

Product datasheet for RC214069L4

CBL (NM_005188) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids						
Product Name:	CBL (NM_005188) Human Tagged Lenti ORF Clone						
Tag:	mGFP						
Symbol:	CBL						
Synonyms:	C-CBL; CBL2; FRA11B; NSLL; RNF55						
Mammalian Cell Selection:	Puromycin						
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)						
E. coli Selection:	Chloramphenicol (34 ug/mL)						
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214069).						
Restriction Sites:	Sgfl-Mlul						
Cloning Scheme:							
	Cloning sites used for ORF Shuttling:						
	Sgf I ORF Miu I GCG ATC GC ATG // NNN ACG CGT						

EcoR I		Bam	ні		RE	15			Koza Consei		_		0	RF
CTATAGGGCGGCCGGGAATTCGTCG	GACT	GGAT	ccGG	ТАСС	GAG	GAGA	тсто	ccGC			C C A	TG	 	
	Mlu I			Not I		xł	Xho I		mGFP Ta					
NNŇ	ACG T	CGT R	ACG T	CGG R	CCG P	стс L	GAG E	ATG M	AGC S	GGG G	GGC G		 -:-	
GGA CTC AGA GTT TGG GLRV * The last codon before the Stop co														

ACCN: ORF Size: NM_005188 2718 bp



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

GRIGENE CBL (NM_005188) Human Tagged Lenti ORF Clone – RC214069L4

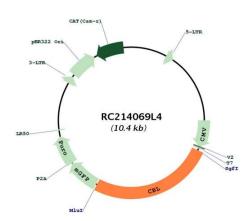
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery. 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. <u>More info</u>			
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 005188.2</u>			
RefSeq Size:	11242 bp			
RefSeq ORF:	2721 bp			
Locus ID:	867			
UniProt ID:	<u>P22681</u>			
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:	99.5 kDa			

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

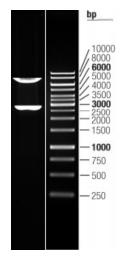
Scale CBL (NM_005188) Human Tagged Lenti ORF Clone – RC214069L4

Gene Summary: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]

Product images:



Circular map for RC214069L4



Double digestion of RC214069L4 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US