

## Product datasheet for PH307097

### MCM6 (NM\_005915) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MCM6 MS Standard C13 and N15-labeled recombinant protein (NP_005906)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207097
Predicted MW:	92.9 kDa
Protein Sequence:	>RC207097 protein sequence Red=Cloning site Green=Tags(s)

MDLAAAEPGAGSQHLEVRDEVAEKCKLFLDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSVFDLEQ  
FNQQLSTTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQ  
VVRTHPVHPELVSGTFLCLDCQTVIRDVEQQFKYTPNICRNPVCANRRRFLDNTKSRFVDFQKVRIQE  
TQAEPRGSIPRSLEVILRAEAVESAQAGDKCDFGTGLIVVPDVSKLSTPGARAE TNSRVSGVDGYETEG  
IRGLRALGVRDLSYRLVFLACCVAPTNPFRGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLVHNL  
CTSLFPTIHGNDEVKRGVLLMLFGGVPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSRAVYTS  
GKASSAAGLTAAVVRDEESHEFVIEAGALMLADNGVCCIDFDMVDRDQVAIHEAMEQQTISITKAGVK  
ATLNARTSILAAANPISGHYDRSKSLKQINLSAPIMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIE  
ESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKHLRQRDGSVTKSSWRITVVRQLES MIRLSEA  
MARMHCCDEVQPKHVKEAFRLNKSIIRVETPDVNL DQEEI IQMEVDEGAGGINGHADSPAPVNGINGYN  
EDINQESAPKASRLRGFSEYCRISNLIVLHLRKEVEEEDSALKRSELVNWYLKEIESEIDSEELINKK  
RIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDPYLVVNPNYLLED

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_005906</a>



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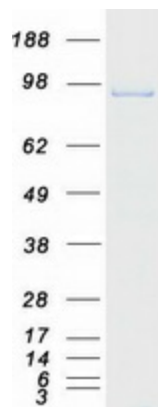
**RefSeq Size:** 3791  
**RefSeq ORF:** 2463  
**Synonyms:** MCG40308; Mis5; P105MCM  
**Locus ID:** 4175  
**UniProt ID:** [Q14566](#)  
**Cytogenetics:** 2q21.3

**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 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of the complex by CDC2 kinase reduces the helicase activity, suggesting a role in the regulation of DNA replication. Single nucleotide polymorphisms in the intron regions of this gene are associated with differential transcriptional activation of the promoter of the neighboring lactase gene and, thereby, influence lactose intolerance in early adulthood. [provided by RefSeq, May 2012]

**Protein Families:** Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Cell cycle, DNA replication

### Product images:



Coomassie blue staining of purified MCM6 protein (Cat# [TP307097]). The protein was produced from HEK293T cells transfected with MCM6 cDNA clone (Cat# [RC207097]) using MegaTran 2.0 (Cat# [TT210002]).