

Recombinant Human MCM2, His-tagged

Cat. No. MCM2-28039TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant fragment, corresponding to amino acids 370-904 of Human MCM2 with N terminal His tag; 535 amino acids, 65kDa.

Species Human

Source E.coli

ProteinLength 370-904 a.a.

Description 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.

Conjugation HIS

Form Lyophilised:Reconstitute with 108 µl aqua dest.

Storage buffer Preservative: None
Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	YQNYQRIRIQESPGKVAAGRLPRSKDAILLADLVDSCKPG DEIELTGIYHNNYDGS LN TANGFPVFATVILANHVAKK DNKVAVGELTDEDVKMITSLSKDQQIGEKIFASIAPSIY G HEDIKRGLALALFGGEPKNPGGKHKVVRGDINVLLCGDP GTAKSQFLKYIEKVSSR AIFTTGQGASAVGLTAYVQRH PVSREWTL EAGALVLADRGVCLIDEFDKMNDQDRT SIHEA MEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSL TFSENVDLTEPIISRF DILCVVRDVTDPVQDEMLARFV VGSHVRHHP SNKEEEGLANGSAAEPAMPNTYGV EPLPQEV LKKYIYAKERVHPKLNQMDQDKVAKMYSDLRKESMAT GSIPITVRHIES MIRMAEAHARIHLRDYVIEDDVNMAI RVML ESFIDTQKFSVMRSMRKT FARYLSFRR DNNELLFI LKQLVAEQVTYQRNRF GAQQDTIEVPEKDLVDKARQIN IHNLSAFYDS ELFRMNKFSHDLKRKMILQQF
Sequence Similarities	Belongs to the MCM family.Contains 1 MCM domain.

GENE INFORMATION

Gene Name	MCM2 minichromosome maintenance complex component 2 [Homo sapiens]
Official Symbol	MCM2
Synonyms	MCM2; minichromosome maintenance complex component 2; CCNL1, CDCL1, MCM2 minichromosome maintenance deficient 2, mitotin (S. cerevisiae) , minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin); DNA replication licensing factor MCM2; BM28; cdc
Gene ID	4171
mRNA Refseq	NM_004526

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Protein Refseq	NP_004517
MIM	116945
Uniprot ID	P49736
Chromosome Location	3q21
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of the pre-replicative complex, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA replication origin binding; helicase activity; histone binding;

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