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Product datasheet for MR210350

Mcm5 (NM_008566) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Mcm5
Synonyms:	AA617332; AI324988; AL033333; Cdc46; Mcmd5; P1-CDC46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210350 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGGCTTCGACGACCCGGGCATTTTCTACAGCGACAGCTTCGGTGGCGACCCCGGTGCGGAAGAGG
GCCAGGCCCGCAAGTCGCAACTGCAGAGGCGATTCAAGGAGTTCCTGAGACAGTACCGAGTGGGCACCGA
TCGCACGGGCTTCACCTTCAAGTACAGAGATGAACTCAAGCGGCATTACAACCTGGGTGAATACTGGATC
GAGGTGGAGATGGAGGACCTGGCCAGTTTTGACGAGGAACTGGCTGACCACTTGCATAAACAGCCGGCCG
AGCACTTACAGCTGCTTGAGGAAGCTGCCAAGGAGGTGGCAGATGAGGTGACCCGGCCCCGGCCAGCTGG
AGATGAGCTGCTCCAAGACATCCAGGTCATGCTCAAGTCAGATGCCAGCCCGTCGAGCATTCGGATTCTG
AAGTCAGACATGATGTCACACCTGGTGAAGATCCCTGGCATCATCATTTCAGCCTCTGCAGTCCGTGCCA
AGGCTACTCGTATCTCCATTCAGTGCCGCAGCTGCCACAATACCCTCACCAATATCGCCATGCGCCCAGG
CCTAGAGGGCTATGCCCTTCCCAGGAAGTGCAATATGGATCAGGCTGGGCGCCCAAAGTGCCCACTGGAT
CCATACTTCATCATGCCTGACAAGTGCAAGTGTGTGGACTTCCAGACTCTGAAACTGCAGGAGCTGCCTG
ATGCAGTCCCTCATGGTGAGATGCCCAGGCACATGCAGCTTTATTGTGACAGGTACCTGTGTGACAAGGT
TGTTCCTGGGAACAGGGTCACCATCATGGGCATTTATTCCATCAAGAAGTTTGGCTTGAACCCCAGCAAG
GGCCGGGACAGGGTAGGTGTGGGCATCCGGAGCTCGTACATCCGAGTGCTGGGCATCCAGGTGGACACAG
ATGGCTCTGGCCGAAGCTTTGCTGGGTCTGTCAGCCCACAGGAAGAGGAGGAATTTCGTCGCCTGGCTGC
CCTCCCCAACATATATGAGCTCATCTCCAAGAGCATTTCCCCCTCCATCTTTGGGGGCATGGATATGAAG
AAGGCCATTGCCTGCCTGCTTTTTGGGGGTTCCCGGAAGAGGCTCCCAGATGGACTCACTCGCCGAGGTG
ATATCAACTTGCTGATGTTGGGAGACCCTGGTACAGCCAAGTCTCAGCTTCTGAAGTTTGTGGAGAAGTG
CTCTCCCATTGGGGTGTACACATCTGGGAAAGGTAGCAGTGCTGCTGGCTTGACTGCCTCAGTGATACGG
GACCCCTCATCTCGAAACTTCATCATGGAAGGTGGAGCCATGGTTCTGGCCGATGGTGGGGTTGTCTGTA
TTGATGAGTTTGACAAGATGCGGGAAGATGACCGTGTTGCAATCCATGAGGCTATGGAGCAGCAGACCAT
CTCCATTGCTAAAGCTGGGATCACTACCACCTTGAACTCTCGCTGCTCTGTTCTGGCTGCAGCCAACTCA
GTGTTTGGCCGATGGGATGAGACAAAAGGGGAGGACAATATTGACTTCATGCCTACCATCTTGTCCCGAT
TTGATATGATCTTCATCGTCAAAGATGAGCACAATGAGGAGAGGGACATGATGCTAGCCAAACATGTGAT
GACTCTGCATGTGAGTGCACTGACACAGACACAGGCTGTGGAGGGTGAGATCGACCTGGCCAAGATGAAG
AAGTTCATTGCCTACTGCCGAGCGAGGTGTGGACCTCGGCTATCAGCAGAGGCAGCAGAGAAGCTGAAAA
ACCGCTACATCATCATGCGGAGTGGGGCTCGTCAGCATGAGAGGGACAGTGACCGGCGTTCCAGCATCCC
CATCACTGTGCGGCAGCTGGAGGCTATTGTGCGCATTGCTGAGGCCCTCAGTAAGATGAAACTGCAGCCC
TTTGCCACTGAGGCTGATGTAGAGGAGGCATTGAGACTGTTCCAGGTGTCCACACTGGATGCTGCTTTGT
CTGGCAATCTGTCGGGGGTGGAGGGCTTCACTACCCAGGAGGACCAGGAGATGCTGAGCCGCATTGAGAA
GCAACTCAAGCGCCGTTTTGCCATTGGCTCTCAGGTGTCTGAACACAGCATTGTCCAGGACTTCACCAAA
CAGAAATATCCAGAGCACGCTATCCGAAAGGTGCTGCAGCTCATGCTACGCAGGGGTGAGATCCAACACC
GTATGCAGCGCAAGGTGCTCTATCGCCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

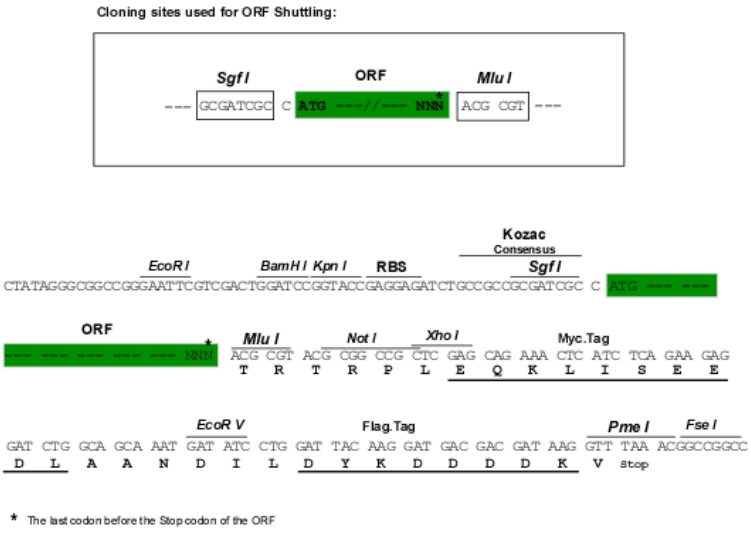
>MR210350 protein sequence
Red=Cloning site Green=Tags(s)

MSGFDDPGIFYSDSFGGDPGAEEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWI
EVEMEDLASFDEELADHLHKQPAEHLQLLEEAAKEVADEVTRPRPAGDELLQDIQVMLKSDASPSSIRIL
KSDMMSHLVKIPGIIISASAVRAKATRISIQCRSCHNTLTNIAMRPGLEGYALPRKCNMDQAGRPKCPLD
PYFIMPDKCKCVDFQTLKLQELPDAVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLNPSK
GRDRVGVGIRSSYIRVLGIQVDTDGSGRSFAGSVSPQEEEEFRRLAALPNIYELISKSISPSIFGGMDMK
KAIACLLFGGSRKRLPDGLTRRGDINLLMLGDPGTAKSQLLKFVEKCSPIGVYTSGKGSSAAGLTASVIR
DPSSRNFIMEGGAMVLADGGVVCIDEFDKMREDDRVAIHEAMEQQTISIAKAGITTTLNSRCSVLAAANS
VFGRWDETKGEDNIDFMPTILSRFDMIFIVKDEHNEERDMMLAKHVMTLHVSALTQTQAVEGEIDLAKMK
KFIAYCRARCGPRLSAEAAEKLKNRYIIMRSGARQHERDSDRRSSIPITVRQLEAIVRIAEALSKMKLQP
FATEADVEEALRLFQVSTLDAALSGNLSGVEGFTTQEDQEMLSRIEKQLKRRFAIGSQVSEHSIVQDFTK
QKYPEHAIRKVLQLMLRRGEIQHRMQRKVLYRLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008566

ORF Size: 2202 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_008566.3, NP_032592.2
RefSeq Size:	3422 bp
RefSeq ORF:	2205 bp
Locus ID:	17218
UniProt ID:	P49718
Cytogenetics:	8 C1
MW:	82.4 kDa
Gene Summary:	The protein encoded by this gene is a member of the oligameric minichromosome maintenance protein complex. During DNA replication, the complex loads onto chromatin in early G1 and is converted into an active replicative helicase during S phase. It functions to limit DNA synthesis to once per cell cycle. During embryogenesis, the encoded protein is negatively regulated through expression of paired box protein Pax 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

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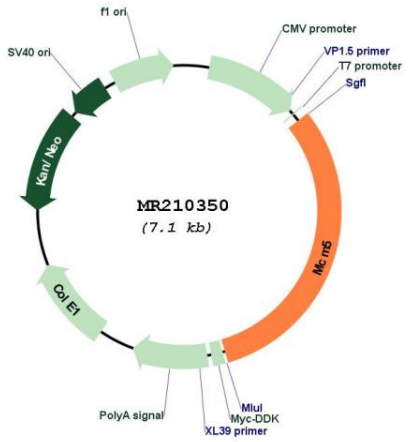
Product images:



Circular map for MR210350

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