

Product datasheet for **MC205531**

Mcm3 (NM_008563) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm3 (NM_008563) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcm3
Synonyms:	AL033361; C80350; Mcmd; P1; P1-MCM3; p1.m
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031700
 GCGACATGGCGGGCACAGTAGTGCTGGATGATGTGGAGCTGCGGGAAGCGCAGAGAGACTACTTGGACTT
 CCTGGATGACGAGGAGGACCAAGGCATTTACCAGAAACAAGTTCCGGAACTGATCAGTGACAACCAAGTAT
 CGGCTGATTGTCAGCGTGAATGACCTGCGCAGGAAGAATGAAAAGAGGGCTAACCGCTCCTGAACAATG
 CGTTTGAGGAGCTGGTTGCCTCCAGCGGGCCTTGAAGGATTTGTTGGCTCAAAGCACGTTTCTCCCCGGACT
 CAAGCAGTATGAGGAGTTCTACATAGGATTGGAAGGCAGCTTTGGCTCAAAGCACGTTTCTCCCCGGACT
 CTCACCTCCTGCTTCTCAGCTGTGTGGTCTGTGTGGAAGGCATTGTTACTAAATGCTCTGTGGTTCCGCC
 CCAAAGTCGTTCCAGTGTTCACACTGTCTGCTACTAAGAAGACCATAGAGCGACGCTACTCTGACCT
 CACCACCCTAGTGGCTTTCCCATCCAGTTCTGTTTATCCCAAAAAGGATGAGGAGAACAACCCCTGGAG
 ACAGAGTATGGCCTGTCTGTCTACAAGGACCACCAGACCATCACCATCCAGGAGATGCCAGAGAAGGCC
 CTGCTGGTCAGCTCCCTCGCTCCGTGGACGTCATTCTAGACGATGACCTGGTGGATAAAGTGAAGCCTGG
 TGACAGAAACAGGTGGTGGGACCTACCCTGCCTCCAGGGAAGAAGGGCTGTACACCTCGGGGACC
 TTCAGGACCGTCTGATTGCCTGTAATGTGAAGCAGATGAGTAAGGATATTCAGCCTGCATTCTCTGCGG
 ACGATATAGCCAAGATCAAGAAGTTCAGCAAACTCGTTCCAAGGATGTCTTTGAGCAGCTGGCCCGGTC
 GTTAGCCCGAGCATCCATGGGCATGACTATGTCAAGAAGGCAATCCTCTGCTTGTCTGGGAGGGGTG
 GAGCGGGAACCTGAAAACGGCAGCCACATCCGTGGAGACATCAATATTCTTAATAGGTGACCCCTCCG
 TTGCCAAGTCCCAGCTTCTGCGGTACGTGCTTTGCACGGCGCCAGGGCCATTCCCACCAGGGACGGGG
 CTCTCTGGAGTGGGTCTCACAGCTGCTGTCACTACAGACCAGGAAAACAGGGGAGCGCCGCTGGAAGCT
 GGTGCTATGGTCTGGCTGACCGTGGAGTGGTTTGCAATTGATGAGTTTGACAAGATGTCTGACATGGACC
 GCACAGCCATCCACGAGGTGATGGAGCAGGGTCGAGTGACCATTGCAAAGGCTGGCATCCATGCCCGACT
 CAATGCCCGTGCAGTGTGTTGGCAGCTGCCAATCCAGTCTATGGCAGGTATGATCAGTATAAGACCCCT
 ATGGAGAACATTGGGCTGCAGGACTCACTGTCTAGATTTGACCTGCTTTCATCATGCTGGATCAGA
 TGGATCCTGAACAGGATCGGGAGATCTCAGACCAGTCCCTTAGGATGCACCAATACAGGGCCCCGGGGA
 GCAGGACGGTGTGCTTTGCCATTGGGTAGTTCAGTGGATATCCTGGCCACAGACGATCCTGACTTTACC
 CAGGATGACCAGCAAGATACCCGCAATTTATGAGAAGCATGACAGCCTTCTACATGGGACCAAGAAGAAAA
 AGGAGAAGATGGTGAAGCAGCTTTTATGAAGAAGTACATTACAGTGGCCAAAATATCAAGCCACCCT
 GACACAGGAGTCAAGCAGCTACATTGCAGAAGAACTACAGCCTGCGCAGCCAGGACAGTATGAGCTCA
 GACTGCCCCGGACATCTCCAGTTACAGCACGGACTGGAACTCTGATTGACTGGCCACGGCCCATG
 CGAAGGCCCGGATGAGCAAGACTGTGGACCTGCAGGATGCAGAGGAAGCCGTGGAGCTGGTTCAGTATGC
 TTATTTCAAGAAGTCTGGAGAAGGAGAAGAAACGTAAGAAGGCAAGTGAAGTGAATCAGACCTAGAA
 GATGAAGAGGAAAAGAGCCAGGAAGACTGAGCAGAAGCGGAAAAGGAGGAAGACTCATGCCAAGGATG
 GAGAGTCTATGACCCTTACGACTTCAAGTGAAGCAGAGACGAGATGCCTCAAGTGCACACCCCAAGAC
 TGACGATTCCTCAAGAGAAGACCGATGATTCTCAGGAGACCAGGACTCCCAGAAAGTGGAACTCAGTGAG
 CCCAGGCTGAAGGCTTTAAGGGCGCCCTTTAGAAAGTGTCCAGGAAGCTCATGAGCAGTCTGTGGCA
 TGCTCCACCTCACAGAATCCATCAACCGGAATAGAGAAGAGCCTTTCTCCTCAGAGGAAATCCAGGCTTG
 CCTGAGCCGGATGAGGATGATAACCAGGTCATGGTGTCTGAGGGCATCGTCTTCTTATCTGAAGTTGT
 TGCTACCAAGTACTGCCCTGTCCCAGCCTTTGTCTCCCATCCTCAGTAACCTTTTTAAGGGATGGAAG
 CTGATGGTGAAGTATCAGGACTTGGTGAAGCTTTGTGTATGACTTCTGCCTTGGGGCAAGAGCTGGAG
 GGAGGGCCAGGACTCAGGCAGAAGGCCTGCCTCACAAGCCCAATCCTAAACATGGGGAGTCTTTCATGATT
 TGAGCTGTGTTTCTGGGCACAGCTGTGTCTGCTGTTGTTACTTGTGTTTTTACCCCAACCCCAAGGCAC
 TTTAGTCCAGGAAGCTTTGAGGTCTGTTGGGCCAAGAGTGGCTCAGGCAGATGACAAAGTTGGATTGGAG
 AAAGCTTTCTTTCGATTAGACTAGTATGTATTGTTGACCTAAATATCCAAGACATTGATACTGAGTAAA
 TATAACTATTTTGTAAAAA

Restriction Sites: RsrII-NotI
 ACCN: NM_008563
 Insert Size: 2439 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).
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:	BC031700 , AAH31700
RefSeq Size:	2899 bp
RefSeq ORF:	2439 bp
Locus ID:	17215
UniProt ID:	P25206
Cytogenetics:	1 A4
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]