

## Product datasheet for TP313809L

### MCM7 (NM\_005916) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human minichromosome maintenance complex component 7 (MCM7), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213809 representing NM_005916 Red=Cloning site Green=Tags(s)

MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVAEDDPELVDSICENARRYAKLFADAVQELLPQYKEREVVKDVLVDVYIEHRLMMEQRSRDPGMVRSQNPQYPAELMRRFELYFQGPSSNKPRVIREVRADSVGKLVTRGIVTRVSEVKPKMVVATYTCDCGAEYQPIQSPTFMPLIMCPSQECQTNRSGGRLYLQTRGSRFIKFQEMKMQEHSDQVPVGNIPRSITVLEVENTRIAQPGDHVSVTGIFLPI LRTGFRQVWQGLLSETYLEAHRIVKMNKSEDDDESGAGELTREELRQIAEEDFYEKLAASIAPEIYGHEDV KKALLLLLVGGVDQSPRGMKIRGNINICLMGDPGVAKSQLLSYIDRLAPRSQYTTGRGSSGVGLTAAVLR DSVSGELTLEGGALVLADQGVCCIDEFDKMAEADRTAIHEVMEQQTISIAGILTTLNARCSILAAANP AYGRYNPRRSLEQNIQLPAALLSRFDLLWLIQDRPDRDNDLRLAQHITYVHQHSRQPPSQFEPLDMKLMR RYIAMCREKQPMVPESLADYITAAYVEMRREAWASKDATYTSARTLLAILRLSTALARLRMVDVVEKEDV NEAIRLMEMSKDSSLGDKGQTARTQRPADVIFATVRELVSGGRSVRFSEAEQRCVSRGFTPAQFQAALDE YEELNVWQVNASRTRITFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

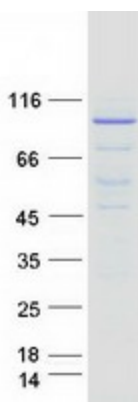
Tag:	C-Myc/DDK
Predicted MW:	81.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005907</a>
<b>Locus ID:</b>	4176
<b>UniProt ID:</b>	<a href="#">P33993</a> , <a href="#">A0A0S2Z4A5</a> , <a href="#">C6EMX8</a>
<b>RefSeq Size:</b>	2821
<b>Cytogenetics:</b>	7q22.1
<b>RefSeq ORF:</b>	2157
<b>Synonyms:</b>	CDC47; MCM2; P1.1-MCM3; P1CDC47; P85MCM; PNAS146; PPP1R104
<b>Summary:</b>	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 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumoursuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, DNA replication

### Product images:



Coomassie blue staining of purified MCM7 protein (Cat# [TP313809]). The protein was produced from HEK293T cells transfected with MCM7 cDNA clone (Cat# [RC213809]) using MegaTran 2.0 (Cat# [TT210002]).