

Product datasheet for MR201113

Mal (NM_010762) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mal (NM_010762) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mal
Synonyms: Mpv17; VI; Vip17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201113 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTCCGGCAGCGCTTCGGGTGGCAGCACCTGCCAGTGGCTTCTCGGTCTTCACCACCTTCCCTG
 ACTTGCTCTTCGTTTGTGAGTTTGTCTTTGGAGGCCTGGTGTGGATCCTGATTGCCTCCTCCCTGGTACC
 CTTGCCCTGGCCAGGGCTGGGTGATGTTTGTGTCTGTGTTCTGCTTTGTGGCCACCACTTCCCTGATG
 ATCTTGACATAATTGGTACTCATGGCGGTGAGACTTCCTGGATCACACTGGATGCAGCCTACCACTGTG
 TGGCTGCCCTATTTACCTCAGTGCCTCAGTTCTGGAAGCCCTGGCCACCATCTCAATGTTTGATGGCTT
 TACTTACAAGCATTACCATGAAAACATCGCCGAGTGGTGTTCCTACGTGGTCACTCTGATCTACGTG
 GTCCATGCTGTGTTTTCCTTAATCAGATGGAAGCTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201113 protein sequence
 Red=Cloning site Green=Tags(s)

MAPAAASGGSTLPSGFSVFTTFPDLLFVCEVFVGGLVWILIASSLVPLPLAQGWVMFVSVFCFVATTSLM
 ILYIIGHGGETSWITLDAAYHCVAALFYLSASVLEALATISMFDGFTYKHYHENIAAVVFAYVVTLIYV
 VHAVFSLIRWKSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_010762

ORF Size: 459 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010762.5](#)

RefSeq Size: 2792 bp

RefSeq ORF: 462 bp

Locus ID: 17153

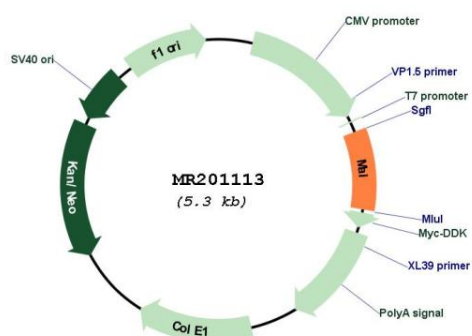
UniProt ID: O09198

Cytogenetics: 2 F1

MW: 16.6 kDa

Gene Summary: This gene encodes a highly hydrophobic integral membrane protein belonging to the MAL family of proteolipids. The encoded protein has been localized to the endoplasmic reticulum of T-cells and is a candidate linker protein in T-cell signal transduction. In addition, this proteolipid is localized in compact myelin of cells in the nervous system and has been implicated in myelin biogenesis and/or function. The protein plays a role in the formation, stabilization and maintenance of glycosphingolipid-enriched membrane microdomains. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

Product images:



Circular map for MR201113