

Product datasheet for **RC214639**

MALT1 (NM_006785) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>RC214639 representing NM_006785
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCGCTGTTGGGGACCCGCTACAGGCCTGCCGCCCTCGGCCGCCCCACGGGGCCGCTGCTCGCCC
CTCCGGCCGGCGCGACCCCTCAACCGCCTCGGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGGATCA
GGCGCCCAGGGCCGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGT
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CTACCAGTGGTTCAAAAATGAATTACCATTAACACATGAGACAAAAAGCTATACATGGTGCCTTATGTG
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TCCTGATAATAAAGAGCAAACTGACCAGCCTTTGGCGAAGGACAAGTTGCCCTTTTGTAGGAAAT
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GACAGCTGGACTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGAAATTTT
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ATATACTGAAATGATGCAAGAAAAAGAACTGGACTTAATGTGTTCTTATTGGATATGTGTAGGAAAA
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TTTTAAAAGACAGATTATTAGAAGATAAGAAAACTACTGTGTTACTGGATGAAGTGCAGAAGATATGGG
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CAGGCTCAGAATTTCTGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214639 representing NM_006785
Red=Cloning site Green=Tags(s)

MSLLGDPLQALPPSAAPTGPLLAPPAGATLNRLREPLLRRRLSELLDQAPEGRGWRRLAELAGSRGRLRLS
CLDLEQCSLKVLEPEGSPSLCLLKLMEKGGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLA
GQFVKLCCRATGHPFVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTEFSQWSQLDVCD
IPESFQRSVDGVSESKLQICVEPTSQKLMPGSTLVLCVAVGSPIPHYQWFKNELPLTHETKKLYMVPYV
DLEHQGTYWCHVYNDRDSQDSKKVEIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGN
MNYREHPKLKAPLVDVYELTNLLRQLDFKVVSLDLTEYEMRNAVDEFLLLLDKGVYGLLYAGHGYENF
GNSFMVVDAPNPYRSENCLCVQNILKLMQEKETGLNVFLLDMCRKRNDYDDTIPILDALKVTANIVFGY
ATCQGAFAFEIQHSLANGIFMKFLKDRLLLEDKKITVLLDEVAEDMGKCHLTKGKQALEIRSSLSEKRAL
TDPIQGTEYSAESLVRNLQWAKAHELPEMCLKFDGCVQIQLGFAAEFSNVMIIYTSIVYKPEIIMCDA
YVTDPLDLIDPKDANKGTPEETGSYL VSKDLPKHCLYTRLSSLQKLKEHLVFTVCLSYQYSGLEDTVE
DKQEVNVGKPLIAKLDMHRGLGRKTCFQTCLMSNGPYQSSAATSGGAGHYHSLQDPFHGVYHSHPGNPSN
VTPADSCHCSRTPDAFISSFAHHASCHFSRSNVPVETTDEIPFSFSDRLRISEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6162_c07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006785

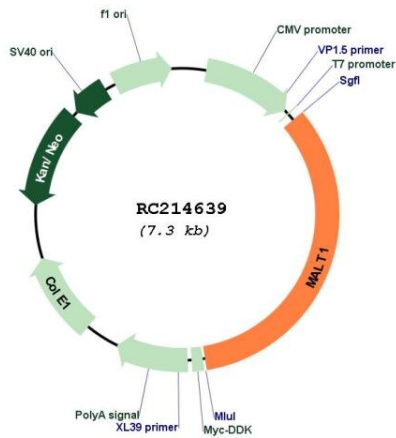
ORF Size: 2472 bp

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.

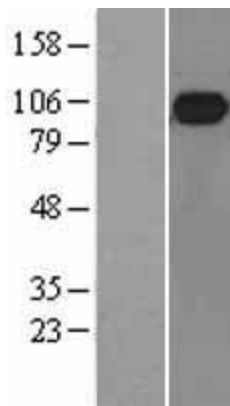
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_006785.4
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
MW:	92.1 kDa
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]

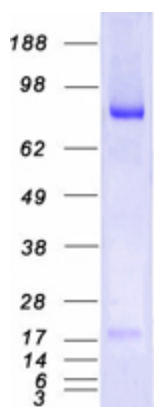
Product images:



Circular map for RC214639



Western blot validation of overexpression lysate (Cat# [LY402030]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214639 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MALT1 protein (Cat# [TP314639]). The protein was produced from HEK293T cells transfected with MALT1 cDNA clone (Cat# RC214639) using MegaTran 2.0 (Cat# [TT210002]).