

Product datasheet for RC217322

Bcl x (BCL2L1) (NM_001191) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bcl x (BCL2L1) (NM_001191) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bcl x
Synonyms: Bcl-X; BCL-XL/S; BCL2L; BCLX; PPP1R52
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC217322 representing NM_001191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCAGAGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTCTACAAGCTTTCCAGAAAGGATACAGCT
 GGAGTCAGTTTAGTGATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGAC
 CCCCAGTGCCATCAATGGCAACCCTCTGGCACCTGGCAGACAGCCCCGCGTGAATGGAGCCACTGGC
 CACAGCAGCAGTTGGATGCCCGGGAGGTGATCCCATGGCAGCAGTAAGCAAGCGCTGAGGGAGGCAG
 GCGACGAGTTTGAAGTACCGGCGGGCATTGAGTACCTGACATCCAGCTCCACATCACCCAGG
 GACAGCATATCAGAGCTTTGAACAGGATACTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGC
 CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCCTGACGGGCATGACTGTGGCCGCGTGGTTCTGCTGG
 GCTCACTCTTCAGTCGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217322 representing NM_001191
 Red=Cloning site Green=Tags(s)
 MSQSNRELVVDFLSYKLSQKGYWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATG
 HSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQDTFVELYGNAAAES
 RKGQERFNRWFLTGMTVAGVLLGSLFSRK

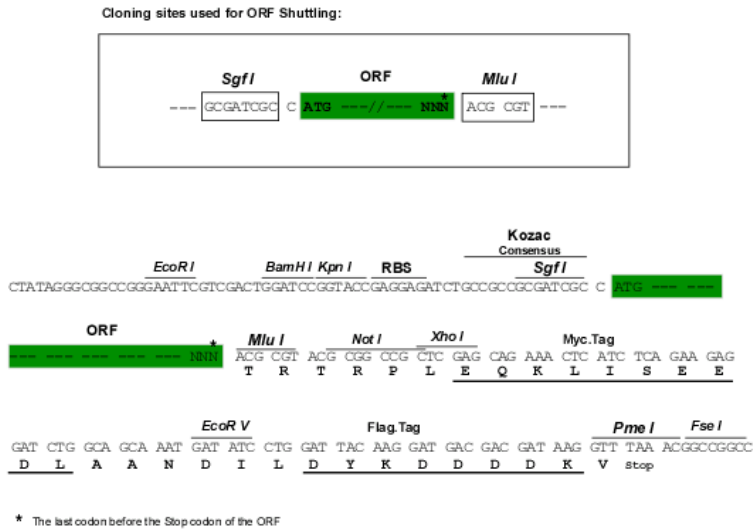
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6494_e01.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001191

ORF Size: 510 bp

OTI Disclaimer: 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_001191.4](#)

RefSeq Size: 2386 bp

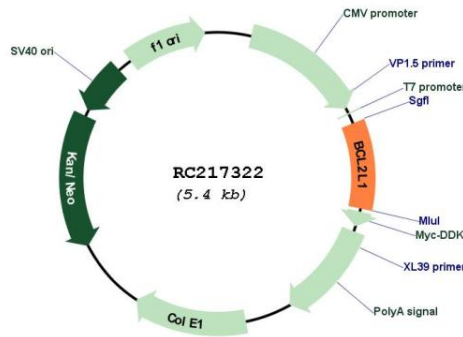
RefSeq ORF: 513 bp

Locus ID: 598

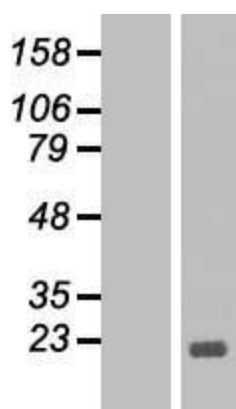
UniProt ID: [Q07817](#)

Cytogenetics:	20q11.21
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Apoptosis, Chronic myeloid leukemia, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer
MW:	18.7 kDa
Gene Summary:	The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Alternative splicing results in multiple transcript variants encoding two different isoforms. The longer isoform acts as an apoptotic inhibitor and the shorter isoform acts as an apoptotic activator. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC217322



Western blot validation of overexpression lysate (Cat# [LY420078]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217322 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).