

Product datasheet for **MR210820**

Mcm6 (NM_008567) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm6 (NM_008567) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcm6
Synonyms:	ASP-I1; D1Wsu22e; Mcmd6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210820 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGACCTCGCAGCGCCCGGAGCCCGGCCCGGAAGCCAGCACCCGGAGGTGCGCGACGAGGTGGCCG
AGAAATGCCAGAAGCTGTTCTAGACTTCTGGAAGATTCCAGGGTAGTGATGGAGAAATTAATACTT
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TTTAACCAACAACCTTTCTACCACCATTAGGAAGATTCTATAGAGTCTACCCCTACCTGTGTCGAGCCT
TGAAGACCTTTGTCAAAGACCGAAAGGAGATCCCTTTTGCTAAGGATTTTATGTTGCATTCCAAGACCT
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GTGGTGCACACTACCCAGTTCACCTGAGCTTGTGAGTGAACCTTCTGTGCCTTGACTGTCAAACAG
TGATTAAGGACGTAGAGCAGCAGTTCAAATACACACAGCCGAATATCTGCCGAAATCCAGTGTGTCCAA
CAGGAAGAGGTTCTTCTAGACACTAATAAATCAAGATTTGTTGATTTTCAAAGGTTTCGATTCAAGAG
ACTCAAGCGGAACTTCCCGGGGAAGTATTCGCCGGAGTTTAGAGGTTATCCTGAGAGCTGAAGCTGTGG
AGTCAGCCCAAGCTGGTGACAGATGTGATTTACAGGGGCACTGATTGTTGTGCCTGATGTCTCCAAGCT
TAGCACACCAGGAGCACGTGCAGAGACTAACTCCCGAGTCAGTGGAGCTGATGGGTATGAGACAGAAGGC
ATTCGAGGGCTCCGGGCCCTTGGTGTGACAGATCTGTCATACAGGCTGGTCTTCTTGCCTGCCATGTTG
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GAAGATGCCAGCCAGGAGACTGTTTCAAAGCCCTCCCTGAGGCTGGGCTTTGCTGAATACTGCCGAATCT
CGAACCTCATCGTGTCCACCTCAGGAAAATGGAAGAAGAGGAGGACGAGTCGGCACTAAAGAGAAGCGA
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ACGATCATTGAGAAGGTTGTTTCATCGTCTCACACTACGATACGTTCTGATTGAGCTCACCCAGGCTG
GGCTGAAAGGCTCCAGTGAAGGAAGCGAGAGCTATGAGGAAGACCCCTACCTGGTAGTCAACCCTAACTA
CTTGCTTGAAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210820 protein sequence
 Red=Cloning site Green=Tags(s)

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MDLAAAEPGAGSQHPEVRDEVAEKCKQLFLDFLEEFQGSDEIKYLQFAEELIRPERNTLVVSFADLEQ
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VVRTHPVHPELVSGTFLCLDCQTVIKDVEQQFKYTQPNICRNPCANRKRFLDNTNKSRLFVDFQKVRIQE
TQAEPRGSIIPRSLEVILRAEAVESAQAGDRCDFTGALIVVPDVSKLSTPGARAETNSRVSGADGYETEG
IRGLRALGVRDLSYRLVFLACHVAPTNPFRFGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNL
CTSLFPTIHGNDDEVKRGVLLMLFGGVPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVDEFSPRAYTS
GKASSAAGLTAAYVRDEESHEFVIEAGALMLADNGVCCIDEFDKMDMRDQVAIHEAMEQQTISITKAGVK
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ESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKRLRQRDGGSGVTKSSWRITVRQLESMIRLSES
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_008567.2](#), [NP_032593.1](#)

RefSeq Size: 2901 bp

RefSeq ORF: 2466 bp

Locus ID: 17219

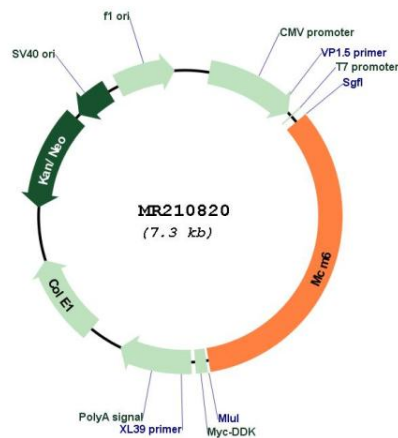
UniProt ID: [P97311](#)

Cytogenetics: 1 55.8 cM

MW: 92.9 kDa

Gene Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210820