

## Product datasheet for **SC126788**

### **MCM8 (NM\_182802) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCM8 (NM_182802) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCM8
Synonyms:	C20orf154; dj967N21.5; POF10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC126788 sequence for NM\_182802 edited (data generated by NextGen Sequencing)

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ATGAATGGAGAGTATAGAGGCAGAGGATTTGGACGAGGAAGATTTCAAAGCTGGAAAAGG
GGAAGAGGTGGTGGAACTTCTCAGGAAAATGGAGAGAAAAGAGAACACAGACCTGATCTG
AGTAAAACCACAGGAAAACGTACTTCTGAACAAACCCACAGTTTTTGTCTTCAACAAAG
ACCCACAGTCAATGCAGTCAACATTGGATCGATTACATACCATATAAAGGCTGGAAGCTT
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AAATTTTTCACAAGGCATATTGATTTGTATGACAAGGATGAAATAGAAAAGAAAGGGAAGT
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ATAGCAACTGAACTAAGAGATGCACCTGAGAAAACCTTGGCTTGCATGGGTTTGGCAATA
CATCAGGTGTTAACTAAGGACCTTGAAGGCATGCAGCTGAGTTACAAGCCCAGGAAGGA
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TATGAGCCTTTGACACAGCTCAAGAATGCAGAGCAAATTAATGAAAATACATTGCT
CTAAGAGGGACAGTGGTTCGTGCAGTAATATAAAGCCTCTTGCACCAAGATGGCTTTT
CTTTGTGTGCATGTGGAGAAAATTCAGAGCTTTCTCTTCCAGATGGAAAATACAGTCTT
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CATGAACCTTGTAAAGCAGGTTTGGCATTAGCACTCTTTGGAGGAAGCCAGAAAACGCA
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CAAAGTATTAGTCTTCTAAGGCTGGTGTGTTTGTAGCCTTCTGCAAGAACTCCATT
ATTGCTGTGCAAATCCAGTTGGAGGACATTACAATAAAGCCAAAACAGTTTCTGAGAAT
TTAAAAATGGGGAGTGCCTACTATCCAGATTTGATTTGGTCTTTATCCTGTTAGATACT
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CAGAGAACCATTAGCAGTGCCACAGTAGCTCGTATGAATAGTCAAGATTCAAATACTTCC
GTACTTGAAGTAGTTTCTGAGAAGCCATTATCAGAAAAGACTAAAGGTGGTTTCTGGAGAA
ACAATAGATCCCATTCCCACCAGCTATTGAGAAAAGTACATTGGCTATGCTCGGCAGTAT
GTGTACCAAGGCTATCCACAGAAGCTGCTCGAGTTCTTCAAGATTTTACCTTGAGCTC
CGGAAACAGAGCCAGAGGTTAAATAGCTACCAATCACTACCAGGCAGCTGGAATCTTTG
ATTCGTCTGACAGAGGCACGAGCAAGGTTGGAATTGAGAGAGGAAGCAACCAAGAAGAC
GCTGAGGATATAGTGGAAATTATGAAAATAGCATGCTAGGAACCTACTCTGATGAATTT
GGGAACCTAGATTTTGGCGATCCAGCATGGTTCTGGAATGAGCAACAGGTCAACAGCG
AAAAGATTTATTTCTGCTCTCAACAACGTTGCTGAAAGAACTTATAATAATATATTTCAA
TTTCATCAACTTCGGCAGATTGCCAAAGAACTAAACATTCAGGTTGCTGATTTTAAAAAT
TTTATTGGATCACTAAATGACCAGGTTACCTCTTAAAAAAGGCCAAAAGTTTACCAG
CTTCAAATATGTAA
    
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Clone variation with respect to NM\_182802.1

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_182802 unedited  TGTTTTTTTTGTNAATTACGNATTTTTATCTATAGGNNCGGCCGNAATTCGGCACGA  GGCCTCGTGCTCGAATTCGGCACGAGGCTGATTTTCGCTTGAGGCATTTTTCGGCGCTG  TGCGCTACAGACACCTTCTGGAAGCTGCGGTGGGAACTGAGTTTCCCGAGCCGTTGAG  ACAGATGGGGTTCAGCACCGCGGGGACGACAGGAAAGCTGCGGCTGAAGAGAACTGCG  GACTTGGCAGGAGTCGCCTGAGGAGCTAAGATCCCGGAGACTCTAGCCCCGTGGTGCTT  CTCTACGGGAGGGAGGGAGGAGAAATCCGGCCGACAGATCTGCGCGTATCCTGGAGCCG  GCCAGTTGTGAACTAGGAGAGCTTTGGGACCTCTGTCCAAGCAAGAGAGATGAATGGA  GAGTATAGAGGCAGAGGATTTGGACGAGAACATTTCAAAGCTGAAAAAGGGGAAGAGGT  GGTGGAACTTCTCAGGAAAATGGAGAGAAAGAGAACACAGACCTGATCTGAGTAAAACC  ACAGGAAAACGTAATTCTGAACAAACCCACAGTTCTTGCTTTCAACAAAGACCCCA  GTCCATGCAGTCAACCATTGGATCCGATTTATACCATATAAAGGCTGGAAGCTTTATTT  TCTGAAGTTTACAGCGTAGCTCTCTTTGATTGAGAAGATTCCAGCCTTTGAAAAATTT  TTCCACAGGCATATTTGATTTGTATGACCCGGATGAAATACCAAGACAGGGAACCCCTTT  GGTAGATTTTAAAGAACTGACCGAAGGTGGTGAAGTACCTAATTTGGTCCCATTTTACC  CCTCGAATATGATATGCCCTGAGAACTTGGTTGCCTGGGTTTGGCAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_182802 unedited  TCTTGGCCGCGCCGCAACTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAAGGG  GTCTTGCTATGTTGCCAGGTTGGTCTCGAACCTGGCCTCAAGGAATCCTCTCACCTCA  GCCTCCTGAGTCACTGTGATTACAGTGTGAGCTACTGCATCTGGAGACTTTATCACTTCT  TAAATTAGTTTATTATATTTAATGCTTTTTTCTATTATAATACTTTTGGGACATCATT  TTCAGAGAACAGTATTTGACTGTGTGTGTGTGTGTGTGCGTGTGTGTGTGTGTGTGTG  CGTGTGTCTGTCTGTCTGTGCCCCCCCCATATCTTCCCTGAGATGGCTTTAATCTGC  CATAAACCCAGGAGGCCCTAACTTGGTGAAGCCCTTCCATCACCTTGAAGCTGGTAACA  CTTTGGGCCTTTTTTCAAGAGGCACCCCTGCGCCCTTACTGCCCCATAAACATTTCC  AACCCAGCACCTGAATGTCCACTTCTTTGGCATCCCGCAATCTGATCAACATGACAA  ACCTATCAGCTCTTCCCTCGCTGCTGACAACACACCCCAACCTTCTCGCTGGCGACC  TGGTCCCCCTTCAAACCTTTTGTGGACTGCTCACAACCTCGTCCCCTTTCCNGCC  CTTCCCCCGCCCTCTTTATATCCCCCCCCCTTTGCCCCGCTCCTCGGCCCTCC  TTTTAATCCACCCTCCTCGCCCTCTTCCACCCTATCCATTTTCCCCGCCCCCCCC  GTTTGTAACTCTCAACCCCGCCCTCCGCGCGCCTTATGTTCCCAATTTCCGCCCC  CCTCCCCCTCCTCGTTTACCCCCCCCTCCACTATTGCCGACCTTTTCGCCCTCC  CTTATACCCCGCAATCCGTTCTTTTCTCGACCACCCGCTCTCCTCCCCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_182802
<b>Insert Size:</b>	3200 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>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).

**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\\_182802.1](#), [NP\\_877954.1](#)

**RefSeq Size:** 3710 bp

**RefSeq ORF:** 2475 bp

**Locus ID:** 84515

**UniProt ID:** [Q9UJA3](#)

**Cytogenetics:** 20p12.3

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the mini-chromosome maintenance proteins is a key component of the pre-replication complex and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein contains the central domain that is conserved among the mini-chromosome maintenance proteins. The encoded protein may interact with other mini-chromosome maintenance proteins and play a role in DNA replication. This gene may be associated with length of reproductive lifespan and menopause. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2013]

Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice site in the internal coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.