

Product datasheet for **MC205195**

Mcm7 (NM_008568) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm7 (NM_008568) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcm7
Synonyms:	A1747533; mCDC47; Mcmd7
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC065164
 CCGGCTACGTCCC GCCGCGCTTCGTTTTCTGCTCCCCAGAGAGAGATTTTTGAGCCCTTCAAGTCCTG
 CCACACCGTCCCCGGCAGCGATGGCGCTTAAGGACTACGCGATCGAAAAAGAAAAAGTTAAGAAGTTCT
 CCAAGAGTTTTATTACGAGAATGAGCTTGGAAAGAAGCAGTTCAAGTATGGGACCCAGTTGGTTCATCTG
 GCTCATCGGGAACAAGTGGCACTGTATGTGGACCTGGATGACATAGCTGAAGATGACCCTGAGTTGGTCG
 ACTCAATTTGCGAGAATGCCAAGCGCTACTCAAGACTGTTTGGTGATGTTGTGCAAGAGCTTTTGCCTGA
 GTACAAGGAGAAGGAGGTGGTGAATAAGGATGTCTTAGATGTTTACATTGAACACCCGGCTGATGATGGAG
 CAGCGAAGCAGAGACCCTGGGGCAGTCCGGAACCCCAAAACCAGTATCCTTCTGAACCTATGCGAAGAT
 TTGAGTTGATTTCCGAGGCCAAGTAGCAGCAAGCCTCGAGTATCCGGGAAGTACGAGCTGACTCTGT
 GGGGAAATTGTTAACTGTGCGTGGCATTGTCACTCGTGTGTCTGAAGTCAAGCCAGGATGGTGGTGGCC
 ACATACACTTGTGATCAGTGTGGGGCAGAGACCTACCAGCCAATCCAGTCTCCACTTTTCATGCCTCTGA
 TCATGTGCCCCAGCCAGGAGTGCCAGACCAATCGCTCAGGGGGCGGCTGTACCTACAGACTCGTGGCTC
 CAAATTTGTTAAATTCAGGAAATGAAGATTCAAGAGCATAGTGACCAAGTTCCTGTGGGAAACATCCCT
 CGTAGCATCACAGTGGTCTAGAAGGTGAGAACAAGAATTGCCAGCCTGGTGACCATGTCAGCGTCA
 CTGGCATCTTCTGCCAGTCTGCGCACAGGGTCCAACAGATGGCACAGGGCTTACTCTCAGAACTTA
 CCTGGAAGCCACTGGATTGTGAAGATGACAAAGAGTGACGATGATGTCTCTGGGCCCGGAGAGCTGAGC
 TCAGAGGAGCTGAAGCAGATTGCAGAGGAGGATTTCTATGAGAAGCTGGCCGCTTCTATTGCTCCGAGA
 TCTATGGACATGAAGATGTGAAGAAGGCCTGCTGCTGCTTCTGGTGGTGGTGTGGACCAAGTCTCCTCA
 AGGCATGAAGATCAGAGGAAACATCCACATCTGCCTTATGGGAGACCCTGGTGTGGCCAAATCTCAGCTC
 CTATCTTACATCGACCGTCTGGCACCGGAAGTCAGTACACAACAGGCCGTGGCTCCTCTGGTGTAGGGC
 TCACAGCAGCTGTGTTGAGAGACTCTGTGAGTGGAGAAGTACTTTAGAGGGCGGTGCCCTGGTGTGGC
 TGACCAGGGCGTGTGCTGCATTGATGAGTTTGACAAGATGGCCGAGGCTGACCGCACAGCCATCCATGAG
 GTTATGGAGCAGCAGACCATCTCCATCGCCAAGCGGGGATTCTCACACGCTCAATGCCGATGCTCCA
 TCCTGGCTGCGGCAATCCTGCCTACGGCCGATAAATCCCGCCGAGTCTGGAGCAGAACGTCCAGCT
 TCCGGCTGCTCTGCTTCTCGATTTCGACCTCCTCTGGCTGATTCAAGACCGGCCGACAGAGACAATGAC
 CTCCGGTTGGCCAGCACATCACCTATGTCCACCAGCACAGCCGGCAGCCCCCTGCCAATTTGAACCTT
 TGGACATGAAACTTATGAGACGGTACATAGCCATGTGCCACGAGAGACAGCCACAGTGCCTGAATCTCT
 GGCTGACTACATCACCGCAGCATATGTGGAGATGAGGCGAGAGGCCCGGGCCAGTAAGGATGCCACCTAT
 ACTTCTGCCCGGACCCTGCTGGCATTCTCCGACTTTCCTACTGCTCTGGCTCGACTTCGGATGGTAGACA
 TTGTGGAGAAGGAAGATGTAATGAAGCCATAAGGTTGATGGAGATGTGCAAGGACTCCCTTCTAGGTGA
 AAAGGGACAGACAGCTAGGACCCAGAGGCCAGCAGATGTGATATTTGCCACCATCCGTGAATTTGGTGTCA
 CGGGGGCGGAGTGTCCACTTTTCTGAGGCTGAACAGCGCTGCATATCTCGTGGCTTACACCAGCCAGT
 TCCAGGCAGCTCTGGATGAATATGAGGAGCTAAATGTCTGGCAGGTTAATACTTCTCGGACACGGATCAC
 CTTTGTCTGATAGCCAGTTTTTACACCCTCCTGCCTACACCAGAGGGCATGCTGAATGCCCCCTCAAGAA
 AAAATCTCATTCTCCCATGCTGCACTTTTTTATTCTGCCAATAAAGTGTTTTGATTGCCAAAAAAAAAAAAA AAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_008568

Insert Size: 2160 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:	BC065164 , AAH65164
RefSeq Size:	2388 bp
RefSeq ORF:	2160 bp
Locus ID:	17220
UniProt ID:	Q61881
Cytogenetics:	5 G2
Gene Summary:	<p>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 S-phase checkpoint activation upon UV-induced damage.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>