

## Product datasheet for **SC323774**

### **MCM5 (NM\_006739) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCM5 (NM_006739) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCM5
Synonyms:	CDC46; MGORS8; P1-CDC46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_006739.2  
 CTTGTCTCCCCTGGTTTGTGAAGTGCAGGAAAACAGAGGCGCAGTCATGTCGGGATTCGA  
 CGATCCTGGCATTCTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGAGGGCA  
 GGCCCGCAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTCTGCGGCAGTACCGAGTGG  
 CACCGACCGCACGGGCTTACCTTCAAATACAGGGATGAACTCAAGCGCATTACAACCT  
 GGGGAGTACTGGATTGAGGTGGAGATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGC  
 CGACTACTTGACAAGCAGCCAGCCGAGCACCTGCAGCTGCTGGAGGAAGCTGCCAAGGA  
 GGTAGCTGATGAGGTGACCCGGCCCGGCTTCTGGGGAGGAGGTGCTCCAGGACATCCA  
 GGTGATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTTCGTAGCCTGAAGTCGGACATGAT  
 GTCACACCTGGTGAAGATCCCTGGCATCATCATCGCGGCTCTGCGGTCCGTGCCAAGGC  
 CACCCGCATCTCTATCCAGTGCCGACAGCTGCCGCAACACCCTCACCAACATTGCCATGCG  
 CCCTGGCTCGAGGGCTATGCCCTGCCAGGAAGTGAACACAGATCAGGCTGGGCGCCC  
 CAAATGCCATTGGACCCGTAATTCATCATGCCGACAAATGCAAATGCGTGGACTTCCA  
 GACCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCACGGGGAGATGCCAGACACAT  
 GCAGCTCTACTGCGACAGGTACCTGTGTGACAAGGTCGTCCTGGGAACAGGGTTACCAT  
 CATGGGCATCTACTCCATCAAGAAGTTTGGCCTGACCACAGCAGGGGCCGTGACAGGGT  
 GGGCGTGGGCATCCGAAGCTCTACATCCGTGTCTGGGCATCCAGGTGGACACAGATGG  
 CTCTGGCCGACAGCTTTGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGAGTTCCGTGCGCT  
 GGCTGCCCTCCCAAATGTCTATGAGGTCATCTCCAAGAGCATCGCCCCCTCCATCTTTGG  
 GGGCACAGACATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGCTCCCGAAAGAGGCT  
 CCCTGATGGACTTACTCGCCGAGGAGACATCAACCTGCTGATGCTAGGGGACCCTGGGAC  
 AGCCAAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTTCTCCATTGGGGTATACACGTC  
 TGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCTTCGTTCCG  
 GAATTTTCATCATGGAGGGCGGAGCCATGGTCTGCGCCGATGGTGGGGTCGTCTGTATTGA  
 CGAGTTTGACAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCA  
 GACCATCTCTATCGCAAGGCTGGGATCACCACCACCCTGAACTCCCGCTGCTCCGTCTCT  
 GGCTGCTGCCAACTCAGTGTTCCGGCCGTGGGATGAGACGAAGGGGGAGGACAACATTGA  
 CTTTCATGCCACCATCTTGTGCGCTTCGACATGATCTTCATCGTCAAGGATGAGCACA  
 TGAGGAGAGGGATGTGATGCTGGCCAAGCATGTCATCACTCTGCACGTGAGCGCACTGAC  
 ACAGACACAGGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTA  
 CTGCCGAGTGAATGTGGCCCCGGCTGTGAGCAGAGGCTGCAGAGAACTGAAGAACC  
 CTACATCATCATGCGGAGCGGGGCCGTGAGCAGGAGAGGACAGTGACCGCCGCTCCAG  
 CATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCTCAGCAA  
 GATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCA  
 AGTGTCCACGTTGGATGCTGCCTTGTCCGGTACCCTGTCAGGGGTGGAGGGCTTACCAG  
 CCAGGAGGACCAGGAGATGCTGAGCCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCAT  
 TGGCTCCCAGGTGCTGAGCACAGCATCATCAAGGACTTACCAAGCAGAAATACCCGGA  
 GCACGCCATCCAAAGGTGCTGCAGCTCATGCTGCGGCGGCGGAGATCCAGCATCGCAT  
 GCAGCGCAAGGTTCTCTACCGCTCAAGTGAGTCGCGCCGCTCACTGGACTCATGGACT  
 CGCCACGCTCGCCCTCCTGCCGTGCTGCCATTGACAATGTTGCTGGGACCTCTGC  
 CTCCCCACTGCAGCCCTCGAACTTCCCAGGCACCCTCTTTCTGCCCCAGAGGAAGGAGC  
 TGTAGTGTCTGCTGCTCTGGGCGCCCGCTCTAGCGCGTTCTGGGAAGTGTGCTTTT  
 GGCATCCGTTAATAATAAAGCCACGGTGTGTTACAGGTAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_006739

**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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_006739.2</a> , <a href="#">NP_006730.2</a>
<b>RefSeq Size:</b>	2548 bp
<b>RefSeq ORF:</b>	2205 bp
<b>Locus ID:</b>	4174
<b>UniProt ID:</b>	<a href="#">P33992</a>
<b>Cytogenetics:</b>	22q12.3
<b>Domains:</b>	MCM
<b>Protein Families:</b>	Stem cell - Pluripotency, Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, DNA replication
<b>Gene Summary:</b>	The protein encoded by this gene is structurally very similar to the CDC46 protein from <i>S. cerevisiae</i> , a protein involved in the initiation of DNA replication. The encoded protein is a member of the MCM family of chromatin-binding proteins and can interact with at least two other members of this family. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may actively participate in cell cycle regulation. [provided by RefSeq, Jul 2008]