

Product datasheet for **RC203630**

MCM7 (NM_182776) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCM7 (NM_182776) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCM7
Synonyms:	CDC47; MCM2; P1.1-MCM3; P1CDC47; P85MCM; PNAS146; PPP1R104
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC203630 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACTGAAGGACTACGCGCTAGAGAAGGAAAAGTTAAGAAGTTCTTACAAGAGTTCTACCAGGATG
 ATGAACTCGGGAAGAAGCAGTTCAAGTATGGGAACCAAGTTGGTTCGGCTGGCTCATCGGGAACAGGTGGC
 TCTGTATGTGGACCTGGACGACGTAGCCGAGGATGACCCCGAGTTGGTGGACTCAATTTGTGAGAATGCC
 AGGCGCTACGCGAAGCTCTTTGCTGATGCCGTACAAGAGCTGCTGCCTCAGTACAAGGAGAGGGAAGTGG
 TAAATAAAGATGTCTGGACGTTTACATTGAGCATCGGCTAATGATGGAGCAGCGGAGTCCGGACCTGG
 GATGGTCCGAAGCCCCAGAACCAGTACCCTGCTGAACTCATGCGCAGATTTGAGCTGTATTTTCAAGGC
 CCTAGCAGCAACAAGCCTCGTGTGATCCGGGAAGTGGGGCTGACTCTGTGGGAAGTTGGTAACTGTGC
 GTGGAATCGTCACTCGTGTCTCTGAAGTCAAACCAAGATGGTGGTGGCCACTTACACTTGTGACCAGTG
 TGGGGCAGAGACCTACCAGCCGATCCAGTCTCCACTTTTCATGCCTCTGATCATGTGCCAAGCCAGGAG
 TGCCAAACCAACCGCTCAGGAGGGCGGCTGTATCTGCAGACACGGGGCTCCAGATTCATCAAATCCAGG
 AGATGAAGATGCAAGAACATAGTGATCAGGTGCCTGTGGGAAATATCCCTCGTAGTATCACGGTGTGGT
 AGAAGGAGAGAACAAGGATTGCCAGCCTGGAGACCAGTCAAGGCTCACTGGTATTTTCTTGCCAATC
 CTGCGCACTGGTTCCGACAGGTGGTACAGGGTTACTCTCAGAAACCTACCTGGAAGCCATCGGATTG
 TGAAGATGAACAAGAGTGAAGTATGAGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAAAT
 TGCAGAGGAGGATTTCTACGAAAAGCTGGCAGCTTCAATCGCCCCAGAAATACGGGCATGAAGATGTG
 AAGAAGGCACTGCTGCTCTGCTAGTGGGGGTGTGGACCAGTCTCCTCGAGGCATGAAAATCCGGGGCA
 ACATCAACATCTGTCTGATGGGGATCCTGGTGTGGCCAAGTCTCAGCTCCTGTACATACATTGATCGAT
 GGCGCCTCGCAGCCAGTACACAACAGCCGGGGCTCCTCAGGAGTGGGGCTTACGGCAGCTGTGCTGAGA
 GACTCCGTGAGTGGAGAAGTACCTTAGAGGGTGGGGCCCTGGTGTGGCTGACCAGGGTGTGTGCTGCA
 TTGATGAGTTCGACAAGATGGCTGAGGCCGACCGCACAGCCATCCACGAGGTCATGGAGCAGCAGACCAT
 CTCCATTGCCAAGGCCGATTCTCACCACACTCAATGCCCGCTGCTCCATCCTGGCTGCCGCCAACCT
 GCCTACGGGCGCTACAACCCTCGCCGACGCTGGAGCAGAACATACAGCTACCTGCTGACTGCTCTCCC
 GGTTTGACCTCCTCTGGCTGATTGAGGACCGCCCGACCGAGACAATGACCTACGGTTGGCCAGCACAT
 TACCTATGTGCACCAGCACAGCCGGCAGCCCCCTCCAGTTTGAACCTCTGGACATGAAGCTCATGAGG
 CGTTACATAGCCATGTGCCGCGAGAAGCAGCCCATGGTGCCAGAGTCTCTGGCTGACTACATCACAGCAG
 CATACTGTGAGATGAGGCGAGAGGCTTGGGCTAGTAAGGATGCCACCTATACTTCTGCCCGACCCCTGCT
 GGCTATCCTGCGCCTTCCACTGCTCTGGCACGCTCTGAGAATGGTGGATGTGGTGGAGAAAGAAGATGTG
 AATGAAGCCATCAGGCTAATGGAGATGTCAAAGGACTCTCTTCTAGGAGACAAGGGGCAGACAGCTAGGA
 CTCAGAGACCAGCAGATGTGATATTTGCCACCGTCCGTGAACTGGTCTCAGGGGGCCGAAGTGTCCGGTT
 CTCTGAGGCAGAGCAGGCTGTGATCTCGTGGCTTACACCCGCCAGTTCCAGGCGGCTCTGGATGAA
 TATGAGGAGCTCAATGTCTGGCAGGTCAATGCTTCCCGACACGGATCACTTTTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203630 protein sequence
Red=Cloning site Green=Tags(s)

MALKDYALEKEKVKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVAEDDPELVDSICENARRYAKLFADAVQELLPOYKEREVVNKDVLDVYIEHRLMMEQSRDPGMVRSPQNQYPAELMRRFELYFQGPSSNKPRVIREVRADSVGKLVTVRGIVTRVSEVKPKMVVATYTCDCQGAETYQPIQSPTFMPLIMCPSQECQTNRSGGRLYLQTRGSRFIKFQEMKMQEHSDDQVPVGNIPRSITVLVEGENTRIAQP GDHVSVTGIFLPI LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDDSEGAGELTREELRQIAEEDFYEKLAASIAPEIYGHEDVKKALLLLLVGGVDQSPRGMKIRGNINICLMGDPGVAKSQLLSYIDRLAPRSQYTTGRGSSVGLTAAVLRDSVSGELTLEGGALVLADQGVCCIDEFDKMAEADRTAIHEVMEQQTISI AKAGILTTLNARCSILAAANPAYGRYNRRSLEQNIQLPAALLSRFDLLWLIQDRPDRDNDLRLAQHITYVHQHSRQPPSQFELPDMKLMRRYIAMCREKQPMVPESLADYITAAVEMRREAWASKDATYTSARTLLAILRLSTALARL RMDVVVEKEDVNEAIRLMEMSKSLLGDKGQTARTQRPADVIFATVRELVSGGRSVRFSEAEQRCVSRGFTPAQFQAALDEYEELNVWQVNASRTRITFV

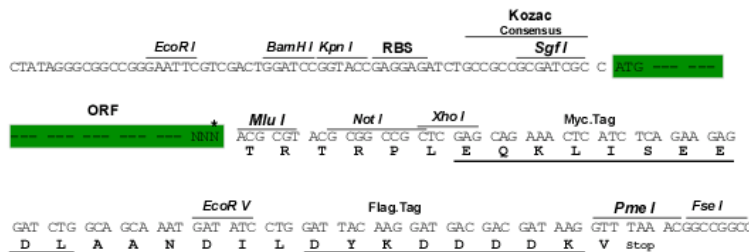
TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6744_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_182776

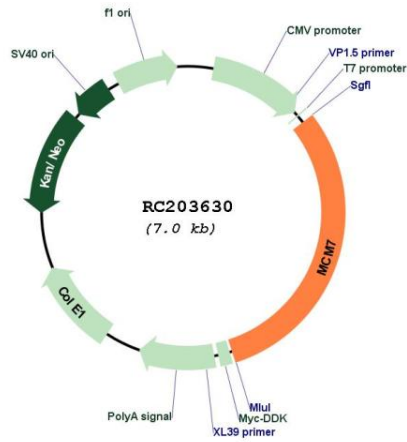
ORF Size: 2160 bp

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:	<ol style="list-style-type: none">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 Size:	2996 bp
RefSeq ORF:	1632 bp
Locus ID:	4176
UniProt ID:	P33993
Cytogenetics:	7q22.1
Protein Families:	Transcription Factors
Protein Pathways:	Cell cycle, DNA replication
MW:	81.3 kDa
Gene Summary:	<p>The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC203630