

Product datasheet for RC222409

BAX (NM_138763) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	BAX (NM_138763) 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:	<pre>>RC222409 representing NM_138763 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC
	ATGGACGGGTCCGGGGAGCAGCCCAGAGGCGGGGGGGCCCACCAGCTCTGAGCAGATCATGAAGACAGGGG CCCTTTTGCTTCAGGGGATGATTGCCGCCGTGGACACAGACTCCCCCCGAGAGGTCTTTTTCCGAGTGGC AGCTGACATGTTTTCTGACGGCAACTTCAACTGGGGCCGGGTTGTCGCCCTTTTCTACTTTGCCAGCAAA CTGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAACTGATCAGAACCATCATGGGCTGGACATTGGACT TCCTCCGGGAGCGGCTGTTGGACCGGATCCAAGACCAGGGTGGTTGGGACGGCCTCCTCTCCTACTTTGG GACGCCCACGTGGCAGACCGTGACCATCTTTGTGGCGGGAGTGCTCACCGCCTCACTCA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC222409 representing NM_138763 Red=Cloning site Green=Tags(s)</pre>
	MDGSGEQPRGGGPTSSEQIMKTGALLLQGMIAAVDTDSPREVFFRVAADMFSDGNFNWGRVVALFYFASK LVLKALCTKVPELIRTIMGWTLDFLRERLLDWIQDQGGWDGLLSYFGTPTWQTVTIFVAGVLTASLTIWK KMG
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6503_a03.zip



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Restriction Sites: Sgfl-Mlul Cloning Scheme: Contrag sites used for OPF Shuttling: Image: Subscript of the state state of t	- T CGC C ATC Myc.Tag CTC ATC TCA GAA GAG L I S E E
Cloning Scheme: Cloning Scheme: Cloning Scheme: Consequence for OPF Shuttling: Consequence of Security of Secu	- / / / / / / / / / / / / /
Long Long <thlong< th=""> Long Long</thlong<>	Myc.Tag CTC ATC TCA GAA GAG L I S E E
Each V Flag Tag D L A A N D I L A A D L A A D I L D Y K D	Burn I Feel
 * The bit codentedree the Step coden of the ORF ACCN: NM_138763 ORF Size: 429 bp OTI Disclaimer: The molecular sequence of this clone aligns wareference only. However, individual transcript naturally occurring variations (e.g. polymorph clone is substantially in agreement with the revariants is recommended prior to use. More in Varies depending on the nature of the gene. OTI Annotation: This clone was engineered to express the comvaries depending on the nature of the gene. Components: The ORF clone is ion-exchange column purifie containing 10ug of transfection-ready, dried p Reconstitution Method: 1. Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of st 3. Close the tube and incubate for 10 minutes 4. Briefly vortex the tube and then do a quick at the bottom. 	IAG GT TAA ACGCCGGCC K V stop
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 Components: The ORF clone is ion-exchange column purifie containing 10ug of transfection-ready, dried p Reconstitution Method: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of st 3. Close the tube and incubate for 10 minutes 4. Briefly vortex the tube and then do a quick at the bottom. 	olete ORF with an expression tag. Expression
 Reconstitution Method: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of st 3. Close the tube and incubate for 10 minutes 4. Briefly vortex the tube and then do a quick at the bottom. 5. Store the suspended plasmid at 20°C. The 	l and shipped in a 2D barcoded Matrix tube asmid DNA (reconstitute with 100 ul of water).
shipping when stored at -20°C.	erile water to dissolve the DNA. at room temperature. pin (less than 5000xg) to concentrate the liquid DNA is stable for at least one year from date of
RefSeq: <u>NM 138763.4</u>	
RefSeq Size: 741 bp	
RefSeq ORF: 432 bp	
Locus ID: 581	

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	BAX (NM_138763) Human Tagged ORF Clone – RC222409
UniProt ID:	<u>Q07812</u>
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:	15.6 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 RC222409

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Western blot validation of overexpression lysate (Cat# [LY408505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222409 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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