

Product datasheet for **RG239725**

MCM8 (NM_001281521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCM8 (NM_001281521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCM8
Synonyms:	C20orf154; dj967N21.5; POF10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239725 representing NM_001281521.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAATGGAGAGTATAGAGGCAGAGGATTTGGACGAGGAAGATTTCAAAGCTGGAAAAGGGGAAGAGGT
GGTGGAACTTCTCAGGAAAATGGAGAGAAAGAGAACACAGACCTGATCTGAGTAAAACACAGGAAAA
CGTACTTCTGAACAAACCCACAGTTTTTGTCTTCAACAAAGACCCACAGTCAATGCAGTCAACATTG
GATCGATTATACCATATAAAGGCTGGAAGCTTTATTTCTCTGAAGTTTACAGCGATAGCTCTCCTTTG
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CAGGTGTTAACTAAGGACCTTGAAGGCATGCAGCTGAGTTACAAGCCAGGAAGGATTGTCTAATGAT
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CATGGTTCTGGAATGAGCAACAGGTCAACAGCGAAAAGATTTATTTCTGCTCTCAACAACGTTGCTGAA
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GCTGATTTTGAATTTTATTGGATCACTAAATGACCAGGTTACCTCTTAAAAAAGGCCAAAAGTT
TACCAGCTTCAAATATG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239725
 Blue=ORF Red=Cloning site Green=Tag(s)

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MNGEYRGRGFGRGRFQSWKRGRGGGNFSGKWREREHPRDL SKTTGKRTSEQTPQFLLSTKTPQSMQSTL
DRFIPYKGWKL YFSEVYSDSSPLIEKIQAFAKFFTRHIDL YDKDEIERKGSILVDFKEL TEGGEVTNLI
PDIA TELRDAPEKTLACMGLAIHQVLTKDLERHAAELQAQEGLSNDGETMVNVPHIHARVYNYEPLTQL
KNVRANYYGKYIALRGTVVRVSNIKPLCTKMAFLCAACGEIQSFPLPDGKYS LPTKCPVPVCRGRSFTA
LRSSPLTVTMDWQSIKIQELMSDDQREAGRIPRTIECELVHDLVDSCVPDGTVTITGIVKVSNAEEGSR
NKNDKCMFLLYIEANSISNSKGQKTKSSEDGCKHGMLMEFSLKDL YAIQEIQAEEENLFKLIWKWSLALS
PRLEYSGAISAHCNLHLPSSNSSPTSACRVAGTTGMRHQ TQLLLL VKAGLALALFGGSQKYADDKNRIP
IRGDPHILVVGDPGLGKSQMLQAACNVAPRGVYVCGNTTTT SGLTVTL SKDSSSGDFALEAGALVLGDQ
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ALLSRFDLVFILLDTPNEHHDHLLSEHVIAIRAGKQRTISSATVARMNSQDSNTSVLEVSEKPLSERL
KVVPGETIDPIPHQLLRKYIGYARQYVYPRLSTEARVLQDFYLELRKQSQR LNSSPITTRQLESLIRL
TEARARLELREEATKEDAEDIVEIMKY SMLGTYSDEFGNLDFERSQHSGSGMSNRSTAKRFISALNNVAE
RTYNNIFQFHQLRQIAKELNIQVADFENFIGSLNDQGYLLKKGPKVYQLQTM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHF KSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001281521

ORF Size: 2640 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).

RefSeq: [NM_001281521.1](#), [NP_001268450.1](#)

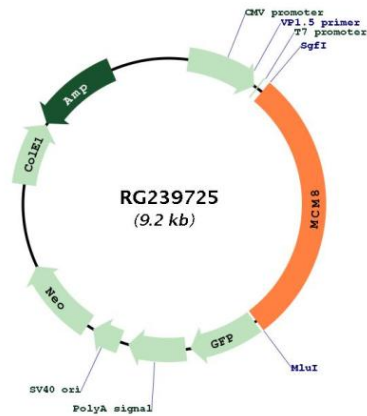
RefSeq Size: 3835 bp

RefSeq ORF: 2643 bp

Locus ID: 84515
UniProt ID: [Q9UJA3](#)
Cytogenetics: 20p12.3
Protein Families: Transcription Factors
MW: 98.4 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 RG239725