

Product datasheet for **RR209531**

Mcmbp (NM_001039608) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcmbp (NM_001039608) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcmbp
Synonyms:	MCM-BP; RGD1306730
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RR209531 representing NM_001039608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCCCTGTGGAGAAGACTGGCTGAGCCACCCGCTCGGGATCGTGCAAGGCTTCTTCGCACAAAATGGAG
 TTA CTCTGACTGGGAGAAGAAAGTTATTGACTACTTCAAGGAGAAGCTGAAGGAAAATAATGCTCCTAA
 ATGGGTACCATCGTTGAATGAAGTCCCCCTTCATTATCTGAAGCCTAACAGCTTTGTCAAGTTCCGTTGC
 ATGATTACAGGATATGTTTGACCCGAGTTTACATGGGCGTTTATGAAACCGTTAACAGAACACAAAAG
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 CTCTCCACGGTCAACCACTTCGAAAGACAGACCTTTTACTGCGTCCAGTGCCTGGGGAATCTTTGTGG
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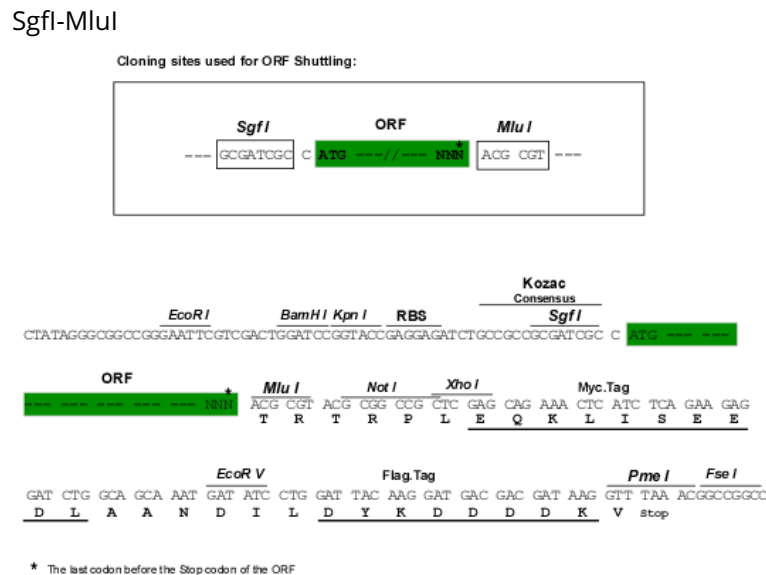
Protein Sequence: >RR209531 representing NM_001039608
 Red=Cloning site Green=Tags(s)

MPCGEDWLSHPLGIVQGFFAQNGVTPDWEKKVIDYFKEKLKENNAPKWVPSLNEVPLHYLKPNSFVKFRC
 MIQDMFDPEFYMGVYETVNQNTKARVLHFGKYRDAECGPQQELDNSPRSTTSERQTFYCVVPGESLW
 VKEAYVNANQARVSPSTSYTPSRHKRSYEDDEDMDLQPNKQKQDQHSRGARQAGGLGGLHWRGEPKRLETEA
 SSGQQLNSLNLSSPFDLNFPLPGEKGPACLVKVYEDWDCFKVNDVLELYGVLSDVPILSILNNEERDASA
 LLDPMECTDMAEEQVRHSPASLVPRIHVILAQKLQHINPLPTCLNKEESRTCQFVSNFMSELSPVRAE
 LLGFLTALLGDSLAAEYLILHLISTVYTRRDVPLGKFTVNLGCPQNSTFTEHLRYIIQHLVPASFRL
 QMTIENMNQLKLIPHKDYTANRLVSGLLQLPNNTSLVIDETLLEQGQLDTPGVHNVAALSNLITWQKVDY
 DFSYHQMEFFPCNINVLITSEGRSLLPADCQIHLQPQLIPPNMEEYMNGLLSAVLPSVLNKFRIYLTLLRF
 LDYNLSDITKAVEDDFVEMRKNDPQSITADDLHQLLVVARFLSLSAGQTTLRERWLRKQLEHSRRSR
 LQQQKSVNGNEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:



ACCN: NM_001039608

ORF Size: 1926 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_001039608.2](#), [NP_001034697.2](#)

RefSeq Size: 2504 bp

RefSeq ORF: 1929 bp

Locus ID: 309009

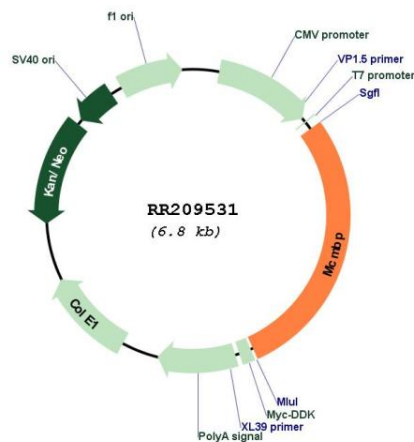
UniProt ID: [B1H268](#)

Cytogenetics: 1q37

MW: 73 kDa

Gene Summary: Associated component of the MCM complex that acts as a regulator of DNA replication. Binds to the MCM complex during late S phase and promotes the disassembly of the MCM complex from chromatin, thereby acting as a key regulator of pre-replication complex (pre-RC) unloading from replicated DNA. Can dissociate the MCM complex without addition of ATP; probably acts by destabilizing interactions of each individual subunits of the MCM complex. Required for sister chromatid cohesion (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209531