

Recombinant Human MCM6

Cat. No. MCM6-28042TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MCM6 (aa 1-821) with N-terminal proprietary tag, 116.38 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	821 amino acids
Description	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the 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. The MCM complex consisting of this protein and MCM2, 4 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of the complex by CDC2 kinase reduces the helicase activity, suggesting a role in the regulation of DNA replication.
Molecular Weight	116.380kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MDLAAAEPGAGSQHLEVRDEVAEKCQKLFDFLEEFQSS DGEIKYLQLAEELIRPE RNTLVVSFVDLEQFNQQLSTTIQ EEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAF QDLPTR HKIRELTSSRIGLLTRISGQVVVTHPVHPELVSGTFLCLD CQTVIRDVEQQ FKYTQPNICRNPVCANRRRFLDNTKSRF VDFQKVRIQETQAELPRGSIPRSLEVILR AEAVESAQAGD KCDFTGTLIVVPDVSKLSTPGARAETNSRVSGVDGYETEG IRGLR ALGVRDLSYRLVFLACCVAPTNPFRGGKELRDEEQ TAESIKNQMTVKEWEKVFEM SQDKNLYHNLCTSLFPTIHG NDEVKRGVLLMLFGGVPKTTGEGTSLRGDINVCIVGD PST AKSQFLKHVEEFSPRAYTSGKASSAAGLTAAVVRDEESH EFVIEAGALMLAD NGVCCIDEFDKMDVRDQVAIHEAMEQQ TISITKAGVKATLNARTSILAAANPISGHYD RSKSLKQNI NLSAPIMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIE ESIDRVYSLD DIRRYLLFARQFKPKISKESEDFIVEQYKH LRQRDGSVTKSSWRITVRQLESMIRLS EAMARMHCCDEV QPKHVKEAFRLLNKSIIRVETPDVNLDQEEEEIQMEVDEGA GGIN GHADSPAPVNGINGYNEDINQESAPKASRLRGFSEY CRISNLIVLHLRKVEEEEDES ALKRSELVNWYLKEIESEI DSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTE GSESYEEDPYLVVNPNYLLED
Sequence Similarities	Belongs to the MCM family. Contains 1 MCM domain.

GENE INFORMATION

Gene Name	MCM6 minichromosome maintenance complex component 6 [Homo sapiens]
Official Symbol	MCM6
Synonyms	MCM6; minichromosome maintenance complex component 6; MCM6

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	minichromosome maintenance deficient 6 (MIS5 homolog, <i>S. pombe</i>) (<i>S. cerevisiae</i>) , minichromosome maintenance deficient (mis5, <i>S. pombe</i>) 6 , minichromosome maintenance deficient 6 homolog (<i>S. cer</i>
Gene ID	4175
mRNA Refseq	NM_005915
Protein Refseq	NP_005906
MIM	601806
Uniprot ID	Q14566
Chromosome Location	2q14-q21
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; contributes_to ATP-dependent DNA helicase activity; DNA binding; hydrolase activity; identical protein binding;