

## Product datasheet for **MR211059**

### **Mcm10 (NM\_027290) Mouse Tagged ORF Clone**

#### **Product data:**

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



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ORF Nucleotide  
Sequence:

>MR211059 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGATGTGGAGGAAGACGACTTGTGTCTCCTGACATCTCTACTGGAAGAGAATGAGGCAGTCTTACCTT  
GCAGCTCAGAAAAGGATAAGTCCTTGTCTCTGGGAGACGGGGACCCTGATGAATTTGATGAGCTCTTTGA  
TGCTGATCGTGATGGTGAAGTCTTACACAGAAGAGGCTGGCAGTGGAGAAGAGGGCAAGACTGAAAACCGAG  
GAGGAACGTTTGGCCACTCTCTTTGGTGAAGTGGAGGACTTAACGGATGATGAAGTTGCTACATCGAAAAG  
TTGAAAACAGTGGCCCCCTCCTGCTCCAGCCAAAGAGAAAACCAGCGAGGAGCTGCAAGATGAATTA  
GAAGTTGCAAGAGCAAATGAAATCCTTACAGGAGCAGCTAAAAGCTGCATCAATTAACAGCCTCCAGGG  
ACAGCACCTTGCAGGAACACCTGATTCATCTCTGCAGCCACTGCTTAAGGAGAAGAGAATTCGGAGAA  
TTCAGGAGTCAGCGTCTTTTCTGCAGAGCTTGTATGTCCTCCACTTACCCAAAGCCAAGCGGTTGCTCG  
GAAGCCAAAGACTCCTGCAGAGTCATCTCAAGGATGCGTACACCCGCACAGCCACTACAGTCTTCTCC  
AGTTTTCTAGAGCCTAACCACTCCTCTTCTCGAGATCAAGCACACCCTCACCTCAAGCTGTTCTCGGAA  
ACAAATGTAGCAGGACAATTAGAAATCAAAACACAGTGTCCCCAGGGAATTTCTGGGGACCGCCCGAGCA  
GGTTTCCAGGTCTCTGTGGAAGCCTTCTCAGGCCTACGCCTCAGGCGACCTCGAGTCTCCTCCACAGAA  
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TGGGCAACGTTTAGCATCTGAAAACGAAACGACCTTTCATGACCTGACTCAGTGTGTGCTTGTCTTGT  
TTTGGAGATGTTCAAAAGATCTCTGGAAGACAGAGCAAGGGACCGTCATAGGCTTGTCTCAACGCAAAAC  
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AACTTGATGACTGTGAATACTGCCAGTATCACATCCAGGCCAGTACAAGAAGCTCAGCGCAAAGAGGA  
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GCCATTGCTCCTAAGAAGAAGGTTCAAACCAGCTGACCAATCTGGTTGTCCGGGCGACAAACTCGATCA  
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TCCGGAAGAGGAGATCAGAAGACATACAGAAGCGATTCCCTCAAAGCTCAAGTGAAGTCCAGAGCCAGC  
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AAGCACTGCCGTAAGTGTGCCTCTACAAGTGGGAACGGGATGGAATGCTGAAGGAGAAGACAGGTC  
AGATAGGAGGAGAGACCCTGCTGCCATAGGGGAAGAGCAGCCAAGTTTCTGAACAGCCTCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211059 protein sequence  
 Red=Cloning site Green=Tags(s)

MDVEEDDLCLLTSLLEENEAVLPCSSSEKDKSLSLGDDPDEFDELFDADRDGESYTEEAGSGEEGKTGNQ  
 EERLATLFGDVEDLTDDEVATSKVGNNGPPAPSQEKTSEELQDELKKLQEQMKSLEQLKAASIKQPPG  
 TAPLQEPDSSLQPLLKEKRIRRIQESACFSAELDVPTLPKAKRVARKPKTPAESSSRMRTPAQPLQVSS  
 SFLEPNHSSSSRSTPSPQAVPGNKCSRTIRNQNTVSPGNSGDRPQQVSVQVSVEAFSGLRLRRPRVSSTE  
 MSRKMAGRKLIRLPQIKEKMATENLEETDWTTFGVILRKVTPQSATSGQTFSIWKLNDLHDLTQCVSFL  
 FGDVHKDLWKTEQGTVIGLLNANPMKPKDGLKEVCLSIDHPQKVLIMGEAMDLGACKAKKKNGEPCQTQV  
 NLHDCEYCQYHIQAQYKLSAKRTDLQSTFSGGRIPKFRKGTSLKERLCQDGFYGGVSSSEFAASRAA  
 AIAPKKVQTTLNLVVVGNTSIQETKQKLGIPQKSLSCSEEFRELMALPTFGARNLQKHLARAKASGS  
 SKPAIQSISASALLKQKQKQMLEMRKRSEDIQKRFQSSSEVQSPAVPSSSRQAAAQSPRTGAEFPRLE  
 GTATPRMPKLRGISEGDDVLFDDSPPPRKLAAAIAKLAQKQILTKVDPNNTVRKQMDG  
 RAMLGVKERVENSNTVSPPEELPARKRREQLAYLESEEFQKILKAKSKHTDILKEAEALQKSYFEPL  
 VKKEQMEEMRATREVKCRVTCRTCTYTHFKPLETCVSEQHNLHWHGDKVRFKCPGRTISLDKLPN  
 KHCRCGLYKWERDGMLEKGTGPKIGGETLLPIGEEHAKFLNSLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

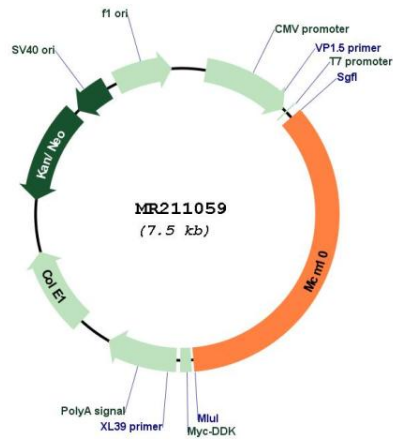
Sgfl-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_027290
<b>ORF Size:</b>	2658 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027290.1</a> , <a href="#">NM_027290.2</a> , <a href="#">NM_027290.3</a> , <a href="#">NP_081566.1</a> , <a href="#">NP_081566.2</a>
<b>RefSeq Size:</b>	3510 bp
<b>RefSeq ORF:</b>	2658 bp
<b>Locus ID:</b>	70024
<b>UniProt ID:</b>	<a href="#">Q0VBD2</a>
<b>Cytogenetics:</b>	2 A1
<b>MW:</b>	98.5 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211059