

Product datasheet for SC107022

CBLB (NM_170662) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBLB (NM_170662) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBLB
Synonyms:	Cbl-b; Nbla00127; RNF56
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107022 sequence for NM_170662 edited (data generated by NextGen Sequencing)

```

ATGGCAAACCTCAATGAATGGCAGAAACCCTGGTGGTTCGAGGAGAAATCCCCGAAAAGGT
CGAATTTTGGGTATTATTGATGCTATTCAGGATGCAGTTGGACCCCTAAGCAAGCTGCC
GCAGATCGCAGGACCGTGAGAGAAGACTTGAAGCTCATGGACAAAAGTGGTAAGACTGTGC
CAAAATCCCAAACCTTCAGTTGAAAAATAGCCACCATATATACTTGATATTTGCCTGAT
ACATATCAGCATTACGACTTATATTGAGTAAATATGATGACAACCAGAAACTTGCCCAA
CTCAGTGAGAATGAGTACTTTAAAATCTACATTGATAGCCTTATGAAAAAGTCAAACGG
GCAATAAGACTCTTTAAAGAAGGCAAGGAGAGAATGTATGAAGAACAGTCACAGGACAGA
CGAAATCTCACAAAACCTGTCCTTATCTTCAGTCACATGCTGGCAGAAATCAAAGCAATC
TTTCCCAATGGTCAATTCAGGGAGATAACTTTTCGTATCACAAAAGCAGATGCTGCTGAA
TTCTGGAGAAAAGTTTTTGGAGACAAAACCTATCGTACCATGGAAAAGTATTAGACAGTGC
CTTCATGAGGTCCACCAGATTAGCTCTGGCCTGGAAGCAATGGCTCTAAAATCAACAATT
GATTTAACTTGCAATGATTACATTTTCAGTTTTTGAATTTGATATTTTACCAGGCTGTTT
CAGCCTTGGGGCTCTATTTTGGCGAATTGGAATTTCTTAGCTGTGACACATCCAGGTTAC
ATGGCATTCTCACATATGATGAAGTTAAAGCAGGACTACAGAAATATAGCACCAAACCC
GGAAGCTATATTTCCGGTTAAGTTGCACTCGATTGGGACAGTGGGCCATTGGCTATGTG
ACTGGGGATGGGAATATCTTACAGACCATACCTCATAACAAGCCCTTATTTCAAGCCCTG
ATTGATGGCAGCAGGGAAGGATTTTATCTTTATCCTGATGGGAGGAGTTATAATCCTGAT
TTAACTGGATTATGTGAACCTACACCTCATGACCATATAAAAAGTTACACAGGAACAATAT
GAATTATATTGTGAAATGGGCTCCAATTTTCAGCTCTGTAAAGATTTGTGCAGAGAATGAC
AAAGATGTCAAGATTGAGCCTTGTGGGCATTTGATGTGCACCTCTTGCCTTACGGCATGG
CAGGAGTCGGATGGTCAGGGCTGCCCTTCTGTCTGTTGTGAAATAAAAAGGAACTGAGCCC
ATAATCGTGGACCCCTTTGATCCAAGAGATGAAGGCTCCAGGTGTTGCAGCATCATTGAC
CCCTTTGGCATGCCGATGCTAGACTTGGACGACGATGATGATCGTGAGGAGTCCCTTGATG
ATGAATCGGTTGGCAAACGTCCGAAAAGTGAAGTGAAGGCTCCAGGTGTTGCAGCATCATTGAC
CCAGGATCCTCTCCCCTTGGCCAGAGAAGAAAGCCACAGCCTGACCCACTCCAGATCCCA

```



[View online »](#)

CATCTAAGCCTGCCACCCGTCCTCGCCTGGATCTAATTCAGAAAGGCATAGTTAGA
TCTCCCTGTGGCAGCCCAACAGGTTACCAAAGTCTTCTCCTTGCATGGTGAGAAAAACA
GATAAACCACTCCCAGCACCACCTCCTCCCTTAAGAGATCCTCCTCCACCGCCACCTGAA
AGACCTCCACCAATCCCACCAGACAATAGACTGAGTAGACACATCCATCATGTGGAAAGC
GTGCCTCCAGAGACCCGCAATGCCTCTTGAAGCATGGTGCCCTCGGGATGTGTTTGGG
ACTAATCAGCTTGTGGGATGTCGACTCCTAGGGGAGGGCTCTCCAAAACCTGGAATCACA
GCAAGTTCAAATGTCAATGGAAGGCACAGTAGAGTGGGCTCTGACCCAGTGCTTATGCGG
AAACACAGACGCCATGATTTGCCTTTAGAAGGAGCTAAGGTCTTTTCCAATGGTCACCTT
GGAAGTGAAGAATATGATGTTCCCTCCCGGCTTTCTCCTCCTCCTCCAGTTACCACCTC
CTCCCTAGCATAAAGTGTACTGGTCCGTTAGCAAATTCTCTTTCAGAGAAAAACAAGAGAC
CCAGTAGAGGAAGATGATGATGAATACAAGATTCTTTCATCCCACCCTGTTTCCCTGAAT
TCACAACCATCTCATTGTCATAATGTA AACCTCCTGTTCCGGTCTTGATAATGGTCAC
TGTATGCTGAATGGAACACATGGTCCATCTTCAGAGAAGAAATCAAACATCCCTGACTTA
AGCATATATTTAAAGGGAGATGTTTTGATTGAGCCTCTGATCCCGTGCCATTACCACCT
GCCAGGCTCCAACCTCGGACAATCCAAAGCATGGTCTTCACTCAACAGGACGCCCTCT
GATTATGATCTTCTCATCCCTCCATTAGGTGAAGATGCTTTTGTGCCCTCCCTCCATCT
CTCCCACCTCCCCACCTCCTGCAAGGCATAGTCTCATTGAACATTCAA AACCTCCTGGC
TCCAGTAGCCGGCCATCCTCAGGACAGGATCTTTTTCTTCTTCCAGTCCCTTTGTT
GATCTAGCAAGTGGCCAAGTTCCTTTGCCTCCTGCTAGAAGGTTACCAGGTGAAAATGTC
AAAACCTAACAGAACATCAGGACTATGATCAGCTTCTTTCATGTTTCAGATGGTTCACAG
GCACCAGCCAGACCCCTAAACCACGACCGCGCAGGACTGCACCAGAAATTCACCACAGA
AAACCCCATGGGCTGAGGCGGCATTGAAAATGTCGATGCAAAAATTGCAAACTCATG
GGAGAGGGTTATGCCTTTGAAGAGGTGAAGAGAGCCTTAGAGATAGCCCAGAATAATGTC
GAAGTTGCCCGGAGCATCCTCCGAGAATTGCCCTCCCTCCTCCAGTATCCCCACGTCTA
AATCTATAG

Clone variation with respect to NM_170662.3

1581 g=>a;1863 g=>a

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_170662 unedited

GGGCGGCCCGCAATTCGCACGAGGCTGCTAGTGTGCTGCGGGCTCCCGCGGCCTCCC
CGAGTCGGGCGGGAGGGGAGAGCGGGTGTGGATTTGTCTTGACGGTAATTGTTGCGTTTC
CACGTCTCGGAGGCTGCGCGCTGGTTGCTCCTTCTTTCGGGAGCGAGCTGTTCTCAGCG
ATCCCCTCCCAGCCGGGCTCCCCACACACACTGGGCTGCGTGCCTGTTGGAGTGGGACC
CGCGCACACGCGTGTCTCTGGACAGCTACGGCGCCGAAAGAACTAAAATTCAGATGGCA
AACTCAATGAATGGCAGAAACCCTGGTGGTCGAGGAGGAAATCCCGAAAAGGTGCAATT
TTGGGTATTATTGATGCTATTGAGGATGCAGTTGGACCCCTAAGCAAGCTGCCGCAGAT
CGCAGGACCGTGGAGAAGACTTGAAGCTCATGGACAAAGTGGTAAGACTGTGCCAAAAT
CCCAAACCTCAGTTGAAAATAGCCCACCATATACTTGATATTTTGCCTGATACATAT
CAGCATTTACGACTTATATTGAGTAAATATGATGACAACCAGAAACTTGCCCAACTCAGT
GAGAATGGAGTACTTTAAAATCTACATTGATAGCCTTATGAAAAAGTCAAACCGGCAAT
AAGACTCTTANAGAAGGCAAGGGAGAGAATGATTGAAGAACAGTCACAGGACAGACGA
AATCTCACAACCTGTCCCTAATCTTCAGTCACATGCTGGCAGAATCAAGCATCCTCCCA
TGGTCATTCCAGGGAGATACTTTGATACAAAAGCAGAGCTGCTGATCTGGGAAAAGATT
TTGGAGACAAACATCGACAATGGAAGA

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_170662 unedited NNTTTTTTAGCTTGNACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTT GCATTAGTTTGATCAGTTGAAAATCAGAACCTTCAAAGCATCTTGTGAATGAGAGAAATG GAACTGGACCTGGGCAAGGCATGGGGATGGTAGAGATCCATATGAATAAATGATTTAGCT GTTGATGTGGACAGCAAGAGAGTTGGTGGGAAATGTTACAGCAGACCTGACCACGCTACA AAGGGTCTGTGAAGAACACAGTACAGGTATCAAACACCAAAACAAAACAAAACAAAACAAA CAAGAACAAAACGCAACTTTGCCAAAACGTAACAAGGTAAGCATTTACAGGTTCAA GTTCAAGGGAAGTAAACGTCTTTAAATTTTGTGAGTTCAACCCTGATTTAAAAATA TGGCTAGCAAAAACAAGGAAGCCACAGCTGTGACATCCTGAGCAAGCATCGGTCTCCTT TGAGAAGCTGCACTCCCAAGCCTCTTCTCAAGCTGCTACACGAGGAGGAGACTTCTCT CTTGAATTCATCTCAGTTCTCTTTATTTCCACACTCTTGAATACATCGATTGCTTTCC ATTTTGGTGTCTACAGTTCTGGCTGCTATAGATTTAGACGTGGGGATACTGGAGGAAGGG AAGGCAAATTCGAGGATGCTNCGGGGCACTTCGACATTATTCTGGGCTATCTCTAAG GCTCTCTCACCTCTCAAGGCATACCCTCTCCATGGAGTTTGAATTTGCATCGAATT TTCCATGCCGCTCAGCCTGGGGTTTTCTGTGGTGAATTTGGTGCAGCTTGGCGGCCGG TTTAGGGGGTCTGGTTGGCGCTGTAACATTTGACTGAAGAGTGACTAGCCCGGGAGTTC GGAAGTTGCATTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_170662
Insert Size:	3580 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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.
RefSeq:	NM_170662.3 , NP_733762.2
RefSeq Size:	3976 bp

RefSeq ORF:	2949 bp
Locus ID:	868
UniProt ID:	<u>Q13191</u>
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and initiates translation from a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Both variants 2 and 3 encode isoform b. 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.</p>