

Product datasheet for PH313809

MCM7 (NM_005916) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MCM7 MS Standard C13 and N15-labeled recombinant protein (NP_005907)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213809
Predicted MW:	81.1 kDa
Protein Sequence:	>RC213809 representing NM_005916 Red=Cloning site Green=Tags(s)

MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVAEDDPELVDSICENARRYAKLFADAVQELLPQYKEREVYNKDVLDVYIEHRLMMEQSRDPGMVRSQNPQYPAELMRRFELYFQG PSSNKPRVIREVRADSVGKLVTVRGIIVTRVSEVKPKMVVATYTCDCQCGAETYQPIQSPTFMPLIMCPSQE CQTNRSSGRLYLQTRGSRF IKFQEMKMQEHSQVPGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPI LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDDSEGAGELTREELRQIAEEDFYEKLAASIAPEIYGHEDV KKALLLLL VGGVDQSPRGMKIRGNINICLMGDPGVAKSLLSYIDRLAPRSQYTTGRGSSGVGLTAAVLR DSVSGELTEGGALVLADQGVCCIDEFDKMAEADRTAIHEVMEQQTISIAGIL TTLNARCSILAAANP AYGRYNRRSLEQNIQLPAALLSRFDLLWLIQDRPDRDNDLRLAQHITYVHQHSRQPPSQFEP LDMKLMR RYIAMCREKQPMVPE SLADYITAAVEMRREAWASKDATYTSARTLLAILRLSTALARL RMVDVVEKEDV NEAIRL MEMSKD SLLGDKGQTARTQRPADVIFATVREL VSGGRSVRFSEAEQRCVSRGFTPAQFQALDE YEELNVWQVNASRTRITFV

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:	<u>NP_005907</u>



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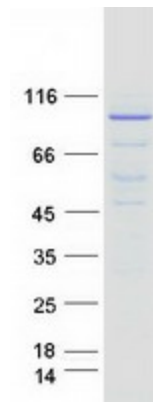
RefSeq Size:	2821
RefSeq ORF:	2157
Synonyms:	CDC47; MCM2; P1.1-MCM3; P1CDC47; P85MCM; PNAS146; PPP1R104
Locus ID:	4176
UniProt ID:	P33993 , A0A0S2Z4A5 , C6EMX8
Cytogenetics:	7q22.1

Summary: 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, Jul 2008]

Protein Families: Transcription Factors

Protein Pathways: Cell cycle, DNA replication

Product images:



Coomassie blue staining of purified MCM7 protein (Cat# [TP313809]). The protein was produced from HEK293T cells transfected with MCM7 cDNA clone (Cat# [RC213809]) using MegaTran 2.0 (Cat# [TT210002]).