

Product datasheet for RC204369

BAX (NM_138761) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BAX (NM_138761) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BAX
Synonyms: BCL2L4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204369 representing NM_138761
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGGTCCGGGGAGCAGCCAGAGGCGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGG
CCCTTTTGCTTCAGGGTTTCATCCAGGATCGAGCAGGGCGAATGGGGGGGAGGCACCCGAGCTGGCCCT
GGACCCGGTGCCTCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAAGT
GACAGTAACATGGAGCTGCAGAGGATGATTGCCCGGTGGACACAGACTCCCCCGAGAGGTCTTTTTCC
GAGTGGCAGCTGACATGTTTTCTGACGGCAACTCAACTGGGGCCGGTGTGCGCCCTTTTCTACTTTGC
CAGCAAAGTGGTCTCAAGGCCCTGTGCACCAAGGTGCCGGAAGTATCAGAACCATCATGGGCTGGACA
TTGGACTTCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTGGGACGGCCTCCTCTCCT
ACTTTGGGACGCCACGTGGCAGACCGTGACCATCTTTGTGGCGGAGTGCTCACCCTCACTACCCAT
CTGGAAGAAGATGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204369 representing NM_138761
Red=Cloning site Green=Tags(s)

MDGSGEQPRGGGPTSSEQIMKTGALLLQGFIQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDEL
DSNMELQRMIAAVDTPREVFVRVAADMFSNGNFWGRVVALFYFASKLVKALCTKVPKPELIRITIMGWT
LDFLRERLLGWIQDQGGWDGLLSYFGTPTWQTVTIFVAGVLTASLTIWKKMG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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_138761.4](#)

RefSeq Size: 888 bp

RefSeq ORF: 579 bp

Locus ID: 581

UniProt ID: [Q07812](#)

Cytogenetics: 19q13.33

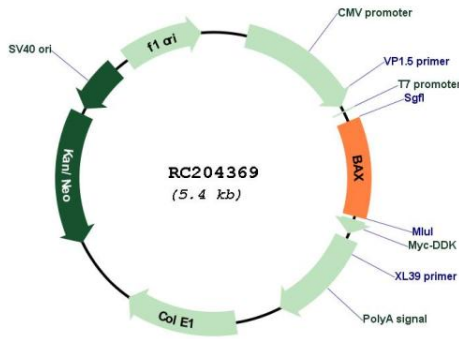
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Huntington's disease, Neurotrophin signaling pathway, p53 signaling pathway, Pathways in cancer, Prion diseases

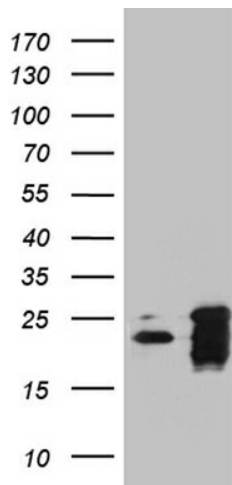
MW: 21 kDa

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]

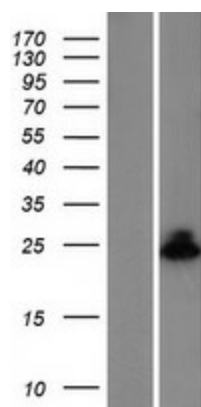
Product images:



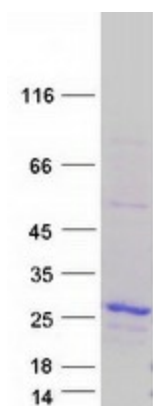
Circular map for RC204369



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BAX (Cat# RC204369, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BAX (1:2000) (Cat# [TA810334]). Positive lysates [LY408504] (100ug) and [LC408504] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408504]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204369 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BAX protein (Cat# [TP304369]). The protein was produced from HEK293T cells transfected with BAX cDNA clone (Cat# RC204369) using MegaTran 2.0 (Cat# [TT210002]).