

Product datasheet for **SC124307**

MAL (NM_022440) Human Untagged Clone

Product data:

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|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | MAL (NM_022440) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MAL |
| Synonyms: | MVP17; VIP17 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_022440, the custom clone sequence may differ by one or more nucleotides |

[ATGGCCCCGCAGCGGGACGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTCACCACCTTGCCCG
ACTTGCTCTTCATCTTTGAGTTTGTGTTCTCCTACATAGCCACTGCTCTACGTGGTCCATGCGGTGTT
CTCTTTAATCAGATGGAAGTCTTCATAA](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022440 unedited
TCAAAATTTGTATACGACTCATATAGGCGCCGCGACTTCGGCAGGAGCCAGCGAGA
GGTCTGCGGGAGTCTGAGCGGGCTCGTCCCGTCCCAAGGCCGACGCCAGCACGCCGTC
ATGGCCCCGCAGCGGGACGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTCACC
ACCTTGCCCGACTTGCTCTTCATCTTTGAGTTTATCTTCGGGGCCTGGTGTGGATCCTG
GTGGCCTCCTCCCTGGTGCCTGGCCCCCTGGTCCAGGGCTGGGTGATGTTCTGTCTGTG
TTCTGCTTCGTGGCCACCACCACCTTGATCATCCTGTACATAATTGGAGCCACGGTGA
GAGACTTCTGGGTCACCTTGGACGCAGCCTACCACTGCACCGCTGCCCTCTTTACCTC
AGCGCCTCAGTCTGGAGCCCTGGCCACCATCACGATGCAAGACGGCTTACCTACAGG
CACTACCATGAAAACATTGCTGCCGTGGTGTCTCCTACATAGCCACTCTGCTCTACGTG
GTCCATGCGGTGTTCTCTTTAATCAGATGGAAGTCTTCATAAAGCCGAGTAGAAGTTGA
GCTGAAAACCCAGATGGTGTAACTGGCCGCCCACTTTCCGGCATAACTNNTTAGAAAA
CAGAAATGCCCTTGATGGTGGAAAAAGAAAAACAACACCCCCCACTGCCCAAAAANAA
AGCCCTGCCCTGTTGCTCGTGGGTGCTGTGTTACTCTCCGTGTGCCTCCGTNCGGTTGG
GAGCTGCTGGTCTACCTNCACTGCTGGCTGCTGCTAGGTCACTNCTGTTGTGAAGGGACC
TCTTGTCCGGGTGGGAAGTGCACCCGACTGAAAGAAAAGATCTTTGTGACCTGGACAGT
TCAA



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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_022440 unedited CGGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGAACATTAACACTTTTATAAA GTATTTTACAGGGTTATCGTCTTCCACCATGGACCTCTGGAAAGATCTGTTGGGTGAGTT TTAGTCCCATGACATGCAGAACATCCATGAAGACTTAAACATGGCACAAGATGGGGCG CTCGGGAGAGCTTGTGGACAATACCAACAGGTAGTTCTCGAGAGCTGCTCCAGGGTCCAG CAGAGGATCTTTCTTTCTTCTCAGGTCACGGTCGCCACTTCCCACCCCGAACAAGAAG GTCCCCTTTCAAAACAGGAGGTGACCCTAGCAGACAGCACAGCAGTTGGAGTTAGACA CAGCAAGCTCCCAACCCGACGCGAAGGCACACGGGAGAGTAAACACAGCACCCACGAGC AACAGGGCAGGGCTTTTTTTTTTTGGGCAGTGGGGGGTGGTTGTTTTCTTTTTCCACC ATCAAGGGCATTCTGTTTTCTAAAAAGTTATGCCGAAAGTGGGGCGGCCAGTTAACAC CATCTGGGTTTTTCTAGCTCAAGTTCTACTGCGGCTTTATGAAGACTTCCATCTGATTAAG AGAACACCCGATGGACCACGTAGAGCAGAGTGGCTATGTAAGAGAACACCACGGCAGCAA TGTTTTCATGGTAGTGCCTGTAAGTGAACCCCTGCATCGCGATGGTGGCCACGGCT CCATGACTGAAGCGCCGAAGTAAAGAAGGCAACGGTGCATTGGTAAGCTGCCCTCCAA GTGACCCAAGAAATCTTTCACCCGGGGCTCCAATCTTGTCCAAGATGATCCAAGGGGCG GGTGCCCCGAATCAAAACACATACCGAACTCTCCCACCCCTGGACAGGGGCCAGGGCC CCCGGGAGAAGCCCCAGTATCCACCCAGGCCCGAGAAATAACCAAGAAAAAACAGT CGCGCACGTGG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_022440 |
| Insert Size: | 1110 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: | <ol style="list-style-type: none"> 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: | <u>NM_022440.1</u> , <u>NP_071885.1</u> |
| RefSeq Size: | 762 bp |
| RefSeq ORF: | 168 bp |
| Locus ID: | 4118 |
| UniProt ID: | <u>P21145</u> |
| Cytogenetics: | 2q11.1 |
| Protein Families: | Transmembrane |

Gene Summary:

The protein encoded by this gene is a highly hydrophobic integral membrane protein belonging to the MAL family of proteolipids. The 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. Down-regulation of this gene has been associated with a variety of human epithelial malignancies. Alternative splicing produces four transcript variants which vary from each other by the presence or absence of alternatively spliced exons 2 and 3. [provided by RefSeq, May 2012]

Transcript Variant: This variant (d) is missing alternatively spliced exons 2 and 3, resulting in the shortest isoform (d).