

Product datasheet for **SC120162**

MAL2 (NM_052886) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAL2 (NM_052886) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120162 sequence for NM_052886 edited (data generated by NextGen Sequencing)

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ATGTCGGCCGGCGGAGCGTCAGTCCCGCCGCCCGAACCCCGCGTGTCTTCCCGCCG
CCCCGGGTCAACCTGCCCGCCGGCCCCGACATCCTGCGGACCTACTCGGGCGCCTTCGTC
TGCTTGGAGATTCTGTTGGGGGTCTTGTCTGGATTTTGGTTGCCTCCTCCAATGTTCT
CTACCTCTACTACAAGGATGGGTCATGTTTGTGTCCGTGACAGCGTTTTTCTTTTCGCTC
CTCTTTCTGGGCATGTTCTCTCTGGCATGGTGGCTCAAATTGATGCTAACTGGAATTC
CTGGATTTTGCCTACCATTTTACAGTATTTGTCTTCTATTTTGGAGCCTTTTTATTGGAA
GCAGCAGCCACATCCCTGCATGATTTGCATTGCAATAACAACATAACCGGGCAGCCACTC
CTGAGTGATAACCAGTATAACATAAACGTAGCAGCCTCAATTTTTGCCTTTATGACGACA
GCTTGTATGGTTGCAGTTTGGGTCTGGCTTTACGAAGATGGCGACCGTAA
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Clone variation with respect to NM_052886.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_052886 unedited TATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGCGGCAGGAGCCCCG GGAGGCGGAGGCGGGAGGCGGGCGGGCGGGCGGGAGACGACGAGCGGCAGCGGCAGCAT GTCGGCCGGCGGAGCGTCAGTCCCGCCGCCCGAACCCCGCCGTGTCTTCCCGCCGCC CCGGGTACCCCTGCCCGCCGCCCGACATCCTGCGGACCTACTCGGGCGCCTTCGTCTG CCTGGAGATTCTGTTTCGGGGTCTTGTCTGGATTTGGTTGCCTCCTCCAATGTTCTCT ACCTCTACTACAAGGATGGGTCATGTTTGTGTCCGTGACAGCGTTTTTCTTTTCGCTCCT CTTTCTGGGCATGTTCTCTCTGGCATGGTGGCTCAAATTGATGCTAACTGGAACCTCCT GGATTTTGCCTACCATTTTACAGTATTTGTCTTCTATTTTGGAGCCTTTTTATTGGAAGC AGCAGCCACATCCCTGCATGATTTGCATTGCAATACAACCATAACCGGGCAGCCACTCCT GAGTGATAACCAGTATAACATAAACGTAGCAGCCTCAATTTTGCCTTTATGACGACAGC TTGTTATGTTGTCAGTTTGGGTCTGGCTTACGAAGATGGCGACCGTAACACTCCTTAGA AACTGGCAGTCGTATGTTAGTTTCACTTGTCTACTTTATATGTCTGATCAATNTGGATAC CATTTTGTCCAGATGCAAAAACATTCCAANAAGTATGGTGTTAGTAGAAGAGAGACTCT AAGCTCAAGNTCTGGNTTATTTTCATGGATGGAATGNTNANNTTTATATGATATTAAGAA ATGGCCTTTTATTNTACATCTCTCCCTTTTCCCTTTCCCCCTTATTTCTNCTNTCT TTCTGAAGNTTCTTTTATGTCCATAATACAAAATATGGTCATAAAATAGATCCCTTTTG TTGGGTGCGAGNCACTGACCCTATTTA
Restriction Sites:	NotI-NotI
ACCN:	NM_052886
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_052886.1</u> , <u>NP_443118.1</u>
RefSeq Size:	2808 bp
RefSeq ORF:	531 bp
Locus ID:	114569
UniProt ID:	<u>Q969L2</u>
Cytogenetics:	8q24.12
Domains:	MARVEL
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a multispan transmembrane protein belonging to the MAL proteolipid family. The protein is a component of lipid rafts and, in polarized cells, it primarily localizes to endosomal structures beneath the apical membrane. It is required for transcytosis, an intracellular transport pathway used to deliver membrane-bound proteins and exogenous cargos from the basolateral to the apical surface. [provided by RefSeq, Jul 2008]