

Product datasheet for **RC206916**

Bax inhibitor 1 (TMBIM6) (NM_003217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bax inhibitor 1 (TMBIM6) (NM_003217) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bax inhibitor 1
Synonyms:	BAXI1; BI-1; TEGT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206916 representing NM_003217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAACATATTTGATCGAAAGATCAACTTTGATGCGCTTTTAAAATTTTCTCATATAACCCCGTCAACGC
AGCAGCACCTGAAGAAGGTCTATGCAAGTTTGGCCTTTGTATGTTTGTGGCGGCTGCAGGGGCCTATGT
CCATATGGTCACTCATTTCACTCAGGCTGGCCTGCTGTCTGCCTTGGGCTCCCTGATATTGATGATTGG
CTGATGGCAACACCTCATAGCCATGAACTGAACAGAAAAGACTGGGACTTCTTGCTGGATTGCATTCC
TTACAGGAGTTGGCCTGGGCCCTGCCCTGGAGTTTGTATTGCTGTCAACCCAGCATCCTTCCCACTGC
TTTCATGGGCACGCAATGATCTTTACCTGCTTACCCTCAGTGCCTCTATGCCAGGCGCGTAGCTAC
CTCTTTCTGGGAGGTATCTTGATGTCAGCCCTGAGCTTGTGCTTTGTCTTCCCTGGGGAATGTTTCT
TTGGATCCATTTGGCTTTTCCAGGCAAACCTGTATGTGGGACTGGTGGTCATGTGTGGCTTCGCTCTTTT
TGATACTCAACTATTATTGAAAAGGCCGAACATGGAGATCAAGATTATATCTGGCACTGCATTGATCTC
TTCTTAGATTTCACTACTGTCTTCAGAAAACCTCATGATGATCCTGGCCATGAATGAAAAGGATAAGAAGA
AAGAGAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206916 representing NM_003217
 Red=Cloning site Green=Tags(s)

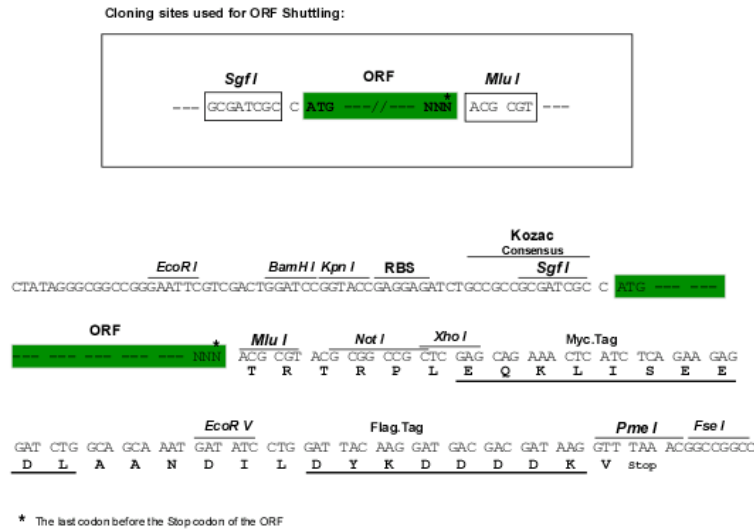
MNIFDRKINF DALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHMTVTHFIQAGLLSALGSLILMIW
 LMATPHSHETEQRLLAGFAFLTGVGLGPALEFCIAVNPSILPTAFMGMTAMIFTCFTLSALYARRRSY
 LFLGGILMSALSLLLSSLGNVFFGSIWLFQANLYVGLVVMCGFVLFDTQLIEKAEHGDQDYIWHCIDL
 FLDFITVFRKLMMILAMNEKDKKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6074_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003217

ORF Size: 711 bp

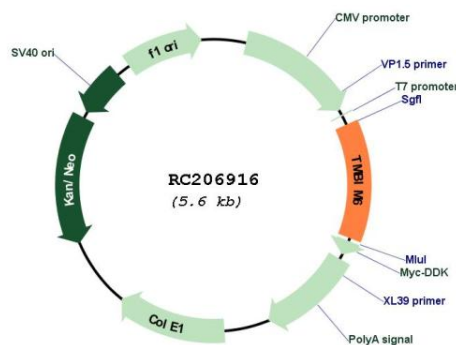
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

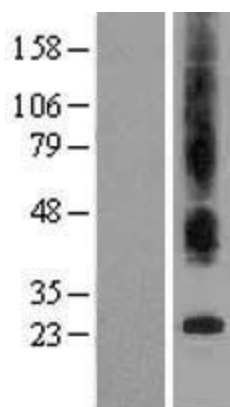
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003217.3</u>
RefSeq Size:	2600 bp
RefSeq ORF:	714 bp
Locus ID:	7009
UniProt ID:	<u>P55061</u>
Cytogenetics:	12q13.12
Domains:	UPF0005
Protein Families:	Druggable Genome, Transmembrane
MW:	26.4 kDa
Gene Summary:	Suppressor of apoptosis (PubMed:21075086). Modulates unfolded protein response signaling (PubMed:21075086). Modulates ER calcium homeostasis by acting as a calcium-leak channel (PubMed:22128171). Negatively regulates autophagy and autophagosome formation, especially during periods of nutrient deprivation, and reduces cell survival during starvation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206916



Western blot validation of overexpression lysate (Cat# [LY418832]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206916 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).