

Product datasheet for **MR227649**

Cblb (NM_001033238) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR227649 representing NM_001033238
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAATTCATGAATGGCAGAAATCCTGGTGGTCGAGGAGGAAACCCCGCAAAGGTCGCATTTTGG
 GGATTATTGATGCTATTCAGGATGCAGTCGGACCCCAAAGCAAGCTGCAGCTGACCGCAGGACTGTGGA
 GAAGACTTGAAAACCTCATGGACAAAGTGGTAAGACTGTGCCAAAAATCCCAAGCTTCAGTTGAAAAACAGC
 CCACCGTATATACTTGATATTTTACCTGATACGTATCAGCACTTGAGACTTATATTGAGTAAATATGATG
 ACAACCAGAAGCTGGCTCAACTGAGCGAGAATGAGTACTTTAAAACTACATCGATAGTCTCATGAAGAA
 GTCGAAGCGAGCGATCCGGCTCTTTAAAGAAGGCAAGGAAAGGATGTACGAAGAGCAGTCGCAGGACAGA
 CGGAATCTCACAAGCTGTCCCTTATCTTCAGTCACATGCTGGCAGAAATCAAGGCGATCTTTCCCAATG
 GCCAGTCCAGGGAGATAACTTCCGGATACCAAAGCAGATGCTGCTGAGTTCGGAGGAAGTTTTTTGG
 AGACAAAATATTGTACCATGAAAAGTCTTCAGACAGTGCCTGCATGAGGTCCATCAGATCAGCTCTGGC
 CTGGAAGCAATGGCTCTGAAGTCAACCATTGATTTAACTTGAATGATTACATCTCAGTGTTTGAATTTG
 ATATTTTTACCAGGCTATTTACGCCCTGGGGCTCTATTTACGGAATTGGAACCTCTTGGCTGTGACTCA
 CCCGGGATACATGGCATTCTCACGTATGATGAAGTAAAGCTCGGCTACAGAAATACAGCACCAGCCT
 GGAAGTTACATTTCCGGTTAAGCTGCACTCGGCTGGGACAAATGGGCCATTGGCTATGTGACTGGGGACG
 GCAATATCCTACAGACCATACCTCATAACAAGCCCCTGTTCCAAGCCCTGATTGATGGTAGCAGGGAAAGG
 CTTTTATCTTTATCCTGATGGCGGAGCTATAACCCTGATTTAACCGATTATGTGAACCTACACCTCAC
 GATCATATAAAAGTTACACAGGAGCAGTATGAAGTGTATTGTGAAATGGGCTCCACTTTTCAGCTCTGCA
 AGATCTGTGCAGAGAATGACAAAGATGTCAAGATTGAGCCTTGGGGCATCTGATGTGCACCTTCGTGCT
 TACCGCGTGGCAGGAGTCTGATGGCCAAGCTGCCCTTCTGTGCTGTGAGATAAAAGGAACGGAGCCC
 ATCATTGTGGACCCCTTCGACCCAGAGATGAAGGCTCCAGGTGCTGCAGCATATTGACCCTTTCAGCA
 TCCCCATGCTTGACTTGACGATGACGATGATCGAGAGGAGTCTTTGATGATGAACAGGCTGGCAGTGT
 TCGAAAGTGCACGGACAGGCAGAACTCACAGTCACATCGCCAGGCTCCTCACCCCTTGGCCAGAGAAGA
 AAGCCTCAGCCAGACCCTCTCCAGATCCCCACCTCAGCCTGCCACCAGTGCCTCCCCGCCTAGATCTCA
 TTCAGAAAGGCATCGTGCCTCTCCGTGTGGCAGCCCCACAGGCTCGCCAAAGTCTTCTCCATGCATGGT
 TAGAAAACAAGACAACCACTCCCGGCACCCCTCCTCCCTTGAGAGATCCACCTCCTCCACCAGAGAGG
 CCTCCCCCATCCACCTGACAATAGACTGAGCAGACACTTCCACCATGGAGAGAGTGTGCCTTCCCGGG
 ACCAGCCCATGCCCTCGAAGCCTGGTGCCTCGGGATGCCTTCGGGACTAACCGGTGATGGGATGTGCG
 CATCCTCGGGGATGGCTCTCAAAGCCTGGCGTCAACGCAAACCTCCAGCTTAAATGGGAGGCACAGTAGA
 ATGGGCTCCGAGCAGGTTCTTATGAGGAAACACAGACGCCATGATTTGCCTTCAGAAGGAGCCAAGGCTC
 TTTCCAATGGCCACCTTGCCACTGAAGAATACGATGTCCCTCCTCGGCTTTCCCTCCGCCTCCAGTCAC
 CACCTTCTCCCAAGCATAAAGTGTACTGGTCCATTAGCAAATTTGTCTCTCAGAGAAAATAGAGACACG
 GTAGAAGATGATGACGATGAATACAAGATTCCTTCATCCCATCCTGTGTCCTGAATTCACAACCATCTC
 ATTGCCATAATGTCAAAGCTCCTGTTCCGGTCTTGTGATAATGGTCAATTGTATATTGAATGGAACCTATGG
 TGCGCCTTCAGAGATGAAGAAATCGAACATCCCAGATTTAGGCATCTATTTGAAGGGTGAAGAGCCTTT
 GATGCTCTCCCTCCATCCCTCCCTCCTCCCCACCTCCTGCAAGACACAGTCTCATCGAACATTCAAAAC
 CTCCAGGCTCCAGTAGCCGGCCTTCTCAGGGCAGGACCTTTTCTTCTTCTTCCATCAGATCCCTTTTTTGA
 CCCAACAAAGTGGCCAAGTTCCATTGCTCCTGCCAGGAGAGCAGCAGGAGACAGCGGCAAAGCCAACAGA
 GCCTCGCAGGACTATGACCAGCTCCCTTCTTCCGATGGTTCGCAAGCACCAGCTAGACCCCCAAAAC
 CACGACCCGAAGGACTGCACCAGAAATTCATCACAGAAAGCCCCATGGGCCGAAGCGGCGTTGGAAAA
 TGTCGATGCAAAAATTGCAAACTCATGGGAGAGGGGTATGCCTTTGAAGAGGTGAAGAGAGCCTTAGAG
 ATTGCCAGAATAACGTGGAAGTGGCCAGGAGCATACTTCGAGAATTTGCCTTCCCCCTCCTGTCTCC
 CACGTCTGAATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227649 representing NM_001033238
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MANSMNGRNPGGRRGNPRKGRILGIIDAIQDAVGPPKQAAADRRTVEKTWKLMDKVVRLCQNPKLQLKNS
 PPYILDILPDTYQHLRLILSKYDDNQKLAQLSENEYFKIYIDSLMKKSKRAIRLFKEGKERMYYEQSODR
 RNLTKLSLIFSHMLAEIKAIIFPNGQFQGNFRITKADAAEFWRKFFGDKTIVPWKVFROCLHEVHQISSG
 LEAMALKSTIDLTCNDYISVFEFDIFTRLFQPWGSI LRNWNFLAVTHPGYMAFLTYDEVKARLQKYSTKP
 GSYIFRLSCTRLGQWAIGYVTGDGNILQTI PHNKPLFQALIDGSRREGFYLYPDGRSYNPDLTGLCEPTH
 DHKVTQEYEL YCEMGSTFQLCKICAENDKDKVIEPCGHLMCT SCLTAWQESDGQGPCFRCCEIKGTEP
 IIVDPFDRDEGSRCCSIIDPF SIPMLDLDDDDREESLMNRLASVRKCTDRQNSPVTSPGSSPLAQR
 KPQPDPLQI PHLSLPPVPPRLDLIQKGI VRSPCGSPTGSPKSSPCMV RKQDKPLAPPPPLRDP PPPPER
 PPIIPDNRLSRHFHGESVPSRDQPMPL EAWCPRDAFGTNQVMGCRILGDGSPKPGVTANSSLNGRHSR
 MGSEQVLMRKHRRHDL PSEGAKVFSNGHLATEEYDVPPRLSPPPPVTLLPSIKCTGPLANCLSEKTRDT
 VEDDDDEYKIPSSHPVSLNSQPSHCHNVKAPVRSCDNHCILNGTHGAPSEMKKSNI PDLGIYLGEDAF
 DALPPSLPPPPPARHSLIEHSPKPPGSSSRPSSGQDLFLLPSDPFFDPTSGQVPLPPARRAAGDSGKANR
 ASQDYDQLPSSSDGSQAPARPPKPRRRTAPEIHRKPHGPEAALENVDAKIAKLMGEGYAFEEVKRALE
 IAQNNVEVARSILREFAFP PPVSPRLNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1656_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



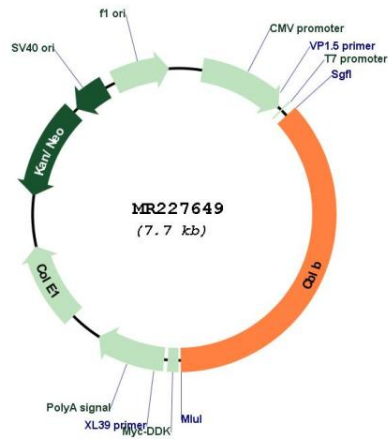
* The last codon before the Stop codon of the ORF

ACCN: NM_001033238

ORF Size: 2814 bp

OTI Disclaimer:	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).
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_001033238.1 , NP_001028410.1
RefSeq Size:	6323 bp
RefSeq ORF:	2817 bp
Locus ID:	208650
UniProt ID:	Q3TTA7
Cytogenetics:	16 B5
MW:	105 kDa
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]

Product images:



Circular map for MR227649