

Product datasheet for **RC216686**

MCM8 (NM_182802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCM8 (NM_182802) 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:

>RC216686 representing NM_182802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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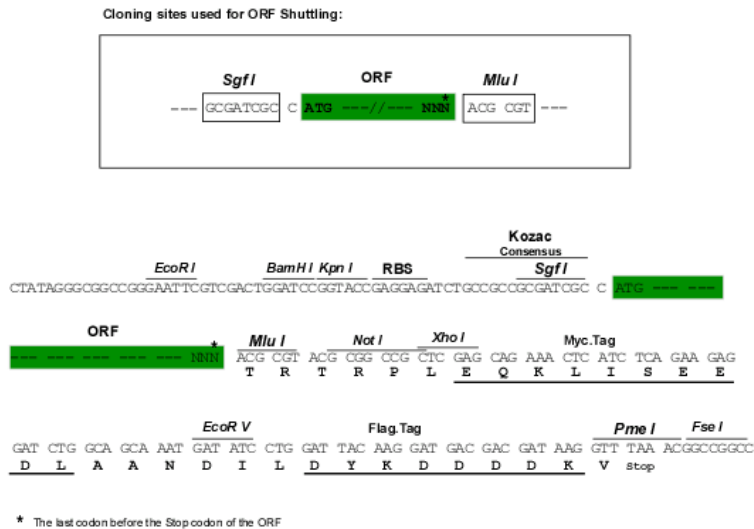
Protein Sequence: >RC216686 representing NM_182802
 Red=Cloning site Green=Tags(s)

MNGEYRGRGFGRGRFQSWKRGRGGGNFSGKWREHREHPDLSKTTGKRTSEQTPQFLLSTKTPQSMQSTLD
 RFIPYKGWKL YFSEVYSDSSPLIEKIQAPEKFFTRHIDL YDKDEIERKGSILVDFKELTEGGEVTNLIPD
 IATELRDAPEKTLACMGLAIHQVLT KDLERHAAELQAQEGLSNDGETMVNVPHIHARVYNYEPLTQLKNV
 RANYYGKYIALRGTVVRVSNIKPLCTKMAFLCAACGEIQSFPLPDGKYSLPTKCPVPVCRGRSFTALRSS
 PLTVTMDWQSIKIQELMSDDQREAGRIPRTIECELVHDLVDSCVPGDTVITIGIVKVSNAEEANSISNSK
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 SERLKVVPGETIDPIPHQLLRKYIGYARQYVYPRLSTEAAARVLQDFYLELRKQSQRNLSSPITTRQLES
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 AERTYNNIFQFHQLRQIAKELNIQVADFENFIGSLNDQGYLLKKGPKVYQLQTM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_182802

ORF Size: 2472 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_182802.3](#)

RefSeq Size: 3710 bp

RefSeq ORF: 2475 bp

Locus ID: 84515

UniProt ID: [Q9UJA3](#)

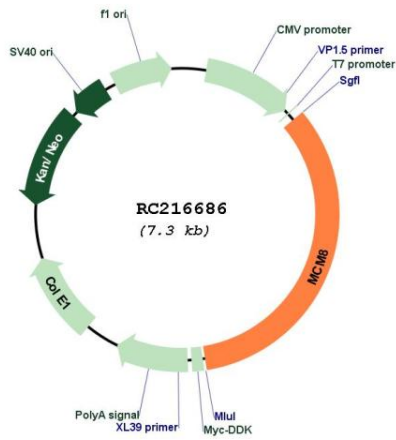
Cytogenetics: 20p12.3

Protein Families: Transcription Factors

MW: 91.6 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 RC216686