

Product datasheet for **RG239575**

MCM8 (NM_001281522) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RG239575 representing NM_001281522.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAATGGAGAGTATAGAGGCAGAGGATTTGGACGAGGAAGATTTCAAAGCTGGAAAAGGGGAAGAGGT
GGTGGAACTTCTCAGGAAAATGGAGAGAAAGAGAACACAGACCTGATCTGAGTAAAACACAGGAAAA
CGTACTTCTGAACAAACCCACAGTTTTTGTCTTCAACAAGACCCACAGTCAATGCAGTCAACATTG
GATCGATTTCATACCATATAAAGGCTGGAAGCTTTATTTCTCTGAAGTTTACAGCGATAGCTCTCCTTTG
ATTGAGAAGATTCAAGCATTTGAAAAATTTTTCACAAGGCATATTGATTTGTATGACAAGGATGAAATA
GAAAGAAAGGGAAGTATTTTGGTAGATTTTAAAGAAGTACAGAAAGTGGTGAAGTAACTAACTTGATA
CCAGATATAGCAACTGAACTAAGAGATGCACCTGAGAAAACCTTGGCTTGCATGGGTTTGGCAATACAT
CAGGTGTTAACTAAGGACCTTGAAGGCATGCAGCTGAGTTACAAGCCAGGAAGGATTGTCTAATGAT
GGAGAAACAATGGTAAATGTGCCACATATTCATGCAAGGGTGTACAATATGAGCCTTTGACACAGCTC
AAGAATGTCAGAGCAAATTAATGAAAATACATTGCTCTAAGAGGGACAGTGGTTCGTGTCAGTAAT
ATAAAGCCTCTTTGCACCAAGATGGCTTTTCTTTGTGCTGCATGTGGAGAAATTCAGAGCTTTCCTCTT
CCAGATGGAAAATACAGTCTTCCACAAAAGTGTCTGTGCCTGTGTGTCGAGGCAGGTCATTTACTGCT
CTCCGCAGCTCTCCTCTCACAGTTACGATGGACTGGCAGTCAATCAAATCCAGGAATTGATGTCTGAT
GATCAGAGAGAAGCAGGTCGGATTCACGAACAATAGAATGTGAGCTTGTTCATGATCTTGTGGATAGC
TGTGTCCCGGGAGACACAGTGACTATTACTGGAATTGTCAAAGTCTCAAATGCGGAAGAAGGTTCTCGA
AATAAGAATGACAAGTGTATGTTCCTTTTGTATATTGAAGCAAATCTATTAGTAATAGCAAAGGACAG
AAAACAAGAGTCTGAGGATGGGTGAAGCATGGAATGTTGATGGAGTTCTCACTTAAAGACCTTTAT
GCCATCCAAGAGATTCAAGCTGAAGAAAACCTGTTTAAACTCATTGTCAACTCGCTTTGCCCTGTCAAT
TTTTGGTCATGAAGCAGCGTGAATGTTGCCACAGTGGCGTGTATGTTTTGTGGTAAACACCACGACCACC
TCTGGTCTGACGGTAACCTTTTCAAAGATAGTTCCTCTGGAGATTTTGTCTTGGAAAGCTGGTGCCTG
GTACTTGGTGATCAAGGTATTTGTGGAATCGATGAATTTGATAAGATGGGAATCAACATCAAGCCTTG
TTGGAAGCCATGGAGCAGCAAAGTATTAGTCTTGTGCTAAGGCTGGTGTGGTTTGTAGCCTTCTGCAAGA
ACTTCCATTATTGCTGCTGCAAATCCAGTTGGAGGACATTACAATAAAGCCAAAACAGTTTCTGAGAA
TTAAAAATGGGGAGTGCACTACTATCCAGATTTGATTTGGTCTTTATCCTGTTAGATACTCAAATGAG
CATCATGATCACTTACTCTGAAATGTGATTGCAATAAGAGCTGAAAAGCAGAGAACCATTAGCAGT
GCCACAGTAGCTCGTATGAATAGTCAAGATTCAAATACTTCCGTAAGTAGTTTCTGAGAAGCCA
TTATCAGAAAGACTAAAGGTGGTTCCTGGAGAAAACAATAGATCCCATTCCCACCAGCTATTGAGAAAG
TACATTGGCTATGCTCGGCAGTATGTGTACCAAGGCTATCCACAGAAGCTGCTCGAGTTCTTCAAGAT
TTTTACCTTGAGCTCCGGAACAGAGCCAGAGGTTAAATAGCTCACCAATCACTACCAGGCAGCTGGAA
TCTTTGATTGCTGACAGAGGCACGAGCAAGGTTGGAATTGAGAGAGGAAGCAACCAAAGAACGCT
GAGGATATAGTGGAAATATGAAATATAGCATGCTAGGAATTAATCTGATGAATTTGGGAACCTAGAT
TTTGAGCGATCCCAGCATGGTCTGGAATGAGCAACAGGTCAACAGCGAAAAGATTTATTTCTGCTCTC
AACACGTTGCTGAAAGAACTTATAATAATATTTCAATTTTCACTCAACTTCGGCAGATTGCCAAAGAA
CTAAACATTCAGGTTGCTGATTTTGAATAATTTTATTGGATCACTAAATGACCAGGTTACCTCTTGAAA
AAAGGCCCAAAAAGTTTACCAGCTTCAAATATG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG239575
 Blue=ORF Red=Cloning site Green=Tag(s)

MNGEYRGRGFGRGRFQSWKRGRGGGNFSGKWREREHDPDLSKTTGKRTSEQTPQFLLSTKTPQSMQSTL
 DRFIPYKGWKL YFSEVYSDSSPLIEKIQAPEKFFTRHIDL YDKDEIERKGSILVDFKEL TEGGEVTNLI
 PDIA TELRDAPEKTLACMGLAIHQVLTKDLERHAAELQAQEGLSNDGETMVNVPHIHARVYNYEPLTQL
 KNVRANYGKYIALRGTVVRVSNIKPLCTKMAFLCAACGEIQSFPLPDGKYSLPKCPVPVCRGRSFTA
 LRSSPLTVTMDWQSIKIQELMSDDQREAGRIPRTIECELVHDLVDSCVPDGTVTITGIVKVSNAEEGSR
 NKNDKCMFLLYIEANSISNSKGQKTKSSEDGCKHGMLEFSLKDL YAIQEIQAEEENLFKLI VNSLCPVI
 FGHEAACNVAPRGVYVCGNTTTTSGLTVTL SKDSSSGDFALEAGALVLDGQIGIDEFDKMGNHQAL
 LEAMEQQSISLAKAGVVCSLPARTSIIAAANPVGGHYNKAKTVSENLMKGSALLSRFDL VFI LL DTPNE
 HHDHLLSEHVIAIRAGKQRTISSATVARMNSQDSNTSVLEVVSEKPLSERLKVVPGETIDPIPHQLLRK
 YIGYARQYVYPRLSTEARVLQDFYLELRKQSQRLNSSPITTRQLESLIRL TEARARLELREEATKEDA
 EDIVEIMKYSMLGTYSDEFGNLDFERSQHGSGMSNRSTAKRFISALNNVAERTYNNIFQFHQLRQIAKE
 LNIQVADFENFIGSLNDQGYLLKKGPKVYQLQTM
TRTRPLEMESDSEGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPED
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-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](#)

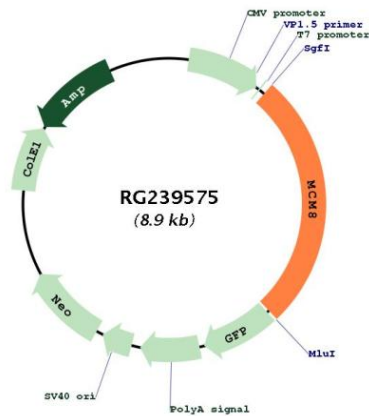
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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 RG239575