

## Product datasheet for TP510780

### Mcm3 (BC031700) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse minichromosome maintenance deficient 3 (S, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210780 protein sequence Red=Cloning site Green=Tags(s)

MAGTVLDDVELREAQRDYLDFLDDEEDQGIYQNKVRELISDNQYRLIVSVNDLRRKNEKRANRLLNNAF  
EELVAFQRALKDFVASIDATYAKQYEEFYIGLEGSFGSKHVPRTLTSCFLSCVVCVEGIVTKCSLVRPK  
VRSVHYCPATKKTERRYSDLTTLVAFPSVVYPTKDEENPLETEYGLSVYKDHQITIQEMPEKAPA  
GQLPRSDVILDDDLVDKVKPGDRIQVVGTYRCLPGKKGCTSGTFRVLIACNVKQMSKDIQPAFSADD  
IAKIKKFSKTRSKDVFEQLARSLAPSIHGHDYVKKAILCLLLGGVERELENGSHIRGDINILLIGDPSVA  
KSQLLRYVLCTAPRAIPTTGRGSSGVGLTAAVTTDQETGERRLEAGAMVLADRGVVICIDFDMKMSMDRT  
AIHEVMEQGRVTIAKAGIHARLNARCSVLAAANPVYGRYDQYKTPMENIGLQDSLLSRFDLLFIMLDQMD  
PEQDREISDHVLRMHQYRAPGEQDGDALPLGSSVDILATDDPDTQDDQDTRIYEKHDSSLHGTHKKKKE  
KMVSAAFMKKYIHVAKIIPKTLTQESAAYIAEYSRLRSQDSMSSDTARTSPVTARTLETIIRLATAHAK  
ARMSKTVDLQDAEEAVELVQYAYFKKLEKEKKRKKASEDESDLEDEEEKSQEDTEQKRKRKTHAKDGE  
SYDPYDFSEAETQMPQVHTPKTDDSQEKTDSDQETQDSQKVELSEPRLKAFKAALLEVFQEAHEQSVGML  
HLTESINRNREEPFSSEEIQACLSRMQDDNQVMVSEGIVFLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	91.5 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
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 after receiving vials.



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<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>Locus ID:</b>	17215
<b>UniProt ID:</b>	<a href="#">P25206</a>
<b>RefSeq Size:</b>	2899
<b>Cytogenetics:</b>	1 A4
<b>RefSeq ORF:</b>	2436
<b>Synonyms:</b>	P1, p1.m
<b>Summary:</b>	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for DNA replication and cell proliferation. [UniProtKB/Swiss-Prot Function]