

Product datasheet for **RG222409**

BAX (NM_138763) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BAX (NM_138763) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BAX
Synonyms: BCL2L4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222409 representing NM_138763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGGGTCCGGGAGCAGCCAGAGGGCGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGG
 CCCTTTTGCTTCAGGGGATGATTGCCGCCGTGGACACAGACTCCCCCGAGAGGTCTTTTCCGAGTGCC
 AGCTGACATGTTTTCTGACGGCAACTTCAACTGGGCGGGTTGTCGCCCTTTTCTACTTTGCCAGCAA
 CTGGTGTCAAGGCCCTGTGCACCAAGGTGCCGGAAGTATCAGAACCATCATGGCTGGACATTGGACT
 TCCTCCGGGAGCGGCTGTTGGACTGGATCCAAGACCAGGGTGGTTGGGACGGCCTCTCTCTACTTTGG
 GACGCCACGTGGCAGACCGTGACCATCTTTGTGGCGGGAGTGCTCACCGCCTCACTACCATCTGGAAG
 AAGATGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222409 representing NM_138763
 Red=Cloning site Green=Tags(s)

MDGSGEQPRGGGPTSSEQIMKTGALLLQGMIAAVDTPREVFFRVAADMFSDFGNFNWGRVVALFYFASK
 LVLKALCTKVPPELIRTIMGWTLDFLRERLLDWIQDQGGWDGLLSYFGTPTWQTVTIFVAGVLTASLTIWK
 KMG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_138763

ORF Size: 429 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_138763.2](#), [NP_620118.1](#)

RefSeq Size: 741 bp

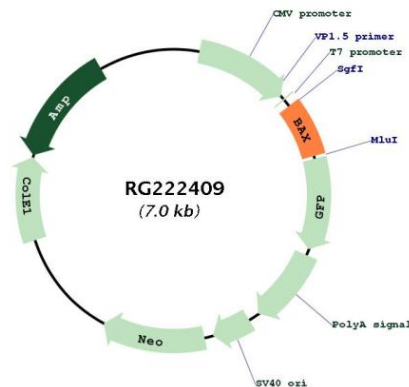
RefSeq ORF: 432 bp

Locus ID: 581

UniProt ID: [Q07812](#)

Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Huntington's disease, Neurotrophin signaling pathway, p53 signaling pathway, Pathways in cancer, Prion diseases
Gene Summary:	The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. The association and the ratio of BAX to BCL2 also determines survival or death of a cell following an apoptotic stimulus. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for this gene. [provided by RefSeq, Dec 2019]

Product images:



Circular map for RG222409