

Product datasheet for **MC222572**

Cbl (NM_007619) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbl (NM_007619) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cbl
Synonyms:	4732447J05Rik; c-Cbl; Cbl-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222572 representing NM_007619
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGCAACGTGAAGAAGAGCTCGGGCGCCGGCGGGCGGGCTCTGGGGCTCGGGAGCGGGCGGCC
 TGATCGGGCTCATGAAGGACGCCTTCCAGCCGCACCACCACCACCACCCTCAGCCCGCACCTCCCTG
 CACGGTGGACAAGAAGATGGTGGAGAAGTCTGGAAGCTCATGGACAAGTGGTGCGGTTGTGTCAAAAC
 CCAAAGCTGGCGCTCAAGAACAGCCCGCTTATATCTTAGACCTGCTGCCTGACACCTACCAGCACCTCC
 GCACTGTCTTGTCAAGATATGAGGGGAAGATGGAGACGCTTGGAGAAAATGAGTATTTACAGGTGTTTAT
 GGAAAATTTGATGAAGAAAATAAGCAGACTATCAGCCTCTTCAAGGAGGGAAAAGAAAGGATGTATGAG
 GAGAATCCCAGCCTAGGCGAAACCTGACCAAATATCCCTGATCTTCAGCCACATGCTGGCAGAAGTGA
 AAGGCATCTTCCGAGCGGACTTCCAAGGAGACACTTCCGGATTACTAAAGCTGATGCTGCCGAATT
 TTGGAGAAAAGCTTTTGGTGAAGAACGATAGTCCCGTGAAGAGCTTTCGACAGGCCCTGCATGAAGTG
 CATCCCATCAGTTCTGGGCTGGAGGCCATGGCTCTGAAGTCCACTATTGATCTGACCTGCAATGATTATA
 TTTCTGTCTTTGAATTTGATATTTTACACGGCTGTTTACGCCCTGGTCCTCTTTGCTCAGAAAATTGGAA
 CAGCCTTGCTGTAACCTACCCTGGTTACATGGCTTTCCTGACATACGATGAAGTGAAGCGCGCCTGCAG
 AAGTTCATCCACAACCTGGCAGTTACATCTTTCGGCTGAGCTGTACTCGTTTGGGTGAGTGGGCTATTG
 GGTATGTTACTGCCGATGGGAACATTCTGCAGACAATCCACACAATAAACCGCTCTTCCAAGCACTGAT
 TGATGGCTTCAGGGAAGGCTTCTATTTGTTTCTGATGGACGAAATCAAATCCTGACCTGACAGGTTTA
 TGTGAACCAACTCCTCAAGATCATATCAAAGTAAACCCAGGAACAATATGAATTACTGTGAAATGGGCT
 CCACATTTCAACTGTGAAGATATGTGCTGAGAATGATAAGGATGTGAAGATTGAGCCCTGTGGCCACT
 CATGTGCACATCCTGCCTCACGTGCGTGGCAGGAATCAGAAGGTCAGGGCTGTCTTTTGGCCGATGTGAA
 ATCAAAGTACTGAGCCATCGTGGTGGATCCGTTTGACCCAGAGGCAGTGGCAGCCTATTAAGGCAAG
 GAGCAGAAGGTGCTCCTTCCCCAAATTACGACGATGATGATGATGAACGAGCTGATGATTCTCTTTCAT
 GATGAAGGAGTTGGCAGGTGCCAAGGTGGAAGGCCTTCTCTCCATTCTCCATGGCCCCACAAGCTTCC
 CTTCTCCAGTGCCACCAAGACTTGACCTTCTACAGCAGCGAGCACCTGTTCTGCCAGCACTTCAGTTC
 TGGGGACTGCTTCCAAGGCTGCTTCTGGCTCCCTTATAAAGACAACCATTGCCAATACCTCCCACACT
 TCGAGATCTTCCACCACCACCCCTCCAGACCGGCTTACTCTGTTGGAGCAGAAAACAAGCCCTCAGAGA
 CGCCCTCTGCCTGTACACCAGGCGATTGTCCATCTAGAGACAACTGCCCCCTGTCCCTCTAGCCGCC
 CAGGGGACTCGTGGTTGTCTCGGCAATCCCTAAAGTACCAAGTACTCTCCAAACCTGGTGATCCTTG
 GAATGGGAGAGAATTGACCAATCGGCACTCGCTTCCATTTCTATTGCCCTCACAATGGAACCCAGAGCA
 GATGTCCCTAGGCTTGGAAAGCACATTTAGTCTGGATACCTCTATGACTATGAATAGCAGCCAGTAGCAG
 GTCCAGAGAGTGAGCACCCAAAGATCAAGCCTTCTCTGCTGCCAACGCCATTTACTCTCTGGCTGCCAG
 GCCTCTTCTATGCCAAAAGTCCACCTGGGGAGCAAGGGGAAAGTGAAGAGGACACAGAATATATGACT
 CCCACATCTAGGCCTGTAGGGGTTGAGAAGCCAGAGCCCAACCGCCGTTAGAGGCAACCCAGAGTTTAC
 GAGCATGTGACTGTGACCAGCAGATCGACAGCTGTACCTATGAAGCGATGTATAACATCCAGTCCAAGC
 ACTGTCTGTAGCAGAAAACAGCGCCTCTGGGGAAGGGAATCTGGCCACAGCTCACACGAGTACTGGCCCT
 GAGGAATCCGAAAACGAGGATGATGGCTATGATGTGCCTAAGCCACCCGTGCCAGCTGTACTGGCCCGCC
 GGACCCTGTCTGACATCTCCAATGCCAGCTCCTCCTTTGGCTGGTTGTCTTTGGATGGTACCCTACAAA
 CTTCAATGAGGGTTCCCAAGTCTCTGAGCGGCCCCCAACCATTCCCTCGGAGAATCAACTCAGAACGA
 AAAGCCAGTAGCTATCAACAAGGCGGAGGTGCCACTGCTAACCTGTGGCCACAGCACCCCTACCAGCAGC
 TCTCAAGTGAATTGAACGCCTCATGAGTCAGGGCTATTCTACCAGGACATTGAAAAGCTTTGGTTCAT
 TGCCCAACAACATTGAGATGGCTAAAAACATCCTCCGGGAATTTGTTTCTATTCTCTCTCTGCTCAC
 GTAGCCACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_007619
Insert Size:	2742 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:	NM_007619.2 , NP_031645.2
RefSeq Size:	5083 bp
RefSeq ORF:	2742 bp
Locus ID:	12402
UniProt ID:	P22682
Cytogenetics:	9 24.72 cM
Gene Summary:	Adapter protein that functions as a negative regulator of many signaling pathways that are triggered by activation of cell surface receptors. 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. Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, EGFR, CSF1R, EPHA8 and KDR and terminates signaling. Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation. Participates in signal transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis. Essential for osteoclastic bone resorption. The 'Tyr-737' phosphorylated form induces the activation and recruitment of phosphatidylinositol 3-kinase to the cell membrane in a signaling pathway that is critical for osteoclast function. May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3 (PubMed:10393178, PubMed:12649282, PubMed:19265199, PubMed:20100865, PubMed:9653117). In association with CBLB, 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]