

Product datasheet for **RC224895**

MCG10 (PCBP4) (NM_033010) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCG10 (PCBP4) (NM_033010) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCG10
Synonyms:	CBP; LIP4; MCG10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224895 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCTCACGCTGCGGATGCTGA
TGCACGGGAAGGAAGTGGGCAGCATCATCGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAG
CAGTGCCCGGATCACCATCTCCGAGGGCTCTGCCCTGAACGCATCACCACCATCACCAGGCTCTACAGCA
GCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAAGTGGATGAGGACCTTTGTGCTGCTCTGCAAATG
GTGAAATGTCTCCAGGCCTCCAGTGACCTGCGCCTTGTATCCCTGCCAGTCAGTGTGGCTCACTGAT
TGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCAGGTACAGGTGGCAGGGGAC
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GCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCAAAGGAGCCACTATCCCCTACCATCCGAGCCTCTC
CCTAGGTACTGTTCTTCTCTCTGCAACCCAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCCA
GCTGAGGTCACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTTGCCACACCCAGCGTGGTGCCAG
GACTGGATCCCGGCACACAGACCAGCTCACAGGAGTCTTGGTTCACCAAGATTTGATTGGCTGTGTGAT
CGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGCGAGATGTGAGGGGCACATATCAAGATCGGGAACCA
GCAGAGGGCGCTGGGGAGCGGCATGTACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCAGTACC
TCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCGCAGACCT
GCTGCCCTTCTCGCCACCCCTGACGGCCCTGCCACAGCTCCCCCTGGCTGCTGGGCACACCCCTAT
GCCATCTCCCTCTCCAATTCTCGGCCTCAAGCCATGCCCTTCTTGGCTTTACCACCTGCTTCCCCAG
GGCCGCCCGGGCTTGGCGGCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCG
GCAGAAATTCTCCCCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC224895 protein sequence
 Red=Cloning site Green=Tags(s)

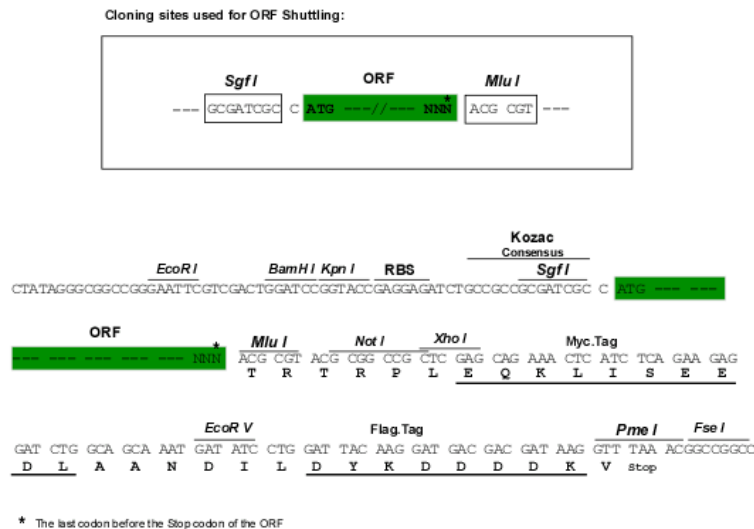
MSGSDGGLLEEEPELSITLRLMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTITGSTA
 AVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGAGTKIKEIRETTGAQVQVAGD
 LLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVQGGYAVTP
 AEVTKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFVLPNDLIGCVIGRQGSKISEIRMSGAHIKIGNQ
 AEGAGERHVTITGSPVSIALAQLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPY
 AISLSNFIGLKMPFLALPPASGPPPLAAYTAKMAAANGSKKAERQKFSKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6152_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033010

ORF Size: 1209 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_033010.2](#)

RefSeq Size: 1982 bp

RefSeq ORF: 1212 bp

Locus ID: 57060

UniProt ID: [P57723](#)

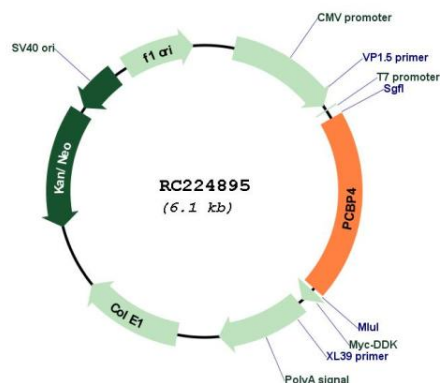
Cytogenetics: 3p21.2

Domains: KH

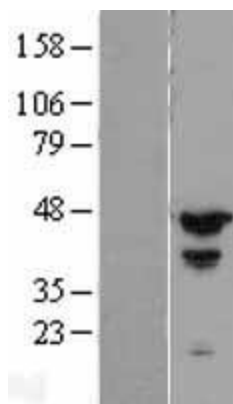
MW: 41.5 kDa

Gene Summary: This gene encodes a member of the KH-domain protein subfamily. Proteins of this subfamily, also referred to as alpha-CPs, bind to RNA with a specificity for C-rich pyrimidine regions. Alpha-CPs play important roles in post-transcriptional activities and have different cellular distributions. This gene is induced by the p53 tumor suppressor, and the encoded protein can suppress cell proliferation by inducing apoptosis and cell cycle arrest in G(2)-M. This gene's protein is found in the cytoplasm, yet it lacks the nuclear localization signals found in other subfamily members. Multiple alternatively spliced transcript variants have been described, but the full-length nature for only some has been determined. [provided by RefSeq, Jul 2008]

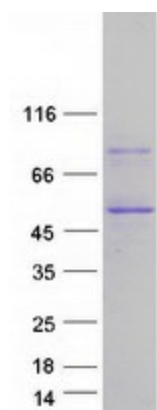
Product images:



Circular map for RC224895



Western blot validation of overexpression lysate (Cat# [LY409760]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224895 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PCBP4 protein (Cat# [TP324895]). The protein was produced from HEK293T cells transfected with PCBP4 cDNA clone (Cat# RC224895) using MegaTran 2.0 (Cat# [TT210002]).