

Product datasheet for **SC332953**

MCM3 (NM_001270472) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCM3 (NM_001270472) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCM3
Synonyms:	HCC5; P1-MCM3; P1.h; RLFB
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332953 representing NM_001270472.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCTTATATGCTCCCAAGGTCCCCGCCTTCTCTCGAGGTAACCTTTGGTGGCGGGAAGAGTTCGGAA
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AATCAGGTCATGGTGTCTGAGGGCATCATCTTCTCATCTGA
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001270472

Insert Size: 2457 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).

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:	<ol style="list-style-type: none">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_001270472.1
RefSeq Size:	3121 bp
RefSeq ORF:	2457 bp
Locus ID:	4172
UniProt ID:	P25205
Cytogenetics:	6p12.2
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Cell cycle, DNA replication
MW:	91.9 kDa
Gene Summary:	<p>The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with and is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2018]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>