

Product datasheet for **SC115846**

MALT1 (NM_006785) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MALT1 (NM_006785) Human Untagged Clone
Tag:	Tag Free
Symbol:	MALT1
Synonyms:	IMD12; MLT; MLT1; PCASP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006785, the custom clone sequence may differ by one or more nucleotides

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ATGTCGCTGTTGGGGACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGCTGCTCGCCC
CTCCGGCCGCGCGACCCTCAACCGCCTGCGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGGATCA
GGC GCCCGAGGGCCGGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGT
TGCCCTAGACCTGGAGCAGTGTTCTCTTAAGGTAAGTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGA
AGTTAATGGGTGAAAAAGGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGA
AGTTCTTCAGCTTCTCAGCCCCCAGGAATAAAGATTACTGTAACCCAGAGTCAAAGGCAGTCTTGCT
GGACAGTTTGTGAAACTGTGTTGCCGGGCAACTGGACATCCTTTTGTTCATATCAGTGGTTCAAATGA
ATAAAGAGATTCCAAATGGAATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAGATGCAGGCTT
TTATGTCTGTGAGTTAATAACAATTTACCTTTGAATTCAGCCAGTGGTACAGCTGGATGTTTGCAC
ATCCAGAGAGCTTCCAGAGAAGTGTGATGGCGTCTCTGAATCCAAGTTGCAAACTGTGTTGAACCAA
CTTCCAAAAGCTGATGCCAGGCAGCACATTGGTTTTACAGTGTGTTGCTGTTGGAAGCCCTATTCCTCA
CTACCAGTGGTTCAAATGAATTACCATTAACACATGAGACAAAAAGCTATACATGGTGCCTTATGTG
GATTTGGAACACCAAGGAACCTACTGGTGTCTATATATAATGATCGAGACAGTCAAGATAGCAAGAAGG
TAGAAATCATCATAGGAAGAACAGATGAGGCAGTGGAGTGCAGTGAAGATGAATTAATAATCTTGGTCA
TCCTGATAATAAAGAGCAAACTGACCAGCCTTTGGCGAAGGACAAGTTGCCCTTTTATAGGAAAT
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GACAGCTGGACTTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGCTGTGGATGA
GTTTTTACTCCTTTTAGACAAGGGAGTATATGGTTATTATATATGCAGGACATGGTTATGAAAAATTT
GGGAACAGCTTTCATGGTCCCGTTGATGCTCAAATCCATATAGTCTGAAAAATGCTGTGTGTACAAA
ATATACTGAAATTTGATGCAAGAAAAAGAACTGGACTTAATGTGTTCTTATTGGATATGTGTAGGAAAA
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GCCACGTGTCAAGGAGCAGAAGCTTTTGAATCCAGCATTCTGGATTGGCAAAATGGAATCTTTATGAAAT
TTTTAAAAGACAGATTATTAGAAGATAAGAAAATCACTGTGTTACTGGATGAAGTTGCAGAAGATATGGG
TAAGTGTACCTTACCAAAGGCAACAGGCTCTAGAGATTCGAAGTAGTTTATCTGAGAAGAGAGCACTT
ACTGATCCAATACAGGGAACAGAATATTCTGCTGAATCTCTTGTGCGGAATCTACAGTGGCCAAGGCTC
ATGAATCCAGAAAGTATGTGCTTAAGTTTACTGTGGTGTTCAGATTCATTAAGGATTTGCAGCTGA
GTTTTCCAATGTCATGATCATCTATACAAGTATAGTTTACAACCACCGGAGATAATAATGTGTGATGCC
TACGTTACTGATTTTCCACTTGATCTAGATATTGATCCAAAAGATGCAAAATAAAGGCACACCTGAAGAAA
CTGGCAGTACTTGGTATCAAAGGATCTTCCCAAGCATTGCTCTATACCAGACTCAGTTCACTGCAAAA
ATTAAGGAACATCTAGTCTTCACAGTATGTTTATCATATCAGTACTCAGGATTGGAAGATACTGTAGAG
GACAAGCAGGAAGTGAATGTTGGGAAACCTCTCATTGCTAAATAGACATGCATCGAGGTTTGGGAAGGA
AGACTTGTCTTCAAACCTTGTCTTATGTCTAATGGTCTTACCAGAGTTCTGCAGCCACCTCAGGAGGAGC
AGGGCATTATCACTCATTGCAAGACCCATTCCATGGTGTTTACCATTACATCCTGGTAATCCAAGTAAT
GTTACACCAGCAGATAGCTGTCTTGCAGCCGGACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATG
CTTCATGTCATTTTAGTAGAAGTAATGTGCCAGTAGAGACAACCTGATGAAATACCATTTAGTTTCTCTGA
CAGGCTCAGAATTTCTGAAAAATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006785 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCGGGGAGCGGAGCTTC
 CTCCTCTGAGGGCCGTGCCGCGCTGCCAGATTTGTTCTTCGCCCCCTGCCTCCGCGGCTC
 GGAGGCGAGCGGAAGGTGCCCGGGGCCGAGGCCCGTGACGGGGCGGGCGGGAGCCCCGG
 CAGTCCGGGGTCGCCGGCGAGGGCCATGTCGCTGTTGGGGACCCGCTACAGGCCCTGCC
 GCCCTCGGCCGCCCCACGGGGCCGCTGCTCGCCCCTCCGGCCGGCGGACCCCTCAACCG
 CCTGCGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGGATCAGGCGCCCGAGGGCCG
 GGGCTGGAGGAGACTGGCGGAGCTGGCGGGAGTCGCGGGCGCCTCCGCCTCAGTTGCCT
 AGACCTGGAGCAGTGTTCTTTAAGGTAAGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCT
 GCTGAAGTTAATGGGTGAAAAAGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGC
 TATGGAACACACTGAAGTTCTTCAGCTTCTCAGCCCCCAGGAATAAAGATTACTGGTAA
 CCCAGAGTCAAAGGCAGTCTTGCTGGACAGTTTGTGAACTGTGTTGCCGGCAACTGG
 ACATCCTTTTGTTCATATCAGTGGTTCANAATGAATAAAGAGATTCCAAATGGAATACA
 TCAGAGCTTATTTTTATGCAGTGCATGTAAGATGCANGCTTTTATAGTCTGTGCGAG
 TTAATAACAATTTACCTTTTATGATCAGCCAGTGGTACAGCTGGNATGTTGCGACATCCA
 GAGAGCTCCAGAGAGTGGTTGTTGCGGTTTCTGAATCCAGGTGCAATCTGTGTTGAAC
 CACCTCTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006785 unedited
 CGCAAAATAAGCCCTCTGTTAATATTTATATATATCAATATATTTCACTCTATCTACA
 AACATAACACTTATCTCAGAACCTGTCAGGAAGGCAGTTGTAGTGGAATAAATACTGG
 AATAGATTTCTGGAGGTCTCAGTTCTGGTGCCAGCTCTAACTTAGATGCCTTTCTGTGTT
 TCTTCCATGGATAAAATTAGGTTATGCCTGGTATCGGCAAGGTTCTTTCTGGTGTTAAA
 AATACAATGACTTATTCTACAATAATGCCATTCCCATTGCTCTTACTTCAGAGTGGTCAC
 AATGAAAATATTTGTTATATACATATAAACATACACACCTCCATACTTCATTTGTATAG
 AACTATTCACCAATTCACAAAATCTTAGAAAGAGGAAGTCTGTAAATAAATAATGTAAT
 TTCAACATCTCAAAGTCTGAAGTTTGCTATGAAACAGTTACTACTATTCTTTCTCTACA
 TATACAAAATTTGCCTTTTCAAAATGTCTCACTTTATGTAAGTGCAGTACTATTTACAGG
 CATCTAAAATTAAGTAACTTTCAAAAACAAGGAGGTCAATTTTCAGAAATTCAGGCT
 GTCAGAGAAACTAAATGGTATTTATCAGTTGTCTCTACTGGCACATTACTTCTACTAAA
 ATGACATGAAGCATGGTGAGCGAACTTGAAATAAATGCATCTGGAGTCCGGCTGCAATG
 ACAGCTATCTGCTGGTGAACATTACTTGATTACCAGGATGTGAATGGTAAACACCATG
 GAATGGGTCTTGAATGAGTGATAATGCCCTGCTCCTCCTGAGGTGGCTGCAGAACTCTG
 GTAAGGACCATTNAGACATAGACAAGTNTGAAAAGCAGTCTTTCTTCCAAACCTCGATG
 CATGTCTAATTTAGCAATGAGAGGTTNCCCAACATTCACTTNCTGCTTGNCTCTCAGTA
 TCTTCCATCTGAGTACTGAATGATAAAATACTGTGAGACTAGATGTCCTTCATTTTGA
 GTGACTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_006785

Insert Size:

3670 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_006785.2](#), [NP_006776.1](#)

RefSeq Size: 5029 bp

RefSeq ORF: 2475 bp

Locus ID: 10892

UniProt ID: [Q9UDY8](#)

Cytogenetics: 18q21.32

Domains: DEATH, ig, IGc2, IG

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 (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.