

Product datasheet for **MC215825**

Crbn (NM_021449) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crbn (NM_021449) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Crbn
Synonyms:	2610203G15Rik; 2900045O07Rik; AF229032; AW108261; piL
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215825 representing NM_021449
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCGGCGAGGAGATCAGCAGGACGCTGCGCACAAACATGGGAAACCACCTGCCGCTTCTGCCTGACA
 GTGAAGATGAAGATGATGAAATTGAAATGGAAGTTGAAGACCAAGATAGTAAAGAAGCCAGAAAACCGAA
 TATCATAACTTTGACACCAGTCTGCCAACCTCACATACATACCTGGGAGCTGATATGGAGGAGTCCAC
 GGGAGAACTTTGCATGACGACGACAGCTGCCAGGTGATCCAGTCCTTCTGAGGTGCTGATGATCCTGA
 TTCCTGGGCGAGACTCCCACTGCAGCTCTCTACCCACAGGAAGTCAGCATGGTGCGGAACCTTAATCCA
 GAAAGACAGGACCTTTGCAGTCTTGCATACAGTAATGTGCAAGAAAGGGAAGCAGATTTGGGACAACA
 GCAGAGATCTATGCCTATCGAGAAGAGCAGGAGTTTGAATTGAAGTAGTAAAGTGAAAGCAATTGGAA
 GGCAGCGGTTCAAGGTCTCGAACTTCGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAGATTTT
 GCCAGAGTGTGTGTTGCCGTCAACCATGTCTGCAGTGCAGTTAGAATCACTCAATAAGTGCCAGGTATTT
 CCTTCAAACCCATCTCCTGGGAAGACCAGTATTCATGTAATGGTGGCAGAAATACCAGAAGAGAAAGT
 TCACTGTGCAAACTAACATCATGGCCTCGCTGGCTGTATTCATTATATGATGTGAAACATTAATGGA
 TAGAATTAAGAAACAGCTACGTGAATGGGATGAAAATCTCAAAGATGATTCTTCTTCTGAAAATCCAATA
 GACTTTTCTTACAGAGTAGCTGCTTGTCTTCTTATGATGATGATTGAGAATTCAGTCTCTTAAATCG
 GCAGTGTATTCAACGGCTTCGCTGTGAATTGGACATCATGAACAAATGTACTTCCCTTTGCTGTAAACA
 ATGTCAAGAAACAGAAATAACGACAAAGAATGAAATATTTAGTTTATCCTTATGTGGTCCAATGGCAGCA
 TATGTGAATCCTCATGGATATGTACATGAGACACTGACTGTGTATAAAGCGTCCAACCTGAATCTGATAG
 GCCGCCCTTCTACAGTGCACAGCTGGTTTCCCGGGTATGCATGGACCATTGCCAGTGAAGATCTGTGC
 AAGCCATATTGGATGGAATTTACAGCCACAAAAAAGACATGTACCTCAAAAATTTTGGGGCTTAAC
 CGCTCTGCTCTGTTACCCACAATTCAGAGACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGTT
 TAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_021449
- Insert Size:** 1335 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_021449.3](#), [NP_067424.2](#)

RefSeq Size: 4064 bp

RefSeq ORF: 1335 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 (1) represents the shorter transcript and encodes the shorter isoform (1).