

Product datasheet for PH300208

MCM3 (NM_002388) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MCM3 MS Standard C13 and N15-labeled recombinant protein (NP_002379)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200208
Predicted MW:	91 kDa
Protein Sequence:	>RC200208 protein sequence Red=Cloning site Green=Tags(s)

MAGTVVLLDDVELREAQRDYLDFLDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRKNEKRANRLLNNAF
EELVAFQRALKDFVASIDATYAKQYEEFYVGLGSGFSGKSHVSPRTLSCFLSCVVCVEGIVTKCSLVRPK
VVRSVHYCPATKKTIERYSIDLTLVAFPSSSVYPTKDEENPLETEYGLSVYKDHQTITIQEMPEKAPA
GQLPRSDVILDDDLVDKAKPGDRVQVVGTYRCLPGKGGYTSFTFRTL IACNVKQMSKDAQPSFSAED
IAKIKKFSKTRSKDIFDQLAKSLAPSIHGHDYVKKAILCLLLGGVERDLENGSHIRGDINILLIGDPSVA
KSQLLRYVLCAPRAIPTTGRGSSGVGLTAAVTTDQETGERRLEAGAMVLADRGVVCIDFDKMSMDMRT
AIHEVMEQGRVTIAKAGIHARLNARCSVLAANPVYGRYDQYKTPMENIGLQDSLLSRFDLLFIMLDQMD
PEQDREISDHVLRMHRYRAPGEQDGDAMPLGSAVDILATDDPNFSQEDQDQTIYEKHDNLLHGTHKKKKE
KMVSAAFMKYIHVAKI IKPVL TQESATYIAEEYSRLRSQDSMSSDTARTSPVARTLETIRLATAHAK
ARMSKTVDLQDAEEAVELVQYAYFKKVL EKEKKRKRSEDESETEDEEEKSQEDQEQRKRKRTRQPDAK
DGDSYDPYDFSDTEEMPQVHTPKTADSQETKESQKVELSESRLKAFKVALLDVVFREAHAQSIGMNLTE
SINRDSEEPFSSVEIQAALSKMQDDNQVMVSEGIIFLI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002379



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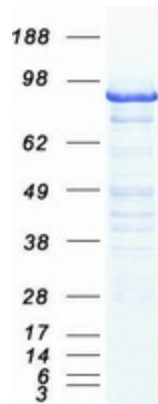
RefSeq Size:	3234
RefSeq ORF:	2424
Synonyms:	HCC5; P1-MCM3; P1.h; RLF8
Locus ID:	4172
UniProt ID:	P25205 , A0A0S2Z4T1
Cytogenetics:	6p12.2

Summary: 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. [provided by RefSeq, Oct 2018]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Cell cycle, DNA replication

Product images:



Coomassie blue staining of purified MCM3 protein (Cat# [TP300208]). The protein was produced from HEK293T cells transfected with MCM3 cDNA clone (Cat# [RC200208]) using MegaTran 2.0 (Cat# [TT210002]).