

Product datasheet for **MG209818**

3110002H16Rik (NM_029623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	3110002H16Rik (NM_029623) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	3110002H16Rik
Synonyms:	2400010D15Rik; Mic-1; Mic1; Rmc1; Wdr98
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209818 representing NM_029623
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGGCGGCGAGGACTACTACCTGGAGCTGTGCGAGCGGCCGGTGCAGTTCGAGAAGGCCAACC GGTTA
ACTGCGTGTTCCTCGATGAGGCCAACAAAGCAGGTTTTTGCTGTTCCGGTCGGTGGAGCTACAGGAGTGGT
CGTTAAAGGCCAGATGATAGGAATCCCATCTCTTTTAGGATGGACGACAGAGGAGAGGTGAAGTGCATC
AAGTTTTCTTTAGAAAACAAGATCCTGGCTGTGCAGAGGACTGCGAAGGCTGTGGACTTTTGTAAATTTTA
TTCCAGATAACTCTCAACTGGAGTACACACAAGAGTGCAAGACCAAGAATGCCAACATACTAGGATTCTG
CTGGACCAGCTCTACTGAGATCGTCTTCATAACTGACCAAGGCATCGAATTTTACCAGGTGATGCCTGAG
AAACGAAGCCTCAAACCTCTGAAGAGTCAACATCAATGTGAACTGGTACACGTATTGCCCGAGAGCG
CCGTGATCCTGTGTCCACCACAGTCTTGAGAATGTCTGCAGCCTTTCCATTTTAGGGCTGGCACCAT
GTCGAAGCTTCCCAAGTTCGAGATTGAGTTACCAGCTGCACCGAAGTCAACTAAACTTAGCCTTTCAGAA
CGAGACATTGCGATGGCGACCATATACGGGCAGCTTTACATCCTCTTCTGCGCCATCACTCTCGGACGT
CTAACAGCACGGGAGCGGAGGTGGTGTGTACCATCTCCACGAGAGGGTGCATGTAAAAAGATGCACAT
ACTGAAGTTAAATAGGACGGGAAAGTTTGCCTAAATGTAGTGGACAACCTGGTCTGTGTCCACCATCAG
GACACAGAGAGCTCAGTGATATTTGACATCAGGCTACGGGGCGAGTTCGATGGCAGCGTTACCTTCCATC
ATCCTGTGCTTCCAGCCCGATCAATTCACCTTACGAGATCCCCCTGGCAGGTCTGCAGCCGTGACCAG
CCAGTCTCCTGTCCCCTGTAACCTCTATTCCTCTTCATGGATCGTCTTCAACCAGACATCATTATCAGT
GCAAGCCAAGGTTACCTCTGGAACCTGCAGGTGAACTTCAGCCCATAGTGAATCTTTGCCAGATAAAG
GAAGCTGATGGACTTTCTCCTCCAGAGGAAGGAGTGCAAGGCGGTGGTCTGTGTGTGTTCACAGAT
GCTGAGTGAGTCAGACAGAGCCACGCTGCCTGTGATAGCCACCGTGTGATAAACTCAACCATGAGTAT
AAGAAGTACTTGATGCTGATCAGAGCTACACAATGGCAGTAGAAGCAGGGCAGAGCCGGAGCAACCCAC
CTCTCAAAGGCCAGTGCGAACCCAAGCAGTGGTGGACCAGTCTGATGTGTACACACAGGTGCTGTCAAC
ATTCGTGGAAAACAAGGAGATGCCGCACAAGTTTGTGATAGCTGTGCTGATGGAATATATCCGTTCTCTG
AACCAGTTTCAGATTCAGTGCAGCACTACTTACATGAACTTGCATCAAGACACTGGTCCAGCATAACC
TCTTCTACATGCTGCACCAGTTCCTGCAGTACCACGTGCTCAGCGACTCCAAGCCTTTGGCTTGCTTGCT
GCTGTCCCTAGAGAGCTTTTATCCTCCC GCCACCAGCTATCTCTGGACATGTTGAAGAGACTTTCAACA
GCAAATGATGAGATAGTAGAAGTTCTTCTGTCTAAACACCAGGTGTTGGCTGCCCTGAGGTTTCATCCGGG
GCATTGGTGGCCATGACAACATTTCTGCTCGCAAATCTTAGATGCTGCGAGGCAGACCGACGATGTCAT
GCTCTTCTATAACCATATTCGGCTCTTTGAACAGCGGAACCAGCGCTGCGAGGGGAACCTAACTTCACA
CCAGGAGAGCACTGTGAAGAACAGTTCCTTTTCAAGCAGGTTTTTGGAGAACAAGCTCTAATGAGGC
CTACAACATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209818 representing NM_029623
Red=Cloning site Green=Tags(s)

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MGGEDYYLELCERPVPQFEKANPVNVCVFFDEANKQVFAVRSGGATGVVVKGPDDRNPISFRMDDRGEVKCI
KFSLENKILAVQRTAKAVDFCNFIPDNSQLEYTQECKTKNANILGFCWTSSTEIVFITDQGIIFYQVMPE
KRSLKLLKSHNINVNWYTYCPESAVILLSTTVLENLQPFHFRAGTMSKLPKFEIELPAAPKSTKLSLSE
RDIAMATIYGQLYILFLRHHSRTSNSTGAEVVL YHLPREGACKMHILKLNRTGKFALNVVDNLV VVHHQ
DTETSVIFDIRLRGEFDGTVTFHHPVLPARSIQPYEIPLAGPAAVTSQSPVPCLYSSSWIVFQPDIIIS
ASQGYLWNLQVKLQPIVNL L PDKGRLMDFLLQRKECKAVVLSVCSQMLSESDRATLPVIATVFDKLNHEY
KKYLDADQSYTMAVEAGQSRNPPLKRPVRTQAVVDQSDVYTQVLSPFVENKEMPHKFVIAVLM EYIRSL
NQFQIPVQHYLHELVIKTLVQHNLFYMLHQFLQYHVLSDSKPLACLLLSLESFYPPAHQLSLDMLKRLST
ANDEIVEVLLSKHQVLAALRFIRGIGGHDNISARKFLDAARQTDVMLFYTIFRFFEQRNQLRGNPNFT
PGEHCEEHVAFKQVFGEQALMRPTTF
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029623

ORF Size: 1971 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_029623.1](#)

RefSeq Size: 2134 bp

RefSeq ORF: 1974 bp

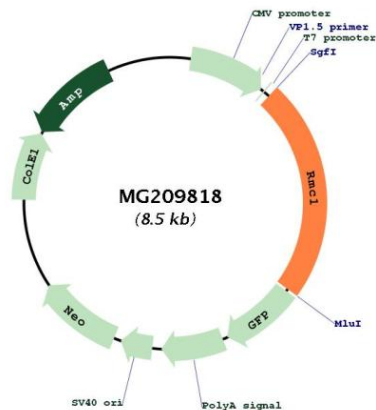
Locus ID: 76482

UniProt ID: [Q8VC42](#)

Cytogenetics: 18 A1

Gene Summary: Component of the CCZ1-MON1 RAB7A guanine exchange factor (GEF). Acts as a positive regulator of CCZ1-MON1A/B function necessary for endosomal/autophagic flux and efficient RAB7A localization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209818