

Recombinant Human MCM5, His-tagged

Cat. No. MCM5-28041TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 217-734 of Human MCM5 with N terminal His tag; 518 amino acids, 63kDa.
Species	Human
Source	E.coli
ProteinLength	217-734 a.a.
Description	The protein encoded by this gene is structurally very similar to the CDC46 protein from <i>S. cerevisiae</i> , a protein involved in the initiation of DNA replication. The encoded protein is a member of the MCM family of chromatin-binding proteins and can interact with at least two other members of this family. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may actively participate in cell cycle regulation.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 57 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

DKCKCVDFQTLKLQELPDVPHGEMPRHMQLYCDRYLCDK VVPGNRVTIMGIYSIK
 KFGLTTSRGRDRVGVGIRSSYI RVLGIQVDTDGSGRSFAGAVSPQEEEEFRRLAAL
 PNVY EVISKSIAPSIFGGTDMKKAIACLLFGGSRKRLPDGLTRR GDINLLMLGDPGT
 AKSQLLKFVEKCSPIGVYTSKGKSS AAGLTASVMRDPSSRNFIMEGGAMVLADGGV
 VCIDEFD KMREDDRVAIHEAMEQQTISIAGITTTLSRCSVLAAA NSVFGRWDET
 KGEDNIDFMPTILSRFDMIFIVKDEHNE ERDVMLAKHVITLHVSALTQTQAVEGEIDLA
 KLKKFIA YCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDSR RSSIPITVRQLE
 AIVRIAEALSKMKLQPFATEADVEEALR LFQVSTLDAALSGTSLSGVEGFTSQEDQEM
 LSRIEKQLK RRFAIGSQVSEHSIIKDFTKQKYPEHAIHKVLQLMLRR GEIQHRMQRK
 VLYRLK

Sequence Similarities

Belongs to the MCM family.Contains 1 MCM domain.

GENE INFORMATION

Gene Name [MCM5 minichromosome maintenance complex component 5 \[Homo sapiens \]](#)

Official Symbol [MCM5](#)

Synonyms MCM5; minichromosome maintenance complex component 5; CDC46, MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae) , minichromosome maintenance deficient (S. cerevisiae) 5 (cell division cycle 46); DNA replication licensing

Gene ID [4174](#)

mRNA Refseq [NM_006739](#)

Protein Refseq [NP_006730](#)

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MIM	602696
Uniprot ID	P33992
Chromosome Location	22q13.1-q13.2
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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