

Product datasheet for **RG233402**

BCL2L2 (NM_001199839) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BCL2L2 (NM_001199839) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BCL2L2
Synonyms: BCL-W; BCL2-L-2; BCLW; PPP1R51
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233402 representing NM_001199839
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCCAGCCTCGGCCCCAGACACCGGGCTCTGGTGGCAGACTTTGTAGGTTATAAGCTGAGGC
AGAAGGGTTATGTCTGTGGAGCTGGCCCCGGGAGGGCCAGCAGCTGACCCGCTGCACCAAGCCATGCG
GGCAGCTGGAGATGAGTTCGAGACCCGCTCCGGCGCACCTTCTCTGATCTGGCGGCTCAGTGCATGTG
ACCCAGGCTCAGCCCAACAACGCTTCACCCAGGTCTCCGATGAACCTTTTCAAGGGGGCCCAACTGGG
GCCGCTTGTAGCCTTCTTTGTCTTTGGGGCTGCACTGTGTGCTGAGAGTGTCAACAAGGAGATGGAACC
ACTGGTGGGACAAGTGCAGGAGTGGATGGTGGCCCTACCTGGAGACGCGGCTGGCTGACTGGATCCACAGC
AGTGGGGCTGGGCGGAGTTCACAGCTCTATACGGGGACGGGGCCCTGGAGGAGGCGCGGCTCTGCGGG
AGGGGAACCTGGGCATCAGTGAGGACAGTCTGACGGGGCCGTGGCACTGGGGCCCTGGTAACTGTAGG
GGCCTTTTTGCTAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233402 representing NM_001199839
Red=Cloning site Green=Tags(s)

MATPASAPDTRALVADFVGYKLRQKGYVCGAGPGEPAADPLHQAMRAAGDEFETRFRRTFSDLAAQLHV
TPGSAQQRFTQVSDLEFQGGPNWGRLVAFFVFGAALCAESVNKEMEPLVGQVQEWVMVAYLETRLADWIHS
SGGWAEFTALYGDGALIEARRLREGNWASVRTVLTGAVALGALVTVGAFASK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

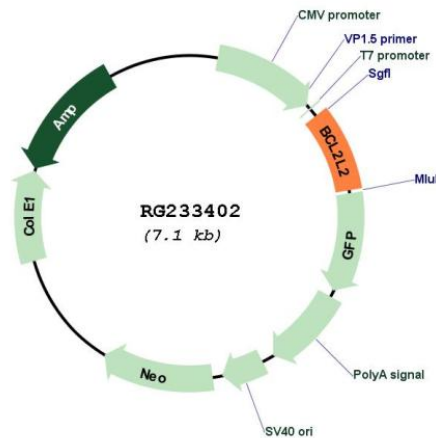


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001199839

ORF Size: 579 bp

OTI Disclaimer: 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_001199839.1](#), [NP_001186768.1](#)

RefSeq Size: 3576 bp

RefSeq ORF: 582 bp

Locus ID: 599

UniProt ID: [Q92843](#)

Cytogenetics: 14q11.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the BCL-2 protein family. The proteins of this family form hetero- or homodimers and act as anti- and pro-apoptotic regulators. Expression of this gene in cells has been shown to contribute to reduced cell apoptosis under cytotoxic conditions. Studies of the related gene in mice indicated a role in the survival of NGF- and BDNF-dependent neurons. Mutation and knockout studies of the mouse gene demonstrated an essential role in adult spermatogenesis. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream PABPN1 (poly(A) binding protein, nuclear 1) gene. [provided by RefSeq, Dec 2010]