

Product datasheet for **SC118699**

MAL (NM_002371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAL (NM_002371) 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_002371, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCCGCAGCGGCGACGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTCACCACCTTGCCCCG
ACTTGCTTTCATCTTTGAGTTTATCTTCGGGGCCTGGTGTGGATCCTGGTGGCCTCCTCCCTGGTGCC
CTGGCCCCTGGTCCAGGGCTGGGTGATGTTCTGTGTCTGTGTTCTGCTTCGTGGCCACCACCACCTTGATC
ATCCTGTACATAATTGGAGCCCACGGTGGAGAGACTTCTGGGTCACCTTGGACGCAGCCTACCACTGCA
CCGCTGCCCTCTTTACCTCAGCGCCTCAGTCTGGAGGCCCTGGCCACCATCACGATGCAAGACGGCTT
CACCTACAGGCACTACCATGAAAACATTGCTGCCGTGGTGTCTCCTACATAGCCACTCTGCTCTACGTG
GTCCATGCGGTGTTCTCTTTAATCAGATGGAAGTCTTCATAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002371 unedited
 CTNTGAGGGNCGGCACGCGCAATTCGGCACGAGGGCCAGCGAGAGGTCTGCGCGGAGTCT
 GAGCGGCGCTCGTCCCCTCCAAAGGCCGACGCCAGCACGCGCATGGCCCCCGAGCGG
 CGACGGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTACCACCTTGCCCGACTTGC
 TCTTCACTTTGATTTTATCTTCGGGGGCTGGTGTGGATCCTGGTGGCTCCTCCCTGG
 TGCCCTGGCCCCCTGGTCCAGGGCTGGGTGATGTTCTGTGTCTGTGTTCTGCTTCGTGGCA
 CCACCACCTTGATCATCCTGTACATAATTGGAGCCCACGGTGGAGAGACTTCTGGGTCA
 CCTTGGACGCAGCTACCACTGCACCGCTGCCCTCTTTTACCTCAGCGCCTCAGTCTGG
 AGGCCCTGGCCACCATACGATGCAAGACGGCTTACCTACAGGCACTACCATGAAAACA
 TTGCTGCCGTGGTGTCTCTACATAGCCACTCTGCTCTACGTGGTCCATGCGGTGTTCT
 CTTTAATCAGATGGAAGTCTTCAAAAAGCCGAGTAGAACTTGAGCTGAAAACCCAGATG
 GTGTTAACTGGCCGCCCACTTTCGGCATAACTTTTTAGAAAACAGAAATGCCCTTGAT
 GGTGAAAAAAGAAAACAACCAACCCCCCACTGCCAAAAAAAAGCCCTGCCCTGTTGC
 TCGTGGGTGCTGTGTTTACTCTCCCGTGTGCCTTCGCGTCCGGGTGGGAGCTTGCTGTG
 TCTAACCTCCAACCTGCTGTGCTGTCTGCTAGGGTACCTCCTGTTTGTGAAGGGNACCT
 NNCTGTCGGGGGTGGGAAGTGGCGACCGTGACCTGAGAAGGAAGAAAGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002371 unedited
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGAACATTAACATTT
 TATAAAGTATTTACAGGGTTATCGTCTTCCACCATGGACCTCTGGAAAGATCTGTTGGG
 TGAGTTTTAGTCCCATGACATGCAGAACATCCATGAAGACTTAAACATGGCACAAGAT
 GGGGCGCTCGGGAGAGCTTGTGGACAATACCAACAGGTAGTTCTCGAGAGCTGCTCCAGG
 GGTGAGCAGAGGATCTTTCTTCTTCTCAGGTACGGTGCACCTTCCCACCCCGAAC
 AAGAAGTCCCCTTTCACAAACAGGAGGTGACCTAGCAGACAGCACAGCAGTTGGAGGT
 TAGACACAGCAAGCTCCAACCCGGACGGAAGGCACACGGGAGAGTAAACACAGCACCC
 ACGAGCAACAGGGCAGGGCTTTTTTTTTTTGGGCAGTGGGGGTGGGGGTGTTTTCTTTT
 TCCACCATCAAGGGCATTCTGTTTTCTAAAAAGTTATGCCGAAAAGTGGGGCGGCCAGT
 TAACACCATCTGGGTTTTAGCTCAAGTCTACTGCGGCTTTATGAAGACTTCCATCTGA
 TTAAGAGAACACCGCATGGACCACGTAGAGCAGAGTGGCTATGTAGGAGAACACCACGG
 CAGCAATGTTTTATGGTAGTGCCTGTANGTGAAGCCGCTTGCATCGTGTGTTGGCA
 GGGCCTNCAGGACTGAGGCGCTGAGGTAAGAAGGGCACGGTGCANTGGTAGGCTGCGT
 CCAAGGTGACCCAGGAAGTCTCTCCACCGTGGCTCCATTATGTCAGGATGATCAAGGGGG
 GGGTGGCCNAANCAACACAGACACGACATTACCAACCTGAACCGGGGCCAGGCCAG
 GGAGGAGGCCAGATCCCACCGCCCCGAAAATACTCAAATGAGAAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_002371

Insert Size:

1000 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_002371.2](#), [NP_002362.1](#)

RefSeq Size: 1056 bp

RefSeq ORF: 462 bp

Locus ID: 4118

UniProt ID: [P21145](#)

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 (a) includes both alternatively spliced exons 2 and 3, resulting in the longest isoform (a).