

Product datasheet for **SC112547**

MAL (NM_022438) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAL (NM_022438) 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_022438, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCCGACGCGGCACGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTCACCACCTGCCCCG
ACTTGCTCTTCATCTTTGAGTTTATCTTCGGGGCCTGGTGTGGATCCTGGTGGCCTCCTCCCTGGTGCC
CTGGCCCCCTGGTCCAGGGCTGGGTGATGTTCTGTCTGTGTTCTGCTTCGTGGCCACCACCCTTGATC
ATCCTGTACATAATTGGAGCCCACGGTGGAGAGACTTCTGGGTACCTGGTGTCTCCTACATAGCCA
CTCTGCTACGTGGTCCATGCGGTGTTCTCTTAAATCAGATGGAAGTCTTCATAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_022438 unedited
GGGGTCCCATTAGNATACCATTATATAGCGGCCGCGNAATTCGCACGAGGCGGAGTCTG
AGCGGGCCTCGTCCCCTCCCAAGGCCGACGCCAGCACGCCGTCATGGCCCCGACGCGC
GACGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTCACCACCTGCCCCGACTTGCT
CTTCATCTTTGAGTTTATCTTCGGGGCCTGGTGTGGATCCTGGTGGCCTCCTCCCTGGT
GCCCTGGCCCCTGGTCCAGGGCTGGGTGATGTTCTGTCTGTGTTCTGCTTCGTGGCCAC
CACCACCTTGATCATCCTGTACATAATTGGAGCCCACGGTGGAGAGACTTCTGGGTAC
CTTGACGCAGCCTACCACTGCACCGCTGCCCTCTTTACCTCAGCGCCTCAGTCTGGA
GGCCCTGGCCACCATCACGATGCAAGACGGCTTCACTACAGGCACTACCATGAAAACAT
TGCTGCCGTGGTGTCTCCTACATAGCCACTCTGCTCTACGTGGTCCATGCGGTGTTCTC
TTTATCAGATGGAAGTCTCATAAAGCCGAGTAGAACTTGAGCTGAAAAACCCAGATGGT
GTTAACTGCCGCCCCCACTTTTCGGCATAACTTTTTAGAAAAACAGAAATGCCCTTGATG
GTGAAAAAAGAAAAACAACCCCCCACTGCCCAAAAAAAAAAGCCCTGCCCTGTTGC
TCGTGGGTGCTGTGTTTACTCTCCCGTGTGCCTTCGCCTCCGGTTGGGAGCTTGCTGTG
TCTAACCTCCACTGCTGTGCTGTCTGCTAAGTCCACTCCTGTTTGTGAAAGGGGACCT
TCTTGTTCGGGGTGGAAATGGCGACCCCGACCCTGAAAAAGAAAGAAAAACCCCTCTG
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022438 unedited NGGTACAGCTATGNNACCGCGGCCCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTGA ACATTAAGACTTTTATAAAGTATTTACAGGGTTATCGTCTTCCACCATGGACCTCTGGA AAGATCTGTTGGGTGAGTTTTAGTCCCATGACATGCAGAACATCCATGAAGACTAAAA CATGGCACAAGATGGGGCGCTCGGGAGAGCTTGTGGACAATACCAACAGGTAGTTCTCGA GAGCTGCTCCAGGGTCAGCAGAGGATCTTCTTCTCCTCAGGTCACGGTCGCCACTT CCCACCCCGAACAGAAGGTCCCCTTTCACAAACAGGAGGTACCCTAGCAGACAGCAC AGCAGTTGGAGGTTAGACACAGCAAGCTCCCAACCCGGACGCGAAGGCACACGGGAGAGT AAACACAGCACCCACGAGCAACAGGGCAGGGCTTTTTTTTTTGGGCAGTGGGGGGTGGT TGTTTTCTTTTTCCACCATCAAGGGCATTCTGTTTTCTAAAAAGTTATGCCGAAAGT GGGGCGGCCAGTTAACACCATCTGGGTTTTCAGCTCAAGTTCTACTGCGCTTTATGAAG ACTTCCATCTGATTAAGAGAACACCGCATGGACCACGTAGAGCAGAGTGGCTATGTAGG AGAACACCACGGCAGCAATGTTTTCATGGTAGTGCCTGTAGGTGAAGCCGCTTGCATCG TGATGGTGGCCAGGGCTCCAGGACTGAGGCGCTGAGGTAAAAGAAGGCAGCGGTGCAGT GGTAGGCTGCGTCCAAGTGACCCAGAAGTCTCTCCCGTGGGCTCAATTATGTACAGGAG ATCAAGGTGGTGGTGGCCACGAGCAGACACAGACACGACATCACAGCCCTGGACCAGGG CAGGGCACCAGGC
Restriction Sites:	NotI-NotI
ACCN:	NM_022438
Insert Size:	1050 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_022438.1</u> , <u>NP_071883.1</u>
RefSeq Size:	930 bp
RefSeq ORF:	336 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 (b) includes alternatively spliced exon 2 but is missing exon 3, resulting in isoform b which is shorter than the predominant isoform (a).