

## BCL10 cDNA

Catalog Number: ATGD0046

### PRODUCT INFORMATION

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**Catalog number**

ATGD0046

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_003912.1

**Alternative Names**

B cell CLL/lymphoma 10, BCL10, Immune signaling adaptor, CARMEN, CIPER, mE10, c-E10, CLAP

**mRNA Refseq**

NM\_003921.4

**OMIM**

603517

**Chromosome location**

1p22

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

702bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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BCL10, also known as B-cell lymphoma/leukemia 10, 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. It 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.

### DATA

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#### Sequence nucleotides

```
ATGGAGCCCA CCGCACCGTC CCTCACCGAG GAGGACCTCA CTGAAGTGAA GAAGGACGCC TTAGAAAATT
TACGTGTATA CCTGTGTGAG AAAATCATAG CTGAGAGACA TTTTGATCAT CTACGTGCAA AAAAAATACT
CAGTAGAGAA GACACTGAAG AAATTTCTTG TCGAACATCA AGTAGAAAAA GGGCTGGAAA ATTGTTAGAC
TACTTACAGG AAAACCCAAA AGGTCTGGAC ACCCTTGTTG AATCTATTCG GCGAGAAAAA ACACAGAACT
TCCTGATACA GAAGATTACA GATGAAGTGC TGAAACTTAG AAATATAAAA CTAGAACATC TGAAAGGACT
AAAATGTAGC AGTTGTGAAC CTTTTCCAGA TGGAGCCACG AACAACTCT CCAGATCAAA TTCAGATGAG
AGTAATTTCT CTGAAAAACT GAGGGCATCC ACTGTCATGT ACCATCCAGA AGGAGAATCC AGCACGACGC
CCTTTTTTTC TACTAATTCT TCTCTGAATT TGCCTGTTCT AGAAGTAGGC AGAACTGAAA ATACCATCTT CTCTTCACT
ACACTTCCCA GACCTGGGGA CCCAGGGGCT CCTCCTTTC CACCAGATCT ACAGTTAGAA GAAGAAGGAA
CTTGTGCAA CTCTAGTGAG ATGTTTCTTC CCTTAAGATC ACGTACTGTT TCACGACAAT GA
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#### Transaction Sequence

```
MEPTAPSLTE EDLTEVKKDA LENLRVYLCE KIAERHFDH LRAKKILSRE DTEEISCRTS SRKRAGKLLD YLQENPKGLD
TLVESIRREK TQNFLIQKIT DEVLKLRNIK LEHLKGLKCS SCEPFPDGAT NNLRSNSDE SNFSEKLRAS TVMYHPEGES
STTPFFSTNS SLNLPVLEVG RTENTIFSST TLPRPGDPGA PPLPPDLQLE EEGTCANSSE MFLPLRSRTV SRQ
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