

## Product datasheet for **MG225532**

### Crbn (NM\_021449) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Crbn (NM_021449) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Crbn
Synonyms:	2610203G15Rik; 2900045O07Rik; AF229032; AW108261; piL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225532 representing NM\_021449  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGGCGAGGGAGATCAGCAGGACGCTGCGCACAAACATGGGAAACCACCTGCCGCTTCTGCCTGACA  
 GTGAAGATGAAGATGATGAAATTGAAATGGAAGTTGAAGACCAAGATAGTAAAGAAGCCAGAAAACCGAA  
 TATCATAAACTTTGACACCACTGCTGCCAACCTCACATACATACCTGGGAGCTGATATGGAGGAGTCCAC  
 GGGAGAACTTTGCATGACGACGACAGCTGCCAGGTGATCCAGTCCTTCTGAGGTGCTGATGATCCTGA  
 TTCCTGGGCGACACTCCACTGCGACTCTCTACCCACAGGAAGTCAGCATGGTGCGGAACTTAATCCA  
 GAAAGACAGGACCTTTGCAGTCTTGCATACAGTAATGTGCAAGAAAGGGAAGCACAGTTTGGGACAACA  
 GCAGAGATCTATGCCTATCGAGAAGAGCAGGAGTTTGAATTGAAGTGTGAAAGTAAAGCAATGGAA  
 GGCAGCGGTTCAAGGTCCTCGAAGTTCGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTCGAGATTTT  
 GCCAGAGTGTGTGTTGCCGTCAACCATGTCTGCAGTGCAGTTAGAATCACTCAATAAGTGCCAGGATTT  
 CCTTCAAACCCATCTCCTGGGAAGACCAGTATTCATGTAAATGGTGGCAGAAATACCAGAAGAGAAAGT  
 TCACTGTGCAAACTAACATCATGGCCTCGCTGGCTGTATTCATTATATGATGTGAAACATTAATGGA  
 TAGAATTAAGAAACAGCTACGTGAATGGGATGAAAATCTCAAAGATGATTCTCTTCTGAAAATCCAATA  
 GACTTTTCTTACAGAGTAGCTGCTTGTCTTCTATTGATGATGATTGAGAATTCAGCTCCTTAAAAATCG  
 GCAGTGTATTCAACGGCTTCGCTGTGAATTGGACATCATGAACAAATGACTTCCCTTTGCTGTAAACA  
 ATGTCAAGAAACAGAAAACGACAAAGAATGAAATATTTAGTTTATCCTTATGTGGTCCAATGGCAGCA  
 TATGTGAATCCTCATGGATATGTACATGAGACACTGACTGTGTATAAAGCGTCCAACCTGAATCTGATAG  
 GCCGGCCTTCTACAGTGCACAGCTGGTTTCCCGGGTATGCATGGACCATTGCCAGTGAAGATCTGTGC  
 AAGCCATATTGGATGAAATTTACAGCCACAAAAAAGACATGTACCTCAAAAATTTGGGGCTTAACT  
 CGCTCTGCTCTGTTACCCACAATCCAGAGACTGAAGATGAAATAGTCCAGACAAAGTAATACTTTGTT  
 TA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225532 representing NM\_021449  
 Red=Cloning site Green=Tags(s)

MAGEGDQQDAAHNMGNHLPLLPDSEDEDEIEMEVEDQDSKEARKPNIIINFDTSLPTSHTYLGADMEEFH  
 GRTLHDDSDSCQVIPVLPVLMILIPGQTLPLQLSHPQEVSMVRNLIQKDRTFAVLAYSINVQEREAQFGTT  
 AEIYAYREEQEFIEVVKVKAIGRQRFKVLRLTQSDGIQQAQVILPECVLPSTMSAVQLESLNKCQVF  
 PSKPI SWEDQYSCKWWQYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWENLKDDSLPENPI  
 DFSYRVAACLPIDDLRIQLLIGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAA  
 YVNPYVHETLTVYKASNLNLIGRPSTVHSWFPGYAWTIAQCKICASHIGWKFTATKKDMSPQKFWGLT  
 RSALLPTIPETEDEISPDKVILCL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_021449

**ORF Size:** 1332 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:** [NM\\_021449.3](#), [NP\\_067424.2](#)

**RefSeq Size:** 4051 bp

**RefSeq ORF:** 1335 bp

**Locus ID:** 58799

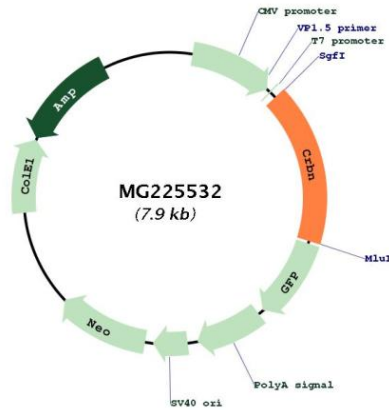
**UniProt ID:** [Q8C7D2](#)

**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]

**Product images:**



Circular map for MG225532