

## Product datasheet for **RN217274**

### **Mcm4 (NM\_033651) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mcm4 (NM_033651) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mcm4
Synonyms:	Mcmd4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217274 representing NM\_033651  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTC**CCCCGGCATCCACCCCAAGTCGCCCGCAGCAGCCGACGGACGAGTCACCCCAACCCAGTCGC**  
 TTCGAAGTGAGGAAAGCCGATCATCTCCAGTGGGAGACGTAGAGGCGAAGATTCTCCACCGGAGAGTT  
 GCTGCCAATGCCACCTCACCAGGAGCAGACCTGCAGAGCCAGCTGCACAGAATGCCTTGTTCAGC  
 CCTCCTCAGATGCATTCTCAGCTATTCCTTTGGAATTTGATGTTAGTTCGCCATTGACATATGGCACTC  
 CCAGCTCTCGAGTGGAAGGAACCCCAAGAAGTGGGGTGAAGGCACCCATGAGGCAGAGGCCAGACCT  
 GGGCTCAGCACGAAAGGGTTTGCAGGTGGATCTGCAGTCTGACGGAGCAGCAGAGAAGACACAGTAGCA  
 AGTGAACAGTCTTAGGCCAAAAGCTTGTGATTTGGGAAACAGACGTGAATGTGGCAACATGCAAAGAAC  
 ATTTTCAGAGATTCTTCAATGTTTACTGATCCTCTGGCCAAAAGAAGAAAAATGTTGGCATAGATAT  
 TACGCAACCTTTGTACATGCAACGACTTGGAGAGATTAATATTACAGGAGAGCCATTTTTAAATGTGAAC  
 TGTGAACACATAAAATCATTTGGCAAAAACCTTGTATAGACAGCTCATCTCTACCCACAGGAGGTTATAC  
 CAACCTTTGACATGGCTGCAATGAGATCTTCTTTGACCGTTATCCTGACTCCATCTTAGAACATCAGAT  
 TCAAGTCAGACCTTTTAAATGCATTGAAGACAAAGAGTATGAGAAACTTGAATCCAGAAGACATTGATCAG  
 CTCATCACCATCAGTGGCATGGTTATCAGAACGTCACAGCTGATCCCGAGATGCAGGAGGCCTTTTTC  
 AGTGCCAAAGTCTGTGCCATACCACCCGGTAGAGATGGACCGAGGCCGAATTGCTGAGCCCTGCACTTG  
 CGTACACTGCCACACTACCCACAGTATGGCACTGATCCACAACCGTTCACTATTCTCTGACAAGCAGATG  
 ATCAAGCTTCAAGAGTCTCTGAAGATATGCCTGCTGGCAGACACCTCACACTGTTGTCCTTTTTGCC  
 ACAATGATCTTTGACAAAGTTTCAGCCAGGGCAGAGTGAATGTCACAGGCATATATCGAGCAGTACC  
 TATTCGAGTTAATCCAAGAGTGAGCAACGTGAAGTCTGTCTATAAAACCCACATTGATGCATCCATTAT  
 CGGAAAACGGATGCAAAACGCTCTGCATGGCCTTGATGAAGAAGCAGAACGAAAACTTTTTCAGAGAAA  
 GTGTGAAATTGCTTAAGGAACCTTCCAGGAAGCCAGATATTTATGAGCGCTTGCTTCAGCCTTGCTCC  
 CAGCATTTATGAACATGAAGATATAAAAAAGGGAATCCTACTTCAACTCTTTGGTGAACAAGGAAGGAT  
 TTCAGTCACTGGAAGGGGTAATTCCTGCTGAGATTAACATCCTTCTGTGTGGTGACCTGGCACCA  
 GCAAGTCCAGCTGCTACAGTATGTATACAACCTGGTTCAGAGGCCAGTACACATCTGAAAAGGCTC  
 CAGTGCAGTTGGCCTCACAGCCTATGTGATGAAAGACCCTGAGACCAGGCAGCTTGTCTCCAGACAGGT  
 GCCCTTGTACTGAGTGACAATGGCATATGTTGCATTGATGAGTTGACAAAATGAATGAAAGCACAAGGT  
 CCGTGTGCATGAGGTGATGGAACAGCAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTGAGCTCAA  
 TGCACGAACCTCTGCTGGCAGCAGCAAAACCTATTGAGTCCCAGTGGAAACCTAAAAAACAACCATT  
 GAAAATATCCAACACCACACACTGTTGTCAAGGTTTGATCTCATTTCCTCATGCTAGACCCTCAAG  
 ATGAGGCATATGACCGACGCCTAGCCACACCTGGTTTCATTGTACTACCAAAGTGAGGAGCAGGTGGA  
 GCAGGAGTTCTGGACATGGCAGTGTGAAAGACTACATTGCCTATGCACATAGTACTATCATGCCCCGG  
 CTGAGTGAGGAGGCCAGCCAGGCTCTCATTGAGGCTTATGTAACATGAGGAAGATCGGGAGTAGTCGGG  
 GGATGGTTCTGCTTACCCTCGACAGCTAGAGTCAATAATTGCTTAGCAGAAGCCCATGCTAAAGTAAG  
 ATTTTCAGACAAAAGTTGAAGCAATCGATGTGGAAGAGGCAAAACGCCTTACCAGGAGGCTTGAAGCAG  
 TCTGCCACTGACCCTCGCACTGGCATTGTGGACATATCTATTCTTACTACAGGAATGAGTGCCACTTCTC  
 GTAACCGGAAAAGAAGATTAGCTGAAGCACTGAGAAAACCTATTTTATCTAAGGGTAAAACACCAGCCTT  
 AAAGTACCAACAGCTATTTGAGGATATTCGGGGACAATCTGACACAGCAATTACCAAGGACATGTTTGAA  
 GAGGCCCTGCGTGCTTTGGCTGATGATGATTTCTAACAGTGACTGGGAAGACTGTCGCCCTACT**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_033651  
 Insert Size: 2589 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_033651.1, NP_387500.1</u>
<b>RefSeq Size:</b>	3339 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	29728
<b>Cytogenetics:</b>	11q23
<b>Gene Summary:</b>	replication licensing factor; homolog of yeast CDC21 [RGD, Feb 2006]