

Product datasheet for **SC127825**

Bcl x (BCL2L1) (NM_138578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcl x (BCL2L1) (NM_138578) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bcl x
Synonyms:	Bcl-X; BCL-XL/S; BCL2L; BCLX; PPP1R52
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_138578 edited
GAATTCGGCACGAGGATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATT
ATAAAAATGTCTCAGAGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCC
CAGAAAAGGATACAGCTGGAGTCAGTTTAGTGATGTGGAAGAGAACAGGACTGAGGCCCA
GAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGCAACCCATCCTGGCAC
CTGGCAGACAGCCCCCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGA
CTGCGGTACCGGCGGGCATTAGTGACCTGACATCCCAGCTCCACATCACCCAGGGACA
GCATATCAGAGCTTTGAACAGGTAGTGAATGAACTCTTCCGGGATGGGGTAAACTGGGGT
CGCATTGTGGCTTTTTCTCTTCGGCGGGGCACTGTGCGTGGAAGCGTAGACAAGGAG
ATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGCTGGGATACTTTTGTGAACTCTATGGGAACAAT
GCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACGGGCATG
ACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTTTCAGTCGGAATGACCAGACTGAC
CATCCACTCTACCTCCCACCCCTTCTGCTCCACCACATCCTCCGTCCAGCCGCCAT
TGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCAC
ACCTCAGTTCCCTTGGCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGC
TGGCAGGTATGGAAGGGTTTGTGGCTGGGGCAGGAGGGCCCTACCTGATTGGTGAACC
CTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTTGAAGTTTTCAGAAC
CTCTTCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTTCCCCACACTAACCTGGGTTCCCTTTCCCTCCATCCCTACCC
CTAAGAGCCATTTAGGGGCCACTTTTACTAGGGATTACAGGCTGCTTGGGATAAAGATGC
AAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCTCACTCCAGTCCAAT
GTCCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGCTATAGCTA
CAGGAAGCACCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCACCCTAGTCCC
TTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCAAGACAGATGCC
CAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCTACAAGAGCAGCTGTGGCATCTTTG
CCTTGGGCTGCTCCTCATGGTGGGTTTCCGGGACTCAGCCCTGAGGTGAAAGGGAGCTAT
CAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGCAGGAAGGA
GAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCT
GGCCAGGAGCTCTTCCAGGCTCCCTCTCTTCTGCTCCACCCTTGGCCTGTCTCATCCC
CAGGGGTCCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTTATCCT
TGTGAAGATGATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTG
GCTTGCAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGXXXXXXXXX
XXXXXXXXXXXXCAACCCACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAA
GGTGAAGTGCAGTTCAGTAATAAACTGTGTTTACTCAGTGAAAAAAAAAAAAAAAAAAC
TCGAC
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138578 unedited CAGAATTGTATACGACTCACTATAGCGGCCGCGAATCGGCACGAGGATCTTATCTTGGC TTTGGATCTTAGAAGAGAATCACTAACCAGAGACGAGACTCAGTGAGTGAGCAGGTGTTT TGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCTCAGAGCAACCGGGAGC TGGTGGTTGACTTTCTCTCCTACAAGCTTCCAGAAAGGATACAGCTGGAGTCAGTTTA GTGATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCC CCAGTGCCATCAATGGCAACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAG CCACTGGCCACAGCAGCAGTTTGGATGCCCGGGAGGTGATCCCATGGCAGCAGTAAAGC AAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGCAGTACCGCGGGCATTTCAGTGACC TGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGA ATGAAGCTTCCGGGATGGGGTAACTGGGGTCGATTGTGGCCTTTTTCTCCTTCGGCG GGGCACTGTGCGTGAAAGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAG CTTGGATGGCCACTTACCTGAATGACCACCTAGAGCCTTGGATCCAGGAGAACGGCGGCT GGGATACTTTTGTGGAAGTCTATGGGAAACATGCAGCAGCCGAGAGCCGAAAGGGCCAGG AACGCTCAACCGCTGGTTCTGACGGGCATGACTGTGGCCCGCGTGGTTCTGCTGGGCTC ACTCTTNCAGTCGNAATGACCAGACACTGACCATNCACTTACCCTTCCACCCCTTTTCT GNNTCACACATACTNCGTCCAGCCGCCATTGCCACCAGNAGAACACTACATGCAGA
Restriction Sites:	NotI-NotI
ACCN:	NM_138578
Insert Size:	2380 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_138578.1 , NP_612815.1
RefSeq Size:	2575 bp
RefSeq ORF:	702 bp
Locus ID:	598
UniProt ID:	Q07817
Cytogenetics:	20q11.21
Domains:	Bcl-2, BH4
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (Bcl-X(L), also known as Bcl-xL). Variants 1, 3, 4 and 5 encode the same isoform.</p>