

Product datasheet for **RC403748**

CBLB (NM_170662) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	CBLB (NM_170662) Human Mutant ORF Clone
Mutation Description:	F328L
Affected Codon#:	328
Affected NT#:	982
Nucleotide Mutation:	CBLB Mutant (F328L), Myc-DDK-tagged ORF clone of Homo sapiens Cas-Br-M (murine) ecotropic retroviral transforming sequence b (CBLB) as transfection-ready DNA
Effect:	Diabetes, type 1
Symbol:	CBLB
Synonyms:	Cbl-b; Nbla00127; RNF56
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_170662
ORF Size:	2946 bp
Restriction Sites:	SgfI-RsrII
ORF Nucleotide Sequence:	>RC403748 representing NM_170662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCAAACCTCAATGAATGGCAGAAACCCTGGTGGTCGAGGAGGAAATCCCCGAAAAGGTCGAATTTTGG
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 GTCAAAACGGGCAATAAGACTCTTTAAGAAGGCAAGGAGAGAATGTATGAAGAACAGTCACAGGACAGA
 CGAAATCTCACAAACTGTCCCTTATCTTCAGTCACATGCTGGCAGAAATCAAAGCAATCTTTCCAATG


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GTCAATTCAGGGAGATAACTTTTCGTATCACAAAAGCAGATGCTGCTGAATTCTGGAGAAAGTTTTTTGG
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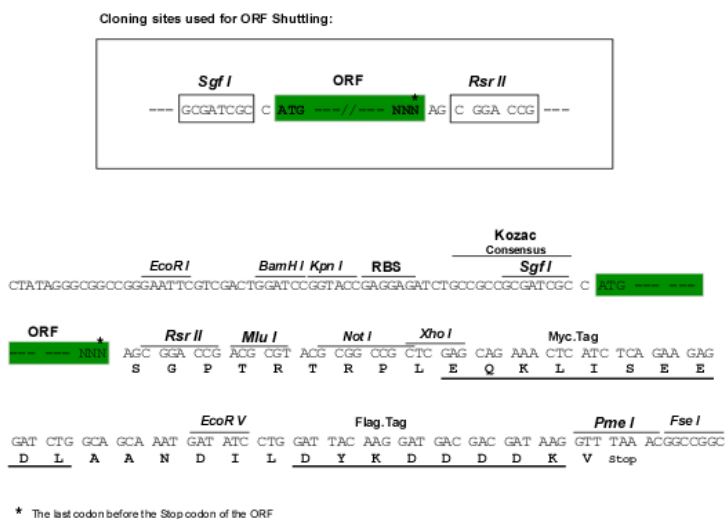
Protein Sequence: >RC403748 representing NM_170662
Red=Cloning site Green=Tags(s)

MANSMNGRNPGGRGGNPKGRILGIDAIQDAVGPPKQAAADRRTVEKTWKLMDKVVRLCQNPKLQLKNS
PPYILDILPDTYQHRLILSKYDDNQKLAQLSENEYFKIYIDSLMKKSKRAIRLFKEGKERMYEEQSQR
RNLTKLSLIFSHMLAEIKAIFPNGQFQGDNFRITKADAAEFWRKFFGDKTIVPWKVFQRCLHEVHQISSG
LEAMALKSTIDLTCNDYISVFEFDIFTRLFQPWGSILRNWNFLAVTHPGYMAFLTIDEVKARLQKYSTKP
GSYIFRLSCTRLGQWAIGVYTDGNGILQTI PHNKPLFQALIDGSREGLYLYPDGRSYNPDLTGLCEPTPH
DHIKVTQEYELYCEMGSTFQLCKICAENDKDVKIEPCGHLMCTSCLTAWQESDGQGCPFCRCEIKGTEP
IIVDPFDPDRDESGRCCSIIDPFGMPMLDLDDDDREESLMMNRLANVRKCTDRQNSPVTSPGSSPLAQR
KPQDPDLQIPLSLPPVPPRLDLIQKGIVRSPGSGPTGSPKSSPCMVQRQDKPLPAPPPPLRDP PPPPPE
RPPPIPPDNRLSRHIIHVESVPSRDPPMPLEAWCPRDVFGTNQLVGCRLLGEGSPKPGITASSNVNGRHS
RVGSDPVLMRKHRRHDLLEGAKVFSNGHLGSEEDVPRLSPPPPVTLLPSIKCTGPLANSLSEKTRD
PVEEDDDEYKIPSSHPVSLNSQPSHCHNVKPPVRSCDNGHCMLNGTHGPSSEKKSNIPLDSIYLGKDVFD
SADPVPPLPARPPTRDNPKHGSSLNRTPSDYDLLIPPLGEDAFDALPPSLPPPPPPARHSLIEHSKPPG
SSSRPSSGQDLFLLPSPDFVLASGQVPLPARRLPGENVKTNRTSQDYDQLPSCSDGSQAPARPPKPRP
RRTAPEIHHRKPHGPEAALENDAKIAKLMGEGYAFEEVKRALEIAQNNVEVARSILREFAPPPVPSPRL
NI

SGPTRRRL**E**QKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



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>
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).
RefSeq:	NP_733762
RefSeq Size:	2946 bp
RefSeq ORF:	2949 bp
Locus ID:	868
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
MW:	108 kDa
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>