

Product datasheet for **RC239575**

MCM8 (NM_001281522) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCM8 (NM_001281522) 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:

>RC239575 representing NM_001281522
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGAATGGAGAGTATAGAGGCAGAGGATTTGGACGAGGAAGATTTCAAAGCTGGAAGGGGAAGAGGTG
GTGGGAACCTTCTCAGGAAAATGGAGAGAAAGAGAACACAGACCTGATCTGAGTAAACCACAGGAAAACG
TACTTCTGAACAAACCCACAGTTTTTGTCTTCAACAAAGACCCACAGTCAATGCAGTCAACATTGGAT
CGATTCATACCATATAAAGGCTGGAAGCTTTATTTCTCTGAAGTTTACAGCGATAGCTCTCCTTTGATTG
AGAAGATTCAAGCATTGAAAAATTTTCAAGGCATATTGATTTGTATGACAAGGATGAAATAGAAAAG
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AATGGTAAATGTCCACATATTCATGCAAGGGTGTACAATATGAGCCTTTGACACAGCTCAAGAATGTC
AGAGCAAATTACTATGGAATAACATTGCTCTAAGAGGGACAGTGGTTCGTGTCAGTAATAAAGCCTC
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CAGGTCCGATTCCACGAACAATAGAATGTGAGCTTGTTCATGATCTTGTGGATAGCTGTGCCCGGAGA
CACAGTGACTATTACTGGAATTGTCAAAGTCTCAATGCGGAAGAAGGTTCTCGAAATAAGAATGACAAG
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TGCAATGTTGCCCCACGTGGCGTGTATGTTGTGGTAACACCACGACCCTCTGGTCTGACGGTAACTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239575 representing NM_001281522
 Red=Cloning site Green=Tags(s)

MNGEYRGRGFGRGRFQSWKRGRGGGNFSGKWREREHRPDLSKTTGKRTSEQTPQFLLSTKTPQSMQSTLD
 RFIPYKGWKL YFSEVYSDSSPLIEKIQAFKFFTRHIDL YDKDEIERKGSILVDFKELTEGGEVTNLIPD
 IATELRDAPEKTLACMGLAIHQVLTKDLERHAAELQAQEGLSNDGETMVNVPHIHARVYNYEPLTQLKNV
 RANYYGKYIALRGTVVRVSNIKPLCTKMAFLCAACGEIQSFPLPDGKYSLPTKCPVPVCRGRSFTALRSS
 PLTVTMDWQSIKIQELMSDDQREAGRIPRTIECELVHDLVDSVPGDVTITGIVKVSNAEEGSRNKNDK
 CMFLLYIEANSISNSKGQKTKSSEDGCKHGMLEFSLKDL YAIQEIQAEEENLFKLI VNSLCPVIFGHEAA
 CNVAPRGVYVCGNTTTTSGLTVTL SKDSSSGDFALEAGALVLGDQGICGIDEFDKMGNQHQAALLEAMEQQ
 SISLAKAGVVCSLPARTSIIAAANPVGGHYNKAKTVSENLMKGSALLSRFDLVFILLDTPNEHHDHLLSE
 HVIAIRAGKQRTISSATVARMNSQDSNTSVLEVSEKPLSERLKVVPGETIDPIPHQLLRKYIGYARQYV
 YPRLSTEAAARVLQDFYLELRKQSQRNLNSSIPITTRQLESLIRLTEARARLELREEATKEDAEDIVEIMKYS
 MLGTYSDEFGNLDFERSQHGSGMSNRSTAKRFISALNNVAERTYNNIFQFHQLRQIAKELNIQVADFENF
 IGSLNDQGYLLKKGPKVYQLQTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001281522
ORF Size:	2379 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: [NM_001281522.1](#), [NP_001268451.1](#)

RefSeq Size: 3574 bp

RefSeq ORF: 2382 bp

Locus ID: 84515

UniProt ID: [Q9UJA3](#)

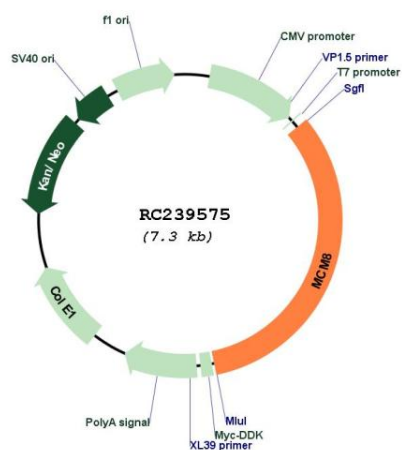
Cytogenetics: 20p12.3

Protein Families: Transcription Factors

MW: 89.2 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 RC239575