

Product datasheet for **MR210780**

Mcm3 (BC031700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm3 (BC031700) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcm3
Synonyms:	P1, p1.m
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210780 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCACAGTAGTCTGGATGATGTGGAGCTGCGGGAAGCGCAGAGAGACTACTTGGACTTCTGG
 ATGACGAGGAGGACCAAGGCATTTACCAGAACAAGGTTTCGGAACTGATCAGTGACAACCAAGTATCGGCT
 GATTGTACAGCGTGAATGACCTGCGCAGGAAGAATGAAAAGAGGGCTAACCGCCTCTGAACAATGCGTTT
 GAGGAGCTGGTTGCCTCCAGCGGGCCTTGAAGGATTTGCTGGCCTCCATTGACGCCACCTACGCCAAGC
 AGTATGAGGAGTTCTACATAGGATTGGAAGGCAGCTTTGGCTCAAAGCACGTTTCTCCCCGACTCTCAC
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 GTCGTTCCGAGTGTCTACTACTGCTGCTACTAAGAAGACCATAGAGCGACGCTACTCTGACCTCACCA
 CCCTAGTGGCTTTCCCATCCAGTCTGTTTATCCACAAAGGATGAGGAGAACAACCCCTGGAGACAGA
 GTATGGCCTGTCTGTCTACAAGGACCACCAGACCATCACCATCCAGGAGATGCCAGAGAAGGCCCTGCT
 GGTGAGCTCCCTCGCTCCGTGGACGTCATTCTAGACGATGACCTGGTGGATAAAGTGAAGCTGGTGACA
 GAATACAGGTGGTGGGACCTACCGCTGCCTCCAGGGAAGAAGGGCTGTACACCTCGGGGACCTTCAG
 GACCGTCTGATTGCCTGTAATGTGAAGCAGATGAGTAAGGATATTCAGCCTGCATTCTCTGCGGACGAT
 ATAGCCAAGATCAAGAAGTTCAGCAAACTCGTCCAAGGATGTCTTTGAGCAGCTGGCCCGGTGTTAG
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 GGAAGTTGAAAACGGCAGCCACATCCGTGGAGACATCAATATTCTTAATAGGTGACCCCTCCGTTGCC
 AAGTCCCAGCTTCTCGGTACGTGCTTTGCACGGCGCCAGGGCCATTCCCACCAGCGGGGCTCTCT
 CTGGAGTGGGTCTCACAGCTGTCTACTACAGACCAGGAAACAGGGGAGCGCCGCTGGAAGCTGGTGC
 TATGGTCTGGCTGACCGTGGAGTGGTTTGCAATTGATGAGTTTGACAAGATGTCTGACATGGACCGCACA
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 CCTGAACAGGATCGGGAGATCTCAGACCAGTCTTAGGATGCACCAATACAGGGCCCCGGGGAGCAGG
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 TCAAGAAGGTTCTGGAGAAGGAGAAGAAACGTAAGAAGGCAAGTGAAGTGAATCAGACCTAGAAGATGA
 AGAGGAAAAGAGCCAGGAAGACTGAGCAGAAGCGGAAAAGGAGGAAGACTCATGCCAAGGATGGAGAG
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 GCTGAAGGCTTTTAAGGCGGCCCTTTAGAAGTGTTCAGGAAGCTCATGACAGTCTGTGGGCATGCTC
 CAGCTCACAGAATCCATCAACCGAATAGAGAAGAGCCTTTCTCCTCAGAGGAAATCCAGGCTTGCTGGA
 GCCGGATGCAGGATGATAACAGGTCATGGTGTCTGAGGGCATCGTCTTCTTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210780 protein sequence

Red=Cloning site Green=Tags(s)

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MAGTVVLDDELREAQRDYLDLDFLDEEDQGIYQNKVRELISDNQYRLIVSVNDLRRKNEKRANRLLNNAF
EELVAFQRALKDFVASIDATYAKQYEEFYIGLEGSFGSKHVSPTLTSCFLSCVVCVEGIVTKCSLVRPK
VVRVSVHYCPATKKTERRYSDLTTLVAFPSSSVYPTKDEENNPLETEYGLSVYKDHQTITIQEMPEKAPA
GQLPRSDVILDDDLDKVKPGDRIQVVGTYRCLPGKKGCYTSFTFRTVLIACNVKQMSKDIQPAFASADD
IAKIKKFSKTRSKDVFEQLARSLAPSIHGHDYVKKAILCLLLGGVERELENGSHIRGDINILLIGDPSVA
KSQLLRYVLCTAPRAIPTTGRGSSGVGLTAAVTTDQETGERRLEAGAMVLADRGVVCIDFDMKMSMDRT
AIHEVMEQGRVTIAKAGIHARLNARCSVLAANPVYGRYDQYKTPMENIGLQDSSLRFDLLFIMLDQMD
PEQDREISDHVLRMHQYRAPGEQDGDALPLGSSVDILATDDPDFTQDDQDTRIYEKHSLLHGTTKKKE
KMVSAAFMKKYIHVAKIIKPTLTQESAAYIAEEYSRLRSQDSMSSDTARTSPVTARTLETIRLATAHAK
ARMSKTVDLQDAEEAVELVQYAYFKKVLKKEKKRKKASEDESDLEDEEEKSQEDTEQKRKRKTHAKDGE
SYDPYDFSEAETQMPQVHTPKTDDSQEKTDSDQETQDSQKVELSEPRLKAFKAALLEVFQEAHEQSVGML
HLTESINRNREEPFSSSEIQACL SRMQDDNQVMVSEGI VFLI
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

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: [BC031700](#), [AAH31700](#)

RefSeq Size: 2899 bp

RefSeq ORF: 2438 bp

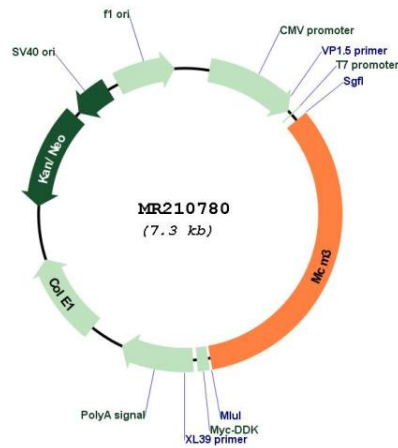
Locus ID: 17215

Cytogenetics: 1 A4

MW: 91.5 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. Required for DNA replication and cell proliferation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210780