

Product datasheet for **SC117596**

BCL2A1 (NM_004049) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BCL2A1 (NM_004049) Human Untagged Clone
Tag: Tag Free
Symbol: BCL2A1
Synonyms: ACC-1; ACC-2; ACC1; ACC2; BCL2L5; BFL1; GRS; HBPA1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF:

```
>OriGene sequence for NM_004049 edited
GAATTCGGCACCAGCTTCAAGGTGAGCCAGCTCAAGACTTTGCTCTCCACCAGGCAGAAG
ATGACAGACTGTGAATTTGGATATATTTACAGGCTGGCTCAGACTATCTGCAGTACGTC
CTACAGATACCACAACCTGGATCAGGTCCAAGCAAACGTCAGAGTGCTACAAAAGGTT
GCGTTCTCAGTCCAAAAAGAAGTGGAAAAGAATCTGAAGTCATGCTTGGACAATGTTAAT
GTTGTGTCCTAGACTGCCAGAACTATTCAACCAAGTGTGAAAAGGAGTTTGAAG
GACGACATCATTAACTGGGGAAGAATTGTAACCATATTTGCATTTGAAGGTATTCTCATC
AAGAACTTCTACGACAGCAAATTGCCCGGATGTGGATACCTATAAGGAGATTTTCATAT
TTTGTGGGAGTTCATAATGAATAACACAGGAGAATGGATAAGGCAAACGGAGGCTGG
GAAAATGGCTTTGTAAGAAGTTTGAACCTAAATCTGGCTGGATGACTTTTCTAGAAGTT
ACAGGAAAGATCTGTGAAATGCTATCTCTCTGAAGCAATACTGTTGACCAGAAAGGACA
CTCCATATTGTGAAACCGCCTAATTTTCTGACTGATATGGAACGATTGCCAACACAT
ACTTCTACTTTTAAATAACAACCTTTGATGATGTAACCTTGACCTTCCAGAGTTATGGAAA
TTTTGTCCCATGTAATGAATAAATTGTATGATTTTTTCTCTAAAAAAAAAAAAAAAAAAAA
AACTCGAC
```



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004049 unedited CAAATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCGCTTCAAGTGAGCCA GCTCAAGACTTTGCTCTCCACCAGGCAGAAAGATGACAGACTGTGAATTTGGATATATTTA CAGGCTGGCTCAGGACTATCTGCAGTACGTCTACAGATACCACAACCTGGATCAGGTCC AAGCAAAACGTCCAGAGTGCTACAAAAGTTGCGTTCTCAGTCCAAAAAGAAGTGAAAA GAATCTGAAGTCATGCTTGGACAATGTTAATGTTGTGTCCTAGACACTGCCAGAACACT ATCAACCAAGTGATGGAAAAGGAGTTTGAAGACGACATCATTAACCTGGGGAAGAATTGT AACCATATTTGCATTTGAAGTATTCTCATCAAGAACTTCTACGACAGCAAATTGCCCC GGATGTGGATACTATAAGGAGATTTTCATATTTTGTGCGGAGTTCATAATGAATAACAC AGGAGAATGGATAAGGCAAAACGGAGGCTGGGAAAATGGCTTTGTAAAGAAGTTGAACC TAAATCTGGCTGGATGACTTTTCTAGAAGTTACAGGAAAGATCTGTGAAATGCTATCTCT CCTGAAGCAATACTGTTGACCAGAAAGGACACTCCATATTGTGAAACCGCCTAATTTTT CTGACTGATATGGAAACGATTGCCAACACATACTTCTACTTTTAAATAAACACTTTGATG ATGTAAGTACCTTCAGAGTATGGANATTTGCCCATGTATGAATAATTGTATGATTTTT TCTCTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA CCGGNTGGATCCTGGACCTNCCAGGCCTTCTGCCTTGAGTGCCATCATGCACAGCTGCTA TAAATATGTCATGTGCAGCTATGTNGGGGGGGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004049 unedited NGGGGCNANNNCNNNNNCNNNTNTTNNNNAANGNTTATTTTAGGCCCGCGNCCGCAT ACTAGGATCGAGTTTTTTTTTTTTTTTTTTTTNTAGANAAAATACATACAATTTATTCATT ACATGGGGACAAAATTTCCATAACTCTGGAAGGTCAAGTTACATCATCAAAGTTGTTTAT TTAAAAGTAGAAGTATGTGTTGGCAATCGTTTCCATATCAGTCAGAAAAATTAGGCCGGT TTCACAATATGGAGTGTCTTTCTGGTCAACAGTATTGCTTCAGGAGAGATAGCATTTCA CAGATCTTTCCTGTAACCTCTAGAAAAGTCATCCAGCCAGATTTAGGTTCAAACCTCTTT ACAAAGCCATTTTCCCAGCCTCCGTTTTGCCTTATCCATTCTCCTGTGTTATTTCATTATG AACTCCGCAACAAAATATGAAATCTCCTTATAGGTATCCACATCCGGGGCAATTTGCTGT CGTAGAAGTTTCTGTAGAGAATACCTTCAAATGCAAATATGGTTACAATTTTCCCCAG TTAATGATGTCGCTTCAAACCTCTTTCCATCACTTGGTTGAATAGTNGTCTGGCAGTG TCTACGGACACAACATTAACATTTGTCCAGCATGACTTCAGATTCTTTTCCACTTTCTTT TTGGACTGAGAACGCACCCTTTTGTAGCACTCTGGACGTTNTGCTTGGACCTGATCCAGG TTGTGGTATCTGTAGGAGTACTGCAGATAGTCCTTGACCAGCCTGTAATATATCCAAT TCACAGTCTGTACTTCTGCTGGTGGAAAGCAAAGCCTTGAGCTGGCTCACCTTGAA GCTGGTCCGAATTTCCGGCCGCTTATGGAGTCGTATAACAAATTTGACGGTTCACTAA CGACTTTGCTATTAGGACTTCCACCGACACGCTACCGGCATTTGCGTAACGGGCCGGGTA TTACCAATTTTGGAAAGTCCGTTGATTTGGGCCCAACCACTCCCTTGACGTAAGGGGGGG GG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004049
Insert Size:	850 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:

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_004049.2](#), [NP_004040.1](#)

RefSeq Size: 885 bp

RefSeq ORF: 528 bp

Locus ID: 597

UniProt ID: [Q16548](#)

Cytogenetics: 15q25.1

Domains: Bcl-2

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways

Gene Summary: This gene encodes a member of the BCL-2 protein family. The proteins of this family form hetero- or homodimers and act as anti- and pro-apoptotic regulators that are involved in a wide variety of cellular activities such as embryonic development, homeostasis and tumorigenesis. The protein encoded by this gene is able to reduce the release of pro-apoptotic cytochrome c from mitochondria and block caspase activation. This gene is a direct transcription target of NF-kappa B in response to inflammatory mediators, and is up-regulated by different extracellular signals, such as granulocyte-macrophage colony-stimulating factor (GM-CSF), CD40, phorbol ester and inflammatory cytokine TNF and IL-1, which suggests a cytoprotective function that is essential for lymphocyte activation as well as cell survival. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1).