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Product datasheet for RC205130

Cbl c (CBLC) (NM_012116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbl c (CBLC) (NM_012116) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cbl c
Synonyms:	CBL-3; CBL-SL; RNF57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205130 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGTGGGAAGAGGCCCGCGCCCTGGGCCGGGCAGTCAGGA
TGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGCTGTCCGTGAGTCCCCCTTCGCTGCGGGACCT
GCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTCTCGGCGGGCGGCCGGCGGAGGCGGCCCC
GGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATCTGGAGGCCAAGAGCAGGCAGG
TGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCCGGGCGGGCTCCAGACT
CAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACGCACTCTTCCCC
GGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCCACACCTTCTGGAGGGAAAGTT
GCGGAGCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAACC
AGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAG
TTCGACGTCTTCACCAGGCTCTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCA
ACCACCCAGGCTACATGGCCTTCCTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGCAGGGACAA
GCCAGGCAGTTACATCTTCCGGCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCA
GATGGCAGCATCCTGCAGACCATCCCTGCCAACAAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGG
ACGGCTTCTACCTCTACCCAGATGGAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACC
CCAGCAGCGCATCCACGTGTCAGAGGAGCAGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTC
TGCAAGATCTGTGCTGAGAGCAACAAGGATGTGAAGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCT
GCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCCCCTTCTGCCGCTGCGAGATCAAGGGCTGGGA
GGCCGTGAGTATCTACCAGTTCCACGGTCAGGCTACTGCTGAGGACCCAGGGAACAGCAGTGACCAGGAA
GGCAGGGAGTTGGAGCTGGGGCAGGTGCCCCTTTCGGCTCCTCCATTGCCCCCACGGCCAGATCTGCCCC
CCAGGAAGCCCAGAAATGCCCAGCCGAAAGTGAGACTCCTAAAGGGGAACTCCCCTCCAGCTGCGCTGGG
ACCCCAGGACCCTGCCCCGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205130 protein sequence
Red=Cloning site Green=Tags(s)

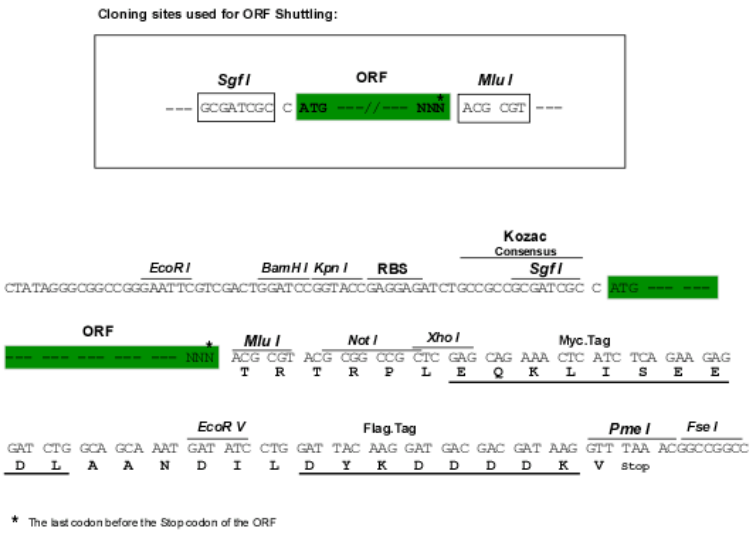
MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGGP
GGPGGSGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAGSRLRRQLAKLAIIFSHMHAELHALFP
GGKYCGHMYQLTKAPAHTFWRESCGARCVLPWAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFE
FDVFTRLFQPWPTLLKNWQLLAVNHPGYMAFLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSS
DGSILQTIPANKPLSQVLLEGQKDGFYLYPDGKTHNPDLTELGQAEPQQRIHVSEEQLQLYWAMDSTFEL
CKICAESNKDVKIEPCGHLLCSCCLAAWQHSDSQTCPFCRCEIKGWEAVSIYQFHGQATAEDPGNSSDQE
GRELELGQVPLSAPPLPPRPDLPPRKPRNAQPKVRLLKGNSPPAALGPQDPAPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6014_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012116

ORF Size: 1422 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_012116.4

RefSeq Size: 1591 bp

RefSeq ORF: 1425 bp

Locus ID: 23624

UniProt ID: Q9ULV8

Cytogenetics: 19q13.32

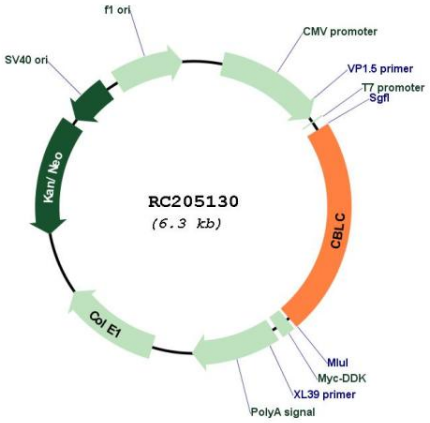
Protein Families: Druggable Genome

Protein Pathways: Chronic myeloid leukemia, Endocytosis, ErbB signaling pathway, Insulin signaling pathway, Jak-STAT signaling pathway, Pathways in cancer, T cell receptor signaling pathway, Ubiquitin mediated proteolysis

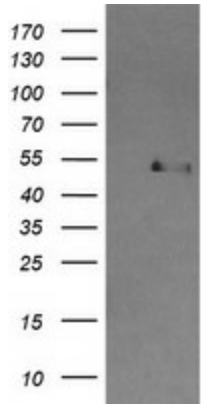
MW: 52.5 kDa

Gene Summary: This gene encodes a member of the Cbl family of E3 ubiquitin ligases. Cbl proteins play important roles in cell signaling through the ubiquitination and subsequent downregulation of tyrosine kinases. Expression of this gene may be restricted to epithelial cells, and alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

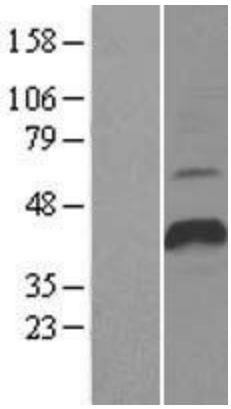
Product images:



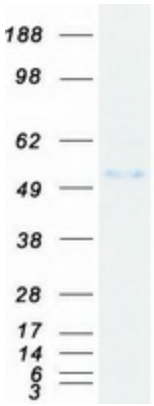
Circular map for RC205130



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CBLC (Cat# RC205130, 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-CBLC(Cat# [TA505093]). Positive lysates [LY402148] (100ug) and [LC402148] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205130 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CBLC protein (Cat# [TP305130]). The protein was produced from HEK293T cells transfected with CBLC cDNA clone (Cat# RC205130) using MegaTran 2.0 (Cat# [TT210002]).