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Product datasheet for SC117685

BCL10 (NM_003921) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCL10 (NM_003921) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCL10
Synonyms:	c-E10; CARMEN; CIPER; CLAP; IMD37; mE10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117685 sequence for NM_003921 edited (data generated by NextGen Sequencing)

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ATGGAGCCCACCGCACCGTCCCTCACCGAGGAGGACCTCACTGAAGTGAAGAAGGACGCC
TTAGAAAATTTACGTGTATACCTGTGTGAGAAAATCATAGCTGAGAGACATTTTGATCAT
CTACGTGCAAAAAAAATACTCAGTAGAGAAGACACTGAAGAAATTTCTTGTCGAACATCA
AGTAGAAAAAGGGCTGGAAAATTGTTAGACTACTTACAGGAAAACCCAAAAGGTCTGGAC
ACCCTTGTTGAATCTATTCGGCGAGAAAAAACACAGAACTTCCTGATACAGAAGATTACA
GATGAAGTGCTGAAACTTAGAAATATAAAACTAGAACATCTGAAAGGACTAAAATGTAGC
AGTTGTGAACCTTTTCCAGATGGAGCCACGAACAACCTCTCCAGATCAAATTCAGATGAG
AGTAATTTCTCTGAAAAACTGAGGGCATCCACTGTCATGTACCATCCAGAAGGAGAATCC
AGCACGACGCCCTTTTTTTCTACTAATTCTTCTCTGAATTTGCCTGTTCTAGAAGTAGGC
AGAACTGAAAATACCATCTTCTCTTCAACTACACTTCCCAGACCTGGGGACCCAGGGGCT
CCTCCTTTGCCACCAGATCTACAGTTAGAAGAAGAAGGAACTTGTGCAAACTCTAGTGAG
ATGTTTCTTCCCTTAAGATCACGTACTGTTTCACGACAATGA

Clone variation with respect to NM_003921.4
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003921 unedited
NTTATACCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCC
GCGAATTGGCACGAGGGCGGGGCGGCGCAGCCCGAGCTCCCGGACCCGGAAGAAGCGCCA
TCTCCCGCCTCCACCATGGAGCCCACCGCACCGTCCCTCACCGAGGAGGACCTCACTGAA
GTGAAGAAGGACGCCTTAGAAAATTTACGTGTATACCTGTGTGAGAAAATCATAGCTGAG
AGACATTTTGATCATCTACGTGCAAAAAAAATACTCAGTAGAGAAGACACTGAAGAAATT
TCTTGTCGAACATCAAGTAGAAAAAGGGCTGGAAAATTGTTAGACTACTTACAGGAAAAC
CCAAAAGGTCTGGACACCCTTGTTGAATCTATTCGGCGAGAAAAAACACAGAACTTCCTG
ATACAGAAGATTACAGATGAAGTGCTGAAACTTAGAAATATAAAACTAGAACATCTGAAA
GGACTAAAATGTAGCAGTTGTGAACCTTTTCCAGATGGAGCCACGAACAACCTCTCCAGA
TCAAATTCAGATGAGAGTAATTTCTCTGAAAAACTGAGGGCATCCACTGTCATGTACCAT
CCAGAAGGAGAATCCAGCACGACGCCCTTTTTTCTACTAATTCTTCTCTGAAATTGCCTG
TTCTAGAAGTAGGCAGAACTGAAAATACCATCTTTCTCTCAACTACACTTTCCCAGACCT
GNGGGACCCACGGGCCTCCCTCCCTTGCCACCAGATCTACAGGTAGTAAGAGNAGGAAAC
TTGTGCAAACCTCTAGTGAGATGTTTCTTTCCCTTAAGACACGTACTTGTTTACGACATG
ACACTTTATTGCCTTTTATTNTTATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003921 unedited
GGGTTGCCCCAATTTGGAAATTTTATGCGATGGCAATTTCCATTTCTTGTTTTTACAATT
AATAATAGAAATTATAGGAGACAATGTCAGGAAACAGATAAAATTGTAATTTAAATAAAA
ACAAACAGTGAGAGCATAAGATTTATAAACATGTAAAATTAGTCAAATTTTGTTTTACAA
CAAAAAGACAAATCTGGCTAATGGCCCACTTGTTCAAATAGCATTAAAAACAGAATTGTC
ACACACACCAAAAATAATTTGTTCCAGTTATTTCAACTGTACATTGGTCCTCATTAAAAG
AGAATGAAAAGTACAGAGAAAATATTTTTTAAAAATCTCATCAGGCTAGGTGAGGTGGCT
CGTGTCTGTAATCCCAGCACTTTGGGAGGCCACGCTGGGTAGGTTGCTTGAGTCCAGGAG
TTCAAGACCAGCCTGGCCAACATGGCAAAACACCGTCTCTACAAAAATAATACAAAAATT
AGTGAGGCATGGTGGCACACACTTGTAGTCTCAGCTATATTACTTGAGAGGCTGAGGTGA
GAGGATCACGTAAGCATGGGAGGCAGAAGTTGCAGTGAGCCTAGAATGGGCCACTGCACT
CCACCCTGGGCGATAGAAGCAGGACTGTCTCAAANAAAAAAAAACCGCTCAAGGAAAAGG
GGAAAAATCCCTTATTCAATTACATGTAAATACTGAGGGTTAAGGCCAAAATATTTTTTT
TTTGGGATGAAAATTGTTTAACCCCAAGATGGGAAAATTCTTACAAAAGTCTTTTAATTA
GGTAGGTTAAATTAGAAATAAATTTTGGCAAACCCAAATTCCTGGGTGGGCAAACACCCC
TTAAAT

Restriction Sites: NotI-NotI

ACCN: NM_003921

Insert Size: 2250 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
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_003921.2, NP_003912.1
RefSeq Size:	2809 bp
RefSeq ORF:	702 bp
Locus ID:	8915
UniProt ID:	O95999
Cytogenetics:	1p22.3
Domains:	CARD
Protein Families:	Druggable Genome
Protein Pathways:	B cell receptor signaling pathway, T cell receptor signaling pathway

Gene Summary: This gene was identified by its translocation in a case of mucosa-associated lymphoid tissue (MALT) lymphoma. The protein encoded by this gene contains a caspase recruitment domain (CARD), and has been shown to induce apoptosis and to activate NF-kappaB. This protein is reported to interact with other CARD domain containing proteins including CARD9, 10, 11 and 14, which are thought to function as upstream regulators in NF-kappaB signaling. This protein is found to form a complex with MALT1, a protein encoded by another gene known to be translocated in MALT lymphoma. MALT1 and this protein are thought to synergize in the activation of NF-kappaB, and the deregulation of either of them may contribute to the same pathogenetic process that leads to the malignancy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]
Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.