

Product datasheet for **MR210168**

Bcl6 (NM_009744) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcl6 (NM_009744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bcl6
Synonyms:	Bcl5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210168 representing NM_009744
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCCCGGCTGACAGCTGTATCCAGTTTACCCGGCAGCCTAGTGATGTTCTCTCAACCTTAATC
 GCCTCCGAGTCGGGACATCTTGACGGACGTTGTATCGTGGTGAGCCGTGAGCAGTTTAGAGCCATAA
 GACAGTGCTCATGGCCTGCAGCGCCTGTTCTACAGTATCTTCACTGACCAGTTGAAATGCAACCTTAGT
 GTAATCAATCTAGATCCTGAAATCAGCCCTGAGGGTTTTGCATCCTCTGGACTTCATGTACACATCTA
 GGCTCAACCTGAGGGAAGGCAATATCATGGCGGTGATGACCACAGCCATGTACCTGCAGATGGAGCATGT
 TGTGACACATGCAGGAAGTTTCAAGGCCAGTGAAGCAGAAATGGCCCTGCCTTAAACCTCCCGT
 GAAGAGTTCCTGAACAGCCGGATGCTGATGCCCATGACATCATGGCCTACCGAGGTCGTGAGGTCGTGG
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 CCTGTCAACACCACAGCCTCTTATCCCATGTACAGCCATCTCCCGCTCAGCACCTTCTCTTCTGTAT
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 TTTGCGCCAGAAGCACGGCGCCATCACCAACACCAAGGTGCAATACCGCGTGTGGCCGCTGACCTGCCT
 CCGGAGTCCCAAGCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210168 representing NM_009744
 Red=Cloning site Green=Tags(s)

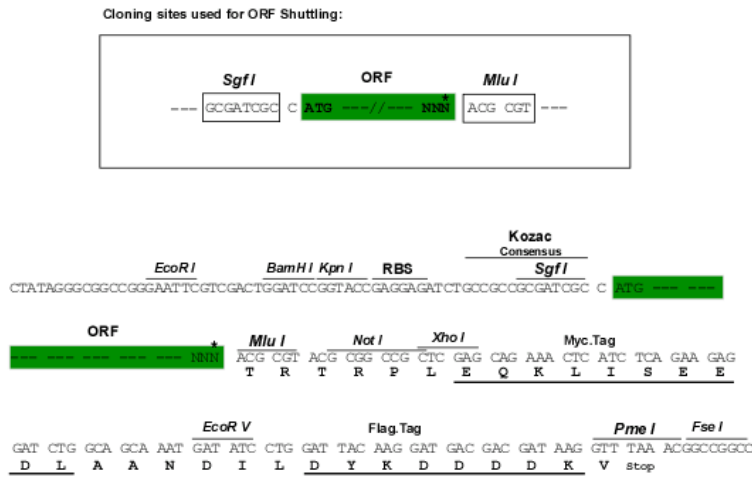
MASPADSCIQFTRHASDVLLNLRNLRSDILTDVVIVVSREQFRAHKTVLMACSGLFYSIFTDQKCNLS
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 EEFLNSRMLMPHDIMAYRGREVENNMPLRNTPGCESRAFAPPLYSGLSTPPASYPMYSHLPLSTFLFSD
 EELRDAPRMPVANPFPKERALPCDSARQVPNEYSRPAMEVSPSLCHSNIYSPKEAVPEEARSDIHYSVPE
 GPKPAVPSARNAPYFPCDKASKEEERPSEDEIALHFEPNAPLNRKGLVSPQSPQKSDCQPNSPTESCS
 SKNACILQASGSPPAKSPTDPKACNWKYKIVLNSLNQNAKPEGSEQAELGRLSPRAYPAPPACQPPME
 PANLDLQSPTKLSASGEDSTIPQASRLNLRSLAGSPRSSSESHSPLYMHPKCTSCGSQSPQHTEMC
 LHTAGPTFPEEMGETQSEYSDSSCENGTFCCNECDRCFSEEASLKRHTLQTHSDKPYKCDRCQASFRYK
 NLASHKTVHTGEKPYRCNICGAQFNRPANLKTHTRIHSGEKPYKCEFCGARFVQVAHLRAHVL IHTGEK
 YPCEICGTRFRHLQTLKSHLRIHTGEKPYHCEKCNLHFRHKSQRLRLHLRQKHGAI TNTKVQYRVSAADLP
 PELPKAC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_009744

ORF Size: 2124 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_009744.4](#)

RefSeq Size: 3326 bp

RefSeq ORF: 2124 bp

Locus ID: 12053

UniProt ID: [P41183](#)

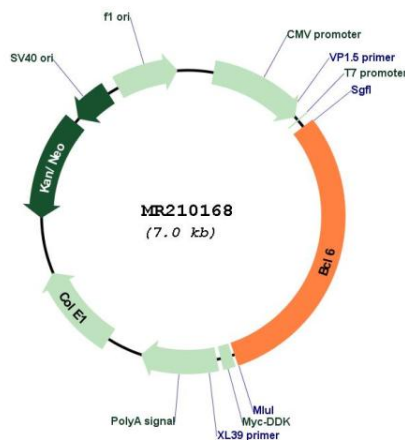
Cytogenetics: 16 15.26 cM

MW: 79 kDa

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-dependendent 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]

Product images:



Circular map for MR210168