

## Product datasheet for RC230087

### CRBN (NM\_001173482) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRBN (NM_001173482) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRBN
Synonyms:	MRT2; MRT2A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230087 representing NM_001173482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCGCGGAAGGAGATCAGCAGGACGCTGCGCACAAATGGGCAACCACCTGCCGCTCCTGCCTGAGA  
GTGAGGAAGAAGATGAAATGGAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAACCAACATCATAAA  
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AGACATTAACCTCTTCAGCTTTTTCAACCCTCAAGAAGTCAGTATGGTGCGGAATTTAATTCAGAAAGATAG  
AACCTTTGCTGTTCTTGCATACAGCAATGTACAGGAAAGGGAAGCACAGTTTGAACAACAGCAGAGATA  
TATGCCTATCGAGAAGAACAGGATTTTGGAAATGAGATAGTAAAAGTAAAAGCAATTTGGAAGACAAAGGT  
TCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAAATTTCCCGAATG  
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CCTGTCTCAAGAGAAGACCAATGTTCATATAAAATGGTGGCAGAAATACCAGAGGAGAAAGTTTCATTGTG  
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GAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCTTCTTCAAATCCAATAGATTTTTCT  
TACAGAGTAGCTGCTTGTCTTCTATTGATGATGTATTGAGAATTCAGCTCCTTAAAATGGCAGTGCTA  
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AACAGAAATAACAACCAAAAATGAAATATTCAGTTTATCCTTATGTGGGCGGATGGCAGCTTATGTGAAT  
CCTCATGGATATGTGCATGAGACACTTACTGTGTATAAGGCTTGAACCTGAATCTGATAGGCCGCTT  
CTACAGAACACAGCTGGTTTCTGGGTATGCCTGGACTGTTGCCAGTGAAGATCTGTGCAAGCCATAT  
TGGATGGAAGTTTACGGCCACCAAAAAGACATGTCACCTCAAAAATTTGGGGCTTAAACGCGATCTGCT  
CTGTTGCCACGATCCCAGACACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC230087 representing NM\_001173482  
 Red=Cloning site Green=Tags(s)

MAGEGDQDAAHNMGNHLPLPESEEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGDMEEFHGRT  
 LHDDDDSCQVIPVLPQVMILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFVLAAYSNVQEREAQFGTTAEI  
 YAYREEQDFGIEIVKKAIGRQRFKVLRLTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQIFPSK  
 PVSREDQCSYKWWQKYQRRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWENLKDSDLPSNPIDFS  
 YRVAACLPIDDVLRILQLLKGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAAYVN  
 PHGYVHETLTVYKACNLNLIGRPSTHSWFGYAWTVAQCKICASHIGWKFTATKKDMSPQKFWGLTRSA  
 LLPTIPDTEDEISPKVILCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

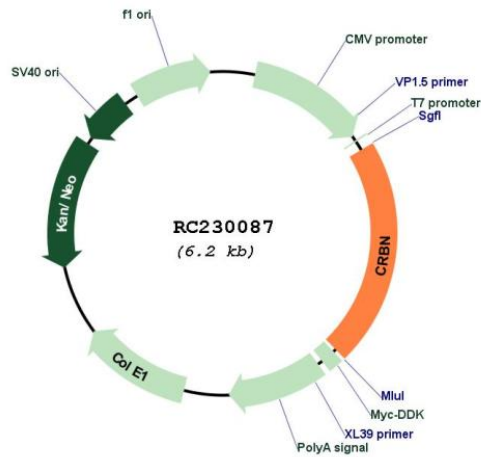
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001173482

<b>ORF Size:</b>	1323 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001173482.1</a> , <a href="#">NP_001166953.1</a>
<b>RefSeq ORF:</b>	1326 bp
<b>Locus ID:</b>	51185
<b>UniProt ID:</b>	<a href="#">Q96SW2</a>
<b>Cytogenetics:</b>	3p26.2
<b>Protein Families:</b>	Protease
<b>MW:</b>	50.9 kDa
<b>Gene Summary:</b>	This gene encodes a protein related to the Lon protease protein family. In rodents and other mammals this gene product is found in the cytoplasm localized with a calcium channel membrane protein, and is thought to play a role in brain development. Mutations in this gene are associated with autosomal recessive nonsyndromic cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]