

# Recombinant Full Length Human MCM7 Protein

**Cat. No.** MCM7-300HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human MCM7 with N terminal proprietary tag; Predicted MWt 68.90 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 68.900kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRL AHREQVALYVDLDDV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

AEDDPELVDSICENARRYAKLFADA VQELLPQYKEREVVNKDVLVDVYIEHRLMMEQ  
 RSRDPGMVR SPQNQYPAELMRRFELYFQGPSSSKPRVIREVRADSVGKL VTVRGI  
 VTRVSEVKPKMVVATYTCDQCGAETYQPIQSPTF MPLIMCPSQECQTNRS GGRLYL  
 QTRGSRFIKFQEMKMQEHS DQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPI  
 LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDDSGAGELT REELRQIADVIFATVRE  
 LVSGGRSVRFSEAEQRCVSRGFT PAQFQAALDEYEELNVWQVNASRTRITFV

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

## 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

**Gene ID** [4176](#)

**mRNA Refseq** [NM\\_005916](#)

**Protein Refseq** [NP\\_005907](#)

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| MIM | 600592 |
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| UniProt ID | P33993 |
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