

Product datasheet for **SC128293**

BAX (NM_138761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAX (NM_138761) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAX
Synonyms:	BCL2L4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128293 sequence for NM_138761 edited (data generated by NextGen Sequencing) ATGGACGGGTCCGGGGAGCAGCCCAGAGCGGGGGGCCACCAGCTCTGAGCAGATCATG AAGACAGGGGCCCTTTTGCCTCAGGTTTCATCCAGGATCGAGCAGGGCGAATGGGGGG GAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAAGCTGAGC GAGTGTCTCAAGCGCATCGGGGACGAACTGGACAGTAACATGGAGCTGCAGAGGATGATT GCCGCGTGGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTT TCTGACGGCAACTTCAACTGGGGCCGGTTGTGCGCCCTTTTCTACTTTGCCAGCAAAGT GTGCTCAAGGCCCTGTGCACCAAGGTGCCGAACTGATCAGAACCATCATGGGCTGGACA TTGGACTTCTCCGGGAGCGGCTTTGGACTGGATCCAAGACCAGGTGGTTGGGACGGC CTCCTCTCTACTTTGGGACGCCACGTGGCAGACCGTGACCATCTTTGTGGCGGGAGTG CTCACCCTCACTCACCATCTGGAAGAAGATGGGCTGA
	Clone variation with respect to NM_138761.3 449 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_138761 unedited GAGTCGGACTTGTCTTTGTATACGACTCCTATAGGGCGGCCGGAATTCGGCACCAGGG CCGCCCCGCGGGACCCGGCGAGAGGGCGGGGAGCGCGGTGATGGACGGGTCCGGG GAGCAGCCAGAGGGCGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTT TTGCTTCAGGGTTTCATCCAGGATCGAGCAGGGCGAATGGGGGGGAGGCACCCGAGCTG GCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGTCTCAAGCGC ATCGGGGACGAACTGGACAGTAACATGGAGCTGCAGAGGATGATTGCCCGCTGGACACA GACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTC AACTGGGGCCGGTTGTGCGCCCTTTTCTACTTTGCCAGCAAAGTGGTGTCTCAAGGCCCTG TGCACCAAGGTGCCGAACTGATCAGAACCATCATGGGCTGGACATTGGACTTCTCCGG GAGCGGTGTTGGGCTGGATCCAAGACCAGGGTGGTTGGGACGGCCTCCTCTCTACTTT GGGACGCCACGTGGCAGACCGTGACCATCTTTGTGGCGGGAGTGCTCACCGCTCACTC ACCATCTGGAAGAAGATGGGCTGAGGCCCCAGCTGCCTTGGACTGTGTTTTCTCCAT AAATTATGGCATTCTTTCTGGGAGGGTGGGGATTGGGGACATGGGCATTTTTCTTACTT TTGTAATTATTGGGGGTGTGGGAAGAGTGTCTGAGGGTAATAAACCTCTCGGGACCC CCACCACAACACAAAGAAAAAAGACTCCGACCTATAATGCGACCGAGA ATAGCTGTTCTGAATGGTGCCGGGTGACATGCGTGTACCGACCAATTGGCGTGTGC ATGACCTGTGGAAGCTG</p>
Restriction Sites:	Please inquire
ACCN:	NM_138761
Insert Size:	1000 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_138761.2 , NP_620116.1

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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (alpha) has an alternate splice site in the 3' coding region which causes a frame-shift, compared to variant 1. The resulting isoform (alpha, also known as psi) has a shorter and different C terminus, compared to isoform 1.</p>