

## Product datasheet for **RG204322**

### **MALT1 (NM\_173844) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MALT1 (NM_173844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MALT1
Synonyms:	IMD12; MLT; MLT1; PCASP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RG204322 representing NM\_173844  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGCTGTTGGGGACCCGCTACAGGCCTGCCGCCCTCGGCCGCCCCACGGGGCCGCTGCTCGCCC  
 CTCGGCCGCGCGACCCCTCAACCGCCTCGGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGGATCA  
 GGCGCCCGAGGGCCGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGT  
 TGCTAGACCTGGAGCAGTGTCTCTTAAGGTAAGTGGAGCCTGAAGGAAGCCCGCCTGTGTCTGCTGA  
 AGTTAATGGGTGAAAAAGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGA  
 AGTTCTCAGCTTCTCAGCCCCCAGGAATAAAGATTACTGTAACCCAGAGTCAAAGGCAGTCTTGCT  
 GGACAGTTGTGAACTGTGTGCCGGCAACTGGACATCCTTTTGTTCATATCAGTGGTTCAAATGA  
 AATAAGAGATTCCAAATGAAATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAGATGCAGGCTT  
 TTATGTCTGTCGAGTTAATAACAATTTACCTTTGAATTCAGCCAGTGGTACAGCTGGATGTTTGGCAG  
 ATCCCAGAGAGCTTCCAGAGAAGTGTGATGGCGTCTCTGAATCCAAGTTGCAAACTGTGTTGAACCAA  
 CTCCCAAAGCTGATGCCAGGCAGCACATTGGTTTTACAGTGTGTTGCTGTTGGAAGCCCTATTCTCA  
 CTACCAGTGGTTCAAAAATGAATTACCATTAACACATGAGACAAAAAGCTATACATGGTGCCTTATGTG  
 GATTTGGAACACCAAGGAACCTACTGGTGTGATGATATAATGATCGAGACAGTCAAGATAGCAAGAAGG  
 TAGAAATCATCATAGATGAATTAATAATCTTGGTGCATCTGATAATAAAGAGCAAACTGACCAGCC  
 TTTGGCGAAGGACAAGTTGCCCTTTGATAGGAAATATGAATTACCGGGAGCACCCCAAGCTCAAAGCT  
 CCTTTGGTGGATGTGTACGAATTGACTAACTTACTGAGACAGCTGGACTCAAAGTGGTTTCACTGTTGG  
 ATCTTACTGAATATGAGATGCGTAATGCTGTGGATGAGTTTTTACTCCTTTTAGACAAGGGAGTATG  
 GTTATTATATTATGCAGGACATGGTTATGAAAATTTTGGGAACAGCTTCATGGTCCCGTTGATGCTCCA  
 AATCCATATAGGTCTGAAAATTGCTGTGTGTACAAAATATACTGAAATTGATGCAAGAAAAAGAACTG  
 GACTTAATGTGTTCTTATTGGATATGTGTAGGAAAAGAAATGACTACGATGATACCATTCCAATCTTGG  
 TGCCTAAAAGTACCGCAATATTGTGTTGGATATGCCACGTGTCAAGGAGCAGAAGCTTTTGAATC  
 CAGCATTCTGGATTGGCAAATGGAATCTTATGAAATTTTTAAAAGACAGATTATTAGAAGATAAGAAA  
 TCACTGTGTTACTGGATGAAGTGCAGAAGATATGGGTAAGTGTACCTTACCAAAGGCAACAGGCTCT  
 AGAGATTCGAAGTAGTTTATCTGAGAAGAGACACTTACTGATCCAATACAGGGAACAGAATATTCTGCT  
 GAATCTCTTGTGCGGAATCTACAGTGGCCAAGGCTCATGAACTCCAGAAAGTATGTGCTTAAGTTTG  
 ACTGTGGTGTTCAGATCAATTAGGATTTGCAGCTGAGTTTTCCAATGTCATGATCATCTATACAAGTAT  
 AGTTTACAAACCACCGGAGATAAATGTGTGATGCCTACGTTACTGATTTTCCACTTGATCTAGATATT  
 GATCCAAAAGATGCAAAATAAGGCACACCTGAAGAACTGGCAGTACTTGGTATCAAAGGATCTCCCA  
 AGCATTGCCTCTATACCAGACTCAGTTCCTGCAAAAAATAAGGAACATCTAGTCTTACAGTATGTTT  
 ATCATATCAGTACTCAGGATTGGAAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTC  
 ATTGCTAAATTAGACATGCATCGAGTTTGGGAAGGAAGACTTGCTTTCAAATCTGCTTATGTCTAATG  
 GTCCTTACCAGAGTTCTGCAGCCACCTCAGGAGGAGCAGGGCATTATCACTCATTGCAAGACCCATTCCA  
 TGGTGTTTACCATTACATCCTGGTAATCCAAGTAATGTTACACCAGCAGATAGCTGTCATTGCGAGCCGG  
 ACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCATGTCATTTTAGTGAAGTAAATGTGCCAG  
 TAGAGACAACCTGATGAAATACCATTAGTTTCTGACAGGCTCAGAATTTCTGAAAAA

**ACCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

Protein Sequence: >RG204322 representing NM\_173844  
Red=Cloning site Green=Tags(s)

```
MSLLGDPLQALPPSAAPTGPLLAPPAGATLNRLREPLLRRRLSELLDQAPEGRGWRRLAELAGSRGRLRLS  
CLDLEQCSLKVLEPEGSPSLCLLKLMEKGGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLA  
GQFVKLCCRATGHPFVQYQWFKMNKEIPNGNTSELI FNAVHVKDAGFYVCRVNNNF TFEFSQWSQLDVCD  
IPESFQRSVDGVSESKLQICVEPTSQKLMPGSTLVLCVAVGSP IPHYQWFKNELPLTHE TKKLYMVPYV  
DLEHQGTYWCHVYNDRDSQDSKKVEI I IDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKKA  
PLVDVYELTNLLRQLDFKVVSLLDL TEYEMRNAVDEFLLLLDKGVYGLLYYAGHGYENFGNSFMVPVDAP  
NPYRSENCLCVQNILKLMQEKETGLNVFLLDMCRKRNDYDDTIPILDALKVTANIVFGYATCQGAEAFEI  
QHSGLANGIFMKFLKDRILLEDKKITVLLDEVAEDMGKCHLTKGKQALEIRSSLSEKRALTDPIQGTEYSA  
ESLVRNLQWAKAHELPEMCLKFDGCVQIQLGFAAEFSNMVI IYTSIVYKPEIIMCDAYVTDFFPLDLDI  
DPKDANKGTPEETGSYLVSKDLPKHCLYTRLSSLQKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPL  
IAKLDMHRGLGRKTCFQTCLMSNGPYQSSAATSGGAGHYHSLQDPFHGVYHSHPGNPSNVTPADSCHCSR  
TPDAFISSFAHHASCHFSRSNVPVETTDEIPFSFSDRLRISEK
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



**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\\_173844.3](#)

**RefSeq Size:** 4996 bp

**RefSeq ORF:** 2442 bp

**Locus ID:** 10892

**UniProt ID:** [Q9UDY8](#)

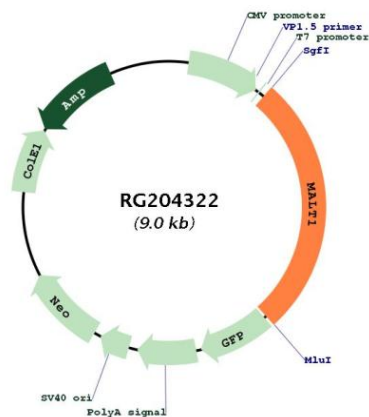
**Cytogenetics:** 18q21.32

**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]

**Product images:**



Circular map for RG204322

