

Recombinant Human MCM3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MCM3-486H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MCM3 MS Standard C13 and N15-labeled recombinant protein (NP_002379) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	91 kDa
AA Sequence	MAGTVVLDDVELREAQRDYLDFLDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRK NEKRANRLLNNAFEELVAFQRALKDFVASIDATYAKQYEEFYVGLEGSFGSKHVSPP

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TLTSCFLSCVVCVEGIVTKCSLVRPKVVRSVHYCPATKKTIERRYSDLTTLVAFPSSS
 VYPTKDEENNPLETEYGLSVYKDHQTITIQEMPEKAPAGQLPRSDVILDDDLVDKA
 KPGDRVQVVGTYRCLPGKKGGYTSGETFRTVLIACNVKQMSKDAQPSFSAEDIAKIKK
 FSKTRSKDIFDQLAKSLAPSIHGHDYVKKAILCLLLGGVERDLENGSHIRGDINILLIGD
 PSVAKSQLLRYVLCTAPRAIPTTGRGSSGVGLTAAVTDDQETGERRLEAGAMVLAD
 RGVVCIDEFDKMSDMDRTAIHEVMEQGRVTIAKAGIHARLNARCSVLAANPVYGRY
 DQYKTPMENIGLQDSLLSRFDLLFIMLDQMDPEQDREISDHVLRMHRYRAPGEQDG
 DAMPLGSAVDILATDDPNFSQEDQQDTQIYEKHDNLLHGTTKKKKEKMSAAFMKKYI
 HVAKIIKPVLTQESATYIAEEYSRLRSQDSMSSDTARTSPVTARTLETIRLATAHAKA
 RMSKTVDLQDAEEAVELVQYAYFKKVLEKEKKRKRSEDESETEDEEEKSQEDQEQ
 KRKRKRTRQPDAGDSDYDPYDFSDTEEEMPQVHTPKTADSQETKESQKVELSES
 RLKAFKVALLDVFREAHAQSIGMNRLTESINRDSEEPFSSVEIQAALSKMQDDNQVM
 VSEGIIFLITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol MCM3

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Synonyms MCM3; minichromosome maintenance complex component 3; MCM3 minichromosome maintenance deficient 3 (*S. cerevisiae*), minichromosome maintenance deficient (*S. cerevisiae*) 3; DNA replication licensing factor MCM3; p102; RLF subunit beta; hRlf beta subunit; DNA replication factor MCM3; cervical cancer proto-oncogene 5; minichromosome maintenance deficient 3; replication licensing factor, beta subunit; MCM3 minichromosome maintenance deficient 3; DNA polymerase alpha holoenzyme-associated protein P1; HCC5; P1.h; RLFB; P1-MCM3; MGC1157;

Gene ID 4172

mRNA Refseq NM_002388

Protein Refseq NP_002379

MIM 602693

UniProt ID P25205

SDS-PAGE

