

Product datasheet for **RG229336**

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:	TurboGFP
Symbol:	C8orf45
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:**

>RG229336 representing NM_173518
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGTCAAATCTAAAAATGAAAGAGGCGGCCCTCATCTATCTTGACAGAAGTGAGGCCTCCAAAAGTTTA
 TAGATGATTGCAAGTACTACAATGATTCAAAACAAAGCTATGCTGTCTATCGATTCAAAATTTTAATAAA
 TCCCTCTGATGTTGTTGAATTAGATGCTGAGCTTGAAATCACATTTTACACCAACCTTTAAAGCTGCT
 GAAGTCTTTCAATCAGTCTGTTTTATTGCTGTTAAGACTCTCTCATTAATTGGACAATTGCAGACTGAAA
 CGCAAATTAATATAGTGTGAAATTAACACATTTACCTCCCTGCCAAGTTATGGTCTTGATCTTTGTGA
 GTTCCACTTGATTATACATCTCAGAGATTTATATGATGCAAGGAATTGTGATTGCAATGACAACTATA
 ACCAAGTATACACAAGGGCAAGATTTCTTTGTTGAGTGAAGCATGCCCTCTTTCAAAGGATTTTCAGT
 ATATAAGAGTGCATGTGCTGGTGTACAGAATCTGCAACGATAAGAAATGACTTTTTGTGAATCTATG
 TGCATCTTCACTTCAAGAAGACAGAAAATTTAGAGTACTTGGTGATAACAAATAGTTGAAATAATTGCC
 ACAAAGGCACTTCGTGCTTTTCAAGGATATTCTAACAACCAGCCATTTAGGTTTCAATCACTTACAATTT
 TCTAAGAGATGAATCAGTGAATAAATGAATATAGGAAATGAATATAAAATTATTGGAATTCACACCTG
 TGTAAAAACCTCACAACCTGCTGTCTGTATAGAAGCAATAGCATAACTTTTTGTAATTCAAAAGTTCCT
 TCAGGAATTAGTGACAACCTCAGGTGTCTCCTCTCCTTAACCTCCAGCTCATGCTGGAAGTTTACAGCAA
 TACTTGCCAATATCTTTGCATCACAATTACCCCTCCTGGGACTTACAATTTGCTCAAGCTCTGTTTGT
 GATGAGTCTAGTACAGACAACGACCGTAACAAGGAAGTGAAGATTGCTGGAATTTTAAATTATAACA
 AGTGATACTCTACTCATAGACAGGCTTCTGAATTTAGCATAAACCTTGCCCCGTGGTATACGTCATC
 TAGTCTCTACTGAAATTTTCCCACTCTATCCAGGAATAAGTATGGAAGTGGAGCAGTTAGCATTACAGG
 TGGCAGTGCTTTGCTAGCTAAAGGTGGTATCTGCTTTATAGGAGACTTGGCTTCACACAAAAAGATAAA
 CTTGAACAGCTTCAAACAGTTCTGGAGAGCAGAAGCATCACAGTGTACATCCAGGAAAGAGTTTGGGG
 AGGATATTGATCAACAGATGACTTTTCCAGTTCAGTGCAGTTTTTGGTCTTTTGTGATGTGGATTCATC
 TTCAAGGAGAAATGCACAGAAAATCAACACTCTAATTGGTCAGATGGATTGCAGTTTGATTCCAGCTAAC
 CTTGTGGAGGCATTTGGTTTATTGATTAAGTCAACGAGTCATCTCCTGCCACCCATTTCTTCTACTG
 TGCAACACACTTTGAACAAAGCCATTAATCCTGAAGGGCTGTTTTATGCGGCTTCTAGACAGTTCACAAC
 TGAAGATTTTGAAGCTATTGGCTTTTGCAAAGAATTTGAATGTAGAATTCAGCTTGAAGCAGAAAGA
 ATGACCCATGGCTATTATCTAGCAAGTCGAGAATCAGAACAGGCTCTGTATGTGGATCAAAGCTGTCAG
 CATCTGCATTAATAATATCTCGTTTTCTATCTGAAGCCCATGCACGACTGAACCTAAGGAACAAAGTGCT
 TAAAGAAGATGTGCTGATTGCAGCCTTACTATTTGAAACATCCCTCACATTGAAATATGGGGCCACTGTA
 TTTTGTGTTGCTCCGAATGCAGTATTTCCATTTGAACTGTATAATGAAGAATACTTAGAGCAAAGGGATC
 TCTATCTGACTCAGTGCCAACAACAGCTGGAACAATTTATTGCCACATATGGACCTGGGACAACATTTTT
 CTCTAGTGATGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG229336 representing NM_173518
 Red=Cloning site Green=Tags(s)

MSNLKMEAAIYLD RSGGLQKFID DCKYYNDSKQSYAVYRFKILINPSDVVELDAELGNHILHQPLKAA
 EVFQSVCFI AVKTL SLIGQLQTETQINIVLKLTHLPPLPSYGLDLCEFPDYTSQRFYMMQGIVIAMTTI
 TKYTQGARFLCSDEACPLSKGFQYIRVHVPGATESATIRNDFLCNL CASSLQEDRKFRVLGDKQIVEIIA
 TKALRAFQGYSNQPPRFQSLTIFLRDESYNKMNIGNEYKIIIGIPTCVKTSQTAVCIEANSITFCNSKVP
 SGISDNFRCLLSLTSSSCWKFTAILANIFASQITPPGTYNLLKLCLLSLVQTTDRNKELEDCLDILIIIT
 SDTLLIDRLLNFSINLVPRGIRHLVSTEIFPTLSRNKYGTGAVSIQAGSALLAKGGICFIDGLASHKKDK
 LEQLQTVLESRSITVYIPGKKFGEDIDQMTFPVQCSFWSFVDVDSSRRNAQKINTLIGQMDCSLIPAN
 LVEAFGLLINCNESSPCHPFLPTVQHTLNKAINPEGLFYAASRQFTTDFEKL LAFAKNLNVEFSLEAER
 MTHGYLASRRIRTSVCGSKLSASALKYLVFLSEAHARLNLRNKVLKEDVLIAALLFETSLTKYGATV
 FCVAPNAVFPFELYNEEYLEQRDLYL TQCQQLEQFIATYGP GTTIFSSDE

TRTRPLE - GFP Tag - V

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:

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_173518.5](#)

RefSeq Size: 5114 bp

RefSeq ORF: 2046 bp

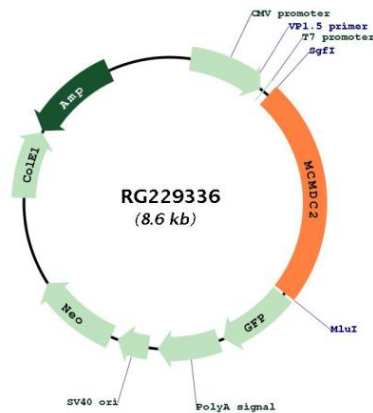
Locus ID: 157777

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]

Product images:



Circular map for RG229336