

Recombinant Full Length Human MCM3 Protein, C-Flag-tagged

Cat. No. MCM3-1593HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MCM3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by 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. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with and is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. Several transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	90.8 kDa
AA Sequence	MAGTVVLDDVELREAQRDYLDFLDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRK NEKRANRLLNNAF EELVAFQRALKDFVASIDATYAKQYEEFYVGLGSGFGSKHVSP

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RTLTSCFLSCVVCVEGIVTKCSLVRPK VVRSVHYCPATKKTIERRYSDLTTLVAFPSS
 SVYPTKDEENNPLETEYGLSVYKDHQITIQEMPEKAPA GQLPRSDVILDDDLVDK
 AKPGDRVQVVGTYRCLPGKKGGYTSGETFRTVLIACNVKQMSKDAQPSFSAED IAKI
 KKFSKTRSKDIFDQLAKSLAPSIHGHDYVKKAILCLLLGGVERDLENGSHIRGDINILLI
 GDPSVA KSQLLRYVLCTAPRAIPTTGRGSSGVGLTAAVTTDQETGERRLEAGAMVL
 ADRGVVCIDEFDKMSDMDRT AIHEVMEQGRVTIAKAGIHARLNARCSVLAAANPVY
 GRYDQYKTPMENIGLQDSLLSRFDLLFIMLDQMD PEQDREISDHVLRMHRYRAPGE
 QDGDAMPLGSAVDILATDDPNFSQEDQQDTQIYEKHDNLLHGTTKKKKE KMSAAF
 MKKYIHVAKIIPVLTQESATYIAEEYSRLRSQDSMSSDTARTSPVTARTLETLIRLAT
 AHAK ARMSKTVDLQDAEEAVELVQYAYFKKVLEKEKKRKKRSEDESETEDEEEKS
 QEDQEQRKRKRTRQPDAAK DGDSYDPYDFSDTEEEMPQVHTPKTADSQETKESQ
 KVELSESRLKAFKVALLDVFREAHAAQSIGMNRLTE
 SINRDSEEPFSSVEIQAALSKMQDDNQVMVSEGIIFLITRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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

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Full Length
Full L.

GENE INFORMATION

Gene Name MCM3 minichromosome maintenance complex component 3 [Homo sapiens (human)]

Official Symbol MCM3

Synonyms HCC5; P1.h; RLFB; P1-MCM3

Gene ID 4172

mRNA Refseq NM_002388.6

Protein Refseq NP_002379.4

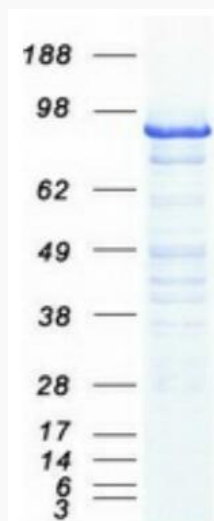
MIM 602693

UniProt ID P25205

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Coomassie blue staining of purified MCM3 protein.

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