

Recombinant Full Length Human MCM7 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human MCM7 full-length ORF (AAH09398, 1 a.a. - 389 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	389 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 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]
Molecular Mass	68.53 kDa
AA Sequence	MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVA 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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