

## Product datasheet for **RG206916**

### 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:	TurboGFP
Symbol:	Bax inhibitor 1
Synonyms:	BAXI1; BI-1; TEGT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206916 representing NM_003217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATATTTGATCGAAAGATCAACTTTGATGCGCTTTTAAAATTTTCTCATATAACCCCGTCAACGC  
AGCAGCACCTGAAGAAGTCTATGCAAGTTTTGCCCTTTGTATGTTTGTGGCGGCTGCAGGGCCTATGT  
CCATATGGTCACTCATTTCAATCAGGCTGGCCTGCTGTCTGCCTGGGCTCCCTGATATTGATGATTTGG  
CTGATGGCAACACCTCATAGCCATGAACTGAACAGAAAAGACTGGGACTTCTTGCTGGATTTGCATTCC  
TTACAGGAGTTGGCCTGGGCCCTGCCCTGGAGTTTGTATTGCTGTCAACCCAGCATCCTTCCCACTGC  
TTTCATGGGCACGCAATGATCTTTACCTGCTTACCCTCAGTCACTCTATGCCAGGCGCGTAGCTAC  
CTCTTTCTGGGAGGTATCTTGATGTCAGCCCTGAGCTTGTGCTTTTGTCTTCCCTGGGGAATGTTTTCT  
TTGGATCCATTTGGCTTTTCCAGGCAAACCTGTATGTGGGACTGGTGGTCATGTGTGGCTTCGCTCTTTT  
TGATACTCAACTCATTATTGAAAAGGCCGAACATGGAGATCAAGATTATCTGGCACTGCATTGATCTC  
TTCTTAGATTTTCACTACTGTCTTCAGAAAACCTCATGATGATCCTGGCCATGAATGAAAAGGATAAGAAGA  
AAGAGAAGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206916 representing NM\_003217  
Red=Cloning site Green=Tags(s)

MNIFDRKINFDALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHMVTHFIQAGLLSALGSLILMIW  
 LMATPHSHETEQRLLAGFAFLTGVLGPALEFCIAVNPSILPTAFMGTAMIFTCFTLSALYARRRSY  
 LFLGGILMSALSLLLSSLGNVFFGSIWLFQANLYVGLVVMCGFVLFDTQLIEKAEHGDQDIYWHCIDL  
 FLDFITVFRKLMILAMNEKDKKKEKK

TRTRPLE - GFP Tag - V

**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.

**RefSeq:** [NM\\_003217.3](#)

**RefSeq Size:** 2600 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 7009

**UniProt ID:** [P55061](#)

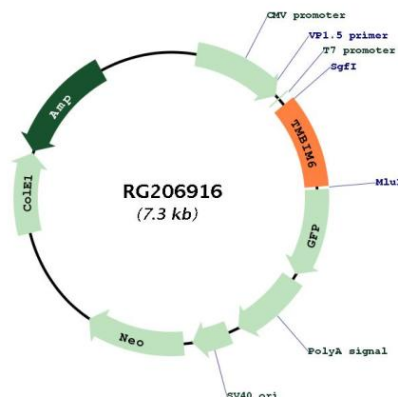
**Cytogenetics:** 12q13.12

**Domains:** UPF0005

**Protein Families:** Druggable Genome, Transmembrane

**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 RG206916