

Product datasheet for **RC217507**

Cubilin (CUBN) (NM_001081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cubilin (CUBN) (NM_001081) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cubilin
Synonyms:	gp280; IFCR; IGS; IGS1; MGA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>NM_001081 ORF sequence, RC217507 may differ due to SNPs. Blue=ORF Red=Cloning site Green=Tag(s)

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Protein Sequence:

>Peptide sequence encoded by RC217507
 Blue=ORF Red=Cloning site Green=Tag(s)

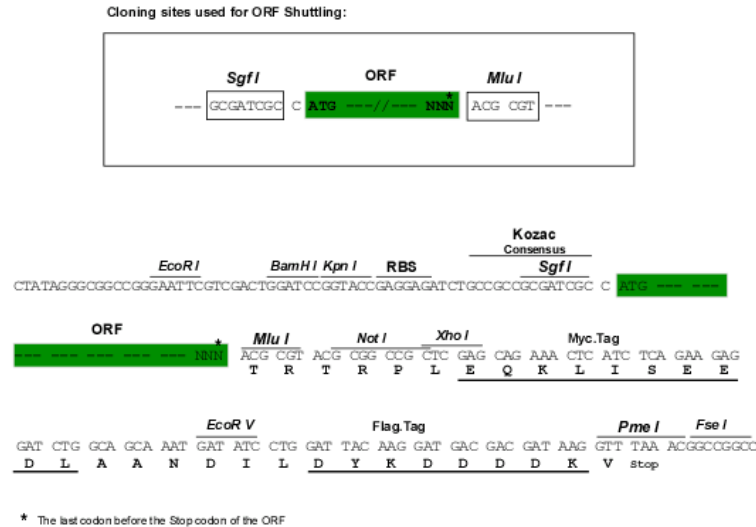
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 G Q Y C G S N P R T I Q S G S N Q L V V T F N S D H S L Q G G G F Y A T W N T Q T L G C G G I F H S D N G T I R S P H W P Q N F P E N S
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 T A V F Q S Q E A P A Q G F S A S F V S R C G S N F T G P S G Y I I S P N Y P K Q Y D N N M N C T Y V I E A N P L S V L L T F V S F H L
 E A R S A V T G S C V N D G V H I I R G Y S V M S T P F A T V C G D E M P A P L T I A G P V L L N F Y S N E Q I T D F G F K F S Y R I I S
 C G G V F N F S S G I I T S P A Y S A D Y P N D M H C L Y T I T V S D D K V I E L K F S D F D V P S T S C S H D Y L A I Y D G A N T S
 D P L L G K F C G S K R P P N V K S S N S M L L V F K T D S F Q T A K G W K M S F R Q T L G P Q Q C G G Y L T G S N N T F A S P D S D
 S N G M Y D K N L N C V W I I I A P V N K V I H L T F N T F A L E A A S T R Q R C L Y D Y V K L Y D G D S E N A N L A G T F C G S T V P A
 P F I S S G N F L T V Q F I S D L T L E R E G F N A T Y T I M D M P C G G T Y N A T W T P Q N I S S P N S S D P D V P F S I C T W I D S
 P P H Q Q V K I T V W A L Q L T S Q D C T Q N Y L Q L Q D S P Q G H G N S R F Q F C G R N A S A V P V F Y S S M S T A M V I F K S G V V N
 R N S R M S F T Y Q I A D C N R D Y H K A F G N L R S P G W P D N Y D N D K D C T V T L T A P Q N H T I S L F F H S L G I E N S V E C R N
 D F L E V R N G S N S N S P L L G K Y C G T L L P N P V F S Q N N E L Y L R F K S D S V T S D R G Y E I I W T S S P S G C G G T L Y G D R
 G S F T S P G Y P G T Y P N N T Y C E W L V A P A G R L V T I N F Y F I S I D D P G D C V Q N Y L T L Y D G P N A S S P S S G P Y C G G
 D T S I A P F V A S S N Q V F I K F H A D Y A R R P S A F R L T W D S
 T R T R P L E Q K L I S E E D L A A N D I L D Y K D D D D K V

Chromatograms: https://cdn.origene.com/chromatograms/mk8015_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081

ORF Size: 10869 bp

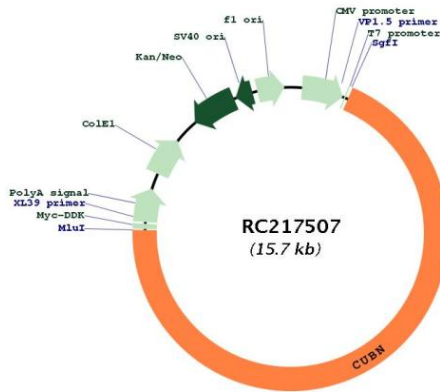
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com 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. [More info](#)

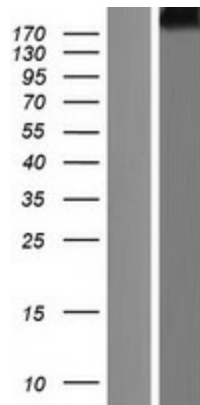
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001081.4</u>
RefSeq Size:	11927 bp
RefSeq ORF:	10872 bp
Locus ID:	8029
UniProt ID:	<u>O60494</u>
Cytogenetics:	10p13
Domains:	CUB, EGF_CA, EGF, EGF
Protein Families:	Druggable Genome
MW:	398.7 kDa
Gene Summary:	Cubilin (CUBN) acts as a receptor for intrinsic factor-vitamin B12 complexes. The role of receptor is supported by the presence of 27 CUB domains. Cubulin is located within the epithelium of intestine and kidney. Mutations in CUBN may play a role in autosomal recessive megaloblastic anemia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217507



Western blot validation of overexpression lysate (Cat# [LY421147]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217507 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).