

## Product datasheet for **RG235977**

### BAX (NM\_001291430) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BAX (NM\_001291430) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BAX  
**Synonyms:** BCL2L4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235977 representing NM\_001291430.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTGCCGCCGTGGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCT
GACGGCAACTTCAACTGGGGCCGGGTTGTCCGCTTTTCTACTTTGCCAGCAAAGTGGTCTCAAGGCC
CTGTGCACCAAGGTGCCGGAAGTATCAGAACCATCATGGGCTGGACATTGGACTTCTCCGGGAGCGG
CTGTTGGGCTGGATCCAAGACCAGGGTGGTGGGTGAGACTCCTCAAGCCTCCTCACCCACCACCGC
GCCCTACCACCGCCCTGCCACCCTGCTCCCTGCCCCCGCCACTCCTCTGGGACCCTGGGCTTCTGG
AGCAGGTACAGTGGTGCCTCTCCCATCTTCAGATCATCAGATGTGGTCTATAATGCGTTTTCTTA
CGTGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235977  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MIAAVDTSPREVFFRVAADMFSDGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLDFLRER
LLGWIQDQGGWRLLKPPHPHRLTAPAPPSLPPATPLGPWAFWSRSQWCLPIFRSSDVVYNAFSL
RV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001291430.1</a> , <a href="#">NP_001278359.1</a>
<b>RefSeq Size:</b>	692 bp
<b>RefSeq ORF:</b>	423 bp
<b>Locus ID:</b>	581
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Huntington's disease, Neurotrophin signaling pathway, p53 signaling pathway, Pathways in cancer, Prion diseases
<b>MW:</b>	16.4 kDa
<b>Gene Summary:</b>	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]