

## Product datasheet for **MR206875**

### **Crbn (BC086488) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Crbn (BC086488) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crbn
Synonyms:	2610203G15Rik; 2900045O07Rik; AF229032; AW108261; piL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206875 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGAAACCACCTGCCCTTGCCTGACAGTGAAGATGAAGATGATGAAATTGAAATGGAAGTTGAAG  
 ACCAAGATAGTAAAGAAGCCAGAAAACCGAATATCATAACTTTGACACCACTGCTGCCAACCTCACATAC  
 ATACCTGGGAGCTGATATGGAGGAGTCCACGGGAGAAGTTGTCATGACGACGACAGCTGCCAGGTGATC  
 CCAGTCCCTCCTGAGGTGCTGATGATCCTGATTCTGGGCAGACACTCCCACTGCAGCTCTCTACCCAC  
 AGGAAGTCAGCATGGTGCAGCACTTAATCCAGAAAACAGGACCTTTGCAGTCTTGCATACAGTAAATGT  
 GCAAGAAAGGGAAGCACAGTTTGGGACAACAGCAGAGATCTATGCCTATCGAGAAGAGCAGGAGTTTGA  
 ATTGAAGTAGTAAAAGTAAAAGCAATTGGAAGGCAGCGGTTCAAGGTCTCGAAGTTCGAACACAGTCAG  
 ATGGAATCCAGCAAGCTAAAGTGCAGATTTTGCCAGAGTGTGTGTTGCCGTCAACCATGTCTGCAGTGA  
 GGTAGAATCACTCAATAAGTCCAGGATTTTCTTCAAAACCCATCTCCTGGGAAGACCAGTATTCATGT  
 AAATGGTGGCAGAAATACCGAAGAGAAAGTTTCACTGTGCAAAATCTAACATCATGGCCTCGCTGGCTGT  
 ATTCATTATATGATGCTGAAACATTAATGGATAGAATTAAAGAAACAGCTACGTGAATGGGATGAAATCT  
 CAAAGATGATTCTTCTCCTGAAAATCCAATAGACTTTTCTTACAGAGTAGCTGCTTGTCTTCTTATTGAT  
 GATGTATTGAGAATTCAGCTCCTTAAAAATCGGCAGTGTATTCAACGGCTTCGCTGTGAATTGGACATCA  
 TGAACAAATGACTTCCCTTTGCTGTAACAATGTCAAGAAACAGAAATAACGACAAAGAATGAAATATT  
 TAGTTTATCCTTATGTGGTCCAATGGCAGCATATGTGAATCCTCATGGATATGTACATGAGACACTGACT  
 GTGTATAAAGCGTCCAACCTGAATCTGTGCAAGCCATATTGGATGGAATTTACAGCCACAAAAAAGA  
 CATGTACACCTCAAAAATTTGGGGCTTAACTCGCTCTGCTGTACCCACAATTCAGAGACTGAAGAT  
 GAAATAAGTCCAGACAAAGTAATACTTTGTTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206875 protein sequence  
 Red=Cloning site Green=Tags(s)

MGNHLLPLLPDSEDEDDEIEMEVEDQDSKEARKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDSDSCQVI  
 PVLPEVLMILIPGQTLPLQLSHPQEVSMVRNLIQKDRTFVLAYSINVQEREAQFGTTAEIYAYREEQEFQ  
 IEVVKKAIGRQRFKVLRLTQSDGIQQAKVQILPECVLPSTMSAVQVESLNKCQVFPKPI SWEDQYSC  
 KWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWENLKDDSL PENPIDFSYRVAACLPI  
 DVLRIQLLKIGSAIQRRLCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAAYVNP HGYVHETLT  
 VYKASNLNLIGRPSTVHSWFPGYAWTIAQCCKICASHIGWKFTATKKDMSPQKFWGLTRSALLPTIPETED  
 EISPDKVI LCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC086488

**ORF Size:** 1293 bp

**OTI Disclaimer:** 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.

**RefSeq:** [BC086488](#), [AAH86488](#)
**RefSeq Size:** 2107 bp

**RefSeq ORF:** 1295 bp

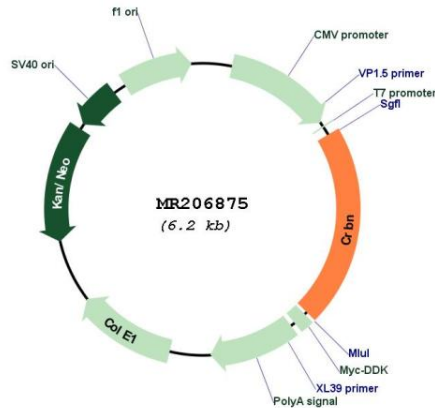
**Locus ID:** 58799

**Cytogenetics:** 6 E1

**MW:** 49.5 kDa

**Gene Summary:**

This gene encodes a protein with a Lon protease domain, a "regulators of G protein-signaling" (RGS)-like domain and a leucine zipper. It has been proposed to regulate the assembly and surface expression of large-conductance calcium-activated potassium channels in brain and to bind thalidomide. In humans mutation in this gene causes autosomal recessive nonsyndromic cognitive disability. In mouse deficiency of this gene serves as a model to study the molecular mechanisms governing learning and memory as they relate to intellectual disability. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]

**Product images:**


Circular map for MR206875