

## Product datasheet for **MC221157**

### **Mcm5 (NM\_008566) Mouse Untagged Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                                  |
| Product Name:      | Mcm5 (NM_008566) Mouse Untagged Clone                |
| Tag:               | Tag Free   |
| Symbol:            | Mcm5   |
| Synonyms:          | AA617332; AI324988; AL033333; Cdc46; Mcmd5; P1-CDC46 |
| Vector:            | pCMV6-Entry (PS100001)                               |
| E. coli Selection: | Kanamycin (25 ug/mL)                                 |
| Cell Selection:    | Neomycin   |



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**Fully Sequenced ORF:** >MC221157 representing NM\_008566  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGGCTTCGACGACCCGGCATTCTACAGCGACAGCTTCGGTGGCGACCCGGTGCGGAAGAGG  
 GCCAGGCCGCAAGTCGCAACTGCAGAGGCGATTCAAGGAGTTCTGAGACAGTACCGAGTGGCACCGA  
 TCGCACGGGCTTCACTTCAAGTACAGAGATGAACTCAAGCGGCATTACAACCTGGTGAATACTGGATC  
 GAGGTGGAGATGGAGGACCTGGCCAGTTTTGACGAGGAACTGGCTGACCACTTGCCATAAACAGCCGGCCG  
 AGCACTTACAGCTGCTTGAAGAGCTGCCAAGGAGGTGGCAGATGAGGTGACCCGGCCCCGGCCAGCTGG  
 AGATGAGCTGCTCAAGACATCCAGGTCATGCTCAAGTCAGATGCCAGCCCGTCGAGCATTCCGATTCTG  
 AAGTCAGACATGATGTCACACCTGGTGAAGATCCCTGGCATCATATTCAGCCTCTGCAGTCCGTGCCA  
 AGGCTACTCGTATCTCCATTCAGTGCCGAGCTGCCACAATACCCTCACCAATATCGCCATGCGCCGAGG  
 CCTAGAGGGCTATGCCCTCCCAGGAAGTGAATATGGATCAGGCTGGGCGCCAAAGTGCCCACTGGAT  
 CCATACTTCATCATGCCTGACAAGTGAAGTGTGTGGACTTCCAGACTCTGAAACTGCAGGAGCTGCCTG  
 ATGCAGTCCCTCATGGTGAAGTGCACAGGCATGCAGCTTTATTGTGACAGGTACCTGTGTGACAGGT  
 TGTTCCTGGGAACAGGGTACCATCATGGGCATTTATTCCATCAAGAAGTTTGGCTTGAACCCAGCAAG  
 GGCCGGGACAGGGTAGGTGTGGGCATCCGGAGCTCGTACATCCGAGTGTGGGCATCCAGGTGGACACAG  
 ATGGCTCTGGCCGAAGCTTTGCTGGGTCTGTGAGCCACAGGAAGAGGAGGAATTCGTCGCTGGCTGC  
 CCTCCCCAACATATAGACTCATCTCCAAGAGCATTCCCCCTCATCTTTGGGGCATGGATATGAAG  
 AAGGCCATTGCCTGCCTGCTTTTTGGGGTTCCCGAAGAGGCTCCAGATGGACTCACTCGCCGAGGTG  
 ATATCAACTTGTGATGTTGGGAGACCCTGGTACAGCCAAGTCTCAGCTTCTGAAGTTTGTGGAGAAGT  
 CTCTCCCATTTGGGGTGTACACATCTGGAAAGGTAGCAGTGTGCTGGCTTACTGCTCAGTGATACGG  
 GACCCCTCATCTCGAAACTTCATCATGGAAGGTGGAGCCATGGTTCTGGCCGATGGTGGGTTGTCTGTA  
 TTGATGAGTTTGACAAGATGCGGGAAGATGACCGTGTGCAATCCATGAGGCTATGGAGCAGCAGACCAT  
 CTCCATTGCTAAAGCTGGGATCACTACCACCTGAACTCTCGCTGCTGTTCTGGCTGCAGCCAACTCA  
 GTGTTTGGCCGATGGGATGAGACAAAAGGGGAGGACAATATTGACTTCATGCCTACCATCTTGTCCCGAT  
 TTGATATGATCTTCATCGTCAAAGATGAGCACAATGAGGAGAGGGACATGATGCTAGCCAAACATGTGAT  
 GACTCTGCATGTGAGTGCAGTGCACAGACACAGGCTGTGGAGGGTGGATCGACCTGGCCAAGATGAAG  
 AAGTTCATTGCCTACTGCCGAGCGAGGTGTGGACCTCGGCTATCAGCAGAGGCAGCAGAGAAGCTGAAAA  
 ACCGCTACATCATCATGCGGAGTGGGGCTCGTACGATGAGAGGGACAGTGACCCGCGTTCCAGCATCCC  
 CATCACTGTGCGGAGCTGGAGGCTATTGTGCGCATTGCTGAGGCCCTCAGTAAGATGAAACTGCAGCCC  
 TTTGCCACTGAGGCTGATGTAGAGGAGGCATTGAGACTGTTCCAGGTGTCCACACTGGATGCTGCTTTGT  
 CTGGCAATCTGTGCGGGGTGGAGGGCTTCACTACCCAGGAGGACCAGGAGATGCTGAGCCGATTGAGAA  
 GCAACTCAAGCGCCGTTTTGCCATTGGCTCTCAGGTGTCTGAACACAGCATTGTCCAGGACTTACCCAAA  
 CAGAAATATCCAGAGCACGCTATCCGAAAGGTGCTGCAGCTCATGCTACGCAGGGGTGAGATCCAACACC  
 GTATGCAGCGCAAGGTGCTCTATCGCCTCAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_008566  
**Insert Size:** 2205 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).

|                               |   |
|-------------------------------|---|
| <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_008566.3</a> , <a href="#">NP_032592.2</a>   |
| <b>RefSeq Size:</b>           | 3441 bp   |
| <b>RefSeq ORF:</b>            | 2205 bp   |
| <b>Locus ID:</b>              | 17218   |
| <b>UniProt ID:</b>            | <a href="#">P49718</a>  |
| <b>Cytogenetics:</b>          | 8 C1  |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is a member of the oligameric minichromosome maintenance protein complex. During DNA replication, the complex loads onto chromatin in early G1 and is converted into an active replicative helicase during S phase. It functions to limit DNA synthesis to once per cell cycle. During embryogenesis, the encoded protein is negatively regulated through expression of paired box protein Pax 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p> |