

Product datasheet for TP306122M

MCM4 (NM_182746) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human minichromosome maintenance complex component 4 (MCM4), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206122 protein sequence Red =Cloning site Green =Tags(s)

MSSPASTPSRRGSRRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQSPAAQDVLFS
SPPQMHSIAIPLDFDVSSPLTYGTPSSRVEGTPRSGVVRGTPVRQRPDLGSAQKGLQVDLQSDGAAEDIV
ASEQSLGQKLVWGTVDVNVAAACKENFQRFQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNV
NCEHIKSFDKNLYRQLISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQRPFNALKTKNMRNLNPEDID
QLITISGMVIRTSQLIPEMQEAFQVCQAHTTRVEMDRGRIAEPSVCGRCHTTTHSMALIHNRSLFSDKQ
MIKLQESPDMAGQTPHTVILFAHNDLVQVQPGDRVNVGTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIH
YRKTDAKRLHGLDEEAQKLFSEKRVLLKELSRKPDYERLASALAPSIYEHEDIKKGILLQLFGGTRK
DFSHTGRGKFRAEINILLCGDPGTSKSQLLYVYNLVPRGQYTSKGKSSAVGLTAYVMKDPETRQLVLQT
GALVLSDNIGICIDEFDKMNESTRSVLHEVMEQQTLSIAKAGIICQLNARTSVLAAANPIESQWNPCKTT
IENIQLPHTLLSRFDLIFLMLDPQDEAYDRRLAHLVALYYQSEEQAEELLDMAVLKDYIAYAHSTIMP
RLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESRLAEAHAKVRLSNKVEAIDVEEAKRLHREALK
QSATDPRTGIVDISILTTGMSATSRKRKEELAEALKKLLSKGKTPALKYQQLFEDIRGQSDIAITKDMF
EEALRALADDDFLTGTGKTVRL

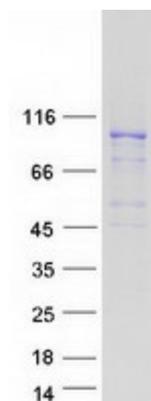
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	96.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_877423
Locus ID:	4173
UniProt ID:	P33991
RefSeq Size:	4800
Cytogenetics:	8q11.21
RefSeq ORF:	2589
Synonyms:	CDC21; CDC54; hCdc21; IMD54; NKCD; NKGCD; P1-CDC21
Summary:	<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. [provided by RefSeq, Jul 2008]</p>
Protein Families:	Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Cell cycle, DNA replication

Product images:

Coomassie blue staining of purified MCM4 protein (Cat# [TP306122]). The protein was produced from HEK293T cells transfected with MCM4 cDNA clone (Cat# [RC206122]) using MegaTran 2.0 (Cat# [TT210002]).