

## Product datasheet for MR226785

### Bcl2 (NM\_177410) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bcl2 (NM\_177410) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bcl2  
**Synonyms:** AW986256; Bcl-; Bcl-2; C430015F12Rik; D630044D05Rik; D830018M01Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226785 representing NM\_177410  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCAAGCCGGGAGAACAGGGTATGATAACCGGGAGATCGTGATGAAGTACATACATTATAAGCTGT  
CACAGAGGGGCTACGAGTGGGATGCTGGAGATGCGGACGCGGCCCCCTGGGGCTGCCCCACCCCTGG  
CATCTTCTCCTCCAGCCTGAGAGCAACCCAATGCCCGCTGTGCACCGGGACATGGCTGCCAGGACGTCT  
CCTCTCAGGCCCTCGTTGCCACCGCTGGGCTGCGCTCAGCCCTGTGCCACCTGTGGTCCATCTGACCC  
TCCGCCGGCTGGGGATGACTTCTCTCGTCGCTACCGTCGTGACTTCGCAGAGATGTCCAGTCAGCTGCA  
CCTGACGCCCTTACCGCGAGGGGACGCTTTGCCACGGTGGTGGAGGAACCTTCAGGGATGGGGTGAAC  
TGGGGGAGGATTGTGGCCTTCTTTGAGTTCCGGTGGGGTCAATGTGTGGAGAGCGTCAACAGGGAGATGT  
CACCCCTGGTGGACAACATCGCCCTGTGGATGACTGAGTACCTGAACCGGCATCTGCACACCTGGATCCA  
GGATAACGGAGGCTGGGTAGGTGCATGTCTGGTTGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226785 representing NM\_177410  
Red=Cloning site Green=Tags(s)

MAQAGRTGYDNREIVMKYIHYKLSQRGYEWDAGDADAAPLGAAPTPGIFSFQPESNPMPAVHRDMAARTS  
PLRPLVATAGPALSPVPPVVHLTLRRAGDDFSRRYRRDFAEMSSQLHLTPFTARGRFATVVEELFRDGVN  
WGRIVAFFEFGVMEVSVNREMSPLVDNIALWMTEYLNRLHTWIQDNGGWVGAACLE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2231\\_c06.zip](https://cdn.origene.com/chromatograms/ja2231_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_177410

**ORF Size:** 597 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](mailto: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\\_177410.3](#)

**RefSeq Size:** 2529 bp

**RefSeq ORF:** 600 bp

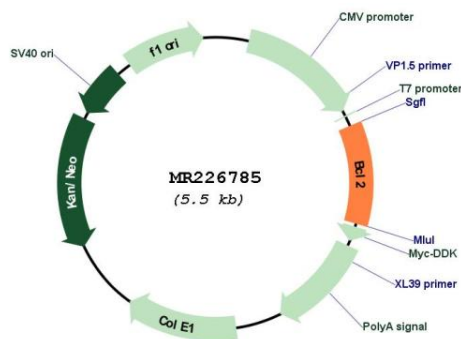
**Locus ID:** 12043

**Cytogenetics:** 1 49.76 cM

**MW:** 22.7 kDa

**Gene Summary:** This gene encodes a member of the B cell lymphoma 2 protein family. Members of this family regulate cell death in multiple cell types and can have either proapoptotic or antiapoptotic activities. The protein encoded by this gene inhibits mitochondrial-mediated apoptosis. This protein is an integral outer mitochondrial membrane protein that functions as part of signaling pathway that controls mitochondrial permeability in response to apoptotic stimuli. This protein may also play a role in neuron cell survival and autophagy. Abnormal expression and chromosomal translocations of this gene are associated with cancer progression in numerous tissues. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

## Product images:



Circular map for MR226785