

## Product datasheet for **SC110110**

### **Bim (BCL2L11) (NM\_138626) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bim (BCL2L11) (NM_138626) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bim
Synonyms:	BAM; BIM; BOD
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

```
>OriGene sequence for NM_138626 edited
GAATTCGGCACGAGGTCTGCGTCCAGCGCCGCTGCCGCTGCCGCTGCCGCGCCGCCGCC
GCCGCCGCACTACCACCACTTGATTCTTGCAGCCACCCTGCGAACCCCTGCCACACTGCG
ATCGCATCATCGCGGTATTCGGTTCGCTGCGTTCGCCGCCACCAGCCTCGGCGCCCTTT
CTTGCCCTTGTCCCCCAAATGTCTGACTCTGACTCTCGGACTGAGAAACGCAAGAAAA
AAAGACCAAATGGCAAAGCAACCTTCTGATGTAAGTTCTGAGTGTGACCGAGAAGGTAGA
CAATTGCAGCCTGCGGAGAGGCCCTCCCCAGCTCAGACCTGGGGCCCTACCTCCCTACAG
ACAGAGCCACAAGGTAATCCTGAAGGCAATCACGGAGGTGAAGGGGACAGCTGCCCCAC
GGCAGCCCTCAGGGCCCGCTGGCCCCACCTGCCAGCCCTGGCCCTTTTGCTACCAGATCC
CCGCTTTTCATCTTTATGAGAAGATCCTCCCTGCTGTCTCGATCCTCCAGTGGGTATTTT
TCTTTTGACACAGACAGGAGCCAGCACCCATGAGTTGTGACAAATCAACACAAACCCCA
AGTCTCCTTGCCAGGCCTTCAACCACTATCTCAGTGAATGGGTATTTTTGAATAATTA
CCAAGCAGCCGAAGACCACCCACGAATGGTTATCTTACGACTGTTACGTTACATTGTCCG
CCTGGTGTGGAGAATGCATTGACAGTTCTTTGCGGAGCCGAGATACCATGCAGACATTT
TGCTTGTCAAACCAACAAGACCAGCACCGCGGTCTCCTGGTGCCATTATTATGCAGCC
AGCGGTTCTCTTGAGGGGGCAGGTGACGTTTCAGAAGACACCGAGCTGGATGGGACT
ACCTTTCTGTTTATCACCACACAGCAGAATTTCTAATGGAAGTTTGTGTGAATGTAAG
GAGGGAGCATTCTTTGCTTTTAAATATACAAACCATGGTTTTTTGGAGCAGGATTTTGTG
TAAGAATGGTGTTCATGACAGTGTGTTTTCCCTCACCTTCAATAAGGTTTTTCAAAA
AGGAAATGGAACTTTTTAACCAATTTGTGAATAACTTTTGTATTAATAATTTAAGAACC
TACGGCTATTCTCAGAGGATTAATGTAACCCCTGCAGTGGAACTGAGCCAGCTAACTTA
AAAAGCTGCCTTAGTTTTATTTTAGAGATTACAGAATTTTAAACAGGGAGACGTGTGAT
ATACTCCCTCCCTCCCTACTATTGCTCTGACCTTTTTAAATATTTTTTAATACCAA
AAGAGTTCTTTTGAATGGAAGTGAATAAAGGGCAGAGGGTCTGTTGCCAGCCTGCATT
GATATACCAGTCCCATTTGTAATATTTACGTACCTTTATAAATTCAGTTGCATCTGTGG
CAAAATTTAGACTATTTTTGCGTCTTTCTCATCACTTTTTGTGATGCAACTCCAGTCT
GGACTCAGATGCATAGATTTGGTCCAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXCTCG
AC
```

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_138626 unedited
CCC GCCATTACCCCGCCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTA
TATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTGCAGC
GGCCGCGAATTCGGCAGCAGGCTGCGTCCAGCGCCGCTGCCGCTGCCGCTGCCGCCGCC
GCCGCCGCGCCGCCACTACCACCACTTGATTCTTGCAGCCACCCTGCGAACCCCTGCCAC
ACTGCGATCGCATCATCGCGGTATTCGGTTCGCTGCGTTCGCCGCCACCAGCCTCGGCG
CCCTTTCTTGCCCTTGTCCCCCAAATGTCTGACTCTGACTCTCGGACTGAGAAACGCA
AGAAAAAAGACCAAATGGCAAAGCAACCTTCTGATGTAAGTTCTGAGTGTGACCGAGAA
GGTAGACAATTGCAGCCTGCGGAGAGGCCCTCCCCAGCTCAGACCTGGGGCCCTACCTCC
CTACAGACAGAGCCACAAGGTAATCCTGAAGGCAATCACGGAGGTGAAGGGGACAGCTGC
CCCCACGGCAGCCCTCAGGGCCCGCTGGCCCCACCTGCCAGCCCTGGCCCTTTTGCTACC
AGACCCTCGTTTTTCATCTTTATGAGAAGAGCCTCCCTGCTGTCTCGATCCTCCAGTGGG
TATTTCTTTTTGACACAGACAGGAGCCAGCACCCATGAGTTGTGACANATCAACACAA
ACCCCAAGTCTCCTTGCCAGGCCTTCAACCACTATCTCAGTGAATGGGTATTTTTTGA
ATAATTACCAAGCAGCCGAAGACCACCCACGAATGGTTATCTTACGACTGTTACGTTACA
TTGTCCGCCCTGTGGTGGAGAATGCATTGACAGGGATCTTTGCNGAGCCGAGAACCATGC
AGACATTNTGCTTGNTC
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_138626 unedited CGGTATTACTATGGNACCGCGGCCGAATTCTANATCGAGTTTTTTTTTTTTTTTTTTTAC TTATTTATGCTGTACAAAATTTACAAGGTAAAGGAAACACAATTGCACACAGACATTTG GCTCAGTTGATAAGTAATATGACCTACGAATCTAATAAACTACAATATATACATTAA GAAGGGGAAACGGCAGACAATTGTATTCCACTATATTTTTTTATTTAGAAGGAATTTAA ACTTGATTTGGGCGCAACCCCAACCCCAAAAATCTTGATCAACTAACCCAGTTGGGAAGG GCATCTGAAGAATCACTCATGAAACTATTTTGTGTGTGTTTATTGCGTTTCTGTGTTAAG TCACAGGACACTTTTTACAAACCTCACATAGGGAGAGGTTGTCAAGGCACAAAACCTGCA GTAAGTTTCCAAAAAGGGGATTTAATTATTTTTCTACAAAAATGTTTTTAAAAAAGGT AAAAACGTATACCCACGGGAGGCATACTTTCTGCACAGAGGCATTTTGATAACCCGATAC ATACAGTACAGAGACATCCAGTCATCGCTTTAAGTTCTTGCCACAGCCCGGGCTTTA ATACTCCACAATTCATAGAAATTTAATTTTCTCAGGAAGTGGTTCCACACCAGCCTGG AGGGCGCCAGGGCACAAGGGAATGTGCTTATGTGGGACACAACCCCTGGGGAAAAA GGGAAGGGCCTCCCTTGCCCGGGCCAGGTTGGCCCAAGTGTGCCCCAGGGCTCAAG GGTGGGAAAAAATAAAAGGCTTTTTTTCGGGAGACCTGGCCCGCATACCGGGTTC CTGTGGGGGGGGCGCCAAACCAAAAACATTTTGGGTGATGTTGTTCCACCAGC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138626
<b>Insert Size:</b>	4000 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>	<u><a href="#">NM_138626.2</a></u> , <u><a href="#">NP_619532.1</a></u>
<b>RefSeq Size:</b>	3318 bp
<b>RefSeq ORF:</b>	408 bp
<b>Locus ID:</b>	10018
<b>UniProt ID:</b>	<u><a href="#">O43521</a></u>
<b>Cytogenetics:</b>	2q13
<b>Protein Families:</b>	Druggable Genome

**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 protein encoded by this gene contains a Bcl-2 homology domain 3 (BH3). It has been shown to interact with other members of the BCL-2 protein family and to act as an apoptotic activator. The expression of this gene can be induced by nerve growth factor (NGF), as well as by the forkhead transcription factor FKHR-L1, which suggests a role of this gene in neuronal and lymphocyte apoptosis. Transgenic studies of the mouse counterpart suggested that this gene functions as an essential initiator of apoptosis in thymocyte-negative selection. Several alternatively spliced transcript variants of this gene have been identified. [provided by RefSeq, Jun 2013]

Transcript Variant: This variant (7, also known as Bim-ABC and Bim-beta2) lacks an exon in the 3' coding region which results in a frameshift, compared to variant 1. The resulting isoform (7) has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.