

Recombinant Human MCM6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MCM6-2727H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MCM6 MS Standard C13 and N15-labeled recombinant protein (NP_005906) 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 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.
Molecular Mass	92.9 kDa
AA Sequence	MDLAAAAPGAGSQHLEVRDEVAEKCQKFLDFLEEFQSSDGEIKYLQLAEELIRPE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RNTLVVSFVDLEQFNQQLSTTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQ
 DLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPELVSGTFLCLDCQTVIRDVEQQFK
 YTQPNICRNPVCANRRRFLDNTNKSRLFVDFQKVRIQETQAELPRGSIPRSLEVILRAE
 AVESAQAGDKCDFTGTLIVVPDVS KLSTPGARAETNSRVSGVDGYETEGIRGLRALG
 VRDLSYRLVFLACCVAPTNPFRGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDK
 NLYHNLCTSLFPTIHGNDEVKRGVLLMLFGGVPKTTGEGTSLRGDINVCIVGDPSTA
 KSQFLKHVEEFSPRAVYTSKGASSAAGLTAAVVRDEESHEFVIEAGALMLADNGVC
 CIDEFDKMDVRDQVAIHEAMEQQTISITKAGVKATLNARTSILAAANPISGHYDRSKSL
 KQNINLSAPIMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLL
 FARQFKPKISKESEDFIVEQYKHLRQRDGSVTKSSWRITVRQLESMIRLSEAMARM
 HCCDEVQPKHVKEAFRLLNKSIIRVETPDVNLDQEEEIQMEVDEGAGGINGHADSPA
 PVNGINGYNEDINQESAPKASRLRGFSEYCRISNLIVLHLRKVEEEEDESALKRSELV
 NWYLKEIESEIDSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDP
 YLVVNPNYLLEDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

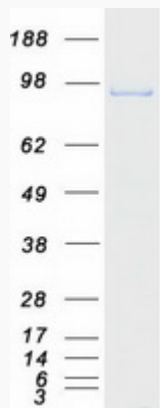
Gene Name

MCM6 minichromosome maintenance complex component 6 [Homo sapiens (human)]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	MCM6
Synonyms	MCM6; minichromosome maintenance complex component 6; MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae), minichromosome maintenance deficient (mis5, S. pombe) 6, minichromosome maintenance deficient 6 homolog (S. cerevisiae); DNA replication licensing factor MCM6; Mis5; MIS5 homolog (S.pombe); MIS5 homolog; minichromosome maintenance deficient 6 homolog; minichromosome maintenance deficient (mis5, S. pombe) 6; MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe); P105MCM; MCG40308;
Gene ID	4175
mRNA Refseq	NM_005915
Protein Refseq	NP_005906
MIM	601806
UniProt ID	Q14566
SDS-PAGE	

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA