

Product datasheet for **RG224895**

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:	TurboGFP
Symbol:	MCG10
Synonyms:	CBP; LIP4; MCG10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224895 representing NM_033010 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCCCTACGCTGCGGATGCTGA
 TGCACGGGAAGGAAGTGGGCAGCATCATCGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAG
 CAGTGCCCGGATACCATCTCCGAGGGCTCTGCCCTGAACGCATCACCCATCACCGGGTCTACAGCA
 GCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAAGTGGATGAGGACCTTTGTGCTGCTCCTGCAAATG
 GTGAAATGTCTCCAGGCTCCAGTGACCCTGCGCCTTGTATCCCTGCCAGTCAGTGTGGCTCACTGAT
 TGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCAGGTACAGGTGGCAGGGGAC
 CTGCTCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCCTGATGCCATCATCTGTGTGTGC
 GCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCAAAGGAGCCACTATCCCCTACCATCCGAGCCTCTC
 CTTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCCA
 GCTGAGGTCACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTTGCCACACCCAGCGTGGTGCCAG
 GACTGGATCCCGGCACACAGACCAGCTCACAGGAGTCTTGGTTCCCAACGATTTGATTGGCTGTGTGAT
 CGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGCGAGATGTGAGGGGCACATATCAAGATCGGGAACCAA
 GCAGAGGGCGCTGGGGAGCGGCATGTACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCAGTACC
 TCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCGCGCAGACCT
 GGCTGCCCTTCTCGCCACCCCTGACGGCCCTGCCACAGCTCCCCCTGGCTGCTGGGCACACCCCTAT
 GCCATCTCCCTCTCCAATTCTCGGCCTCAAGCCATGCCCTTCTTGGCTTTACCACTGCTTCCCCAG
 GGCCGCCCGGGCTTGGCGGCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCG
 GCAGAAATTCTCCCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224895 representing NM_033010
Red=Cloning site Green=Tags(s)

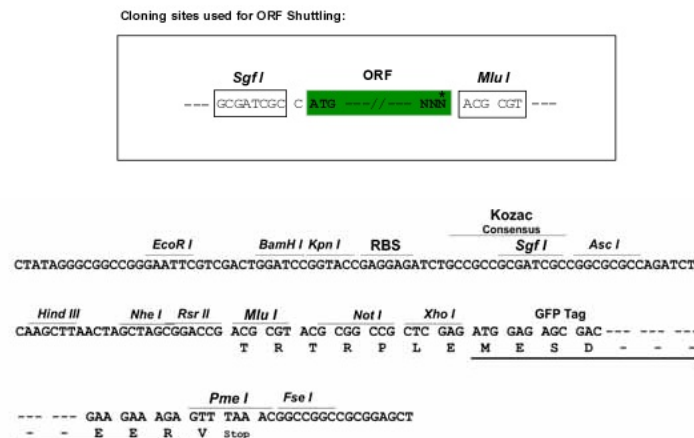
MSGSDGGLEEEPELSITLRLMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTITGSTA
AVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGD
LLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVQGGYGA
AETVKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFVLPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQ
AEGAGERHVTITGSPVSIALAQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPY
ATISLSNFIGLKMPFLALPPASPGPPPGLAAYTAKMAAANGSKKAERQKFSKY

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_033010.2](#)

RefSeq Size: 1962 bp

RefSeq ORF: 1212 bp

Locus ID: 57060

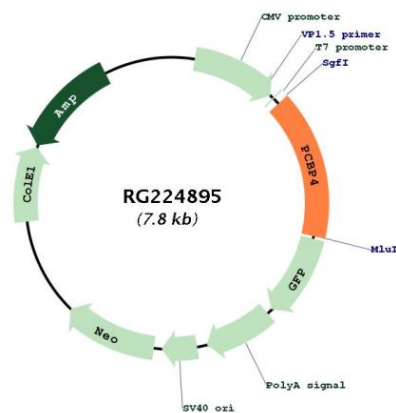
UniProt ID: [P57723](#)

Cytogenetics: 3p21.2

Domains: KH

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 RG224895