

OriGene Technologies, Inc.

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Product datasheet for TP312292

MCM4 (NM_005914) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins	
Description:	Recombinant protein of human minichromosome maintenance complex component 4 (MCM4), transcript variant 1, 20 µg	
Species:	Human	
Expression Host:	HEK293T	
Expression cDNA Clone or AA Sequence:	>RC212292 representing NM_005914 Red=Cloning site Green=Tags(s)	
	MSSPASTPSRRGSRRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQSPAAQDVLFS SPPQMHSSAIPLDFDVSSPLTYGTPSSRVEGTPRSGVRGTPVRQRPDLGSAQKGLQVDLQSDGAAAEDIV ASEQSLGQKLVIWGTDVNVAACKENFQRFLQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNV NCEHIKSFDKNLYRQLISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDID QLITISGMVIRTSQLIPEMQEAFFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTHSMALIHNRSLFSDKQ MIKLQESPEDMPAGQTPHTVILFAHNDLVDKVQPGDRVNVTGIYRAVPIRVNPRVSNVKSVYKTHIDVIH YRKTDAKRLHGLDEEAEQKLFSEKRVELLKELSRKPDIYERLASALAPSIYEHEDIKKGILLQLFGGTRK DFSHTGRGKFRAEINILLCGDPGTSKSQLLQVVYNLVPRGQYTSGKGSSAVGLTAYVMKDPETRQLVLQT GALVLSDNGICCIDEFDKMNESTRSVLHEVMEQQTLSIAKAGIICQLNARTSVLAAANPIESQWNPKKTT IENIQLPHTLLSRFDLIFLMLDPQDEAYDRRLAHHLVALYYQSEEQAEEELLDMAVLKDYIAYAHSTIMP RLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESLIRLAEAHAKVRLSNKVEAIDVEEAKRLHREALK QSATDPRTGIVDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLFEDIRGQSDIAITKDMF EEALRALADDDFLTVTGKTVRLL	
	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:	<u>NP 005905</u>	
Locus ID:	4173	
UniProt ID:	<u>P33991, B4DLA6</u>	
RefSeq Size:	3533	
Cytogenetics:	8q11.21	
RefSeq ORF:	2589	
Synonyms:	CDC21; CDC54; hCdc21; IMD54; NKCD; NKGCD; P1-CDC21	
Summary: The protein encoded by this gene is one of the highly conserved mini-chromo- maintenance proteins (MCM) that are essential for the initiation of eukaryotic replication. The hexameric protein complex formed by MCM proteins is a key the pre-replication complex (pre_RC) and may be involved in the formation of and in the recruitment of other DNA replication related proteins. The MCM co of this protein and MCM2, 6 and 7 proteins possesses DNA helicase activity, a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase helicase activity and chromatin binding of the MCM complex. This gene is ma on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-active kinase involved in the repair of DNA double-strand breaks. Alternatively splic variants encoding the same protein have been reported. [provided by RefSec		
Protein Families	: Stem cell - Pluripotency, Transcription Factors	
Protein Pathway	vs: Cell cycle, DNA replication	

Product images:

116	_	
66	_	
45	_	
35	-	
25	_	
18	_	
14	-	

Coomassie blue staining of purified MCM4 protein (Cat# TP312292). The protein was produced from HEK293T cells transfected with MCM4 cDNA clone (Cat# [RC212292]) using MegaTran 2.0 (Cat# [TT210002]).

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