

## Product datasheet for **RR205854**

### **Mcm7 (NM\_001004203) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mcm7 (NM_001004203) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcm7
Synonyms:	MGC93853
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR205854 representing NM\_001004203  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCTTAAGGACTATGCGATTGAGAAAGAAAAAGTGAAGAAGTTCCTGCAAGAGTTTTATTATGATG  
ATGAGCTTGAAAAGAAGCAGTTC AAGTATGGGACCCAGTTGGTTCATCTGGCTCATCGGGAACAAGTGGC  
ATTGTACGTGGACCTAGATGATGTAGCTGAAGATGACCCTGAGTTGGTCGACTCAATTTGCGAGAATGCC  
AAGCGCTACTCGAGGCTGTTTGCTGACGTAGTACAGGAGCTTCTGCCTGAGTACAAGGAGAAGGAGGTGG  
TGAATAAGGATGTCTGGATGTTTACATTGAACACCGATTGATGATGGAGCAGCGGAGCAGAGACCCCTGG  
GGCAGTCCGGAACCCCTAAAACCAAGTATCCTTCTGAGCTCATGCGTAGATTTGAGTTGTATTTCCAAGGC  
CCAAGTAGCAGCAAGCCTCGAGTATCCGGGAAGTACGGGCTGATTCTGTAGGAAATTGTTAACTGTGC  
GTGGGATTGTCACTCGTGTGTCTGAAGTCAAGCCAGGATGGTGGTGGCCACATACACTTGGCATCAATG  
TGGGGCAGAGACCTACCAGCCGATCCAGTCTCCACCTTCATGCCTCTGATCATGTGCCACGCCAGGAG  
TGCCAAACCAACCGCTCAGGGGGCGGGTGTACCTACAGACTCGTGGCTCCAAATTTATTAATTCAGG  
AAATGAAGATTCAAGAACATAGTGACCAAGTCCGGTGGGAAACATCCCTCGGAGCATCACAGTGGTTCT  
AGAAGGAGAGAACAAGGATTGCCAGCCTGGTGACCATGTGAGCGTCACTGGCATCTTCTTGCCAGTC  
TTGCGCACAGGGTTCCAACAGATGGCACAGGGCTTACTCTCGGAACTTACCTGGAAGCCATCGGGTTG  
TGAAGTAGCAGAGAGCGAGGATGATGTGTCTGGGCGGAGAGCTGAGTGCCGAGGAGCTGAAGCAGAT  
TGCCGAGGAAGATTTCTATGAAAAGCTGGCTGCTTCTATTGCTCCGAGATCTATGGTCATGAAGATGTG  
AGAAGGCGCTCTTACTGCTCCTGGTGGTGGTGTGGACCAGTCTCCTCAAGGCATGAAGATAAGAGGAA  
ACATCCACATCTGCCTTATGGGAGATCCTGGTGTGGCAAGTCTCAGCTCCTGTCTTACATTGACCGTCT  
GGCGCCCGAAGTCAGTACACAACGGCCGGGGCTCCTCTGGTGTAGGGCTCACAGCAGCTGTGTTGAGA  
GACTCTGTGAGTGGGAATTGACCTTAGAGGGTGGTGCCCTGGTGTGGCTGACCAGGGCGTGTGTGCA  
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GCCTATGGACGGTATAACCCCGCCGAGTTGGAGCAGAACATACAGCTTCTGCTGCTGCTCTGCC  
GATTCGACCTCCTCTGGCTGATTGAGGACCGCCGACAGAGACAACGACCTCCGTTGGCCAGCACAT  
AACCTATGTCCACCAGCACAGCCGCGAGCCCTGCTCAATTTGAACCTTTGGACATGAACTTATGAGA  
CGGTACATTGCCATGTGCCGAGAGGCGAGCCACAGTGCCTGACTCTCTGGCTGACTACATCACTGCAG  
CGTATGTGGAGATGAGGCGAGAGGCCCGGCCAGTAAGGATGCCACCTACACTTCTGCCCGACCCCTGCT  
GGCCATTTCCGACTTTCTACTGCTCTGGCTCGCCTTCGGATGGTAGATATTGTGGAGAAGGAAGATGTG  
AATGAAGCCATAAGTTGATGGAGATGTCAAAGGACTCCCTTCTGGGTGAAAAGGGACAAACGGCTAGGA  
CCCAGAGGCCAGCAGATGTGATTTGCTACCGTCCGTGAGTTGGTATCAGGGGGACGGAGTGTCCGCTT  
TTCTGAGGCTGAACAGCGCTGCATATCACGTGGCTTACACCAGCCAGTTCCAGGCAGCTCTGGATGAA  
TATGAGGAGCTAAATGTCTGGCAGGTCAATACTTCTCGGACACGGATCACCTTTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205854 representing NM\_001004203  
 Red=Cloning site Green=Tags(s)

MALKDYAIEKEKVKKFLQEFYYDDELGKKQFKYGTQLVHLAHREQVALYVDLDDVAEDDPELVDSICENA  
 KRYSRFLFADVVQELLPEYKEKEVVKNDVLDVYIEHRLMMEQSRDPGAVRNPQNQYPSSELMRRFELYFQG  
 PSSSKPRVIREVRADSVGKLLTVRGIVTRVSEVKPRMVVATYTCDCGAETYQPIQSPTFMPLIMCPSQE  
 CQTNRSGGRLYLQTRGSKFIKFQEMKIQEHSQVPVGNIPRSITVVLEGENTRIAQPGDHVSVTGIPLV  
 LRTGFQQMAQGLLSETYLEAHRVVKMTKSEDDVSGAGELSAEELKQIAEEDFYEKLAASIAPETIYGHEDV  
 KKALLLLL VGGVDQSPQGMKIRGNIHICLMGDPGVAKSQLLSYIDRLAPRSQYTTGRGSSVGLTAAVLR  
 DSVSGELTLEGGALVLADQGVCCIDEFDKMAEADRTAIHEVMEQQTISI AKAGIL TTLNARCSILAAANP  
 AYGRYNRRSLEQNIQLPAALLSRFDLLWL IQDRPDRDNDLRLAQHITYVHQHSRQPPAQFELDMKLMR  
 RYIAMCRERQPTVPDSLADYITAAAYVEMRREARASKDATYTSARTLLAILRLSTALARL RMDIVEKEDV  
 NEAIRLMEMSKDLLGEKGQTARTQRPADVIFATVREL VSGGRSVRFSEAEQRCISRGF TPAQFQAALDE  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

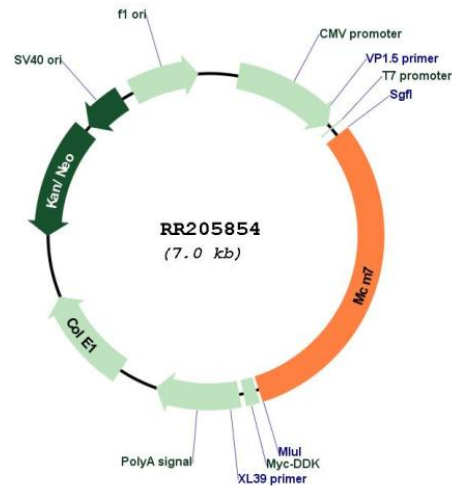
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001004203

ORF Size: 2157 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_001004203.3](#), [NP\\_001004203.3](#)

RefSeq Size: 2357 bp

RefSeq ORF: 2160 bp

Locus ID: 288532

Cytogenetics: 12q11

MW: 81.1 kDa

**Gene Summary:** member of a family of mini-chromosome maintenance (MCM) proteins; required for the initiation and elongation stages of DNA replication; key component of the pre-replication complex (pre\_RC); often used as a marker for cell proliferation [RGD, Feb 2006]