

Product datasheet for **SC209347**

MCM4 (NM_182746) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	MCM4 (NM_182746) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MCM4
Synonyms:	CDC21; CDC54; hCdc21; IMD54; NKCD; NKGCD; P1-CDC21
ACCN:	NM_182746
Insert Size:	1412 bp



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Insert Sequence: >SC209347 3'UTR clone of NM_182746
 The sequence shown below is from the reference sequence of NM_182746. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTGACTGGGAAGACCGTGCCTTCTGCTC TGAAGCCTTGTGAGCAAGGAAGGCTCCCTGCATGCCTGCTT
GCTGCACGCCACATGGGTGGTCTGCATCTCAGTTGGCCGCCATCAGTGTAAATAGAGCTTAAAGTCA
TGGTTTGGCTGCATAAAAAATTTCTAAGTGGTTCAATATTTGTAGTGAAGTATCTGTTTTTCAATTTT
TTCACGTTATAAAATAAAATACTATGCTGGCCGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTG
GGAGGCCAATGTGGTGGATCATGAGGTGAGGTTCAAGACCAGCCTAGCCAAGATGGTAAACCCCG
TCTCTAGTAAAGATAACAAAAAATAGTGGGCTTGATGGCATGCGCCTGTAATCCCAGCTACTCGGGA
GGTTGAGGCAGGAGAATCGTTAAACCCAGGCGCAGAGTTGCAGTGAGCCAAGATCGGCCACTGCA
CTCCAGCCTCAGCAATAGAGTGAGACTGTCTCAAAAAAAAAAAAAAAAAAAAAACCTGCCAATTTTCAA
ACATACCGTAGAGATTATTTTCAGGTGCCATTTTATAGTATAGCAGCAGGCTTTTACTCTGTGTATGC
ACAGATGCAGTCTGGGGCATGGTTTGTGTGCTGGACTTCTCATGGCCATCATCAGTATGCTTATGGAT
TTGATGACAGGCATAGCCTGGGCATATCACCTCATTGGTAAAGGGCTAGAGCCTTTCTTTTTTATGGCA
CTTCTTTTTTTGAGATAGGGTCTTACTCTGTCCACTGAGTACACTGGTACAATCACGGCTCAA
TGTAGGCTTAACCTCCTGGGCTCAGGTGTATGTCACTATGCCCGGCTACTTTTTGTATTTTTTGGTAGA
GACGGCTTCGCCACGTTGCCAGGCTGCAAGCGATATGCCTAGGCTCAAGCGATCTGCCACCTCAACT
TCCGGAAGTGTGAGATTACAGGTGTGAGCCACTGCACCCAGCCTTTGTTTTATTTTTATTTTTTGAG
AGGTATGATTCTTTCTAGAGATTTTTTCTCATGGCTACTATTAGATCAGGAATGGTGATTGGAGATTA
TTAGATTCTAGGTAACTTCTACCACTTTACCCTAATACATAAAAACCTTTTCTAAATAAATGATGGAA
GGAATAACTTGGTTACCTGGCATTATTTTTAGTAAGAAAAAGCTTTACTAACCACACTACATTTATG
GAAATTTGTAGGGTAAGTATTTTATAGGTCATAAAAAACACCATAATATAACGAATCTCATTTTCTTT
AAATGTGAATTAATCCTAACAGTCATCTTTATAAAATGACCATAGGCTAAAATCTTACGTGAAGTAC
TACTACAATAAATAATTTCTGAAACCTTTAAA
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_182746.3](#)

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 MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq, Jul 2008]

Locus ID:

4173

MW:

52.7