

Product datasheet for **MG201841**

Bax (NM_007527) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bax (NM_007527) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bax
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201841 representing NM_007527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGGTCCGGGGAGCAGCTTGGGAGCGCGGGGCCACCAGCTCTGAACAGATCATGAAGACAGGGG
 CCTTTTGGCTACAGGGTTTCATCCAGGATCGAGCAGGGAGGATGGCTGGGAGACACCTGAGCTGACCTT
 GGAGCAGCCGCCCCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGCTCCGGCGAATTGGAGATGAAGT
 GACAGCAATATGGAGCTGCAGAGGATGATTGCTGACGTGGACACGGAATCCCCCGAGAGGTCTTCTTCC
 GGGTGGCAGCTGACATGTTTGTGATGGCACTTCAACTGGGGCCGCGTGGTTGCCCTCTTCTACTTTGC
 TAGCAAAGTGGTGTCAAGGCCCTGTGCACTAAAGTGCCCGAGCTGATCAGAACCATCATGGGCTGGACA
 CTGGACTTCTCCGTGAGCGGCTGCTTGTCTGGATCCAAGACCAGGGTGGCTGGGAAGGCCTCCTCTCCT
 ACTTCGGGACCCCCACATGGCAGACAGTGACCATCTTTGTGGCTGGAGTCTCACCCTCGCTCACCAT
 CTGGAAGAAGATGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201841 representing NM_007527
 Red=Cloning site Green=Tags(s)

MDGSGEQLGSGGPTSSEQIMKTGAFLQGFQDRAGRMAGETPELTLEQPPQDASTKKLSECLRRIGDEL
 DSNMELQRMIAVDTDSPREVFVRVAADMFAADGNFNWGRVVALFYFASKLVKALCTKVPKELIRTIMGT
 LDFLRERLLVWIQDQGGWEGLLSYFGTPTWQTVTIFVAGVLTASLTIWKKMG

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2055_a03.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_007527

ORF Size: 576 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.

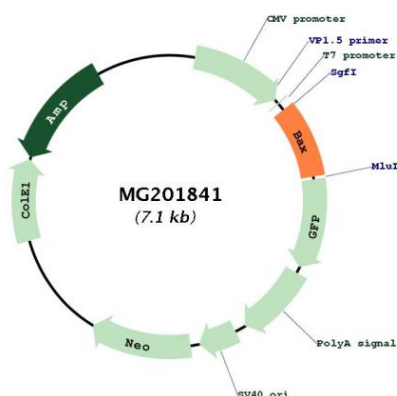
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_007527.3, NP_031553.1</u>
RefSeq Size:	869 bp
RefSeq ORF:	579 bp
Locus ID:	12028
UniProt ID:	<u>Q07813</u>
Cytogenetics:	7 29.32 cM
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 MG201841