

Product datasheet for **SC108434**

MALT1 (NM_173844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MALT1 (NM_173844) Human Untagged Clone
Tag:	Tag Free
Symbol:	MALT1
Synonyms:	IMD12; MLT; MLT1; PCASP1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_173844, the custom clone sequence may differ by one or more nucleotides

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ATGTCGCTGTTGGGGACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGCTGCTCGCCC
CTCCGGCCGGCGGACCCTCAACCGCCTCGGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGGATCA
GGCGCCCAGGGCCGGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGT
TGCTTAGACCTGGAGCAGTGTTCTTAAAGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGA
AGTTAATGGGTGAAAAAGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGA
AGTTCTTCAGCTTCTCAGCCCCCAGGAATAAAGATTACTGTAACCAGAGTCAAAGGCAGTCTTGGCT
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ATAAAGAGATTCCAAATGGAATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAGATGCAGGCTT
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ATCCCAGAGACTCCAGAGAAGTGTGATGGCGTCTCTGAATCCAAGTTGCAAACTGTGTTGAACCAA
CTTCCAAAAGCTGATGCCAGGCAGCACATTGGTTTTACAGTGTGTTGCTGTTGGAAGCCCTATTCTCA
CTACCAGTGGTTCAAATGAATTACCATTAACACATGAGACAAAAAGCTATACATGGTGCCTTATGTG
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TGCACTAAAAGTCACCGCAATATTGTGTTGGATATGCCACGTGTCAAGGAGCAGAAGCTTTTGAATC
CAGCATTCTGGATTGGCAATGGAATCTTATGAAATTTTTAAAAGACAGATTATTAGAAGATAAGAAAA
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AGAGATTCGAAGTAGTTTATCTGAGAAGAGAGCACTTACTGATCCAATACAGGGAACAGAATATTCTGCT
GAATCTCTGTGCGGAATCTACAGTGGGCAAGGCTCATGAACTCCAGAAAAGTATGTGTCTTAAGTTG
ACTGTGGTGTTCAGATTCATTAGGATTTGCAGCTGAGTTTTCCAATGTCATGATCATCTATAACAAGTAT
AGTTTACAAACCACGGAGATAATAATGTGTGATGCCTACGTTACTGATTTTCCACTTGATCTAGATATT
GATCCAAAAGATGCAAAATAAGGCACACCTGAAGAACTGGCAGCTACTTGGTATCAAAGGATCTCCCA
AGCATTGCCTCTATACCAGACTCAGTTCAGTGCAAAAATTAAGGAACATCTAGTCTTACAGTATGTTT
ATCATATCAGTACTCAGGATTGGAAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTC
ATTGCTAAATTAGACATGCATCGAGTTTGGGAAGGAAGACTTGCTTTCAAACCTTGCTTATGTCTAATG
GTCCTTACCAGAGTTCTGCAGCCACCTCAGGAGGAGCAGGGCATTATCACTCATTGCAAGACCCATTCCA
TGGTGTTTACCATTACATCCTGGTAATCCAAGTAATGTTACACCAGCAGATAGCTGTCTTGCAGCCGG
ACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCATGTCAATTTAGTAGAAGTAAATGTGCCAG
TAGAGACAACCTGATGAAATACCATTTAGTTTCTCTGACAGGCTCAGAATTTCTGAAAAATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_173844 unedited CGGCCGGCGAATTCGCACGAGGCAGCAGGCCAGGCTCCCCTCGGCAAACCTGTCTAATTG GGGCGGGGAGCGGAGCTTCTCTCTGAGGGCCGTGCCGCGCTGCCAGATTTGTTCTTCC GCCCTGCCTCCGCGGCTCGGAGGCGAGCGGAAGTGCCCGGGGCCGAGGCCCGTGACG GGGCGGGCGGGAGCCCCGGCAGTCCGGGGTCCCGGCGAGGGCCATGTCGCTGTTGGGGG ACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGCTGCTCGCCCCCTCCG CCGGCGGACCCCTCAACCGCCTGCGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGG ATCAGGCCCCGAGGGCCGGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGC GCCTCCGCCTCAGTTGCCTAGACCTGGAGCAGTGTCTCTTAAGTACTGGAGCCTGAAG GAAGCCCCAGCCTGTGTCTGCTGAAGTTAATGGGTGAAAAGGTTGCACAGTCACAGAAT TGAGTGATTTCTGCAGGCTATGGAACACACTGAAGTTCTTACGTTCTCAGCCCCCAG GAATAAAGATTACTGTAAACCCAGAGTCAAAGGCAGTCTTGGCTGGACAGTTTGTGAAAC TGTGTTGCCGGCAACTGGACATCCTTTTGTTCATATCAGTGGTTCAAAATGAATAAAGA GATTCAAATGAAATACATCAGAGCTTATTTTAAATGCAGTGCATGAAAAAGATGCAG CTNTTATGTCTGTCGAGTTAATAACAATNTCACCTTTGAATTCAGCCAGTGGTCACG
Restriction Sites:	NotI-NotI
ACCN:	NM_173844
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:	NM_173844.1 , NP_776216.1
RefSeq Size:	4996 bp
RefSeq ORF:	2442 bp
Locus ID:	10892
UniProt ID:	Q9UDY8
Cytogenetics:	18q21.32
Protein Families:	Druggable Genome, Protease
Protein Pathways:	B cell receptor signaling pathway, T cell receptor signaling pathway

Gene Summary:

This gene encodes a caspase-like protease that plays a role in BCL10-induced activation of NF-kappaB. The protein is a component of the CARMA1-BCL10-MALT1 (CBM) signalosome that triggers NF-kappaB signaling and lymphocyte activation following antigen-receptor stimulation. Mutations in this gene result in immunodeficiency 12 (IMD12). This gene has been found to be recurrently rearranged in chromosomal translocations with other genes in mucosa-associated lymphoid tissue lymphomas, including a t(11;18)(q21;q21) translocation with the baculoviral IAP repeat-containing protein 3 (also known as apoptosis inhibitor 2) locus [BIRC3(API2)-MALT1], and a t(14;18)(q32;q21) translocation with the immunoglobulin heavy chain locus (IGH-MALT1). Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2018]

Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (b) lacks an internal segment, compared to isoform a.