

Product datasheet for **SC325218**

C8orf45 (MCMDC2) (NM_001136161) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C8orf45 (MCMDC2) (NM_001136161) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCMDC2
Synonyms:	C8orf45
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001136161, the custom clone sequence may differ by one or more nucleotides

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ATGTCAAATCTAAAAATGAAAGAGGCGGCCCTCATCTATCTTGACAGAAGTGGAGGCCTC
CAAAAGTTTATAGATGATTGCAAGTACTACAATGATTCAAACAAAGCTATGCTGTCTAT
CGATTCAAAATTTAATAAATCCCTCTGATGTTGTTGAATTAGATGCTGAGCTTGAAAT
CACATTTTACACCAACCTTTAAAAGCTGCTGAAGTCTTTCAATCAGTCTGTTTTATTGCT
GTTAAGACTCTCTCATTAATTGGACAATTGCAGACTGAAACGCAATTAATATAGTGCTG
AAATTAACACATTTACCTCCCCTGCCAAGTTATGGTCTTGATCTTTGTGAGTTTCCACTT
GATTATACATCTCAGAGATTTTATATGATGCAAGGAATTGTGATTGCAATGACACTATA
ACCAAGTATACACAAGGGGCAAGATTTCTTTGTTGAGTGAAGCATGCCCTCTTTCAAAA
GGATTTTCAGTATAAAGAGTGCATGTGCCTGGTGTACAGAATCTGCAACGATAAGAAAT
GACTTTTTGTGTAATCTATGTGCATCTTCACTTCAAGAAGACAGAAAATTTAGAGTACTT
GGTGATAAACAAATAGTTGAAATAATTGCCACAAAGGCACTTCGTGCTTTTCAAGGATAT
TCTAACACCAGCCATTTAGGTTTCAATCACTTACAATTTTCTAAGAGATGAATCAGTG
AATAAAATGAATATAGGAAATGAATATAAAATTATTGGAATTCACCTGTGTAACCAAC
TCACAAACTGCTGTCTGTATAGAAGCAAATAGCATAACTTTTTGTAAATCAAAGTTCTCT
TCAGGAATTAGTGACAACCTTCAGGTGTCTCCTCTCCTTAACCTCCAGCTCATGCTGGAAG
TTTACAGCAACTTGGCAATATCTTTGCATCACAAATACCCTCCTGGGACTTACAAT
TTGCTCAAGCTCTGTTTGTGATGAGTCTAGTACAGACAAGTACCGTAACAAGGAACTG
GAAGATTGCTGGATATTTAATTATAACAAGTACTACTCATAGACAGGCTTCTG
AATTTTAGCATAAACCTTGTCCTCCCGTGGTATACGTCATCTAGTCTACTGAAATTTTT
CCCCTCTATCCAGGAATAAGTATGGAAGTGGAGCAGTTAGCATTGAGGCTGGCAGTGTCT
TTGCTAGCTAAAGGTGGTATCTGCTTTATAGGAGACTTGGCTTACACAAAAAAGATAAA
CTTGAACAGCTTCAAACAGTTCTGGAGAGCAGAAGCATCACAGTGTACATCCCAGGAAAG
AAGTTTGGGAGGATATTGATCAACAGATGACTTTTCCAGTTCAGTGCAGTTTTTGGTCT
TTTGTGATGTGGATTCTCTTCAAGGAGAAATGCACAGAAAATCAACACTCTAATTGGT
CAGATGGATTGCAGTTTATTCCAGCTAACCTTGTGGAGGCATTTGGTTTATTGATTAAC
TGCAACGAGTCTCTCCCTGCCACCCATTTCTTCTACTGTGCAACACACTTTGAACAAA
GCCATTAATCCTGAAGGGCTGTTTTATGCGGCTTCTAGACAGTTCACAACCTGAAGATTTT
GAAAAGCTATTGGCTTTTGCAGAAATTTGAATGTAGAATTCAGCTTGGAAAGCAGAAAGA
ATGACCCATGGCTATTATCTAGCAAGTGCAGAAATCAGAACAGGCTCTGTATGTGGATCA
AAGCTGTCAGCATCTGCATTAATAATATCTG

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- Restriction Sites:** Please inquire
- ACCN:** NM_001136161
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:

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_001136161.1](#), [NP_001129633.1](#)

RefSeq Size: 2399 bp

RefSeq ORF: 1773 bp

Locus ID: 157777

UniProt ID: [Q4G0Z9](#)

Cytogenetics: 8q13.1

Gene Summary: Plays an important role in meiotic recombination and associated DNA double-strand break repair.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in the 3' UTR and 3' coding region, compared to variant 1. The resulting isoform (c) is shorter and has a distinct C-terminus, compared to isoform a.