

Product datasheet for **MC222751**

Cblb (NM_001033238) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cblb (NM_001033238) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cblb
Synonyms:	AI429560; AI851073; Cbl-b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF:

>MC222751 representing NM_001033238

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAATTCATGAATGGCAGAAATCCTGGTGGTCGAGGAGGAAACCCCGCAAAGGTCGCATTTTGG
GGATTATTGATGCTATTCAGGATGCAGTCGGACCCCAAAGCAAGCTGCAGCTGACCGCAGGACTGTGGA
GAAGACTTGAAAACCTCATGGACAAAGTGGTAAGACTGTGCCAAAATCCCAAGCTTCAGTTGAAAAACAGC
CCACCGTATATACTTGATATTTTACCTGATACGTATCAGCACTTGAGACTTATATTGAGTAAATATGATG
ACAACCAGAAGCTGGCTCAACTGAGCGAGAATGAGTACTTTAAAATCTACATCGATAGTCTCATGAAGAA
GTCGAAGCGAGCGATCCGGCTCTTTAAGAAGGCAAGGAAAGGATGTACGAAGAGCAGTCGCAGGACAGA
CGGAATCTCACAAGCTGTCCCTTATCTTCAGTCACATGCTGGCAGAAATCAAGGCGATCTTTCCCAATG
GCCAGTCCAGGGAGATAACTTCCGGATACCAAAGCAGATGCTGCTGAGTTCGGAGGAAGTTTTTTGG
AGACAAAATATTGTACCATGAAAAGTCTTCAGACAGTGCCTGCATGAGGTCCATCAGATCAGCTCTGGC
CTGGAAGCAATGGCTCTGAAGTCAACCATTGATTTAACTTGAATGATTACATCTCAGTGTTTGAATTTG
ATATTTTTACCAGGCTATTTACGCCCTGGGGCTCTATTTACGGAATTGGAACCTCTTGGCTGTGACTCA
CCCGGGATACATGGCATTCTCACGTATGATGAAGTAAAGCTCGGCTACAGAAATACAGCACCAGCCT
GGAAGTTACATTTCCGGTTAAGCTGCACTCGGCTGGGACAAATGGGCCATTGGCTATGTGACTGGGGACG
GCAATATCCTACAGACCATACCTCATAACAAGCCCCTGTTCCAAGCCCTGATTGATGGTAGCAGGGAAAGG
CTTTTATCTTTATCCTGATGGGCGGAGCTATAACCCTGATTTAACCGATTATGTGAACCTACACCTCAC
GATCATATAAAAGTTACACAGGAGCAGTATGAAGTGTATTGTGAAATGGGCTCCACTTTTCAGCTCTGCA
AGATCTGTGCAGAGAATGACAAAGATGTCAAGATTGAGCCTTGGGGCATCTGATGTGCACTTCGTGCCT
TACCGCGTGGCAGGAGTCTGATGGCCAAGGCTGCCCTTCTGTCGCTGTGAGATAAAAGGAACGGAGCCC
ATCATTGTGGACCCCTCGACCCAGAGATGAAGGCTCCAGGTGCTGCAGCATATTGACCCCTTCAGCA
TCCCCATGCTTGACTTGACGATGACGATGATCGAGAGGAGTCTTTGATGATGAACAGGCTGGCAGTGT
TCGAAAGTGCACGGACAGGCAGAACTCACAGTCACATCGCCAGGCTCCTCACCCCTTGGCCAGAGAAGA
AAGCCTCAGCCAGACCCTCTCCAGATCCCCACCTCAGCCTGCCACCAGTGCCTCCCCGCCTAGATCTCA
TTCAGAAAGGCATCGTGCCTCTCCGTGTGGCAGCCCCACAGGCTCGCCAAAGTCTTCTCCATGCATGGT
TAGAAAACAAGACAACCACTCCCGGCACCCCTCCTCCCTTGAGAGATCCACCTCCTCCACCAGAGAGG
CCTCCCCCATCCACCTGACAATAGACTGAGCAGACACTTCCACCATGGAGAGAGTGTGCCTTCCCGGG
ACCAGCCCATGCCCTCGAAGCCTGGTGCCTCGGGATGCCTTCGGGACTAACCGGTGATGGGATGTGCG
CATCCTCGGGGATGGCTCTCAAAGCCTGGCGTCAACGCAAACCTCCAGCTTAAATGGGAGGCACAGTAGA
ATGGGCTCCGAGCAGGTTCTTATGAGGAAACACAGACGCCATGATTTGCCTTCAGAAGGAGCCAAGGTCT
TTTCCAATGGCCACCTTGCCACTGAAGAATACGATGTCCCTCCTCGGCTTTCCCTCCGCCTCCAGTCAC
CACCTTCTCCCAAGCATAAAGTGTACTGGTCCATTAGCAAATTTGTCTCTCAGAGAAAATAGAGACACG
GTAGAAGATGATGACGATGAATAACAAGATTCCTTCATCCCATCCTGTGTCCTGAATTCACAACCATCTC
ATTGCCATAATGTCAAAGCTCCTGTTCCGGTCTTGTGATAATGGTCATTGTATATTGAATGGAACCTATGG
TGCCCTTCAGAGATGAAGAAATCGAACATCCCAGATTTAGGCATCTATTTGAAGGGTGAAGAGCCTTTG
GATGCTCTCCCTCCATCCCTCCCTCCTCCCCACCTCCTGCAAGACACAGTCTCATCGAACATTCAAAAC
CTCCAGGCTCCAGTAGCCGGCCTTCTCAGGGCAGGACCTTTTCTTCTTCTCAGATCCCTTTTTTTGA
CCCAACAAGTGGCCAAGTTCCATTGCTCCTGCCAGGAGAGCAGCAGGAGACAGCGGCAAAGCCAACAGA
GCCTCGCAGGACTATGACCAGCTCCCTTCTCCTCGATGGTTCGCAAGCACCAGCTAGACCCCCAAAAC
CACGACCCGAAGGACTGCACCAGAAATTCATCACAGAAAGCCCCATGGGCCGAAGCGGCTTGGAAAA
TGTCGATGCAAAAATTGCAAACTCATGGGAGAGGGGTATGCCTTTGAAGAGGTGAAGAGCCTTAGAG
ATTGCCAGAATAACGTGGAAGTGGCCAGGAGCATACTTCGAGAATTTGCCTTCCCCCTCTGTCTCC
CACGTCTGAATCTA**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001033238
Insert Size:	2817 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:	<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:	<u>NM_001033238.1</u> , <u>NP_001028410.1</u>
RefSeq Size:	6323 bp
RefSeq ORF:	2817 bp
Locus ID:	208650
UniProt ID:	<u>Q3TTA7</u>
Cytogenetics:	16 B5
Gene Summary:	E3 ubiquitin-protein ligase which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and transfers it to substrates, generally promoting their degradation by the proteasome. Negatively regulates TCR (T-cell receptor), BCR (B-cell receptor) and FCER1 (high affinity immunoglobulin epsilon receptor) signal transduction pathways. In naive T-cells, inhibits VAV1 activation upon TCR engagement and imposes a requirement for CD28 costimulation for proliferation and IL-2 production. Also acts by promoting PIK3R1/p85 ubiquitination, which impairs its recruitment to the TCR and subsequent activation. In activated T-cells, inhibits PLCG1 activation and calcium mobilization upon restimulation and promotes energy. In B-cells, acts by ubiquitinating SYK and promoting its proteasomal degradation. Slightly promotes SRC ubiquitination. May be involved in EGFR ubiquitination and internalization. May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3. In association with CBL, required for proper feedback inhibition of ciliary platelet-derived growth factor receptor-alpha (PDGFRA) signaling pathway via ubiquitination and internalization of PDGFRA (PubMed:29237719).[UniProtKB/Swiss-Prot Function]