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Product datasheet for RG225155

BCL2A1 (NM_001114735) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCL2A1 (NM_001114735) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BCL2A1
Synonyms:	ACC-1; ACC-2; ACC1; ACC2; BCL2L5; BFL1; GRS; HBPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG225155 representing NM_001114735
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGACTGTGAATTTGGATATATTTACAGGCTGGCTCAGGACTATCTGCAGTGCGTCCTACAGATAC
CACAACCTGGATCAGGTCCAAGCAAAACGTCCAGAGTGCTACAAAATGTTGCGTTCTCAGTCCAAAAAGA
AGTGGAAAAGAATCTGAAGTCATGCTTGGACAATGTTAATGTTGTGTCCGTAGACACTGCCAGAACACTA
TTCAACCAAGTGATGGAAAAGGAGTTTGAAGACGGCATCATTAACTGGGGAAGAATTGTAACCATATTTG
CATTTGAAGGTATTCTCATCAAGAAACTTCTACGACAGCAAATTGCCCCGGATGTGGATACCTATAAGGA
GATTTCATATTTTGTTGCGGAGTTCATAATGAATAACACAGGAGAATGGATAAGGCAAAACGGAGGCTGG
GGGAAATGGCACAATCACACACCTATGCTGGTAGAGTCAGTGGCCCACAAGAAGAGGAAAATGGCTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225155 representing NM_001114735
Red=Cloning site Green=Tags(s)

MTDCEFGYIYRLAQDYLQCVLQIPQPGSGPSKTSRVLQNVAFSVQKEVEKNLKSCLDNVNVVSVDTARTL
FNQVMEKEFEDGIINWGRIVTIFAFEGILIKKLLRQQIAPDVDTYKEISYFVAEFIMNNTGEWIRQNGGW
GKWHNHTPMLVESVAHKKRKMAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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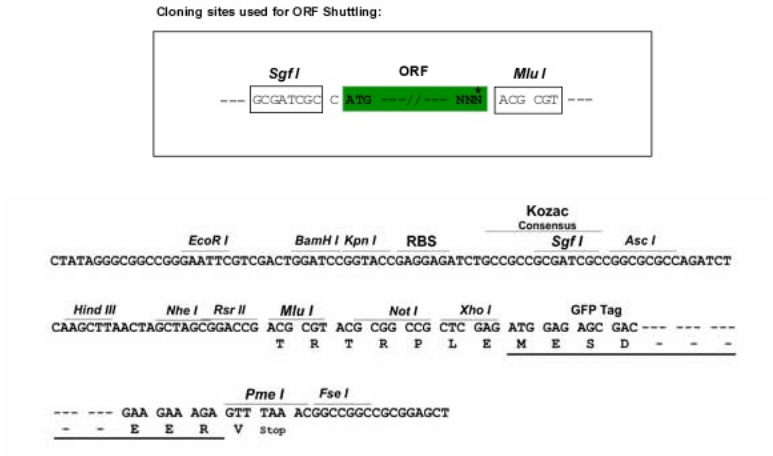
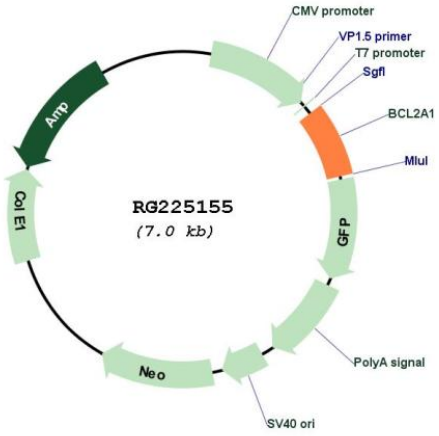
Cloning Scheme:



Plasmid Map:



ACCN:	NM_001114735
ORF Size:	489 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.

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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_001114735.2
RefSeq Size:	955 bp
RefSeq ORF:	492 bp
Locus ID:	597
UniProt ID:	Q16548
Cytogenetics:	15q25.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways
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 that are involved in a wide variety of cellular activities such as embryonic development, homeostasis and tumorigenesis. The protein encoded by this gene is able to reduce the release of pro-apoptotic cytochrome c from mitochondria and block caspase activation. This gene is a direct transcription target of NF-kappa B in response to inflammatory mediators, and is up-regulated by different extracellular signals, such as granulocyte-macrophage colony-stimulating factor (GM-CSF), CD40, phorbol ester and inflammatory cytokine TNF and IL-1, which suggests a cytoprotective function that is essential for lymphocyte activation as well as cell survival. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

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