

Product datasheet for **MR225532**

Crbn (NM_021449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crbn (NM_021449) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR225532 representing NM_021449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGCGAGGGAGATCAGCAGGACGCTGCGCACAAACATGGGAAACCACCTGCCGCTTCTGCCTGACA
 GTGAAGATGAAGATGATGAAATTGAAATGGAAGTTGAAGACCAAGATAGTAAAGAAGCCAGAAAACCGAA
 TATCATAAACTTTGACACCACTGCTGCCAACCTCACATACATACCTGGGAGCTGATATGGAGAGTCCAC
 GGGAGAACTTTGCATGACGACGACAGCTGCCAGGTGATCCAGTCCTTCTGAGGTGCTGATGATCCTGA
 TTCCTGGGCGACACTCCACTGCACTCTCTACCCACAGGAAGTCAGCATGGTGCGGAACTTAATCCA
 GAAAGACAGGACCTTTGCAGTCTTGCATACAGTAATGTGCAAGAAAGGGAAGCACAGTTGGGACAACA
 GCAGAGATCTATGCCTATCGAGAAGAGCAGGAGTTTGAATTGAAGTAGTAAAGTAAAGCAATTGGAA
 GGCAGCGGTTCAAGGTCCTCGAAGTTCGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTCGAGATTTT
 GCCAGAGTGTGTGTTGCCGTCAACCATGTCTGCAGTGCAGTTAGAATCACTCAATAAGTGCCAGGATTTT
 CCTTCAAACCCATCTCCTGGGAAGACCAGTATTCATGTAATGGTGGCAGAAATACCAGAAGAGAAAGT
 TCACTGTGCAAACTAACATCATGGCCTCGCTGGCTGTATTCATTATATGATGTGAAACATTAATGGA
 TAGAATTAAGAAACAGCTACGTGAATGGGATGAAAATCTCAAAGATGATTCTCTTCTGAAAATCCAATA
 GACTTTTCTTACAGAGTAGCTGTCTTCTTCTATTGATGATGATTGAGAATTCAGCTCCTTAAATCG
 GCAGTGTATTCAACGGCTTCGCTGTGAATTGGACATCATGAACAAATGACTTCCCTTTGCTGTAACA
 ATGTCAAGAAACAGAAAACAGCAAAGAATGAAATATTTAGTTTATCCTTATGTGGTCCAATGGCAGCA
 TATGTGAATCCTCATGGATATGTACATGAGACACTGACTGTGTATAAAGCGTCCAACCTGAATCTGATAG
 GCCGGCCTTCTACAGTGCACAGCTGGTTTCCCGGGTATGCATGGACCTTGCCAGTGCACATCTGTGC
 AAGCCATATTGGATGAAAATTTACAGCCACAAAAAAGACATGTACCTCAAAAATTTTGGGGCTTAAC
 CGCTCTGCTCTGTTACCCACAATCCAGAGACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGTT
 TA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225532 representing NM_021449
 Red=Cloning site Green=Tags(s)

MAGEGDQQDAAHNMGNHLPLLPDSEDEDEIEMEVEDQDSKEARKPNIINFDTSLPTSHTYL GADMEEFH
 GRTLHDDSDSCQVIPVLPVLMILIPGQTLPLQLSHPQEVSMVRNLIQKDRTFAVLAYSINVQEREAQFGTT
 AEIYAYREEQEFGIEVVKVKAIGRQRFKVLRLTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQVF
 PSKPI SWEDQYSCKWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWDENLKDDSLPENPI
 DFSYRVAACLPIDDVLRILQLLIGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAA
 YVNPHYVHETLVYKASNLNLIGRPSTVHSWFPGYAWTIAQCKICASHIGWKFTATKKDMSPQKFWGLT
 RSALLPTIPETEDEISDPKVILCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-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

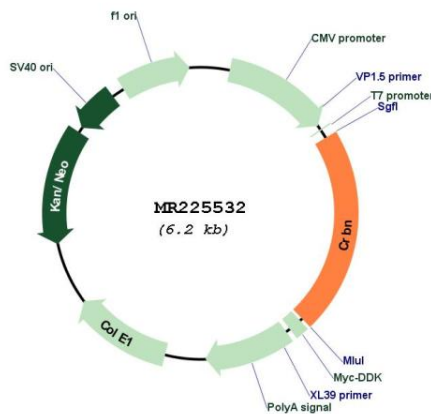
UniProt ID: [Q8C7D2](#)

Cytogenetics: 6 E1

MW: 51.3 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 MR225532