

## Product datasheet for **MC215992**

### **Crbn (NM\_175357) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Crbn (NM_175357) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC215992 representing NM\_175357  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGCGAGGGAGATCAGCAGGACGCTGCGCACAAACATGGGAAACCACCTGCCGCTTCTGCCTGCAG  
 ACAGTGAAGATGAAGATGATGAAATTGAAATGGAAGTTGAAAGACCAAGATAGTAAAGAAGCCAGAAAACC  
 GAATATCATAAACTTTGACACCAGTCTGCCAACCTCACATACATACCTGGGAGCTGATATGGAGGAGTTC  
 CACGGGAGAACTTTGCATGACGACGACAGCTGCCAGGTGATCCCAGTCCTTCTGAGGTGCTGATGATCC  
 TGATTCTGGGCAGACACTCCCAGTCTCTCACCCACAGGAAGTCAGCATGGTGGGAACTTAAT  
 CCAGAAAGACAGGACCTTTCAGTCTTGCATACAGTAATGTGCAAGAAAGGGAAGCACAGTTTGGGACA  
 ACAGCAGAGATCTATGCCTATCGAGAAGAGCAGGAGTTTGAATTGAAGTAGTAAAGTAAAGCAATTG  
 GAAGGCAGCGGTTCAAGTCTCGAACTTCGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAGAT  
 TTTGCCAGAGTGTGTGGCCGCAACCATGTCTGCAGTGCAGTTAGAATCACTCAATAAGTCCAGGTA  
 TTTCTTCAAACCCATCTCCTGGGAAGACCAGTATTCATGTAATGGTGGCAGAAATACCGAAGAGAA  
 AGTTTCACTGTGCAAACTAACATCATGGCCTCGCTGGCTGTATTCAATTATGATGCTGAAACATTAAT  
 GGATAGAATTAAGAAACAGCTACGTGAATGGGATGAAATCTCAAAGATGATTCTCTTCTGAAAATCCA  
 ATAGACTTTTCTTACAGAGTAGCTGTCTTCTTATTGATGATGATTGAGAATTCAGCTCCTTAAAA  
 TCGGCAGTGCTATTCAACGGCTTCGCTGTGAATTGGACATCATGAACAAATGACTTCCCTTTGCTGTAA  
 ACAATGTCAAGAAACAGAAATAACGACAAAGAAATGAAATATTTAGTTTATCCTTATGTGGTCCAATGGCA  
 GCATATGTGAATCCTCATGGATATGTACATGAGACACTGACTGTGTATAAAGCGTCCAACCTGAATCTGA  
 TAGGCCGGCCTTCTACAGTGCACAGCTGGTTCCCGGGTATGCATGGACCATTGCCAGTCAAGCTCTG  
 TGCAAGCCATATTGGATGGAAATTTACAGCCACAAAAAAGACATGTACCTCAAAAAATTTGGGGCTTA  
 ACTCGCTCTGCTCTGTTACCCACAATTCAGAGACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTT  
 GTTTATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1696\\_a09.zip](https://cdn.origene.com/chromatograms/ja1696_a09.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_175357

**Insert Size:** 1338 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [NM\\_175357.2](#), [NP\\_780566.1](#)

**RefSeq Size:** 4054 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 58799

**UniProt ID:** [Q8C7D2](#)

**Cytogenetics:** 6 E1

**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]  
Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site in the coding region compared to variant 1. It encodes isoform 2 which is longer than isoform 1.