

Product datasheet for **RC206047**

CBLB (NM_170662) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CBLB (NM_170662) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CBLB |
| Synonyms: | Cbl-b; Nbla00127; RNF56 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC206047 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAACCTCAATGAATGGCAGAAACCCTGGTGGTCGAGGAGGAAATCCCCGAAAAGTTCGAATTTTGG
GTATTATTGATGCTATTCAGGATGCAGTTGGACCCCTAAGCAAGCTGCCGCAGATCGCAGGACCGTGG
GAAGACTTGAAGCTCATGGACAAAGTGGTAAGACTGTGCCAAAATCCCAAACCTCAGTTGAAAAATAGC
CCACCATATACTTGTATTTTGCCTGATACATATCAGCATTACGACTTATATTGAGTAAATATGATG
ACAACCAGAACTTGCCCAACTCAGTGAGAATGAGTACTTTAAAATCTACATTGATAGCCTTATGAAAA
GTCAAAACGGGCAATAAGACTCTTTAAAGAAGGCAAGGAGAGAATGTATGAAGAACATCACAGGACAGA
CGAAATCTCACAAAACCTGTCCTTATCTTCAGTCACATGCTGGCAGAAATCAAAGCAATCTTTCCAATG
GTCAATTCAGGGAGATAACTTTTCGTATCACAAAAGCAGATGCTGCTGAATTCTGGAGAAAAGTTTTTGG
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GACCATATAAAAGTTACACAGGAACAATATGAATTATATTGTGAAATGGGCTCCACTTTTCAGCTCTGTA
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ATAATCGTGGATCCCTTTGATCCAAGAGATGAAGGCTCCAGGTGTTGCAGCATCATTGACCCCTTTGGCA
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CCGAAAGTGCAGTGCAGGCAAGTACCAGTCACATACCAGGATCCTCTCCCTTGGCCAGAGAAGA



AAGCCACAGCCTGACCCACTCCAGATCCCACATCTAAGCCTGCCACCCGTGCCTCCTCGCCTGGATCTAA
TTCAGAAAAGGCATAGTTAGATCTCCCTGTGGCAGCCCAACGGGTTACCAAAGTCTTCTCCTTGCATGGT
GAGAAAACAAGATAAACCACTCCAGCACCACCTCCTCCCTTAAGAGATCCTCCTCCACCGCCACCTGAA
AGACCTCCACCAATCCCACCAGACAATAGACTGAGTAGACACATCCATCATGTGGAAGCGTGCCTTCCA
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GTGGCCAAGTTCCCTTGCTCCCGCTAGAAGGTTACCAGGTGAAAATGTCAAACAAACAGAATCACA
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CGCAGGACTGCACCAGAAATTCACCACAGAAAACCCCATGGGCCTGAGGCGGCAATGGAAAATGTCGATG
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GAATAATGTCGAAGTTGCCCGGAGCATCCTCCGAGAATTTGCCTTCCTCCTCAGATATCCCACGCTCA
AATCTA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206047 protein sequence

Red=Cloning site Green=Tags(s)

MANSMNGRNPGGRGGNPRKGRILGIIDAIQDAVGPQKAAADRRTVEKTWKLMDKVVRLLCQNPKLQKNS
PPYILDILPDTYQHLRLILSKYDDNQKL AQLSENEYFKIYIDSLMKKSKRAIRLFKEGKERYEEQSQDR
RNLTKLSLIFSHMLAEIKAIKIFPNQFQGDNFRITKADAAEFWRKFFGDKTIVPWKVFQCLHEVHQISSG
LEAMALKSTIDLTCNDYISVFEFDFITRFLFQPWGSILRNWNFLAVTHPGYMAFLTYDEVKARLQKYSTKP
GSYIFRLSCTRLGQWAIQYVTGDNILQTI PHNKPLFQALIDGSREGFYLYPDGRSYNPDLTGLCEP
PHDHIKVTQEYEL YCEMGSTFQLCKICAENDKDKVIEPCGHLMCTSCLTAWQESDQGQCPFCRCEIKGTEP
IIVDPFDRDEGSRCCSIIIDPFGMPMLDLDDDDREESLMNRLANVRKCTDRQNSPVTSPGSSPLAQR
RPQDPDLQIPHL LPPVPPRLDLIQKGI VRSPCGSPTGSPKSSPCMVRKQDKPLPAPPPLRDPPPPPE
RPPPIPPDNRLSRHIIHVESVPSKDPMPLEAWCPRDVFGTNQLVGCRLLEGESPKPGITASSNVNGRHS
RVGSDPVLMRKHRRHDLPLEGAKVFSNGHLGSEEYDVPRLSPPPPVTLLPSIKCTGPLANSLSEKTRD
PVEEDDDEYKIPSSHPVLSNSQPSHCHNVKPPVRSNGHCMLNGTHGPSSEKKSNIPLSIYLGKGVDFD
SASDPVLPAPRPPTRDNPKHGSSLNRTPSDYDLLIPPLGEDAFDALPPSLPPPPPPARHSLIEHSKPPG
SSSRPSSGQDLFLLPSDPFVDLASGQVPLPARRLPGENVKTNRTSQDYDQLPSCSDGSQAPARPPKPRP
RRTAPEIHHRKPHGPEAALENVDAKIAKLMGEGYAFEEVKRALEIAQNNVEVARSLREFAFPPPVSPRL
NL

SGPTRRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6185_g05.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_170662

ORF Size: 2946 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.

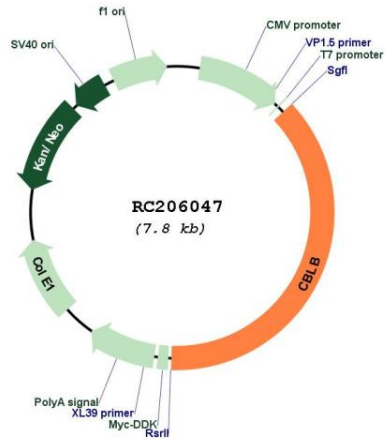
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

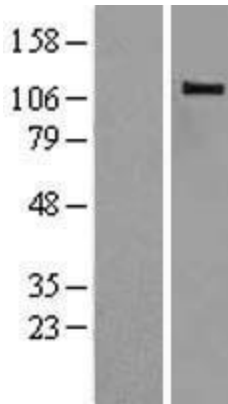
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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| Reconstitution Method: | <ol style="list-style-type: none">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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | NM_170662.2 |
| RefSeq Size: | 3976 bp |
| RefSeq ORF: | 2949 bp |
| Locus ID: | 868 |
| UniProt ID: | Q13191 |
| Cytogenetics: | 3q13.11 |
| 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: | 109.4 kDa |
| Gene Summary: | This gene encodes an E3 ubiquitin-protein ligase which promotes proteasome-mediated protein degradation by transferring ubiquitin from an E2 ubiquitin-conjugating enzyme to a substrate. The encoded protein is involved in the regulation of immune response by limiting T-cell receptor, B-cell receptor, and high affinity immunoglobulin epsilon receptor activation. Studies in mouse suggest that this gene is involved in antifungal host defense and that its inhibition leads to increased fungal killing. Manipulation of this gene may be beneficial in implementing immunotherapies for a variety of conditions, including cancer, autoimmune diseases, allergies, and infections. [provided by RefSeq, Sep 2017] |

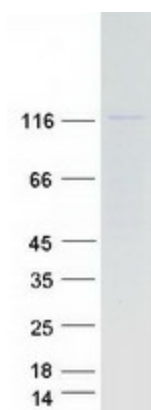
Product images:



Circular map for RC206047



Western blot validation of overexpression lysate (Cat# [LY403529]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206047 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CBLB protein (Cat# [TP306047]). The protein was produced from HEK293T cells transfected with CBLB cDNA clone (Cat# RC206047) using MegaTran 2.0 (Cat# [TT210002]).