

## Product datasheet for **MC220145**

### **3110002H16Rik (NM\_029623) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	3110002H16Rik (NM_029623) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	3110002H16Rik
Synonyms:	2400010D15Rik; Mic-1; Mic1; Rmc1; Wdr98
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220145 representing NM\_029623  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCGGCGAGGACTACTACCTGGAGCTGTGCGAGCGGCCGGTGCAGTTCGAGAAGGCCAACC GGTTA  
 ACTGCGTGTTCCTCGATGAGGCCAACAAGCAGGTTTTTGCTGTTCCGGTCGGTGGAGCTACAGGAGTGGT  
 CGTTAAAGGCCCAGATGATAGGAATCCCATCTCTTTTAGGATGGACGACAGAGGAGAGGTGAAGTGCATC  
 AAGTTTTCTTTAGAAAACAAGATCCTGGCTGTGCAGAGGACTGCGAAGGCTGTGGACTTTTGTAAATTTTA  
 TTCCAGATAACTCTCAACTGGAGTACACACAAGAGTGCAAGACCAAGAATGCCAACATACTCGGATTCTG  
 CTGGACCAGCTCTACTGAGATCGTCTTCATAACTGACCAAGGCATCGAATTTTACCAGGTGATGCCTGAG  
 AAAGCAAGTCTCAAACCTCTGAAGAGTCAACATCAATGTGAAGTGGTACACGTATTGCCCGAGAGCG  
 CCGTGATCCTGTGTCCACCACAGTCTTGAGAATGTCTGCAGCCTTTCCATTTTAGGGCTGGCACCAT  
 GTCGAAGCTTCCCAAGTTCGAGATTGAGTTACCAGCTGCACCGAAGTCAACTAAACTTAGCCTTTCAGAA  
 CGAGACATTGCGATGGCGACCATATACGGGCAGCTTTACATCCTCTTCTGCGCCATCACTCTCGGACGT  
 CTAACAGCACGGGAGCGGAGGTGGTGTGTACCATCTCCACGAGAGGGTGCATGTAAAAAGATGCACAT  
 ACTGAAGTTAAATAGGACGGGAAAGTTTGCCTAAATGTAGTGGACAACCTGGTCTGTGCCACCATCAG  
 GACACAGAGAGCTCAGTGATATTTGACATCAGGCTACGGGGCGAGTTCGATGGCAGCGTTACCTCCACC  
 ATCCTGTGCTTCCAGCCCGATCAATCAACCTTACGAGATCCCCCTGGCAGGTCTGCAGCCGTGACCAG  
 CCAGTCTCCTGTCCCCTGTAACCTCTATTCCTCTTCATGGATCGTCTTCAACCAGACATCATTACAGT  
 GCAAGCCAAGGTTACCTCTGGAACCTGCAGGTGAAACTTCAGCCCATAGTGAATCTTTGCCAGATAAAG  
 GAAGGCTGATGGACTTTCTCCTCCAGAGGAGGAGTGCAAGCGGTGGTCTGTGTGTTCACAGAT  
 GCTGAGTGAGTCAGACAGAGCCACGCTGCCTGTGATAGCCACCGTGTGATAAACTCAACCATGAGTAT  
 AAGAAGTACTTGATGCTGATCAGAGCTACACAATGGCAGTAGAAGCAGGGCAGAGCCGGAGCAACCCAC  
 CTCTCAAAGGCCAGTGCGAACCCAAGCAGTGGTAGACCAGTCTGATGTGTACACACAGGTGCTGTCCACC  
 ATTCGTGGAAAACAAGGAGATGCCGCACAAGTTTGTGATAGTGTGCTGATGGAATATATTCGTTCTCTG  
 AACAGTTTCAGATTCAGTGCAGCACTACTTACATGAACTTGTGATCAAGACACTGGTCCAGCATAACC  
 TCTTCTACATGCTGCACCAGTTCCTGCAGTACCAGTGTCTCAGCGACTCCAAGCCTTTGGCTTGTGTCT  
 GCTGTCCCTAGAGAGCTTTTATCCTCCC GCCACCAGCTATCTCTGGACATGTTGAAGAGACTTTCAACA  
 GCAAATGATGAGATAGTAGAAGTCTTCTGTCTAAACACCAGGTGTTGGCTGCCCTGAGGTTTCATCCGGG  
 GCATTGGTGGCCATGACAACATTTCTGCTCGCAAATCTTAGATGCTGCGAGGCAGACCCAGCATGTCAT  
 GCTCTTCTATAACCATATTCGGCTCTTTGAACAGCGGAACCAGCGCTGCGAGGGAAACCCTAACTCACA  
 CCAGGAGAGCACTGTGAAGAACAGCTTGCCTTTTTCAAGCAGGTTTTTGGAGAACAAGCTCTAATGAGGC  
 CTACAACATTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_029623
- Insert Size:** 1974 bp
- 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).
- 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\\_029623.2](#), [NP\\_083899.1](#)

**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]