

# Recombinant Full Length Human MCM6 Protein, GST-tagged

**Cat. No.** MCM6-6071HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MCM6 full-length ORF ( NP_005906.2, 1 a.a. - 821 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 821 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 119.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MDLAAAAEPGAGSQHLEVRDEVAEKCQKFLDFLEEFQSSDGEIKYLQLAEELIRPE<br>RNTLVVSFVDLEQFNQQLSTTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQ<br>DLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPELVSGTFLCLDCQTVIRDVEQQFK<br>YTQPNICRNPVCANRRRFLD TNKSRFVDFQKVRIQETQAELPRGSIPRSLEVILRAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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AVESAQAGDKCDFTGTLIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALG  
VRDLSYRLVFLACCVAPTNPFRGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDK  
NLYHNLCTSLFPTIHGNDEVKRGVLLMLFGGVPKTTGEGTSLRGDINVCIVGDPSTA  
KSQFLKHVEEFSPRAVYTSKGASSAAGLTAAVVRDEESHEFVIEAGALMLADNGVC  
CIDEFDKMDVRDQVAIHEAMEQQTISITKAGVKATLNARTSILAAANPISGHYDRSKSL  
KQNINLSAPIMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLL  
FARQFKPKISKESEDFIVEQYKHLRQRDGGSGVTKSSWRITVRQLESMIRLSEAMARM  
HCCDEVQPKHVKEAFRLLNKSIIRVETPDVNLQEEEEIQMEVDEGAGGINGHADSPA  
PVNGINGYNEDINQESAPKASRLRGFSEYCRISNLIVLHLRKVEEEEEDESALKRSELV  
NWYLKEIESEIDSEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDP  
YLVVNPNYLLED

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

MCM6 minichromosome maintenance complex component 6 [ Homo sapiens ]

**Official Symbol**

MCM6

**Synonyms**

MCM6; minichromosome maintenance complex component 6; MCM6  
minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae) ,

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minichromosome maintenance deficient (mis5, S. pombe) 6 , minichromosome maintenance deficient 6 homolog (S. cerevisiae); DNA replication licensing factor MCM6; Mis5; MIS5 homolog (S.pombe); MIS5 homolog; minichromosome maintenance deficient 6 homolog; minichromosome maintenance deficient (mis5, S. pombe) 6; MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe); P105MCM; MCG40308;

|                       |                           |
|-----------------------|---------------------------|
| <b>Gene ID</b>        | <a href="#">4175</a>      |
| <b>mRNA Refseq</b>    | <a href="#">NM_005915</a> |
| <b>Protein Refseq</b> | <a href="#">NP_005906</a> |
| <b>MIM</b>            | <a href="#">601806</a>    |
| <b>UniProt ID</b>     | <a href="#">Q14566</a>    |