

## Product datasheet for **RC210269**

### **MCM8 (NM\_032485) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCM8 (NM_032485) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCM8
Synonyms:	C20orf154; dj967N21.5; POF10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC210269 representing NM\_032485  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGGAGAGTATAGAGGCAGAGGATTTGGACGAGGAAGATTTCAAAGCTGGAAAAGGGGAAGAGGTG  
 GTGGGAACCTTCTCAGGAAAATGGAGAGAAAAGAGAACACAGACCTGATCTGAGTAAAACCACAGGAAAACG  
 TACTTCTGAACAAACCCACAGTTTTTGTCTTCAACAAAGACCCACAGTCAATGCAGTCAACATTGGAT  
 CGATTCATACCATATAAAGGCTGGAAGCTTTATTTCTCTGAAGTTTACAGCGATAGCTCTCCTTTGATTG  
 AGAAGATTCAAGCATTGAAAAATTTTCAAGGCATATTGATTTGTATGACAAGGATGAAATAGAAAAG  
 AAAGGGAAGTATTTTGGTAGATTTTAAAGAACTGACAGAAGGTGGTGAAGTAACTAACTTGTATACCAGAT  
 ATAGCAACTGAACTAAGAGATGCACCTGAGAAAACCTTGGCTTGCATGGGTTTGGCAATACATCAGGTGT  
 TAACTAAGGACCTTGAAGGCATGCAGCTGAGTTACAAGCCAGGAAGGATTGTCTAATGATGGAGAAAAC  
 AATGGTAAATGTCCACATATTCATGCAAGGGTGTACAATATGAGCCTTTGACACAGCTCAAGAATGTC  
 AGAGCAAATTACTATGAAAAATACATTGCCTAAGAGGGACAGTGGTTCTGTGTCAGTAATAAAGCCTC  
 TTTGCACCAAGATGGCTTTTCTTTGTGCTGCATGTGGAGAAATTCAGAGCTTTTCTCTTCCAGATGGAAA  
 ATACAGTCTTCCACAAAGTGTCTGTGCTGTGTGTCGAGGCAGGTCATTTACTGCTCTCCGACGCTCT  
 CCTCTCACAGTTCAGATGGACTGGCAGTCAATCAAATCCAGGAATTGATGTCTGATGATCAGAGAGAAG  
 CAGGTCGGATTCCACGAACAATAGAATGTGAGCTTGTTCATGATCTTGTGGATAGCTGTGCCCGGAGAG  
 CACAGTGAATTTACTGGAATTTGCAAAGTCTCAAATGCGGAAGAAGGTTCTCGAAATAAGAATGACAAG  
 TGTATGTTCCTTTTGTATATTGAAGCAAATCTATTAGTAATAGCAAAGGACAGAAAACAAGAGTTCTG  
 AGGTGAAGGTGTAAGCATGGAATTTGATGGAGTCTCACTTAAAGACCTTTATGCCATCCAAGATTTCA  
 AGCTGAAGAAAACCTGTTTAAACTCATTGTCAACTCGCTTTGCCCTGTCAATTTTTGGTCATGAACTTGT  
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 TTCGGGGAGACCCACATCCTTGTGTGGAGATCCAGGCCTAGGAAAAAGTCAAATGCTACAGGCAGC  
 GTGCAATGTTGCCACAGTGGCGTGTATGTTTGTGGTAACACCACGACCACCTCTGGTCTGACGGTAACT  
 CTTTCAAAGATAGTTCTCTGGAGATTTTGTCTTGAAGCTGGTCCCTGTTGTTGTTGATCAAGGTA  
 TTTGTGGAATCGATGAATTTGATAAGATGGGAATCAACATCAAGCCTTGTGGAAGCCATGGAGCAGCA  
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 AATCCAGTTGGAGGACATTACAATAAAGCCAAAACAGTTTCTGAGAATTTAAAAATGGGGAGTGCCTAC  
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 ACATGTGATTGCAATAAGAGCTGAAAAGCAGAGAACCATTAGCAGTGCCACAGTACTCGTATGAATAGT  
 CAAGATTCAAATACTTCCGTAATGAAAGTGTCTGAGAAGCCATTATCAGAAAAGACTAAAGGTGGTTC  
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 GTACCCAAAGGCTATCCACAGAAGCTGCTCGAGTCTTCAAGATTTTTACCTTGAGCTCCGGAAAACAGAGC  
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 CAAGTTGGAATTGAGAGAGGAAGCAACCAAGAAGACGCTGAGGATATAGTGGAAATTAATAAATAAG  
 CATGCTAGGAACCTACTCTGATGAATTTGGGAACCTAGATTTTGTAGCGATCCCAGCATGGTTCTGGAAATG  
 AGCAACAGGTCAACAGCGAAAAGATTTATTTCTGCTCTCAACAACGTTGCTGAAAGAAGTTATAATAATA  
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 TATTGGATCACTAAATGACCAGGTTACCTCTTAAAAAAGGCCAAAAGTTTACCAGCTTCAAATATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC210269 representing NM\_032485  
Red=Cloning site Green=Tags(s)

MNGEYRGRGFGRGRFQSWKRGRRGGGNFSGKWRERHRPDL SKTTGKRTSEQTPQFLLSTKTPQSMQSTLD  
RFIPYKGWKL YFSEVYSDSSPLIEKIQA FEKFFTRHIDL YDKDEIERKGSILVDFKELTEGGEVTNLIPD  
IATELRDAPEKTLACMGLAIHQVLTKDLERHAAELQAQEGLSNDGETMVNVPHIHARVYNYEPLTQLKNV  
RANYYGKYIALRGTVVVRSNIKPLCTKMAFLCAACGEIQSFPLPDGKYSLPTKCPVPVPCRGRSFTALRSS  
PLTVTMDWQSIKIQELMSDDQREAGRIPRTIECELVHDLVDSCVPGDTVITITGIVKVSNAEEGSRNKNDK  
CMFLLYIEANSISNSKGQKTKSSEDGCKHGMLEFSLKDL YAIQEIQA EENL FKLIVNSLCPVIFGHEL V  
KAGLALALFGGSQKYADDKNRIPIRGDPHILVVGDPGLGKSQMLQAACNVAPRGVYVCGNTTTTSGLTVT  
LSKDSSSGDFALEAGALVLGDQGICGIDEFDKMGNHQAL LEAMEQQSISLAKAGVVCSLPARTSIIAAA  
NPVGGHYNKAKTVSENLKMGSA LSRFDLVFILLDTPNEHHDHLLSEHVIAIRAGKQRTISSATVARMNS  
QDSNTSVLEVSEKPLSERLKVVPGETIDPIPHQLLRKYIGYARQYVYPRLSTEAAARVLQDFYLELRKQS  
QRLNSSPITTRQLESLIRL TEARARLEL REEATKEDAEDIVEIMKYSMLGTYSDEFGNLDFERSQHGSGM  
SNRSTAKRFISALNNVAERTYNNIFQFHQLRQIAKELNIQVADFENFIGSLNDQGYLLKKGPKVYQLQTM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8114\\_d07.zip](https://cdn.origene.com/chromatograms/mk8114_d07.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_032485

ORF Size: 2520 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\\_032485.6](#)

**RefSeq Size:** 3704 bp

**RefSeq ORF:** 2523 bp

**Locus ID:** 84515

**UniProt ID:** [Q9UJA3](#)

**Cytogenetics:** 20p12.3

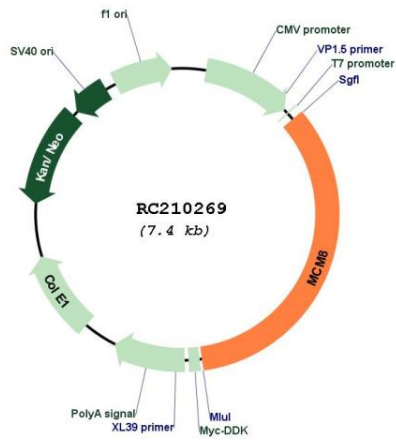
**Domains:** MCM, AAA

**Protein Families:** Transcription Factors

**MW:** 93.5 kDa

**Gene Summary:** 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 mini-chromosome maintenance proteins is a key component of the pre-replication complex and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein contains the central domain that is conserved among the mini-chromosome maintenance proteins. The encoded protein may interact with other mini-chromosome maintenance proteins and play a role in DNA replication. This gene may be associated with length of reproductive lifespan and menopause. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC210269