

## Product datasheet for **MC203091**

### **Bcl6 (NM\_009744) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bcl6 (NM_009744) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bcl6
Synonyms:	Bcl5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

```
>BC052315
CGGTGATGCAAGAAGTTTCTAGGAAAGGCCGGACACCAGTTTTAAAGCAAAATTTGGACTGTGAAGCAA
GGCACTGGGCAAAACACAACATGGCCTCCCCGGCTGACAGCTGTATCCAGTTTACCCGGCACGCTAGTGAT
GTTCTTCTCAACCTTAATCGCCTCCGGAGTCGGGACATCTTGACGGACGTTGTCATCGTGGTGAGCCGTG
AGCAGTTTAGAGCCATAAGACAGTGCTCATGGCCTGCAGCGCCTGTTCTACAGTATCTTCACTGACCA
GTTGAAATGCAACCTTAGTGAATCAATCTAGATCCTGAAATCAGCCCTGAGGGGTTTTGCATCCTCCTG
GACTTCATGTACACATCTAGGCTCAACCTGAGGGAAGGCAATATCATGGCGGTGATGACCACAGCCATGT
ACCTGCAGATGGAGCATGTTGTCGACACATGCAGGAAGTTCATCAAGGCCAGTGAAGCAGAAATGGCCCC
TGCACTTAAACCTCCCCGTGAAGAGTTCCTGAACAGCCGGATGCTGATGCCCCATGACATCATGGCTAC
CGAGGTGCTGAGGTGCTGGAGAACAATATGCCACTGAGAAATACTCCCGGTGTGAGAGCAGAGCTTTTG
CTCCTCTCTGTACAGTGGCCTGTCAACACCACCAGCCTTTATCCCATGTACAGCCATCTCCCGCTCAG
CACCTTCTCTTCTGTGATGAGGAGCTCCGAGATGCCCCCGAATGCCTGTGGCCAAACCTTTTCCCAAG
GAGCGTGCCCTCCCTGCGACAGTGCCAGGCAAGTCCCTAATGAGTATAGCAGGCCAGCCATGGAGGTGT
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ACACTACAGTGTGCTGAGGGCCCAAGCCTGCTGCCCTTCTGCTCGGAATGCTCCATACTTCCCCTGT
GACAAAGCCAGCAAGAAGAAGAGAGACCTTCTCGGAGGATGAGATTGCCCTGCATTCGAGCCCCCA
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ACCCACAGAGTCTGCAGCAGCAAGAAGCCTGCATCCTTCAGGCCTCTGGCTCTCCGCCAGCCAAGAGC
CCCCTGACCCGAAAGCCTGCAACTGGAAGAAGTATAAGTTTATCGTTTCTCAACAGCCTCAATCAGAATG
CCAAACCCGAGGGCTCTGAGCAGGCAGAGCTGGTTCGCCCTCTCCCTCGAGCCTACCCTGCACCCGCCG
TTGCCAGCCGCTATGGAGCCCGCAACCTTGATCTCCAGTCCCCGACCAAGTCAAGTCCAGTGGGGAG
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GCAGCAGTGAGAGTCACTCACCCTTACATGCACCCCAAGTGCACATCCTGCGGCTCAGTCCCCC
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AACATTTGTGGAGCGCAGTTCAATCGGCCAGCCAACCTGAAGACCCACACTCGAATTCACCTGGAGAAA
AGCCCTACAAATGTAAACCTGTGGGGCCAGGTTGTTTCAGGTGGCCACCTCCGTGCCACGTGCTCAT
CCACACTGGAGAGAAGCCGTACCCCTGTGAAATCTGTGGCACTCGCTTCCGGCACCTTCAGACTCTGAAG
AGCCATCTGCGCATCCACACAGGAGAGAAACCTTACCATTGTGAGAAGTGAACCTGCATTTTCGTACA
AAAGCCAACTGCGACTTCATTTGCGCCAGAAGCAGGCGCCATCACCACCAAGGTGCAATACCGCGT
GTCGGCCGCTGACCTGCCTCCGGAGCTCCCCAAAGCCTGCTGAATGAAGCATGGAGTGTCTCCGCCCTT
TCCTCTCCAGCCCTTCTCAGAATCTACCCAAAGGATGCTGTAACACTTTATACAAAGGTGATCCCATGA
TGTAGTGCCTCTCTCATCCACTAGTGCAATCATAGTTGGGGTGGGGTGGGGTGGGGTTTTGGGGACC
GGGAGCCAAGGCAGCTCCCTTCCCACACTGCCATAAAACATTAAGAAAAACTATTGCTTCTTCTCCTA
TGTGTAAGGCAAAACCTGTCAGCAAAAAGCAAATTCATTTTCTATATCAAAGTAGGGGAGAATGCAGAAG
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GGTGAAGGAATATATGGCAGAGTTGTAATATATAAAATATATATATATAATATAAATATATAAACTA
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TTTGTCTAAAAAGCCTCCGTGATTTGTATTTTTTGAAGTGAAGGTTTACAAATTTACAAAGTGTGTA
TTAAAAACAAAAGAACAACAAAAAAGCTGCAGAAGGAGAAATGTATACTTTTGTCCAGTTTTCAAGTT
TGTACATACCTGTAATGTGCTCACGGTGCCTTTTTACACGGAAGTTTTCAATGATGGACGGGTGTGCC
CCATCCCTTTTTGAAGTGTAGGCAGACACAGGACTTGAAGTTGCTACTAACTAACTCTCTTTGGGAAT
GTTTGACTCCTCCACATCTGCGTCATGCTTGTGCTTATAATTACTCCGGAGACAGGGTTTGGCTGTGT
CTAAACTGCATTAGTGCCTGTAAAATAGAGCTGTACAAAACATAAGAATAAAACATTGAAAAGTCTTGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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**Restriction Sites:**

RsrII-NotI

<b>ACCN:</b>	NM_009744
<b>Insert Size:</b>	2124 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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="#">BC052315</a> , <a href="#">AAH52315</a>
<b>RefSeq Size:</b>	3330 bp
<b>RefSeq ORF:</b>	2124 bp
<b>Locus ID:</b>	12053
<b>UniProt ID:</b>	<a href="#">P41183</a>
<b>Cytogenetics:</b>	16 15.26 cM

**Gene Summary:**

Transcriptional repressor mainly required for germinal center (GC) formation and antibody affinity maturation which has different mechanisms of action specific to the lineage and biological functions. Forms complexes with different corepressors and histone deacetylases to repress the transcriptional expression of different subsets of target genes. Represses its target genes by binding directly to the DNA sequence 5'-TTCCTAGAA-3' (BCL6-binding site) or indirectly by repressing the transcriptional activity of transcription factors. In GC B-cells, represses genes that function in differentiation, inflammation, apoptosis and cell cycle control, also autoregulates its transcriptional expression and up-regulates, indirectly, the expression of some genes important for GC reactions, such as AICDA, through the repression of microRNAs expression, like miR155. An important function is to allow GC B-cells to proliferate very rapidly in response to T-cell dependent antigens and tolerate the physiological DNA breaks required for immunoglobulin class switch recombination and somatic hypermutation without inducing a p53/TP53-dependent apoptotic response. In follicular helper CD4(+) T-cells (T(FH) cells), promotes the expression of T(FH)-related genes but inhibits the differentiation of T(H)1, T(H)2 and T(H)17 cells. Also required for the establishment and maintenance of immunological memory for both T- and B-cells. Suppresses macrophage proliferation through competition with STAT5 for STAT-binding motifs binding on certain target genes, such as CCL2 and CCND2. In response to genotoxic stress, controls cell cycle arrest in GC B-cells in both p53/TP53-dependent and -independent manners. Besides, also controls neurogenesis through the alteration of the composition of NOTCH-dependent transcriptional complexes at selective NOTCH targets, such as HES5, including the recruitment of the deacetylase SIRT1 and resulting in an epigenetic silencing leading to neuronal differentiation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the shorter transcript. Both variants 1 and 2 encode the same protein. 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.