

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: NoneConstituents: 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 HEDIKRLALALFGGEPKNPGGKHKVRGDINVLLCGDP GTAKSQFLKYIEKVSSR AIFTTGQGASAVGLTAYVQRH PVSREWLEAGALVLADRGVCLIDEFDKMNDQDRT SIHEA MEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSL TFSENVDLTEPIISRF DILCVVRDVTDPVQDEMLARFV VGSHVRHHPSNKEEEGLANGSAAEPAMPNTYGV EPLPQEV LKKYIIYAKERVHPKLNQMDQDKVAKMYSDLRKESMAT GSIPITVRHIES MIRMAEAHARIHLRDYVIEDDVNMAI RVMLSEFIDTQKFSVMRSMRKTFFARYLSFRR DNNELLFI LKQLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQIN IHNLSAFYDS ELFRMNKFSDHLKRMILQQF
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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