

## Product datasheet for RC201314

### Bcl x (BCL2L1) (NM\_138578) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Bcl x (BCL2L1) (NM_138578) Human Tagged ORF Clone                 |
| Tag:                      | Myc-DDK   |
| Symbol:                   | BCL2L1  |
| Synonyms:                 | Bcl-X; BCL-XL/S; BCL2L; BCLX; PPP1R52                             |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC201314 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCAGACAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCT  
GGAGTCAGTTTAGTGATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGAC  
CCCCAGTGCCATCAATGGCAACCCATCCTGGCACCTGGCAGACAGCCCCGCGTGAATGGAGCCACTGGC  
CACAGCAGCAGTTTGGATGCCCGGGAGGTGATCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAG  
GCGACGAGTTTGAAGTACCGGCGGGCATTGAGTACCTGACATCCAGCTCCACATCACCCAGG  
GACAGCATATCAGAGCTTTGAACAGGTAGTGAATGAACTTCCGGGATGGGGTAAACTGGGGTCCGATT  
GTGGCCTTTTTCTCCTTCGGCGGGCACTGTGCGTGAAAAGCGTAGACAAGGAGATGCAGGTATTGGTGA  
GTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTAGAGCCTTGGATCCAGGAGAACGGCGG  
CTGGGATACTTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTC  
AACCGTGGTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTTTCAGTCGGAAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC201314 protein sequence  
Red=Cloning site Green=Tags(s)

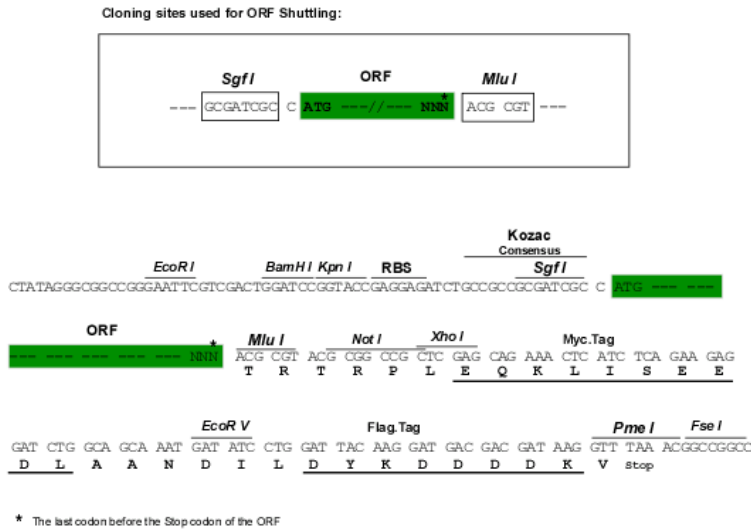
MSQSNRELVVDFLSYKLSQKGYWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATG  
 HSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDL TSQLHI TPGTAYQSFEQVYNELFRDGVNWGRI  
 VAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNHLEPWIQENGGWDTFVEL YGNNAAESRKGQERF  
 NRWFLTGMTVAGVVLLGSLFSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

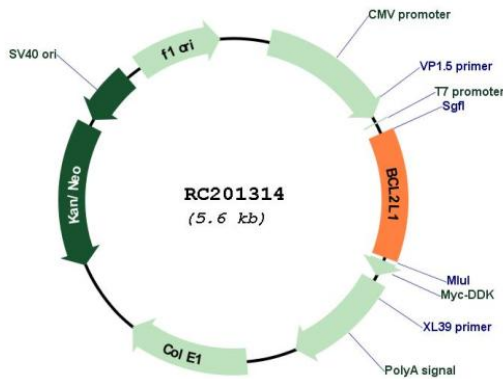
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6052\\_d09.zip](https://cdn.origene.com/chromatograms/mk6052_d09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**

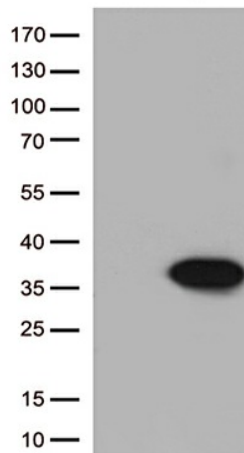


**ACCN:** NM\_138578

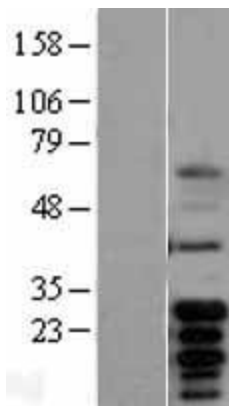
**ORF Size:** 699 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <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="#">NM_138578.3</a>  |
| <b>RefSeq Size:</b>           | 2575 bp  |
| <b>RefSeq ORF:</b>            | 702 bp   |
| <b>Locus ID:</b>              | 598  |
| <b>UniProt ID:</b>            | <a href="#">Q07817</a>   |
| <b>Cytogenetics:</b>          | 20q11.21   |
| <b>Domains:</b>               | Bcl-2, BH4   |
| <b>Protein Families:</b>      | Druggable Genome, ES Cell Differentiation/IPS, Transmembrane   |
| <b>Protein Pathways:</b>      | Amyotrophic lateral sclerosis (ALS), Apoptosis, Chronic myeloid leukemia, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer  |
| <b>MW:</b>                    | 26 kDa   |
| <b>Gene Summary:</b>          | 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 proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Alternative splicing results in multiple transcript variants encoding two different isoforms. The longer isoform acts as an apoptotic inhibitor and the shorter isoform acts as an apoptotic activator. [provided by RefSeq, Dec 2015] |

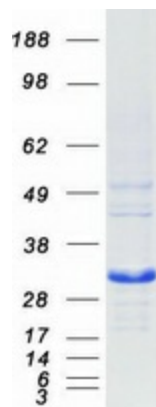
**Product images:**



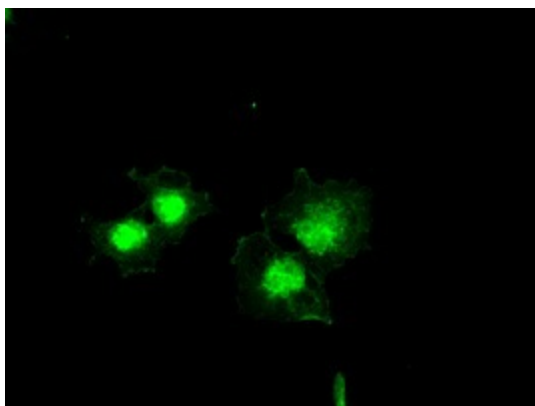
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BCL2L1 (Cat# RC201314, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BCL2L1 (Cat# [TA500097]).



Western blot validation of overexpression lysate (Cat# [LY403363]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201314 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BCL2L1 protein (Cat# [TP301314]). The protein was produced from HEK293T cells transfected with BCL2L1 cDNA clone (Cat# RC201314) using MegaTran 2.0 (Cat# [TT210002]).



Anti-BCL2L1 mouse monoclonal antibody ([TA500097]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BCL2L1 (RC201314) (1:100).