

## Product datasheet for **MC218504**

### **Cblc (NM\_001161844) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cblc (NM_001161844) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cblc
Synonyms:	2310076I21Rik; 2310079L19Rik; Cbl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC218504 representing NM\_001161844  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**

ATGGCTGCGGCGGCAGCCCCGCGAGGGTGGCAGCGGGCGAGCCACGCGCGCTTAGCCGGGCGGTGAAGT  
 TGCTCCAGCGCCTAGAAGAGCAATGCAGGGATCCAGGATGGTCACGGGGCCCCCGTCCCTGCGGGACCT  
 GCTGCCCCGCACCGCGCAGCTACTTGGAGAGGTGGCAAAGGCCCGCGCAGGCCAGGGAAGACCCGAG  
 GGTCCCGGTGGCGCCGATGACTTTCTGGCCATCTACCTGGCCAATCTGGAGGTCAAAGGCAGGCAGGTGG  
 CGGAGCTCCTGCCACCCGAGGCAAAAAGGACGTGAACCAGGATGTTTTCCGGGAGGGCTCCAGATTCAG  
 GCGACAACCTGGCAAGCTGGCCCTCATCTTCAGTCACATGCACGCGGAGTTGAGCGCACTCTTCCCTGCT  
 GGGAACTACTGTGGGCACCTGTACCAGCTACCAAGGGCTCTGCCACATCTTCTGGAGGCAGAATTGTG  
 GAGTTCGGTGCCTGCTTCCCTGGGCTGAGTTCAGTCCCTCCTGTGTGCCTGCCACCCTGTGGAACCAGG  
 CCCCACCATGCAGGCCTTGGGTCCACCTTGGACCTCACCTGTAAACGGCCACGTGTCTGTCTTTGAGTTT  
 GACGTCTTCACCAAGGCTCTTTCAGCCGTGGCCCACTTTACTGAGGAATTGGCAACTCCTGGCTGTCAACC  
 ATCCTGGCTACATGGCCTTCTCACCTACGATGAGGTCCAAACACGCCTGACAGGCCTACAGGGACAAACC  
 AGGCAGCTATATCTTCCGGCCAAGCTGTACCCGCTGGGGCAGTGGGCCATTGGATACGTGAGCTCCGAT  
 GGAAGCATCCTGCAAACCATCTCTCAACAACTCTGCTGCAGGTGCTCCTGAAGGGACAAAAGGACG  
 GCATCTTCCTCTTCCCTGATGGAAGAAACACAACCCAGACCTGACTGAGCTCTGCCGGGTAGAACCCTA  
 CCAACGCATCCAAGTGTGAGAGGACTCAGACAGCCAGACCTGTCCCTTCTGCCGTTGTGAGATCAAAGGT  
 CGAGAGGCCGTGAGTATCTGTGAGGCACAGGAGAGGCCAACGGAGGTGAGACTGCTGCAGATGGCTCAA  
 GAGACAACCTGTACCAGGAGGCTGCTGAGCAGAACTGGGGCCGGTGATTCCCTCTGCTCCCTCACTACT  
 CCTGAAGATCAGTTCCTCAGGGACCCCAAGACAAAGGCTGGCTGACACTGGCACCACCTCGCCCTGCC  
 AGGCTCCGACCTCCACTTCTCTCCCCAAAATGGCTCGGTTCTGTGGGAAGTCACCTCCAGGCCCGGG  
 CCAGGGAGGAGGCCACAGAAAGCTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001161844

**Insert Size:** 1359 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\_001161844.1, NP\_001155316.1

RefSeq Size: 1530 bp

RefSeq ORF: 1359 bp

Locus ID: 80794

Cytogenetics: 7 A3

**Gene Summary:** Acts as an E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome. Functionally coupled with the E2 ubiquitin-protein ligases UB2D1, UB2D2 and UB2D3. Regulator of EGFR mediated signal transduction; upon EGF activation, ubiquitinates EGFR. Isoform 1, but not isoform 2, inhibits EGF stimulated MAPK1 activation. Promotes ubiquitination of SRC phosphorylated at 'Tyr-424', has the highest ubiquitin ligase activity among CBL family proteins. In collaboration with CD2AP may act as regulatory checkpoint for Ret signaling by modulating the rate of RET degradation after ligand activation; CD2AP converts it from an inhibitor to a promoter of RET degradation; the function limits the potency of GDNF on neuronal survival.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.