

# Recombinant Full Length Human MCM7 Protein, C-Flag-tagged

**Cat. No.** MCM7-663HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human MCM7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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 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. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 81.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVA<br>EDDPELVDSICENA RRYAKLFADAVQELLPQYKEREVVNKDVLVDVYIEHRLMMEQR<br>SRDPGMVRSPQNQYPAELMRRFELYFQG PSSNKPRVIREVRADSVGKLVTVRGIV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

TRVSEVKPKMVVATYTC DQCGAETYQPIQSPTFMPLIMCPSQE CQTNRS GGRLYL  
 QTRGSRFIKFQEMKMQEHS DQVPVGNIPRSITVLVEGENTRIA QPGDHVSVTGIFLPI  
 LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDD ESGAGELTREELRQIAEEDFYEKLA  
 ASIAPEIYGHEDV KKALLLLLVGGVDQSPRGMKIRGNINICLMGDPGVAKSQLLSYID  
 RLAPRSQYTTGRGSSGVGLTAAVLR DSVSGELTLEGGALVLADQGVCCIDEFDKMA  
 EADRTAIHEVMEQQTISI AKAGILTTLNARCSILAAANP AYGRYNPRRSLEQNIQLPAA  
 LLSRFDLLWLIQDRPD RDNDLRLAQHITYVHQHSRQPPSQFEPLDMKLMR RYIAMC  
 REKQPMVPESLADYIT AAYVEMRREAWASKDATYTSARTLLAILRLSTALARLRMVD  
 VVEKEDV NEAIRLMEMSKDSL LGDKGQTARTQRPADVIFATVRELVSGGRSVRFSE  
 AEQRCVSRGFTPAQFQAALDE  
 YEELNVWQVNASRTRITFVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Transcription Factors                                                                                                                         |
| <b>Protein Pathways</b> | Cell cycle, DNA replication                                                                                                                   |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

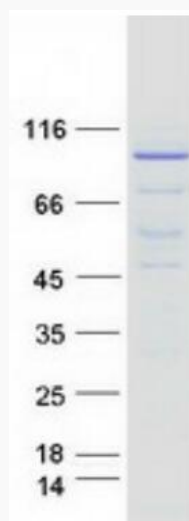
 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

## GENE INFORMATION

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MCM7 minichromosome maintenance complex component 7 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | <b>MCM7</b>                                                                  |
| <b>Synonyms</b>        | MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3                   |
| <b>Gene ID</b>         | 4176                                                                         |
| <b>mRNA Refseq</b>     | NM_005916.5                                                                  |
| <b>Protein Refseq</b>  | NP_005907.3                                                                  |
| <b>MIM</b>             | 600592                                                                       |
| <b>UniProt ID</b>      | P33993                                                                       |



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

Coomassie blue staining of purified MCM7 protein.

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

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