

Product datasheet for **MC228811**

Mcm5 (NM_001302540) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm5 (NM_001302540) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcm5
Synonyms:	AA617332; AI324988; AL033333; Cdc46; Mcmd5; P1-CDC46
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228811 representing NM_001302540
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGGCTTCGACGACCCGGCATTCTACAGCGACAGCTTCGGTGGCGACCCGGTGC GGAAGAGG
 GCCAGGCCGCAAGTCGCAACTGCAGAGGCGATTCAAGGAGTTCTGAGACAGTACCGAGTGGCACCGA
 TCGCACGGGCTTCACTTCAAGTACAGAGATGAACTCAAGCGGCATTACAACCTGGTGAATACTGGATC
 GAGGTGGAGATGGAGGACCTGGCCAGTTTTGACGAGGAACTGGCTGACCACTTGCCATAAACAGCCGGCCG
 AGCACTTACAGCTGCTTGAAGAGCTGCCAAGGAGGTGGCAGATGAGGTGACCCGGCCCCGGCCAGCTGG
 AGATGAGCTGCTCAAGACATCCAGGTCACTGCTCAAGTCAGATGCCAGCCCGTCGAGCATTCCGATTCTG
 AAGTCAGACATGATGTCACACCTGGTGAAGATCCCTGGCATCATTTTCAGCCTCTGCAGTCCGTGCCA
 AGGCTACTCGTATCTCCATTCAGTGCCGAGCTGCCACAATACCCTCACCAATATCGCCATGCGCCGAGG
 CCTAGAGGGCTATGCCCTCCCAGGAAGTGAATATGGATCAGGCTGGGCGCCAAAGTGCCCACTGGAT
 CCATACTTCATCATGCCTGACAAGTGAAGTGTGTGGACTTCCAGACTCTGAAACTGCAGGAGCTGCCTG
 ATGCAGTCCCTCATGGTGAAGTGCACAGGCACATGCAGCTTTATTGTGACAGGTACCTGTGTGACAGGT
 TGTTCCTGGGAACAGGGTACCATCATGGGCATTTATTCCATCAAGAAGTTTGGCTTGAACCCAGCAAG
 GGCCGGGACAGGGTAGGTGTGGGCATCCGGAGCTCGTACATCCGAGTGTGGGCATCCAGGTGGACACAG
 ATGGCTCTGGCCGAAGCTTTGCTGGGTCTGTGAGCCACAGGAAGAGGAGGAATTCGTCGCTGGCTGC
 CCTCCCCAACATATAGACTCATCTCCAAGAGCATTTCCCCCTCCATCTTTGGGGGCATGGATATGAAG
 AAGGCCATTGCCTGCCTGCTTTTTGGGGTTCCCGAAGAGGCTCCAGATGGACTCACTCGCCGAGGTG
 ATATCAACTTGTGATGTTGGGAGACCCTGGTACAGCCAAGTCTCAGCTTCTGAAGTTTGTGGAGAAGT
 CTCTCCCATTTGGGGTGTACACATCTGGAAAGGTAGCAGTGTGCTGGCTTACTGCTCAGTGCATACGG
 GACCCCTCATCTCGAAACTTCATCATGGAAGGTGGAGCCATGGTTCTGGCCGATGGTGGGTTGTCTGTA
 TTGATGAGTTTGACAAGATGCGGGAAGATGACCGTGTGCAATCCATGAGGCTATGGAGCAGCAGACCAT
 CTCCATTGCTAAAGCTGGGATCACTACCACCTGAACTCTCGCTGCTGTTCTGGCTGCAGCCAACTCA
 GTGTTTGGCCGATGGGATGAGACAAAAGGGGAGGACAATATTGACTTCATGCCTACCATCTTGTCCCGAT
 TTGATATGATCTTCATCGTCAAAGATGAGCACAATGAGGAGAGGGACATGATGCTAGCCAAACATGTGAT
 GACTCTGCATGTGAGTGCAGTGCACAGACACAGGCTGTGGAGGGTGGATCGACCTGGCCAAGATGAAG
 AAGTTCATTGCCACTGCGGAGCGAGGTGTGGACCTCGGCTATCAGCAGAGGCAGCAGAGAAGCTGAAAA
 ACCGCTACATCATCATGCGGAGTGGGGCTCGTACGATGAGAGGGACAGTGACCCGCGTTCCAGCATCCC
 CATCACTGTGCGGAGCTGGAGGCTATTGTGCGCATTGCTGAGGCCCTCAGTAAGATGAAACTGCAGCCC
 TTTGCCACTGAGGCTGATGTAGAGGAGGCACTGAGACTGTTCCAGGTGTCCACACTGGATGCTGCTTTGT
 CTGGCAATCTGTGCGGGGTGGAGGGCTTCACTACCCAGGAGGACCAGGAGATGCTGAGCCGATTGAGAA
 GCAACTCAAGCGCCGTTTTGCCATTGGCTCTCAGGTGTCTGAACACAGCATTGTCCAGGACTTACCCAAA
 CAGAAATATCCAGAGCACGCTATCCGAAAGGTGCTGCAGCTCATGCTACGCAGGGGTGAGATCCAACACC
 GTATGCAGCGCAAGGTGCTCTATCGCCTCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001302540
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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001302540.1</u> , <u>NP_001289469.1</u>
RefSeq Size:	3417 bp
RefSeq ORF:	2205 bp
Locus ID:	17218
UniProt ID:	<u>P49718</u>
Cytogenetics:	8 C1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>