

## Product datasheet for **RR203397**

### Crbn (NM\_001015003) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Crbn (NM\_001015003) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Crbn  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203397 representing NM\_001015003  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGCCGGCGAGGGAGATCACCAGGACGCTGCGCACAAACATGGGAACCACCTGCCGCTTCTGCCTGCTG  
ACAGTGAAGATGAAGATGATGAAATTGAAATGGAAGTTGAAGACCAGGACAGTAAAGAAGCCAGAAAACC  
AAATATCATAAACTTTGATACCAGTCTGCCAACCTCACATACATACCTGGGAGCTGATATGGAAGATTT  
CACGGCAGGACTTTGCACGACGACGACAGCTGTCAGGTGATTCCAGTTCTTCTGAGGTGATGATGATCT  
TGATTCCTGGGCAGACGTTACCACTGCAGCTTTCTCACCCGAAGAAGTCAGTATGGTTCGGAATTTAAT  
CCAGAAGGACAGAACCTTTGCAGTTCTTGATACAGTAATGTGCAAGAAAGGGAAGCACAGTTTGGAACT  
ACAGCAGAGATCTATGCGTATCGAGAGGAGCAGGAGTTTGGAAATGAAAGTAAAGTAAAGCAATCG  
GACGGCAGAGGTTCAAGTCTTGAACCTCGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTCAAAT  
TTTGCCAGAGTGTGTGTGCCGTCACCATGTCTGCAGTTCAGTTAGAATCACTCAATAAGTGCCAGATA  
TTTCTTCAAACCTATCTCTTGGGAAGACCAGTATTCATGTAATGGTGGCAGAAATACCAGAAGAGGA  
AGTTTCACTGTGCAAATCTGACATCATGGCCTCGCTGGCTGTATTCAATTATGATGCTGAAACATTAAT  
GGATAGAATTAAGAAACAGCTACGTGAATGGGATGAAAATCTCAAAGAGGACTCTCTTCCGCAAAACCA  
ATAGACTTTTCTTACAGAGTAGCTGTCTTCTTCTTATTGATGATGATTAAGAATTCAGCTCCTTAAAA  
TTGGCAGTGCTATTCAACGGCTTCGCTGTGAGTTAGACATCATGAACAAATGACTTCCCTTTGCTGTAA  
ACAATGTCAAGAAACAGAAATAACAACAAAGAATGAAATATTTAGCTTATCCTTATGTGGTCCAATGGCA  
GCATATGTGAATCCCATGGATATGTACATGAGACACTGACTGTGTATAAAGCTTCCAACCTGAATCTGA  
TAGGCCGGCCTTCTACAGTGCACAGCTGGTTTCCCGGGTATGCATGGACCATTGCCAGTGAAGATTTG  
TGCAAGCCACATTGGATGGAATTTACAGCCACCAAAAAAGACATGTCACCTCAAAAATTTGGGGCTTA  
ACTCGCTGCTCTGTTACCTACAATTCAGAGACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTT  
GCTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203397 representing NM\_001015003  
 Red=Cloning site Green=Tags(s)

MAGEGDHQDAAHNMGNHLPLLPADSEDEDEIEMEVEDQDSKEARKPNIINFDTSLPTSHTYLADMEEF  
 HGRTLHDDSDSCQVIPVLPVMMILIPGQTLPLQLSHPQEVSMVRNLIQKDRTFVAVLAYSINVQEREAQFGT  
 TAEIYAYREEQEFGIEVVKVKAIGRQRFKVLRLTQSDGIQQAQVQILPECVLPSTMSAVQLESLNKCQI  
 FPSKPISWEDQYSCKWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWDENLKEDSLPANP  
 IDFSYRVAACLPIDDVLRIQLLKIGSAIQRLRCELDIMNKCTSLCKQCQETEITTKNEIFSLSLCGPMA  
 AAYNPHGYVHETLTVYKASNLNLIGRPSTVHSWFPGYAWTIAQCKICASHIGWKFTATKDMSPQKFWGL  
 TRSALLPTIPETEDEISPKVILCL

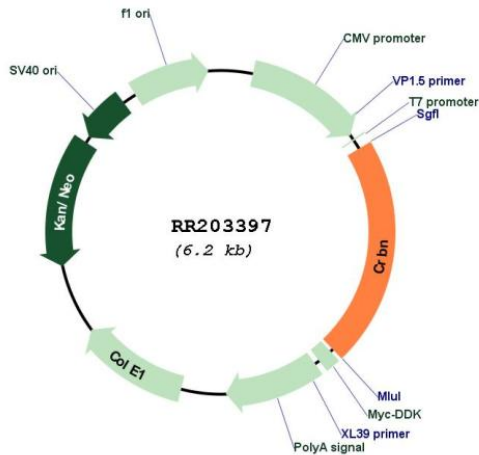
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001015003
<b>ORF Size:</b>	1335 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_001015003.2</a> , <a href="#">NP_001015003.1</a>
<b>RefSeq Size:</b>	2257 bp
<b>RefSeq ORF:</b>	1338 bp
<b>Locus ID:</b>	297498
<b>UniProt ID:</b>	<a href="#">Q56AP7</a>
<b>Cytogenetics:</b>	4q41
<b>MW:</b>	50.9 kDa
<b>Gene Summary:</b>	Substrate recognition component of a DCX (DDB1-CUL4-X-box) E3 protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Normal degradation of key regulatory proteins is required for normal limb outgrowth and expression of the fibroblast growth factor FGF8 (By similarity). May play a role in memory and learning by regulating the assembly and neuronal surface expression of large-conductance calcium-activated potassium channels in brain regions involved in memory and learning via its interaction with KCNT1.[UniProtKB/Swiss-Prot Function]