

Product datasheet for **RC229336**

C8orf45 (MCMDC2) (NM_173518) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C8orf45 (MCMDC2) (NM_173518) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C8orf45
Synonyms:	C8orf45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC229336 representing NM_173518
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAAATCTAAAAATGAAAGAGGCGGCCCTCATCTATCTTGACAGAAGTGAGGCCTCCAAAAGTTTA
 TAGATGATTGCAAGTACTACAATGATTCAAAACAAAGCTATGCTGTCTATCGATTCAAAATTTAATAAAA
 TCCTCTGATGTTGTTGAATTAGATGCTGAGCTTGAAATCACATTTTACACCAACCTTTAAAAGCTGCT
 GAAGTCTTTCAATCAGTCTGTTTTATTGCTGTTAAGACTCTCTCATTAAATTGGACAATTGCAGACTGAAA
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 GTTCCACTTGATTATACATCTCAGAGATTTATATGATGCAAGGAATTGTGATTGCAATGACAATA
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 CTCTAGTGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229336 representing NM_173518
Red=Cloning site Green=Tags(s)

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MSNLKMKEAALIYLDRSGGLQKFIDDCYYNDSKQSYAVYRFKILINPSDVVELDAELGNHILHQPLKAA
EVFQSVCFIAVKTLSLIGLQQTETQINI VLKLT HLPPLPSYGLDLCEFPDYTSQRFYMMQGIVIAMTTI
TKYTQGARFLCSDEACPLSKGFQYIRVHVPGATESATIRNDFLCNL CASSLQEDRKFRVLGDKQIVEIIA
TKALRAFQGYSNQPPFRFQSLTIFLRDESYNKMNI GNEYKIIIGIPTCVKTSQTAVCIEANSITFCNSKVP
SGISDNFRCLLSLTSSSCWKFTAILANIFASQITPPGTYNLLKLCLLMSLVQTTDRNKELEDCLDILIIIT
SDTLLIDRLLNFSINLVPRGIRHLVSTEIFPTLSRNKYGTGAVSIQAGSALLAKGGICF IGDLASHKDK
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LVEAFGLLINCNESSPCHPFLPTVQHTLNKAINPEGLFYAASRQFTTDFEKLLAFAKNLNVEFSLEAER
MTHGYLASRRIRTGSVCGSKLSASALKYLVFLSEAHARLNLRNKV LKEDVLIALLFETSLTKYGATV
FCVAPNAVFPFELYNEEYLEQRDLYL TQCQQLEQFIATYGP GTTIFSSDE
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8072_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173518

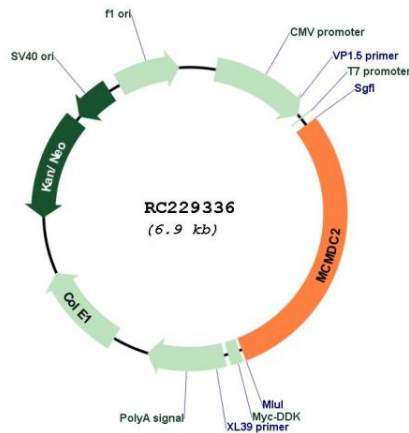
ORF Size: 2043 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_173518.5</u>
RefSeq ORF:	2046 bp
Locus ID:	157777
UniProt ID:	<u>Q4G0Z9</u>
Cytogenetics:	8q13.1
MW:	76 kDa
Gene Summary:	Plays an important role in meiotic recombination and associated DNA double-strand break repair.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229336