

## Product datasheet for **SC302986**

### **Bcl x (BCL2L1) (NM\_001191) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bcl x (BCL2L1) (NM_001191) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bcl x
Synonyms:	Bcl-X; BCL-XL/S; BCL2L1; BCLX; PPP1R52
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001191 edited ATGTCTCAGAGCAACCGGAGCTGGTGGTTGACTTTCTCTCTACAAGCTTTCCAGAAA GGATACAGCTGGAGTCAGTTTAGTGATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGG ACTGAATCGGAGATGGAGACCCCAAGTCCATCAATGGCAACCCATCCTGGCACCTGGCA GACAGCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGGGAGGTG ATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTCCG TACCGGCGGGCATTTCAGTGACCTGACATCCCAGCTCCACATCACCCAGGGACAGCATAT CAGAGCTTTGAACAGGATACTTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGC CGAAAGGGCCAGGAACGTTCAACCGCTGGTTCCTGACGGGCATGACTGTGGCCGGCGTG GTTCTGCTGGGCTCACTTTCAGTCGGAATGA



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<b>3' Read Nucleotide Sequence:</b>	>Forward primer walk for NM_001191 unedited ACCACATGAGACCCAGCCGGATTAGTCTAAGCGACGCGGAAAAAAGGACCGAGCCCGA AGGACCGAATCGGAGAGGAGACACCGTGCCCAACGGCAACCCATCCCGGCACCTGGCAG ACAGCCCCGCGGTGAACGGAGCCACCGGCCACAGCAGCAGTTTGGACGCCCGGGAGGCGA CCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTCCGTT ACCGGCGGGCATTTCAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATC AGAGCTTTGAACAGGATACTTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGCC GAAAGGGCCAGGAACGCTTTCAACCGCTGGTTCCTGACGGGCATGACTGTGGCCGCGTG GTTCTGCTGGGCTCACTTTCAGTCGGAAATGACCAGACACTGACCATCCACTCTACCCT CCCACCCCTTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAAC CACTACATGCAGCCCATGCCACCTGCCATCACAGGGTTGGGCCAGACTCTGGTCCCT TGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCTT GGCCTCAGAAATCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAA GGGTTTGTGGCTGGGGCAGGAGGGCCCTACCTGATTGGTGAACCCCTTACCCTTAGCC TCCCTGAAAATGTTTTCTGCCAGGGAGCTTCAAAGTTTTTCAGACCTCTCCAGAAAGG AGACTAGATTGCCTTTGTTTGTGTTGCTCAGATGATCATTTTCTCACTCTCCACACT AACCTGGGTTCTTTCTTCATCCTACCCCTA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001191
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001191.2</a></u> , <u><a href="#">NP_001182.1</a></u>
<b>RefSeq Size:</b>	2386 bp
<b>RefSeq ORF:</b>	513 bp
<b>Locus ID:</b>	598
<b>UniProt ID:</b>	<u><a href="#">Q07817</a></u>
<b>Cytogenetics:</b>	20q11.21

<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Apoptosis, Chronic myeloid leukemia, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer
<b>Gene Summary:</b>	<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 (2) uses an alternate in-frame splice site, in the central coding region, compared to variant 1. The encoded isoform (Bcl-X(S), also known as Bcl-xS) is shorter than isoform Bcl-X(L).</p>