

Product datasheet for **MC222381**

Mcm10 (NM_027290) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm10 (NM_027290) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcm10
Synonyms:	2410041F14Rik; AU018508; C79164; C330019M07Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222381 representing NM_027290
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGTGGAGGAAGACGACTTGTGTCTCCTGACATCTCTACTGGAAGAGAATGAGGCAGTCTTACCTT
 GCAGCTCAGAAAAGGATAAGTCCTTGTCTCTGGGAGACGGGACCCTGATGAATTTGATGAGCTCTTTGA
 TGCTGATGGTGATGGTGAGTCTTACACAGAAGAGGCTGGCAGTGGAGAAGAGGGCAAGACTGAAAACCA
 GAGGAACGTTTGGCCACTCTCTTTGGTGATGTGGAGGACTTAACGGATGATGAAGTTGCTACATCGAAA
 TTGAAAACAGTGGCCCCCTCCTGCTCCAGCCAAGAGAAAACCAGCGAGGAGCTGCAAGATGAATTA
 GAAGTTGCAAGAGCAAATGAAATCCTTACAGGAGCAGCTAAAAGCTGCATCAATTAACAGCCTCCAGGG
 ACAGCACCTTGCAGGAACACCTGATTATCTCTGCAGCCACTGCTTAAGGAGAAGAGAATTCGGAGAA
 TTCAGGAGTCAGCGTCTTTTTCGACAGCTTGTATGTCCTCCACTTACCCAAAGCCAAGCGGTTGCTCG
 GAAGCCAAAGACTCCTGCAGAGTCATCTCAAGGATGCGTACACCCGCACAGCCACTACAGTTTCTTCC
 AGTTTTCTAGAGCCTAACCACTCCTCTTCTCGAGATCAAGCACACCCTCACCTCAAGCTGTTCTCGGAA
 ACAAATGTAGCAGGACAATTAGAAATCAAAACACAGTGTCCCCAGGGAATTTCTGGGGACCGCCCAAGCA
 GGTTCCTCCAGGTCTCTGTGGAAGCCTTCTCAGGCCTACGCCTCAGGCGACCTCGAGTCTCCTCCACAGAA
 ATGAGCAGGAAGATGGCAGGCGGAAACTAATCAGACTGCCTCAGATCAAGGAGAAGATGGCAACTGAGA
 ACCTGGAAGAGACAGACTGGGTGACGTTTGGGGTTATCCTCAGGAAGGTCACTCCACAGAGTGTACCA
 TGGGCAACGTTTAGCATCTGAAAACGAAACGACCTTTCATGACCTGACTCAGTGTGTGCTTGTCTTGT
 TTTGGAGATGTTCAAAAGATCTCTGGAAGACAGAGCAAGGACCGTCATAGGCTTGTCTCAACGCAAAAC
 CCATGAAGCCAAAGATGGCTTGAAGAGGTGTCTTATCTATTGATCATCTCAAAAAGCTTAAATTA
 GCGAGAAGCTATGGACCTGGGAGCCTGTAAGCCAAGAAGAAGAAATGGAGAGCCATGTACACAGACAGTT
 AACTTGATGACTGTGAATACTGCCAGTATCACATCCAGGCCAGTACAAGAAGCTCAGCGCAAAGAGGA
 CTGATCTGCAGTCCACTTCTCTGGGGACGGATTCCGAAGAAGTCCGCAAAGGCACCAGCCTGAAGGA
 GCGGCTGTGCAAGATGGTTTCTACTATGGTGGTGTCTTCCGAATCCTTCGCAGCGTCCAGGGCGGCG
 GCCATTGCTCCTAAGAAGAAGGTTCAAACCAGCTGACCAATCTGGTTGTCCGGGACAAAACCTCGATCA
 TCCAGGAAACAAAACAAAAGCTTGGTATCCCCAGAAGAGCTTGTCTGCTCTGAGGAGTTCAGGGAAT
 GATGGCCCTGCCACATTTGGAGCCAGAACTTACAAAAGCATCTAGCCAGAGCCAAGGCTTCAGGGAGT
 TCCAAACCTGCCATCCAGTCCATCTCAGCATCAGCCCTTGAAGCAGCAGAAACAACAGATGCTGGAGA
 TCGGGAAGAGGAGATCAGAAGACATACAGAAGCGATTCTCCAAAGCTCAAGTGAAGTCCAGAGCCAGC
 AGTGCCGTCTTCTCTCGACAGGCTGCTGCCAGTCTCCTCGAACTGGGGCTGAGTTCGCCAGGTTGGAA
 GAACTGCAACCCACGGATGCCAAGCTGGGCAGAGGCATCTCAGAAGGGGACGATGTTCTCTTTTG
 ATGATTCACCACCACCAAGACAAAACCTGAGCGCAGCAGCAGAAGCTAAAAAGTTAGCTGCTATTGCAAA
 ATTAAGGGCAAAAGGCCAGATTCTCAAAAAGTAGATCCAACAATACTGTAAGGAAGCAAATGGATGGC
 CGAGCCATGCTGGGAGTGAAGGAGCGTGTGGAGAATAGCAACACAGTTTCTCCTGAAGAGGAGCTGGAGC
 CTGCCAGGAAAAAAGGAGAGAGCAGCTTGCCCTACTTAGAGTCCGAGGAATTTCAAGAAGATTCTAAAAGC
 AAAGTCCAAGCACACAGACATCCTGAAAGAGGCTGAGGCTGAGCTACAGAAATCCTATTTTGAGCCACTG
 GTGAAAAAAGAACAGATGGAAGAAAAGATGAGAGCCACCCGGGAAGTGAATGCCGCTGGTGACGTGCA
 GGACGTGCACCTATACCACTTCAAGCCTCTGGAGACCTGTGTCAGCGAGCAGCATAACCTCCACTGGCA
 CGACGGGTGAAGAGGTTTTTCAAATGTCCCTGTGAAAACAGGACCATCTCCCTGGACAAGCTCCCAAAC
 AAGCACTGCCGTAAGTGTGCCTCTACAAGTGGGAACGGGATGGAATGCTGAAGGAGAAGACAGGTCCAA
 AGATAGGAGGAGAGACCCTGCTGCCAGAGGGGAAGAGCACGCCAAGTTTCTGAACAGCCTCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_027290

Insert Size:	2658 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:	NM_027290.3 , NP_081566.2
RefSeq Size:	3510 bp
RefSeq ORF:	2658 bp
Locus ID:	70024
UniProt ID:	Q0VBD2
Cytogenetics:	2 A1
Gene Summary:	Acts as a replication initiation factor that brings together the MCM2-7 helicase and the DNA polymerase alpha/primase complex in order to initiate DNA replication. Additionally, plays a role in preventing DNA damage during replication. Key effector of the RBBP6 and ZBTB38-mediated regulation of DNA-replication and common fragile sites stability; acts as a direct target of transcriptional repression by ZBTB38 (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.