

# Recombinant Human MCM4 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MCM4-1384H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	MCM4 MS Standard C13 and N15-labeled recombinant protein (NP_005905) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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 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, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported.</p>
<b>Molecular Mass</b>	96.4 kDa
<b>AA Sequence</b>	MSSPASTPSRRGSRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSP

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GVDLQSPAAQDVLFFSSPPQMHSIAIPLDFDVSSPLTYGTPSSRVEGTPRSGVVRGTP  
 VRQRPDGLGSAQKGLQVDLQSDGAAAEDIVASEQSLGQKLVWGTVDNVAACKENF  
 QRFLQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ  
 LISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQRVFPNALKTKNMRNLNPEDIDQLITI  
 SGMVIRTSQLIPEMQEAFFQCQVCAHTTRVEMDRGRIAEPVCGRCHTTTHSMALIH  
 NRSFLSDKQMIKLQESPEDMPAGQTPHTVILFAHNDLVDKVQPGDRVNVGTGIYRAVP  
 IRVNPVRSNVKSVYKTHIDVIHYRKTDAKRLHGLDEEAEQKLFSEKRVELLKELSRKP  
 DIYERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHTRGRGKFRAEINILLCGDPGTS  
 KSQLLQYVYNLVPRGQYTSKGKSSAVGLTAYVMKDPETRQLVLQTGALVLSDNIGIC  
 CIDEFDKMNESTRSVLHEVMEQQTLIAKAGIICQLNARTSVLAAANPIESQWNPCKT  
 TIENIQLPHTLLSRFDLIFLMLDPQDEAYDRRLAHHLVALYYQSEEQAEELLDMAVL  
 KDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESRLRLAEAHA  
 KVRLSNKVEAIDVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATSRKRKEELAE  
 ALKKLILSKGKTPALKYQQLFEDIRGQSDIAITKDMFEEALRALADDDFLVTGKTVRL  
 LTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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.

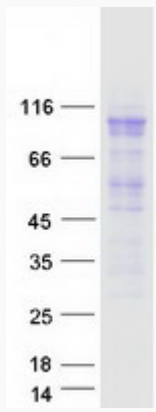
## GENE INFORMATION

**Gene Name** [MCM4 minichromosome maintenance complex component 4 \[ Homo sapiens](#)

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	(human) ]
<b>Official Symbol</b>	<a href="#">MCM4</a>
<b>Synonyms</b>	MCM4; minichromosome maintenance complex component 4; CDC21, MCM4 minichromosome maintenance deficient 4 ( <i>S. cerevisiae</i> ); DNA replication licensing factor MCM4; CDC54; hCdc21; MGC33310; P1 Cdc21; CDC21 homolog; minichromosome maintenance deficient 4; homolog of <i>S. pombe</i> cell division cycle 21; MCM4 minichromosome maintenance deficient 4; CDC21; P1-CDC21;
<b>Gene ID</b>	<a href="#">4173</a>
<b>mRNA Refseq</b>	<a href="#">NM_005914</a>
<b>Protein Refseq</b>	<a href="#">NP_005905</a>
<b>MIM</b>	<a href="#">602638</a>
<b>UniProt ID</b>	<a href="#">P33991</a>
<b>SDS-PAGE</b>	

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