYEKMLKLRDL.SRAVTILEMIKRREKSKRELLHLTLEIMEKRYNLGDYNGE
IMSEVMAQRQPMKPTYAIPPIITNSSQFKHQEAMDVKEFKVKNQDKADLIRPKRKYEKPKVLPSSAAA
TPQQTSPAALPVFNADLNQYDFPSSDEEPL.SQVLSGSSEAEEDNDPDGPF.AFRRKAGCQYAPHLDQTG
NWPWTSKPKDGGLDVRYRYCLTTLTVPQRCIGFARRRVGRGVRLLDRAHSDYDSVFHHLDEMLSSPQH
SPVNQFANTSETNTSDKFSKDLSQLVNIKSCRWRHFRPRTPSLHSDNDELSCRKLYRSINRTGTAQP
GTQTCSTSTQSKSSSGSAHFAFTAQYQHQQLALMOKQQLAQIQQQANSNSTNTSQGFVSKTLDSA
SAQFAASALVTSEQLMGFKMKDDVVLGIGVNGVLPASGVYKGLHLSSTTPTALVHTSPSTAGSALLQPSN
ITQTSSSHSALSHQVTAANSATTQVLIGNNIRLTPSSVATVNSIAPINARHIPRTL.SAVPSSALKLAAA
ANCQVSKVPSSSSVDSVPRENHESEKPALNNIADNTVAMEVT
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001272019

ORF Size: 2226 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_001272019.4](#)

RefSeq Size: 3708 bp

RefSeq ORF: 2229 bp

Locus ID: 80314

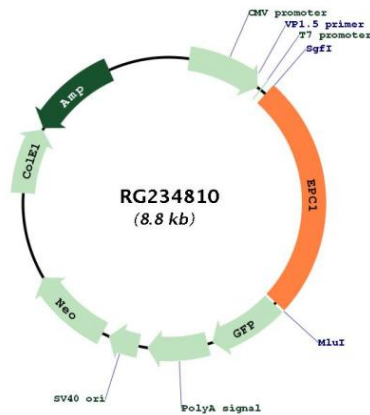
UniProt ID: [Q9H2F5](#)

Cytogenetics: 10p11.22

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the polycomb group (PcG) family. The encoded protein is a component of the NuA4 histone acetyltransferase complex and can act as both a transcriptional activator and repressor. The encoded protein has been linked to apoptosis, DNA repair, skeletal muscle differentiation, gene silencing, and adult T-cell leukemia/lymphoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG234810