

Product datasheet for **MC222517**

Mcm2 (NM_008564) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm2 (NM_008564) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mcm2
Synonyms:	AA959861; AW476101; BM28; CDCL1; Mcmd2; mKIAA0030
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC222517 representing NM_008564
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGTCTTCTGAGTCTCTCTCAGCATCTAGCCCTGCCCGTCAGCGGCCCGGATCAGTGATCCCC
 TCACCTCCAGCCAGGCCGACGCTCCAGACGTGCTGACGCCCTGACCTCCAGCCCTGGCAGAGACCTCCC
 CCCATTTGAAGATGAGTCTGAGGGGCTGCTGGGCACAGAGGGGCCCATGGAGGAAGAAGAGGATGGAGAG
 GAACTCATTGGTATGGCATGGAGAGAGACTACCGTCCCATTCCGGAGCTCGATGTCTACAGGGCCGAGG
 GATTGGCCCTGGATGATGAAGATGTGGAGGAGCTGACAGCCAGTCAGAGAGAGGCAGCTGAGCGGACCAT
 GAGGCAGCGGGACCGTGAGGCTGGCAGAGGCTGGGACGCATGCGCCGGGGGCTGCTCTATGACAGCAGC
 GAGGAAGATGAGGAGCGGCTGCCCGTAAGCGCCGCCACGTAGAACGCGCCACAGAGGATGGCGAGGAGG
 ATGAAGAGATGATCGAGAGTATTGAGAATCTGGAGGACCTCAAGGGCCACTCGGTGCGCGAGTGGGTGAG
 CATGGCAGGGCCAGGCTGGAGATCCACCACCGCTTCAAGAACTCCTGCGCACCCAGCTGGACAGCCAT
 GGCCACAACGTCTTCAAGGAGCGCATCAGTGATATGTGCAAAAGAGAACCCTGAGAGTTTTGGTGGTAAATT
 ATGAAGACCTGGCAGCCCGGGAGCACGTGTTGGCATACTTCTGCCGGAAGCACCGGCTGAGTTGCTGCA
 GATCTTTGACGAGGCTGCCCTGGAGGTCGTGTTGGCCATGTACCCTAAATATGACCGTATCACCAACCAC
 ATCCATGTGCGCATCTCCACCTGCCTCTGGTGGAGGAGCTGCGTTCAGTGGCAGTGGCAGCTGAACC
 AGCTGATCCGTACCAGTGGCGTGGTGACCAGCTGCACCGGAGTCTGCCCCAGCTCAGCATGGTCAAGTA
 CAACTGTAGCAAGTCAACTTTGTAAGTGGGCTTTTCCAGTCTCAGAATCAGGAGGTGAAGCCTGGC
 TCCTGCCCTGAGTGCCAGTCTGCTGGGCCCTTTGAGATCAACATGGAGGAGACCATCTATCAGAATACC
 AACGTATCCGCATCCAGGAGAGTCCCAGCAAGGTGGCGGCTGGCCGACTGCCCGTTCCAAGGATGCCAT
 TCTCTCGCTGATCTGGTGGACAGCTGCAAGCCAGGGGACGAGATAGAGCTGACCGGCATTTACCATAAT
 AACTATGACGGCTCGCTTAACACCGCCAACGGCTTTCCAGTCTTTGCCACTATTATCTTGCCCAACCATG
 TTGCCAAGAAGGACAACAAAGTAGCTGTGGGGAGCTCACCGATGAGGACGTGAAGATGATCACCGGTCT
 CTCCAAGGATCAGCAAATGGAGAGAAGATCTTTGCCAGCATTGCACCCTCCATCTATGGGCATGAAGAC
 ATCAAGAGAGGCCCTGGCTCTGGCCCTGTTGGAGGGGAGCCCAAGAACCAGGTGGAAGCACAAGGTTT
 GAGGTGACATTAATGTGCTCTTGTGTGGGACCCTGGCACAGCAAAGTCCCAATTCCTCAAATACATCGA
 GAAAGTGTCTAGCCGTGCCATCTTACCAGTGGCAGGGTGCCTCAGCAGTGGGTCTCACCGGTACGTT
 CAGCGGCATCCCGTCAGCAGAGAGTGGACCTTAGAGGGCGGAGCCCTGGTCTGGCTGACCGGGGGTGT
 GTCTCATTGACGAGTTTGACAAGATGAATGACCAGGACAGGACCAGCATCCACGAGGCCATGGAACAGCA
 AAGCATCTCCATCTCAAGGCTGGCATCGTTACCTCGCTGCAAGCCCGCTGCACTGTCATAGCTGCTGCC
 AACCCCATAGGAGGCCGCTACGACCCCTTCACTGACCTTCTCAGAGAATGTAGACCTCACAGAGCCCATCA
 TTTCCCGCTTTGATGTCTGTGTGGTGGAGGACTGTTGATCCAGTTCAGGATGAGATGCTGGCCCG
 CTTTGTGGTTGGCAGCCACGTGACACACCACCCAGTAACAAGAAGGATGAAGGGTTGACTAATGGTGGC
 ACCTTGGAGCCAGCCATGCCAACACATATGGCGTGGAGCCCTGCCTCAGGAGGTGCTGAAGAAGTATA
 TCATCTATGCCAAGGAGAGGGTCCGCCGAAGCTCAACCAGATGGACCAGGATAAAGTGGCCAGGATGTA
 CAGTGACCTGAGGAAGGAGTCCATGGCAACGGGACGATTCCCATCACGGTGGCCACATCGAGTCCATG
 ATCCGCATGGCCGAGGCCATGCCCGCATGCACCTGCGGGACTACGTGATGGAAGACGATGCAACATGG
 CCATCCGAGTGATGATGGAGAGTTCATTGACACCCAGAAGTTCAGCGTCATGCGGAGTATGCGCAAGAC
 TTTTGCCCGTATCTCTCCTTCCGGCGAGATAACAATGATCTGCTGCTTTCATACTGAAGCAGTTGGTG
 GCTGAGCAGGTGACATATCAACGCAACCGCTTTGGGGCCAGCAGGACACCATTGAAATACCTGAGAAGG
 ATCTGATGGACAAGGCCAGGCAGATCAATATTCAACCTCTCTGCCTTCTACGACAGCGACCTCTTCAA
 ATTCAACAAGTTCAGCCGTGACCTGAAACGCAACTGATCCTACAGCAGTT**CGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_008564

Insert Size:	2715 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_008564.2 , NP_032590.2
RefSeq Size:	3381 bp
RefSeq ORF:	2715 bp
Locus ID:	17216
UniProt ID:	P97310
Cytogenetics:	6 D1
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. Required for the entry in S phase and for cell division. Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis.[UniProtKB/Swiss-Prot Function]