

## Product datasheet for **SC122225**

### **BCL2 (BC027258) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BCL2 (BC027258) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCL2
Synonyms:	B-cell CLL/lymphoma 2; B-cell lymphoma protein 2; Bcl-2; OTTHUMP00000163680
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for BC027258 edited
CTGGAGAGTGCTGAAGATTGATGGGATCGTTGCCTTATGCATTTGTTTTGGTTTTACAAA
AAGGAACTTGACAGAGGATCATGCTGTACTTAAAAAATACAACATCACAGAGGAAGTAG
ACTGATATTAACAATACTTACTAATAATAACGTGCCTCATGAAATAAAGATCCGAAAGGA
ATTGGAATAAAAAATTTCTGCATCTCATGCCAAGGGGAAACACCAGAATCAAGTGTTC
GCGTGATTGAAGACACCCCTCGTCCAAGAATGCAAAGCACATCCAATAAAAAATAGCTGGA
TTATAACTCCTCTTCTTCTCTGGGGCCGTGGGGTGGGAGCTGGGGCGAGAGGTGCCGT
TGGCCCCCGTTGCTTTTCTCTGGGAAGGATGGCGCACGCTGGGAGAACGGGGTACGATA
ACCGGGAGATAGTGATGAAGTACATCCATTATAAGCTGTGCGCAGAGGGGTACGAGTGGG
ATGCGGGAGATGTGGCGCCGCGCCCCGGGGCCGCCCCGCACCGGGCATCTTCTCCT
CCCAGCCCGGGCACACGCCCCATCCAGCCGCATCCCGGACCCGGTCCGACGACCTCGC
CGCTGCAGACCCCGCTGCCCGGGCGCCGCGGGGCTGCGCTCAGCCCGGTGCCAC
CTGTGGTCCACCTGACCCTCCGCCAGCCGGCGGACGACTTCTCCCGCGCTACCGCCGG
ACTTCGCCGAGATGTCCAGCCAGCTGCACCTGACGCCCTTACC CGCGGGGACGCTTTG
CCACGGTGGTGGAGGAGCTTTCAGGGACGGGGTGAAGTGGGGGAGGATTGTGGCCTTCT
TTGAGTTCGGTGGGGTCAATGTGTGGAGAGCGTCAACCGGAGATGTGCCCCCTGGTGG
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CACACACAACAATTAACAGCTTTCAGGCAAAACGTCGAATCAGCTATTTACTGCCAAA
GGGAAATATCATTATTTTACATTATTAAGAAAAAAGATTTATTTATTTAAGACAGT
CCCATCAAAACTCCTGTCTTTGGAATCCGACCTAATTGCCAAGCACCGCTTCGTGTG
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TCACCATCTGAAGAGCAGACGGATGGAAAAAGGACCTGATCATTGGGAAAGCTGGCTTC
TGGCTGCTGGAGGCTGGGAGAAGGTGTTCACTTGCATTTCTTTGCCCTGGGGCT
GTGATATTAACAGAGGGAGGGTTCCTGTGGGGGAAGTCCATGCCTCCCTGGCCTGAAGA
AGAGACTTTGCATATGACTCACATGATGCATACCTGGTGGGAGGAAAAGAGTTGGGAA
CTTCAGATGGACCTAGTACCCACTGAGATTTCCACGCCGAAGGACAGCGATGGGAAAAAT
GCCCTTAAATCATAGGAAAGTATTTTTTAAGCTACCAATTGTGCCGAGAAAAGCATTTT
AGCAATTTATACAATATCATCCAGTACCTTAAGCCCTGATTGTGTATTTTATATATTTT
GGATACGCACCCCCCACTCCCAATACTGGCTCTGTCTGAGTAAGAAACAGAATCCTCTG
GAACTTGAGGAAGTGAACATTTCCGGTACTTCCGCATCAGGAAGGCTAGAGTTACCCAGA
GCATCAGGCCGCCACAAGTGCCTGCTTTTAGGAGACCGAAGTCCGCAGAACCTGCCTGTG
TCCCAGCTTGGAGGCTGGTCTGGAAGTGAAGCCGGGGCCCTCACTGGCTCCTCCAGGG
ATGATCAACAGGGCAGTGTGGTCTCCGAATGTCTGGAAGCTGATGGAGCTCAGAAATCCA
CTGTCAAGAAAAGCAGTAGAGGGGTGTGGCTGGGCTGTACCCTGGGGCCCTCCAGGT
AGGCCCGTTTTACGTGGAGCATGGGAGCCACGACCCTTCTTAAGACATGTATCACTGTA
GAGGGAAGGAACAGAGGCCCTGGCCCTTCTATCAGAAGGACATGGTGAAGGCTGGGAA
CGTGAGGAGAGGCAATGGCCACGGCCATTTTGGCTGTAGCACATGGCACGTTGGCTGTG
TGGCCTTGGCCACCTGTGAGTTTAAAGCAAGGCTTAAATGACTTTGGAGAGGGTCACA
AATCCTAAAAGAAGCATTGAAGTGAAGTGTGATGATTAATTGACCCCTGTCTATGGAAT
TACATGTAACAACTTCTGTCACTGTAGTTTGGTTTTATTTGAAAACCTGACAAAAAA
AAAGTTCAGGTGTGGAATATGGGGTTATCTGTACATCTGGGGCATTAAAAA
AAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC027258 unedited GGCCAGTTCGNTTTTGTATACGACTCACTATAGGCGGCCGCGTATTCAGATCTGGTACCG GTCCGGAATTCCTGGGATATCGTCGACCCACGCGTCCGCTGGAGAGTGTGAAGATTGAT GGGATCGTTGCCTTATGCATTTGTTTTGGTTTTACAAAAGGAACTTGACAGAGGATCA TGCTGTACTTAAAAATACAACATCACAGAGGAAGTAGACTGATTAACAATACTTACT AATAATAACGTGCCTCATGAAATAAAGATCCGAAAGGAATTGGAATAAAAAATTTCTGCA TCTCATGCCAAGGGGAAACACCAGAATCAAGTGTCCGCGTGATTGAAGACACCCCTC GTCCAAGAAATGCAAAGCACATCCAATAAAATAGCTGGATTATAACTCCTCTTCTTCTCT GGGGCCGTTGGGGTGGGAGCTGGGGCGAGAGGTGCCGTTGGCCCCGTTGCTTTTCTCT GGGAAGGATGGCGCACGCTGGGAGAACGGGTACGATAACCGGGAGATAGTATGAAGTA CATCCATTATAAGCTGTGCGAGAGGGGCTACGAGTGGGATGCGGGAGATGTGGGCGCCG GCCCCGGGGGCCGCCCGCACCGGGCATCTTCTCTCCAGCCGGGCACACGCCCA TCCAGCCGCATCCCGGACCCGGTCCGAGGACCTCGCCGCTGCAGACCCCGGCTGCCCC CGGCGCCCGCGGGGCTGCGCTCAGCCCGGTGCCACCTGTGGTCCACCTGACCCTCCG CCAGGCCGGCGACGACTTCTCCCGCGCTACCGCCGCGACTTCGCGGAGATGTCCAGCCA GCTGCACCTGACGCCCTCACCGCGGGGACGCTTTGCCACGGTGGTGGAGGAGCTCT CAGGGACGGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC027258
<b>Insert Size:</b>	2704 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>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>	<a href="#">BC027258.1</a> , <a href="#">AAH27258.1</a>
<b>RefSeq Size:</b>	2704 bp
<b>RefSeq ORF:</b>	717 bp
<b>Locus ID:</b>	596
<b>Cytogenetics:</b>	18q21.33
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Focal adhesion, Neurotrophin signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

**Gene Summary:**

This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]