

Product datasheet for **MR201841**

Bax (NM_007527) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Bax (NM_007527) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Bax
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR201841 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGGGTCCGGGGAGCAGCTTGGGAGCGCGGGCCACCAGCTCTGAACAGATCATGAAGACAGGGG
 CCTTTTGTACAGGGTTTCATCCAGGATCGAGCAGGGAGGATGGCTGGGAGACACCTGAGCTGACCTT
 GGAGCAGCCGCCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGTCTCCGGCGAATTGGAGATGAAGT
 GACAGCAATATGGAGCTGCAGAGGATGATTGCTGACGTGGACACGGACTCCCCCGAGAGGTCTTCTTCC
 GGGTGGCAGCTGACATGTTTGTGTGATGGCAACTCAACTGGGCGCGTGGTTGCCCTCTTCTACTTTGC
 TAGCAAACCTGGTCTCAAGGCCCTGTGCACTAAAGTGCCCGAGCTGATCAGAACCATCATGGGCTGGACA
 CTGGACTTCTCCGTGAGCGGCTGCTTGTCTGGATCCAAGACCAGGGTGGCTGGGAAGGCCCTCCTCCT
 ACTTCGGGACCCACATGGCAGACAGTGACCATCTTTGTGGCTGGAGTCTCACCGCTCGCTCACCAT
 CTGGAAGAAGATGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201841 protein sequence
 Red=Cloning site Green=Tags(s)

MDGSGEQLGSGGPTSSSEQIMKTGAFLLQGFIQDRAGRMAGETPELTLEQPPQDASTKKLSECLRRIGDEL
 DSNMELQRMIAVDVTDSPREVFVRVAADMFAADGNFNWGRVVALFYFASKLVLALCKVPELIRTIMGWT
 LDFLRERLLVWIQDQGGWEGLLSYFGTPTWQTVTIFVAGVLTASLTIWKKMG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_007527

ORF Size: 579 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:
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_007527.3](#), [NP_031553.1](#)

RefSeq Size: 869 bp

RefSeq ORF: 579 bp

Locus ID: 12028

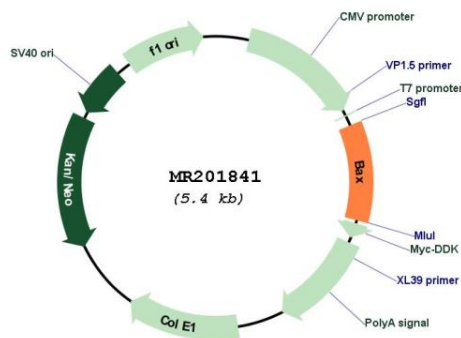
UniProt ID: [Q07813](#)

Cytogenetics: 7 29.32 cM

MW: 21.4 kDa

Gene Summary: Accelerates programmed cell death by binding to, and antagonizing the apoptosis repressor BCL2 or its adenovirus homolog E1B 19k protein. Under stress conditions, undergoes a conformation change that causes translocation to the mitochondrion membrane, leading to the release of cytochrome c that then triggers apoptosis. Promotes activation of CASP3, and thereby apoptosis. BAX deficiency leads to lymphoid hyperplasia and male sterility, because of the cessation of sperm production.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201841