

Product datasheet for **RC400483**

CBL (NM_005188) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	CBL (NM_005188) Human Mutant ORF Clone
Mutation Description:	W408C
Affected Codon#:	408
Affected NT#:	c.1224
Nucleotide Mutation:	CBL Mutant (W408C), Myc-DDK-tagged ORF clone of Homo sapiens Cas-Br-M (murine) ecotropic retroviral transforming sequence (CBL) as transfection-ready DNA
Effect:	Missense
Symbol:	CBL
Synonyms:	C-CBL; CBL2; FRA11B; NSLL; RNF55
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_005188
ORF Size:	2718 bp
Restriction Sites:	Sgfi-MluI



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ORF Nucleotide Sequence:

>RC400483 representing NM_005188
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGGATCGCC**

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ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC400483 representing NM_005188
 Red=Cloning site Green=Tags(s)

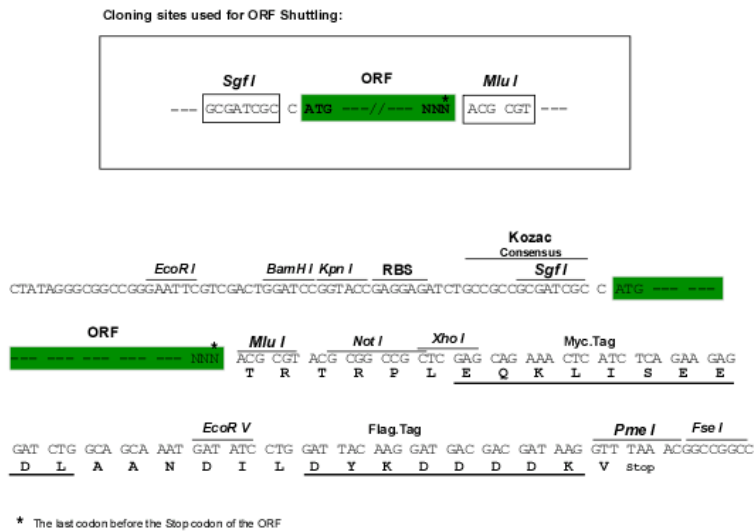
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 EVHPISSGLEAMALKSTIDLTCNDYISVFEDIFTRLFQPWSSLLRNWNSLAVTHPGYMAFLTYDEVKAR
 LQKFIHKPGSYIFRLSCTRLGQWAIGYVTADGNILQTI PHNKPLFQALIDGFREGFYLPDGRNQNPDLT
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_005179
RefSeq Size:	11241 bp
RefSeq ORF:	2721 bp
Locus ID:	867
Cytogenetics:	11q23.3
Domains:	UBA, RING, Cbl_N
Protein Families:	Druggable Genome, Transcription Factors
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:	99 kDa
Gene Summary:	<p>This gene is a proto-oncogene that encodes a RING finger E3 ubiquitin ligase. The encoded protein is one of the enzymes required for targeting substrates for degradation by the proteasome. This protein mediates the transfer of ubiquitin from ubiquitin conjugating enzymes (E2) to specific substrates. This protein also contains an N-terminal phosphotyrosine binding domain that allows it to interact with numerous tyrosine-phosphorylated substrates and target them for proteasome degradation. As such it functions as a negative regulator of many signal transduction pathways. This gene has been found to be mutated or translocated in many cancers including acute myeloid leukaemia, and expansion of CGG repeats in the 5' UTR has been associated with Jacobsen syndrome. Mutations in this gene are also the cause of Noonan syndrome-like disorder. [provided by RefSeq, Jul 2016]</p>