

Product datasheet for **RG233048**

MCM BP (MCMBP) (NM_001256378) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCM BP (MCMBP) (NM_001256378) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCM BP
Synonyms:	C10orf119; MCM-BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG233048 representing NM_001256378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGTGTGGGAGGATTGGCTCAGCCACCCGCTGGGAATCGTCAGGGATTCTTCGCCCAAAATGGAG
 TTAATCCTGACTGGGAGAAGAAAGTAATTGAGTATTTAAGGAAAAGCTGAAGGAAAATAATGCTCCTAA
 GTGGGTACCATCACTGAACGAAGTTCCCTTCATTATTTGAAACCTAATAGTTTTGTGAAATTCGTTGC
 ATGATTCAGGATATGTTTGACCTGAGTTTTACATGGGAGTTTATGAAACGGTTAACCAAAACACAAAAG
 CACATGTTCTTCATTTTGGAAAATATAGAGATGTAGCAGAGTGTGGCCTCAACAAGAACTTGATTTAA
 CTCTCCACGAAATACCACTTTGAAAGACAGACTTTCTATTGTGTTCCGGTGCCTGGGAATCTACGTGG
 GTAAAAGAAGCCTATGTTAATGCAAAACCAAGCTCGAGTCAGTCCCTCAACATCCTACACTCCTAGTCGCC
 ACAAGAGGAGTTATGAAGATGATGACGATATGGACCTACAGCCAATAAGCAGAAAGACCAACATGCAGG
 TGCCAGACAAGCAGGGAGTGTGGTGGTCTTCAATGGTGTGGAGAGCCAAAACGTTTAGAACTGAAGCT
 TCTACTGGGCAACAGCTGAACCTCTGAACTTGTCTTCTCTTTTGATTGAATTTCCATTGCCAGGAG
 AGAAGGGCCCTGCATGCCTTGTGAAGGTTTATGAAGATTGGGATTGTTTCAAAGTAAATGACATTCTTGA
 GCTATATGGCATACTGTCTGTGGATCCTGTGCTGAGTATACTGAATAATGATGAAAGGGATGCCTCTGCA
 CTGCTGGATCCGATGGAGTGCACAGACACAGCAGAGGAGCAGAGAGTACACAGTCCTCCTGCTTCATTAG
 TGCCGAGAATTCATGTGATCTTAGCCCAAGTTGCAACACATCAACCCATTATTGCCTGCCTGCCTTAA
 CAAAGAGGAGAGCAAAACCTTTGTTTCAAGTTTCATGTCCGAATTGTCTCCAGTCAGAGCAGAATCTT
 GGGTTCCTTACTCATGCCCTTCTGGGGGATAGTTTGGCTGCTGAATACCTTATATTACATCTCATCTCCA
 CAGTATATACAAGAAGAGATGTCTTCCACTAGGAAAATTTACAGTTAACTTGAGTGGTTGCCACGGAA
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 ACTATAGAGAACATGAACCATTTGAAATTCATTCCCCACAAGACTACACAGCCAATCGCTTGGTCAGTG
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 TACCCAGGTGTTCAATGTGACAGCCCTGAGCAACCTCATAACGTGGCAGAAGGTGGATTATGACTTC
 AGCTACCATCAGATGGAATCCCTGCAATATTAACGTTTTCTTACTTCGGAGGGGAGGTCACTCCTCC
 CGGCAGACTGCCAGATTCCTTACAGCCCAGCTAATTCCACCAACATGGAGGAGTACATGAACAGCCT
 TCTCTCAGCGGTGCTGCCTTCCGTGCTGAACAAATCCGCATTTATCTAACTCTTTGAGATTCTTGGA
 TATAGCATATCTGATGAAATAACCAAGGCAGTTGAAGATGACTTTGTGGAATGCGGAAGAACGACCTC
 AGAGCATCACTGCTGATGATCTTACCAGCTGCTCGTGGTGGCTCGGTGTCTGTCTCTCAGTGTGGTCA
 GACAACGCTGTCAAGAGAACGATGGCTGAGAGCAAAAGCAGCTAGAGTCTTTAAGAAGAACAGGGTTCAG
 CAGCAAAATGTGTGAATGGAAATGAACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

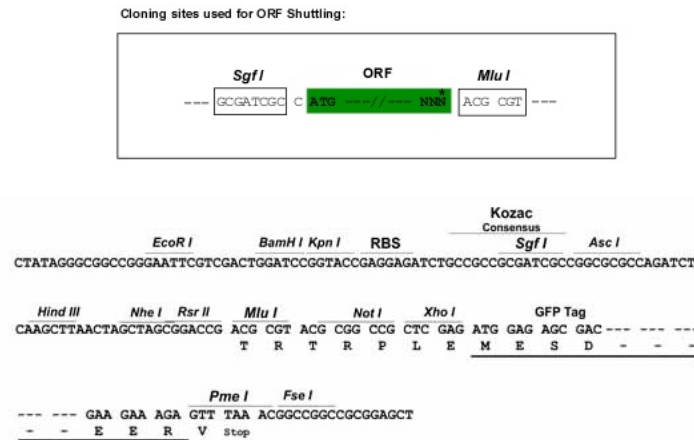
>RG233048 representing NM_001256378
 Red=Cloning site Green=Tags(s)

MPCGEDWLSHPLGIVQGFFAQNGVNPDEKKVIEYFKEKLKENNAPKWVPSLNEVPLHYLKPNSFVKFRC
 MIQDMFDPEFYMGVYETVNQNTKAHVLHFGKYRDAECGPQQELDLNSPRNTTLERQTFYCVVPGESTW
 VKEAYVNANQARVSPSTSYTPSRHKRSYEDDDMDLQPNKQKQDHAGARQAGSVGGLQWCGEPKRLETEA
 STGQQLNSLNLSSPFDLNFPLPGEKGPACLVKVYEDWDCFKVNDILELYGILSVDPLVLSILNNDERDASA
 LLDPMECTDTAEQVRHSPASLVPRIHVILAQKLQHINPLLPACLNKEESKTFVSSFMSELSPVRAELL
 GFLTALLGDSLAAEYLILHLISTVYTRRDVPLGKFTVNLSGCPRNSTFTEHLRYRIIQLHVPASFRLQM
 TIENMNLKFIHPKDYANRLVSGLLQLPSNTSLVIDETLLEQQQLDTPGVHNVTALESNLTWQKVDYDF
 SYHQMEFPCNINVFITSEGRSLLPADCQIHLQPQLIPPNMEEYMNSLLSAVLPSVLNKFRIYLTLLRFL
 YSISDEITKAVEDDFVEMRKNDPQSITADDLHQLLVVARCLSLSAGQTTLRERWLRKQLESRLRRLQ
 QQKCVNGNEL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256378

ORF Size: 1920 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_001256378.2](#)

RefSeq Size: 4292 bp

RefSeq ORF: 1923 bp

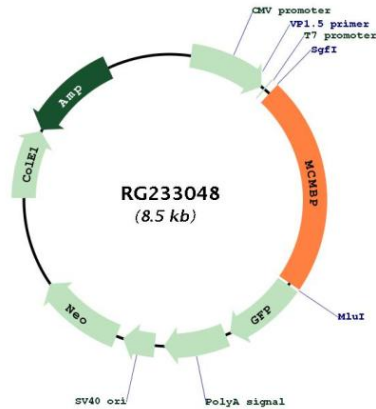
Locus ID: 79892

UniProt ID: [Q9BTE3](#)

Cytogenetics: 10q26.11

Gene Summary: This gene encodes a protein which is a component of the hexameric minichromosome maintenance (MCM) complex which regulates initiation and elongation of DNA. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG233048