

# Recombinant Full Length Human MCM7 Protein, GST-tagged

**Cat. No.** MCM7-6072HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Human MCM7 full-length ORF ( AAH09398, 1 a.a. - 389 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>    | 389 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>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 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]</p> |
| <b>Molecular Mass</b>   | 68.53 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVA<br>EDDPELVDSICENARRYAKLFADAVQELLPQYKEREVVNKDVLVDVYIEHRLMMEQRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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RDPGMVRSPQNQYPAELMRRFELYFQGPSSSKPRVIREVRADSVGKLVTVRGIVTR  
VSEVKPKMVVATYTCDCGAETYQPIQSPTFMPLIMCPSQECQTNRSGGRLYLQTR  
GSRFIKFQEMKMQEHSQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPILRT  
GFRQVVQGLLSETYLEAHRIVKMNKSEDDSGAGELTREELRQIADVIFATVRELVS  
GGRSVRFSEAEQRCVSRGFTPAQFQAALDEYEELNVWQVNASRTRITFV

**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**

[MCM7 minichromosome maintenance complex component 7 \[ Homo sapiens \]](#)

**Official Symbol**

[MCM7](#)

**Synonyms**

MCM7; minichromosome maintenance complex component 7; MCM2, MCM7 minichromosome maintenance deficient 7 (*S. cerevisiae*) , minichromosome maintenance deficient (*S. cerevisiae*) 7; DNA replication licensing factor MCM7; CDC47; CDC47 homolog; homolog of *S. cerevisiae* Cdc47; minichromosome maintenance deficient 7; MCM2; P85MCM; P1CDC47; PNAS146; P1.1-MCM3;

**Gene ID**

[4176](#)

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|                |           |
|----------------|-----------|
| mRNA Refseq    | NM_005916 |
| Protein Refseq | NP_005907 |
| MIM            | 600592    |
| UniProt ID     | P33993    |

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