

Product datasheet for **MR208816**

Mon1a (NM_028369) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mon1a (NM_028369) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mon1a
Synonyms:	2810468K17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208816 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCTGACATGCAGAGGAAGAGAAGCAGCGAATGCCCCGAGGGCACACTGGCTCCTTCCAATGGCC
 AAAGTGTGGAAAGAGCTGAGAGCCCCACGCCAGGACTAACCCAGGGAACGAGGCCAGGTGCTGGGCAGGA
 GGGTGCATGTTTCGTCCATACACGTTCTATGAAGACCTGACAGAGTTAGAAGACAGAGAAGCTTCTGGG
 GACAGCCCCAAAGAGTGCCTTGGGAGTCCCCACCACTGGCTACGGACATGCGCCAGATTAGCCAGGACT
 TCAGCGAGCTAAGCACCCAGCTGACCGGTGGGCCGGGACCTGCAGGAGGAAATGCTGCCAGGAAGCTC
 TGAAGACTGGCCGGAGCCCCAGGGCGCAGCTGGCCGAGGAGCAGCCACAGAGCCCTCCAAGAAGGCTCA
 ACTGAAGGGGAAGAGGAAGACGCTACGGAGGCATGGCGTCTCCACCAGAAGCATGTGTTTGTACTGAGTG
 AGGCAGGGAAGCCTGTGTATTCTCGCTATGGGTCTGAGGAAGCCCTTCCAGCACTATGGGTGTCATGGT
 TGCCCTGGTGCCTTCTGGAGGCAGACAAGAATGCCATCCGCTCCATCCATGCAGATGGCTACAAGGTA
 GTATTCGTGCGCCGGAGCCCTCTGGTGTGGTGGCGGTGGCCCGCACGCGCAGTCGGCCAGGAGCTGG
 CGCAGGAGCTACTGTACATCTACTACCAGATCCTGAGCCTTCTTACCGGCGCGCAGCTGAGCCACATCTT
 CCAGCAGAAGCAGAACTACGACCTGCGGCGCTGCTCTCGGGCTCGGAGCGAATCACCGATAACCTGCTG
 CAGCTAATGGCTCGAGACCCAGTTTCTGATGGGCGCGGCGGTGCCTGCCTTTGGCAGCGGCCGTGC
 GGGACACGGTGTGAGTGCAGCCTGCAGCAGGCGCGTGTCTCGCAGCCTGGTCTTTCCATCTGTGGCCCA
 TAACCAGCTGGTGGCGCTCGTGCGCCGAAGGACCAATTCCTTCATCCCATCGACCTGCACCTGCTTTTC
 AACCTCATTAGCTCCTCCTCCTTCCGTGAGGGCGAGGCTTGGACCCAGTGTGCCTGCCAAAGTTCAT
 ATGCGGCCGGCTTCTTCCACGCACACATCTTACCTAGAACCTGACACCGACCTGCTGCTGCTGAT
 CTCCACTGACCGTGAGGACTTCTTTGAGTCTCTGACTGCCGACGCGCTTCCAGGAACGCCTCCGAAAG
 CGGGGAACCCATTTGGCCCTGCGGGAGGCGCTGCGCACACCTTACTACAGCGTTGCCAAGTGGGCATCC
 CTGACCTTCGCCACTTCTCTATAAATCAAAGAGCTCAGGACTCTTACCAGTCTGAGATTGAGGCCCC
 GTACTCCAGTGGGAGGAGCAGGAGCGACTGTTGGGCTCTACCAGTACCTGCATAGCCGTGCCACAAT
 GCCTCTCGCCCACTCAAGACCTACTACTACACAGGCCCAATGAGAACCTCCTAGCCTGGGTGACAGGTG
 CCTTTGAACTCTACATGTGCTACAGCCACTGGGACCAAGGCATCAGCTGTCAGCGCCATCCATAAGCT
 GATGCGCTGGATCCGTAAGAGGAAGACCGTCTCTTCATCCTCACGCCCTCACCTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208816 protein sequence
 Red=Cloning site Green=Tags(s)

MAADMQRKRSSECEPGLAPSNGQSVERAESPTPGLTQGTPEGAGQEGAMFVHTRSYEDLTELEDREASG
 DSPKECVGSPPLATDMRQISQDFSELSTQLTGVARDLQEEMLPGSSEWPEPQGAAGRGAATEPSQEGS
 TEGEEEDATEAWRLHQKHVFLSEAGKPVYSRYGSEEALSSMTGMVALVSFLEADKNAIRSIHADGYKV
 VVRRSPLVAVARTRQSAQELAQELLYIYYQILSLLTGAQLSHIFQQKQNYDLRRLLSGSERITDNL
 QLMARDPSFLMGAARCLPLAAVRDVSASLQARARSLVFSILLAHNQLVALVRRKDQFLHPIDLHLFF
 NLISSSSSFREGEAWTPVCLPKFNAAGFFHAHISYLEPDTDLCLLLISTDREDFFAVSDCRRRFQERLRK
 RGTHLALREALRTPYYSVAQVGIPLDRHFLYKSKSSGLFTSPEIEAPYSSEEEQERLLGLYQYLHRAHN
 ASRPLKTIYYTGPENLLAWVTGAFELYMCYSPLGKASAVSAIHKLMRWIRKEEDRLFILTPLTY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028369

ORF Size: 1671 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_028369.1](#), [NM_028369.2](#), [NM_028369.3](#), [NP_082645.1](#)
RefSeq Size: 2112 bp

RefSeq ORF: 1671 bp

Locus ID: 72825

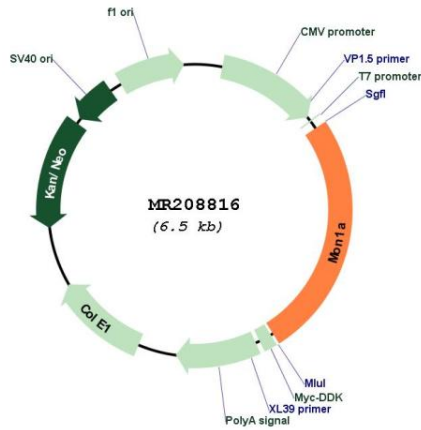
UniProt ID: [Q6PDG8](#)

Cytogenetics: 9 F1

MW: 62.1 kDa

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]

Product images:



Circular map for MR208816