

Product datasheet for **MC200646**

Mcm4 (NM_008565) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm4 (NM_008565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcm4
Synonyms:	19G; AI325074; AU045576; Cdc21; mcdc21; Mcmd4; mKIAA4003
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

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>BC013094 sequence for NM_008565
GCGGCTGGCGGAATCGCTTACCCCTGCGGGCCAGGAACGTTCTCTGGGTGGCGCAGAACCCTGACTC
GCCGTTTTGTGCGCGTTTGAACAAACCCGGATCCGAGGTACGAGAGGTCCCGGAGCGGGACAACCTGAGA
GCCAGATTTCTTTTGTGCGCGCAGCAACCACAGCACCATGTCGTCCCGGCATCCACCCCGAGCCGCCGA
GCAGCCGACGCGGACGAGTACCCCAACCCAGTCCCTTCGAAAGTGAGGAAAGCAGTTCGTACCCCAATCG
GAGACGTAGAGGGCAAGATTCTCCACCGAGAGCTACTGCCAATGCCACCTCACCAGGAGCCGACCTG
CAGAGCCACCTGCACAGAATGCCTTGTTCAGCCCTCCTCAGATGCATTCTTTAGCTATTCCTTTGG
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CAGAGTGAACGTACAGGCATATATCGAGCAGTACCAATTCGAGTTAATCCAAGAGTGAGCAACGTGAAG
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GGTCCCCAGAGGCCAGTACAGTCTGAAAAGGCTCCAGTGCAGTCCGCTCACCCTATGTGATGAAA
GACCTGAGACCAGGCAGCTTGTCTCCAGACAGGTGCCCTCGTCTGAGTGACAATGGGATATGCTGCA
TCGATGAGTTTGACAAAATGAATGAAAGCACAAGGTCTGTGCTGCATGAGGTGATGGAACAGCAGACTCT
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CAGTCTGACACAGCAATTACCAAGGACATGTTTGAAGAAGCCCTGCGAGCTTTGGCTGATGATGATTTCC
TAACAGTGACTGGGAAGACTGTCCGCTGCTCTGAGCTGCATGGCCCTCGGACTAGAGTCACTCACTGTT
GTTATTGCTGAAAAGGAGTCTGAAAGGCAGTATTCCACTATATAAACCTTCTATTCTGGAATGTAT
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TTGGAGGTTTTTTAATGTAGGGGCTGTGCCTTTGTTGTGTCATGCTGGGAGGAAGGTAAGAGTA
CCATGCATGCTGTATGTAGAGGCTATGTCCTTACTGTGTGGAGCATTGTGTGCTTGGTATAACTGGCAGC
CGTACATCCTTACTGTGATATGATGGGCTAATGATTTTTATAGCACCTGGACTTAACTTTCTTTACAGA
GACTTTTTCCATAACTATTATTAGAACAAGATATGCTTGAAAAATTATTAATCAAGTTGCCTTCTGT
TTTTCTCAATATGTAACAACTTTTCTAAATAAATGATAGAAAAGTAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

RsrII-NotI

ACCN:	NM_008565
Insert Size:	2589 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:	BC013094 , AAH13094
RefSeq Size:	3360 bp
RefSeq ORF:	2589 bp
Locus ID:	17217
UniProt ID:	P49717
Cytogenetics:	16 10.09 cM
Gene Summary:	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity.[UniProtKB/Swiss-Prot Function]