

Product datasheet for **RG200749**

MCG10 (PCBP4) (NM_033008) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCG10 (PCBP4) (NM_033008) 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:	>RG200749 representing NM_033008 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCCCTACGCTGCGGATGCTGA
TGCACGGGAAGGAAGTGGGCAGCATCATCGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAG
CAGTGCCCGGATCACCATCTCCGAGGGCTCTGCCCTGAACGCATCACCACCATCACCAGGTCTACAGCA
GCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATG
GTGAAATGTCTCCAGGCTCCAGTGACCCTGCGCCTTGTATCCCTGCCAGTCAGTGTGGCTCACTGAT
TGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCAGGTACAGGTGGCAGGGGAC
CTGCTCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCCTGATGCCATCATCTGTGTGTGC
GCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCCTACCATCCGAGCCTCTC
CCTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCCA
GCTGAGGTCACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTTGCCACACCCAGCGTGGTGCCAG
GACTGGATCCCGGCACACAGACCAGCTCACAGGAGTCTTGGTTCCCAACGATTTGATTGGCTGTGTGAT
CGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGCGAGATGTGAGGGGCACATATCAAGATCGGGAACCAA
GCAGAGGGCGCTGGGGAGCGGCATGTCAACATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCAGTACC
TCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCGCAGACCT
GCTGCCCTTCTCGCCACCCCTGACGGCCCTGCCACAGCTCCCCCTGGCTGCTGGGCACACCCCTAT
GCCATCTCCCTCTCCAATTCTCGGCCTCAAGCCATGCCCTTCTTGGCTTTACCACCTGCTTCCCCAG
GGCCGCCCGGGCTTGGCGGCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCG
GCAGAAATTCTCCCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG200749 representing NM_033008
 Red=Cloning site Green=Tags(s)

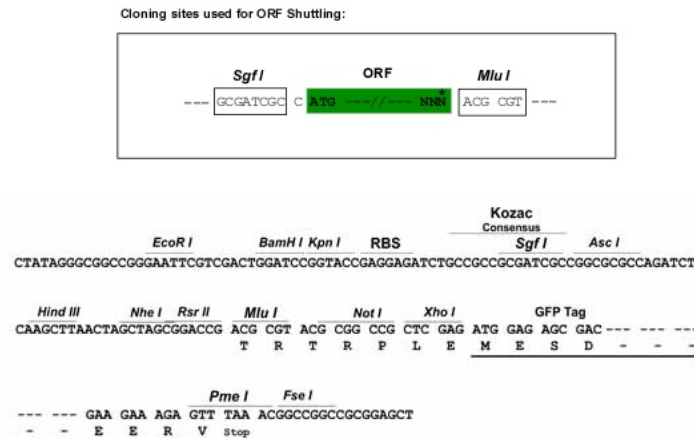
MSGSDGGLEEEPELSITLRLMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTITGSTA
 AVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGD
 LLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVSQGYGAVTP
 AEVTKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQ
 AEGAGERHVTITGSPVSIALAQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPY
 AISLSNFIGLKMPFLALPPASPGPPPGLAAYTAKMAAANGSKKAERQKFSKY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_033008

ORF Size: 1209 bp

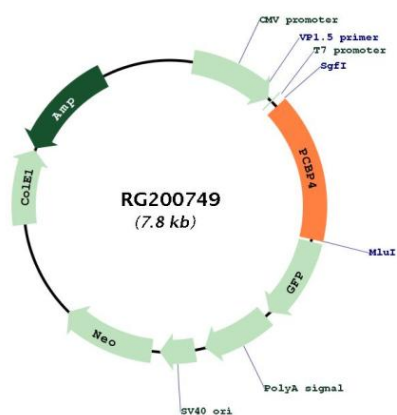
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_033008.3</u>
RefSeq Size:	2033 bp
RefSeq ORF:	1212 bp
Locus ID:	57060
UniProt ID:	<u>P57723</u>
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 RG200749