

## Product datasheet for **RC227917**

### **C8orf45 (MCMDC2) (NM\_001136161) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C8orf45 (MCMDC2) (NM_001136161) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCMDC2
Synonyms:	C8orf45
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC227917 representing NM\_001136161  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAAATCTAAAAATGAAAGAGGCGGCCCTCATCTATCTTGACAGAAGTGAGGCCTCCAAAAGTTTA  
 TAGATGATTGCAAGTACTACAATGATTCAAAACAAAGCTATGCTGTCTATCGATTCAAAATTTAATAAAA  
 TCCTCTGATGTTGTAATTAGATGCTGAGCTTGAAATCACATTTTACACCAACCTTTAAAAGCTGCT  
 GAAGTCTTTCAATCAGTCTGTTTTATTGCTGTTAAGACTCTCTCATTAAATGGACAATTGCAGACTGAAA  
 CGCAAATTAATATAGTGTGAAATTAACACATTTACCTCCCTGCCAAGTTATGGCTTGATCTTTGTGA  
 GTTCCACTTGATTATACATCTCAGAGATTTTATATGATGCAAGGAATTGTGATTGCAATGACAATA  
 ACCAAGTATACACAAGGGCAAGATTTCTTTGTTGAGTGAAGCATGCCCTCTTTCAAAGGATTTTCAGT  
 ATATAAGAGTGCATGTGCTGGTGTACAGAATCTGCAACGATAAGAAAATGACTTTTTGTGAATCTATG  
 TGCATCTTCACTCAAGAAGACAGAAAATTTAGAGTACTTGGTGATAACAAAATAGTTGAAATAATTGCC  
 ACAAAGGCACTTCGTGCTTTTCAAGGATATTCTAACAACAGCCATTTAGGTTTCAATCACTTACAATTT  
 TCTAAGAGATGAATCAGTGAATAAAATGAATATAGGAAATGAATATAAAATTTTGAATTTCAACCTG  
 TGTAAAACTCACAACCTGCTGTCTGTATAGAAGCAATAGCATAACTTTTTGTAATTCAAAAGTTCTT  
 TCAGGAATTAGTGACAACCTCAGGTGCTCCTCTCCTTAACTCCAGCTCATGCTGGAAGTTTACAGCAA  
 TACTTGCCAAATCTTTGCATCACAATACCCTCCTGGGACTTACAATTTGCTCAAGCTCTGTTTGT  
 GATGAGTCTAGTACAGACAACCTGACCGTAAACAAGGAAGTGAAGATTGCCTGGATATTTAATTAAACA  
 AGTGATACTACTCATAGACAGGCTTCTGAATTTTAGCATAAACCTTGCCCCGTGGTATACGTCATC  
 TAGTCTACTGAAATTTTCCCACTCTATCCAGGAATAAGTATGGAAGTGGAGCAGTTAGCATTACGGC  
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 CTTGAACAGCTTCAAACAGTTCTGGAGAGCAGAAGCATCACAGTGTACATCCCAGGAAAGAAAGTTGGGG  
 AGGATATTGATCAACAGATGACTTTTCCAGTTCAGTGCAGTTTTTGGTCTTTTGTGATGTGGATTCATC  
 TTCAAGGAGAAATGCACAGAAAATCAACACTCTAATTGGTCAGATGGATTGCAGTTTGATTCCAGCTAAC  
 CTTGTGGAGGCATTTGGTTTATTGATTAAGTCAACGAGTCTCCTGCCACCCATTTCTTCTACTG  
 TGCAACACTTTGAACAAAGCCATTAATCCTGAAGGGCTGTTTTATGCGGCTTCTAGACAGTTCACAAC  
 TGAAGATTTTAAAAGCTATTGGCTTTTCAAAGAATTTGAATGTAGAATTCAGCTTGAAGCAGAAAGA  
 ATGACCCATGGCTATTATCTAGCAAGTCGAGAATCAGAACAGGCTCTGTATGTGGATCAAGCTGTCAG  
 CATCTGCATTAATAATCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC227917 representing NM\_001136161  
 Red=Cloning site Green=Tags(s)

MSNLKMKEAAL IYLD RSGGLQKFID DCKY YNDSKQSYAVYR FKILINPSDVVELDAELGNHILHQPLKAA  
 EVFQSVCFI AVKTL SLIGQLQ TETQ INIVLKLTHL PPLPSYGLDLCEFP LDYTSQR FYMMQGI VIAMTTI  
 TKYTQGARFLCSDEACPLSKGFQYIRVHVPGATESATIRNDFLCNL CASSLQEDRKFRVLGDKQIVEIIA  
 TKALRAFQGSNNQPFQSLTIFLRDESVNKMNI GNEYKIIIGIPTCVKTSQTAVCIEANSITFCNSKVP  
 SGISDNFRCLLSLTSSSCWKFTAILANIFASQITPPGYNLLKLC LMSLVQTTDRNKELEDCLDIL IIT  
 SDTLLIDRLLNFSINLVPRGIRHLVSTEIFPTLSRNKYGTGAVSIQAGSALLAKGGICFIGDLASHKDK  
 LEQLQTVLESRSITVYIPGKKFGEDIDQMTFPVQCSFWSFVDVDS SRRNAQKINTLIGQMDCSLIPAN  
 LVEAFGLLINCNESSPCHPFLPTVQHTLNKAINPEGLFYAASRQFTTEDFEKLLAFAKNLNVEFSLEAER  
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**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

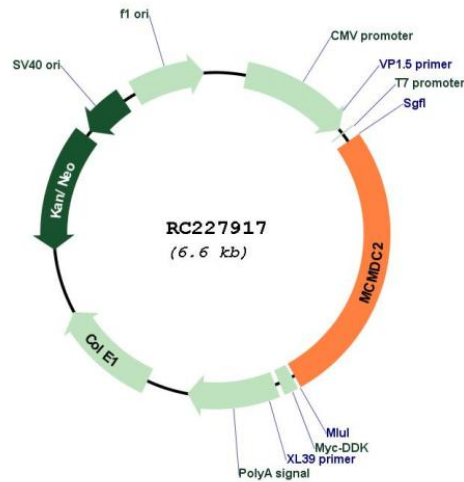
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001136161

ORF Size: 1770 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001136161.2</a>
<b>RefSeq Size:</b>	2399 bp
<b>RefSeq ORF:</b>	1773 bp
<b>Locus ID:</b>	157777
<b>UniProt ID:</b>	<a href="#">Q4G0Z9</a>
<b>Cytogenetics:</b>	8q13.1
<b>MW:</b>	65.8 kDa
<b>Gene Summary:</b>	Plays an important role in meiotic recombination and associated DNA double-strand break repair.[UniProtKB/Swiss-Prot Function]