

Product datasheet for **RG227917**

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:	TurboGFP
Symbol:	MCMDC2
Synonyms:	C8orf45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227917 representing NM_001136161
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGAGGCGGCCCTCATCTATCTTGACAGAAGTGAGGCCTCCAAAAGTTTATAGATGATTGCAAGT
 ACTACAATGATTCAAAACAAAGCTATGCTGTCTATCGATTCAAAATTTAATAAAATCCCTCTGATGTTGT
 TGAATTAGATGCTGAGCTTGAAATCACATTTTACACCAACCTTTAAAAGCTGCTGAAGTCTTTCATCA
 GTCTGTTTTATTGCTGTTAAGACTCTCTCATTAATTGGACAATTGCAGACTGAAACGCAAATTAATATAG
 TGCTGAAATTAACACATTTACCTCCCCTGCCAAGTTATGGTCTTGATCTTTGTGAGTTTCCACTTGATTA
 TACATCTCAGAGATTTTATGATGCAAGGAATTGTGATTGCAATGACAATAACCAAGTATACACAA
 GGGGCAAGATTTCTTTGTCAGATGAAGCATGCCCTCTTCAAAGGATTTCAAGTATATAAGAGTGCATG
 TGCTGGTGTACAGAATCTGCAACGATAAGAAATGACTTTTTGTGTAATCTATGTCATCTTCACTTCA
 AGAAGACAGAAAATTTAGAGTACTTGGTGATAACAAATAGTTGAAATAATTGCCACAAAGGCATTCGT
 GCTTTTCAAGGATATTCTAACAACCAGCCATTTAGGTTTCAATCACTTACAATTTTCTAAGAGATGAAT
 CAGTGAATAAAATGAATATAGGAAATGAATATAAAATTTGGAATTCACCTGTGTAACCTCACAA
 AACTGCTGTCTGTATAGAAGCAAATAGCATAACTTTTTGTAATTCAAAAGTTCCTTCAGGAATTAGTGAC
 AACTTCAGGTGTCTCCTCTCCTTAACTCCAGCTCATGCTGGAAGTTTACAGCAATACTTGCCAATATCT
 TTGCATCACAAATACCCTCCTGGGACTTACAATTTGCTCAAGCTCTGTTTGTGATGAGTCTAGTACA
 GACAACTGACCGTAACAAGGAAGTGAAGATTGCCTGGATATTTAATTATAACAAGTGACTCTACTC
 ATAGACAGGCTTCTGAATTTTAGCATAAACCTTGTCCCGGTGATACGTCATCTAGTCTACTGAAA
 TTTTCCCACTCTATCCAGGAATAAGTATGGAAGTGGAGCAGTTAGCATTGAGGCTGCTGCTTTGCT
 AGCTAAAGGTGGTATCTGCTTTATAGGAGACTTGGCTTACACAAAAAAGATAAACTTGAACAGCTTCAA
 ACAGTTCTGGAGAGCAGAAGCATCACAGGTACATCCCAGGAAAGAGTTTGGGAGGATATTGATCAAC
 AGATGACTTTTCCAGTTCAGTGCAGTTTTTGGTCTTTTGTGATGTGGATTATCTTCAAGGAGAAATGC
 ACAGAAAATCAACTCTAATTGGTTCAGATGGATTGCAGTTTATTCCAGCTAACCTTGTGGAGGCATTT
 GGTATTATTGATTAAGTCAACGAGTCTCTCCCTGCCACCCATTTCTTCTACTGTGCAACACACTTTGA
 ACAAGCCATTAATCCTGAAGGGCTGTTTTATGCGGCTTCTAGACAGTTCACAAGTGAAGATTTGAAA
 GCTATTGGCTTTTCAAAGAATTTGAATGTAGAATTCAGCTTGAAGCAGAAAGAATGACCCATGGCTAT
 TATCTAGCAAGTGCAGAATCAGAACAGGCTCTGTATGTGGATCAAAGCTGTCAGCATCTGCATTA
 ATCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227917 representing NM_001136161
 Red=Cloning site Green=Tags(s)

MKEAALIYLDKRSGLQKFIIDCKYNDKQSYAVYRFKILINPSDVVELDAELGNHILHQPLKAAEYFQS
 VCFIYVAVKTLVSLIGQLQTEITQINIVLKLTHLPPLPSYGLDLCEFLDYTSQRFYMMQGIIVIAMTTITKYTQ
 GARFLCSDEACPLSKGFQYIRVHVPGATESATIRNDFLCNLCASSLQEDRKFRVLGDKQIVEIATKALR
 AFQGYSNQPFQSLTIFLRDESVMNIGNEYKIIIGIPTCVKTSQTAVCIEANSITFCNSKVPVSGISD
 NFRCLLSLTSSSCWKFTAILANIFASQITPPGTYNLLKLLMSLVQTTDRNKELEDCLDILIIITSDTL
 IDRLLNFSINLVPRGIRHLVSTEIFPTLSRNKYGTGAVSIQAGSALLAKGGICFIDGLASHKKDKLEQLQ
 TVLESRSITVYIPGKKFGEDIDQQTFFPVQCSFWSFVDVSSRRNAQKINTLIGQMDCSLIPANLVEAF
 GLLINCNESSPHFLPTVQHTLNKAINPEGLFYAASRQFTTEDFEKLLAFKLNVEFSLEAERMTHGY
 YLASRRIRTSVCGSKLSASALKYL

TRTRPLE – GFP Tag – V

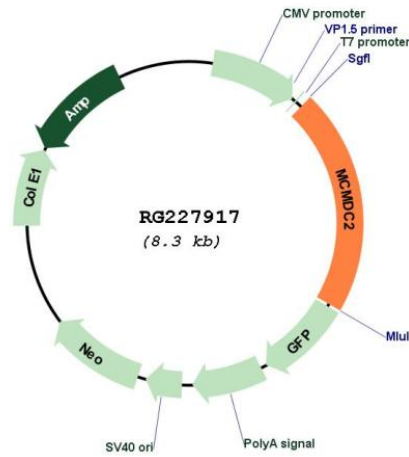
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001136161

ORF Size: 1770 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:	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]