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Product datasheet for MC221157

Mcm5 (NM_008566) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm5 (NM_008566) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC221157 representing NM_008566
Red=Cloning site Blue=ORF Orange=Stop codon

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
GTATGCAGCGCAAGGTGCTCTATCGCCTCAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008566

Insert Size: 2205 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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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.
RefSeq:	NM_008566.3, NP_032592.2
RefSeq Size:	3441 bp
RefSeq ORF:	2205 bp
Locus ID:	17218
UniProt ID:	P49718
Cytogenetics:	8 C1
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] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.

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