MCM2 cDNA Clone – Minichromosome Maintenance Complex Component 2 (Human)

PRODUCT OVERVIEW

Product Name	MCM2, cDNA Clone
Full Product Name	MCM2 cDNA Clone
Product Gene Name	MCM2 cdna clone
Sequence	atggcggaat catcggaatc cttcaccatg gcatccagcc cggcccagcg tcggcgaggc aatgatcctc tcacctccag ccctggccga agctcccggc gtactgatgc cctcacctcc agccctggcc gtgaccttcc accatttgag gatgagtccg aggggctcct aggcacagag gggcccctgg aggaagaaga ggatggagag gagctcattg gagatggcat ggaaagggac taccgcgcca tcccagagct ggacgcctat gaggccgagg gactggctct ggatgatgag gacgtagagg agctgacggc cagtcagagg gaggcagcag agcgggccat gcggcagcgt gaccgggagg ctggccgggg cctgggccgc atgcgccgtg ggctcctgta tgacagcgat gaggaggacg aggagcgccc tgcccgcaag cgccgccagg tggagcgggc cacggaggac ggcgaggagg acgaggagat gatcgagagc atcgagaacc tggaggatct caaaggccac tctgtgcgcg agtgggtgag catggcgggc ccccggctgg agatccacca ccgcttcaag aacttcctgc gcactcacgt cgacagccac ggccacaacg tcttcaagga gcgcatcagc gacatgtgca aagagaaccg tgagagcctg gtggtgaact atgaggactt ggcagccagg gagcacgtgc tggcctactt cctgcctgag gcaccggcgg agctgctgca gatctttgat gaggctgccc tggaggtggt actggccatg taccccaagt acgaccgcat caccaaccac atccatgtcc gcatctccca cctgcctctg gtggaggagc tgcgctcgct gaggcagctg catctgaacc agctgatccg caccagtggg gtggtgacca gctgcactgg cgtcctgccc cagctcagca tggtcaagta caactgcaac aagtgcaatt tcgtcctggg tcctttctgc cagtcccaga accaggaggt gaaaccaggc tcctgtcctg agtgccagtc ggccggcccc tttgaggtca acatggagga gaccatctat cagaactacc agcgtatccg aatccaggag agtccaggca aagtggcggc tggccggctg ccccgctcca aggacgccat tctcctcgca gatctggtgg acagctgcaa gccaggagac gagatagagc tgactggcat ctatcacaac aactatgatg gctccctcaa cactgccaat ggcttccctg tctttgccac tgtcatccta gccaaccacg tggccaagaa ggacaacaag gttgctgtag gggaactgac cgatgaagat gtgaagatga tcactagcct ctccaaggat cagcagatcg gagagaagat ctttgccagc attgctcctt ccatctatgg tcatgaagac atcaagagag gcctggctct ggccctgttc ggaggggagc ccaaaaaccc aggtggcaag cacaaggtac gtggtgatat caacgtgctc ttgtgcggag accctggcac agcgaagtcg cagtttctca agtatattga gaaagtgtcc agccgagcca tcttcaccac tggccagggg gcgtcggctg tgggcctcac ggcgtatgtc cagcggcacc ctgtcagcag ggagtggacc ttggaggctg gggccctggt tctggctgac cgaggagtgt gtctcattga tgaatttgac aagatgaatg accaggacag aaccagcatc catgaggcca tggagcaaca gagcatctcc atctcgaagg ctggcatcgt cacctccctg caggctcgct gcacggtcat tgctgccgcc aaccccatag gagggcgcta cgacccctcg ctgactttct ctgagaacgt ggacctcaca gagcccatca tctcacgctt tgacatcctg tgtgtggtga gggacaccgt ggacccagtc caggacgaga tgctggcccg cttcgtggtg ggcagccacg tcagacacca ccccagcaac aaggaggagg aggggctggc caatggcagc gctgctgagc ccgccatgcc caacacgtat ggcgtggagc ccctgcccca ggaggtcctg aagaagtaca tcatctacgc caaggagagg gtccacccga agctcaacca gatggaccag gacaaggtgg ccaagatgta cagtgacctg aggaaagaat ctatggcgac aggcagcatc cccattacgg tgcggcacat cgagtccatg atccgcatgg cggaggccca cgcgcgcatc catctgcggg actatgtgat cgaagacgac gtcaacatgg ccatccgcgt gatgctggag agcttcatag acacacagaa gttcagcgtc atgcgcagca tgcgcaagac ttttgcccgc taccttttcat tccggcgtga caacaatgag ctgttgctct tcatactgaa gcagttagtg gcagagcagg tgacatatca gcgcaaccgc tttggggccc agcaggacac tattgaggtc cctgagaagg acttggtgga taaggctcgt cagatcaaca tccacaacct ctctgcattt tatgacagtg agctcttcag gatgaacaag ttcagccacg acctgaaaag gaaaatgatc ctgcagcagt tctga
Molecular Weight	101,896 Da
OMIM	116945
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MCM2 cdna clone	MBS1272992 is a cDNA clone targeting MCM2.
Other Notes	Small volumes of MCM2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCM2. It may not necessarily be applicable to this product.

NCBI GI #	39645237

NCBI GeneID	4171
NCBI Accession #	BC007938
UniProt Secondary Accession #	Q14577; Q15023; Q8N2V1; Q969W7; Q96AE1; Q9BRM7
UniProt Related Accession #	P49736
NCBI Official Full Name	Homo sapiens minichromosome maintenance complex component 2, mRNA
NCBI Official Synonym Full Names	minichromosome maintenance complex component 2
NCBI Official Symbol	MCM2
NCBI Official Synonym Symbols	BM28; CCNL1; CDCL1; cdc19; DFNA70; D3S3194; MITOTIN
UniProt Protein Name	DNA replication licensing factor MCM2
UniProt Synonym Protein Names	Minichromosome maintenance protein 2 homolog; Nuclear protein BM28
Protein Family	DNA replication licensing factor
UniProt Gene Name	MCM2
UniProt Synonym Gene Names	BM28; CCNL1; CDCL1; KIAA0030
UniProt Entry Name	MCM2_HUMAN
NCBI Protein Information	DNA replication licensing factor MCM2
NCBI Summary for MCM2	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in 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. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]
UniProt Comments for MCM2	MCM2: a mini-chromosome maintenance protein, essential for the initiation of eukaryotic genome replication. Allows DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division. Protein type: EC 3.6.4.12; DNA-binding Chromosomal Location of Human Ortholog: 3q21 Cellular Component: chromatin; cytoplasm; MCM complex; microtubule cytoskeleton; nuclear chromosome, telomeric region; nucleoplasm; nucleus Molecular Function: DNA binding; protein binding Biological Process: cell cycle; DNA replication; DNA replication initiation; G1/S transition of mitotic cell cycle Disease: Deafness, Autosomal Dominant 70
Research Articles on MCM2	**1.** MCM2 expression is higher in ovarian and endometrial high-grade serous carcinomas (HGSC) than in ovarian or endometrial endometrioid carcinoma. Knockdown in ovarian HGSC cell line decreased cell proliferation.
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