

## Product datasheet for **MC202312**

### Mon1a (NM\_028369) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mon1a (NM_028369) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mon1a
Synonyms:	2810468K17Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC048852 sequence for NM\_028369  
 CTTCTGCGCCGGTGGCCGGTTAAGGGTCGGCAGGAGAGATCGGTTCCCTCCGCTGTGCCATGTCTGTAT  
 CCTCCAGGGGCGGTAGCCCCGCGAAGTTGCACTCTGAGGCCAGGCACTGTGGACTTATATCTTCCCA  
 GGGTCTGGCAGAGGGCAGTGTGGTACCCTCGGTAGGTCTGTGTTTCCCCAAAACAGGACAGCCAA  
 AAGATGGTGTGACATGCAGAGGAAGAGAAGCAGCGAATGCCCGAGGGCAGCTGGTCTCTCCAATG  
 GCCAAAGTGTGAAAGAGCTGAGAGCCCCACGCCAGGACTAACCCAGGGAACGGAGCCAGGTGGGCA  
 GGAGGGTGCATGTTTCGTCCATACACGTTCTATGAAGACCTGACAGAGTTAGAAGACAGAGAAGCTTCT  
 GGGGACAGCCCCAAAGAGTGCCTTGGGAGTCCCCACCCTGGCTACGGACATGCCAGATTAGCCAGG  
 ACTTCAGCGAGCTAAGCACCCAGCTGACCGGTGTGGCCCGGACCTGCAGGAGGAAATGCTGCCAGGAAG  
 CTCTGAAGACTGGCCGAGCCCCAGGGCGAGCTGGCCGAGGAGCAGCCACAGAGCCCTCCCAAGAAGGC  
 TCAACTGAAGGGGAAGAGGAAGACGCTACGGAGGCATGGCGTCTCCACCAGAAGCATGTGTTTGTACTGA  
 GTGAGGCAGGGAAGCCTGTGATTCTCGCTATGGGTCTGAGGAAGCCCTTCCAGCACTATGGGTGCAT  
 GGTGGCCTGGTGCCTTCTGGAGGCAGACAAGAATGCCATCCGCTCCATCCATGCAGATGGCTACAAG  
 GTAGTATTCGTGCGCCGAGCCCTCTGGTGTGGTGGCGGTGGCCCGCACGGCAGTGGCCAGGAGC  
 TGGCGCAGGAGCTACTGTACATCTACTACCAGATCCTGAGCCTTCTTACCGGCGCGCAGCTGAGCCACAT  
 CTTCAGCAGAAGCAGAAGTACGACCTGCGGCGCCTGCTCTCGGGCTCGGAGCGAATCACCGATAACCTG  
 CTGCAGCTAATGGCTCGAGACCCAGTTTCTGATGGGCGCGGCGGCTGCCTTTGGCAGCGGCCG  
 TGCGGGACACGGTGTGAGTCCAGCCTGCAGCAGGCGCGTGCCTGCAGCCTGGTCTTTTCCATCCTGTGGC  
 CCATAACCAGCTGGTGGCGCTCGTGCGCCGCAAGGACCAATTCCTTATCCCATCGACCTGCACCTGCTT  
 TTCAACCTCATTAGCTCCTCCTCCTTCCGTGAGGGCGAGGCTTGGACCCAGTGTGCCTGCCAAAGT  
 TCAATGCGGCCGGCTTCTTCCACGCACACATCTTTACCTAGAACCTGACACCGACCTCTGCCTGTCTGT  
 GATCTCCACTGACCGTGTGAGGACTTCTTTGCACTCTCTGACTGCCGACGGCGCTTCCAGAACGCCTCCGA  
 AAGCGGGGAACCCATTTGGCCCTGCGGGAGGCGCTGCGCACACCTTACTACAGCGTTGCCAAGTGGGCA  
 TCCTGACCTTCCGCACTTCTCTATAAAATCAAAGAGCTCAGGACTCTTACCAGTCTGAGATTGAGGC  
 CCCGACTCCAGTGAGGAGGAGCAGGAGCGACTGTTGGGCTCTACCAGTACCTGCATAGCCGTGCCAC  
 AATGCCTCTCGCCACTCAAGACCATCTACTACACAGGCCCAATGAGAACCTCTAGCCTGGGTGACAG  
 GTGCCCTTGAAGTCTACATGTGCTACAGCCACTGGGGACCAAGGCATCAGCTGTGAGCGCCATCCATAA  
 GCTGATGCGCTGGATCCGTAAGAGGAAGACCGTCTTTCATCCTCACGCCCTCACCTATTGATGGAGG  
 TGGGAAGGCACTCTGGGCATGGGAAGCCATGGGAGCCTCCAGGTGAGGCTGGCTTCCCCTGCCAGCCAG  
 CAGGCAGGACTGTGGGCTGGTGCCTGCAAGTGCATTAAGTGGTTGAGAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_028369

**Insert Size:** 1671 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: [BC048852](#), [AAH48852](#)

RefSeq Size: 2040 bp

RefSeq ORF: 1671 bp

Locus ID: 72825

UniProt ID: [Q6PDG8](#)

Cytogenetics: 9 F1

**Gene Summary:** Plays an important role in membrane trafficking through the secretory apparatus. Not involved in endocytic trafficking to lysosomes (PubMed:17632513). Acts in concert with CCZ1, as a guanine exchange factor (GEF) for RAB7, promotes the exchange of GDP to GTP, converting it from an inactive GDP-bound form into an active GTP-bound form (By similarity). [UniProtKB/Swiss-Prot Function]