

Recombinant Human MCM3, His-tagged

Cat. No. MCM3-28038TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 182-808 of Human MCM3 with an N-terminal His tag; Predicted MWt 71kDa.
Species	Human
Source	E.coli
ProteinLength	182-808 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 is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with, and thus is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 84 µl aqua dest
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

NPLETEYGLSVYKDHQTITIQEMPEKAPAGQLPRSDVIL DDDLVDKAKPGDRVQVV
 GTYRCLPGKKGGYTSGTFRTV LIACNVKQMSKDAQPSFSAEDIAKIKKFSKTRSKDI
 FD QLAKSLAPSIHGHYVKKAILCLLLGGVERDLENGSHI RGDINILLIGDPSVAKSQL
 LRYVLCTAPRAIPTTGRGSSG VGLTAAVTTDQETGERRLEAGAMVLADRGVVCIDE
 FDK MSDMDRTAIHEVMEQGRVTIAKAGIHARLNARCSVLAA ANPVYGRYDQYKTP
 MENIGLQDSLLSRFDLLFIMLDQM DPEQDREISDHVLRMHRYRAPGEQDGDAMPL
 GSAVDILAT DDPNFSQEDQQDTQIYEKHDNLLHGTKKKKEKMVSAAF MKKYIHVAKI
 IKPVLQESATYIAEEYSRLRSQDSMSS DTARTSPVTARTLETILRLATAHAKARMSK
 TVDLQDAE EAVELVQYAYFKKVLEKEKKRKKRSEDESETEDEEEKSQEDQEQRK
 RRKTRQPDADGDSYDPYDFSDTEEEMPQVH TPKTADSQETKESQKVELSESRLK
 AFKVALLDVFREAH AQSIGMNRLTESINRDSEEPFSSVEIQAALSKMQDDNQ VMVS
 EGIIFLI

Sequence

Belongs to the MCM family.Contains 1 MCM domain.

Similarities

GENE INFORMATION

Gene Name

[MCM3 minichromosome maintenance complex component 3 \[Homo sapiens \]](#)

Official Symbol

[MCM3](#)

Synonyms

MCM3; minichromosome maintenance complex component 3; MCM3
 minichromosome maintenance deficient 3 (S. cerevisiae) , minichromosome
 maintenance deficient (S. cerevisiae) 3; DNA replication licensing factor MCM3;

Gene ID

[4172](#)

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mRNA Refseq	NM_002388
Protein Refseq	NP_002379
MIM	602693
Uniprot ID	P25205
Chromosome Location	6p12
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; helicase activity; hydrolase activity; nucleotide binding;

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