

Product datasheet for **RG230087**

CRBN (NM_001173482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRBN (NM_001173482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CRBN
Synonyms:	MRT2; MRT2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230087 representing NM_001173482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCGAAGGAGATCAGCAGGACGCTGCGCACAAACATGGGCAACCACCTGCCGCTCCTGCCTGAGA
GTGAGGAAGAAGATGAAATGGAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAACCAACATCATAAA
TTTTGACACCAGTCTGCCGACATCACATACATACCTAGGTGCTGATATGGAAGAATTTTCATGGCAGGACT
TTGCACGATGACGACAGCTGTCAGGTGATTCAGTTCTCCACAAGTGATGATGATCCTGATTCCCGGAC
AGACATTACCTCTTCAGCTTTTTCAACCCTCAAGAAGTCAGTATGGTGGGAATTTAATTCAGAAAGATAG
AACCTTTGCTGTTCTTGATACAGCAATGTACAGGAAAGGAAGCACAGTTTGGAAACAACAGCAGAGATA
TATGCCTATCGAGAAGAACAGGATTTTGGAAATGAGATAGTAAAAGTAAAAGCAATTTGAAAGACAAAAGT
TCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAAATTTCTCCGAATG
TGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTCAATAAGTGCCAGATATTTCTTCAAAA
CCTGTCTCAAGAGAAGACCAATGTTTATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTG
CAAATCTAACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGACCTAATGGACAGAATCAA
GAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCTTCAAAATCCAATAGATTTTTCT
TACAGAGTAGCTGCTTGTCTTCTTATTGATGATGATTGAGAATTCAGCTCCTTAAAATGGCAGTGCTA
TCCAGCGACTTCGCTGTGAATTAGACATTATGAATAAATGACTTCCCTTTGCTGTAAACAATGTCAAGA
AACAGAAATAACAACAAAAATGAAATATTCAGTTTATCCTTATGTGGCCGATGGCAGCTTATGTGAAT
CCTCATGGATATGTGCATGAGACACTTACTGTGTATAAGGCTTGAACCTGAATCTGATAGGCCGCCCTT
CTACAGAACACAGCTGGTTTCTGGGTATGCCTGGACTGTTGCCAGTGAAGATCTGTGCAAGCCATAT
TGGATGGAAGTTTACGGCCACAAAAAAGACATGTCACCTCAAAAATTTGGGGCTTAAACGCGATCTGCT
CTGTTGCCACGATCCCAGACACTGAAGATGAAATAAGTCCAGACAAAGTAACTTTGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230087 representing NM_001173482
 Red=Cloning site Green=Tags(s)

MAGEGDQQDAAHNMGNHLPLLPESSEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRT
 LHDDSDSCQVIPVLPQVMILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFVLAYSNVQEREAQFGTTAEI
 YAYREEQDFGIEIVKVAIGRQRFKVLRLTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQIFPSK
 PVSREDQCSYKWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWDENLKDDSLPSNPIDFS
 YRVAACLPIDDVLRIQLLKIGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAAYVN
 PHGYVHETLTVYKACNLNLIGRPSTHSWFPYAWTVAQCKICASHIGWKFTATKKDMSPQKFWGLTRSA
 LLPTIPDTEDEISPKVILCL

TRTRPLE - GFP Tag - V

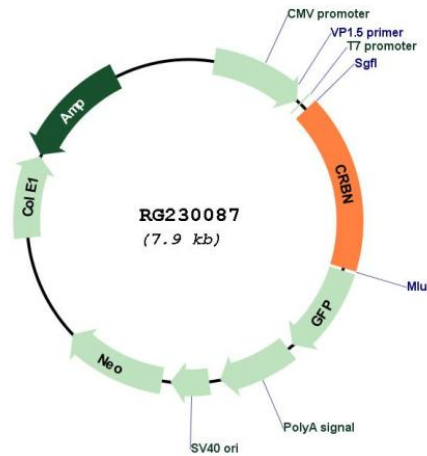
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001173482

ORF Size:	1323 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:	<ol style="list-style-type: none">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_001173482.1 , NP_001166953.1
RefSeq Size:	2593 bp
RefSeq ORF:	1326 bp
Locus ID:	51185
UniProt ID:	Q96SW2
Cytogenetics:	3p26.2
Protein Families:	Protease
Gene Summary:	This gene encodes a protein related to the Lon protease protein family. In rodents and other mammals this gene product is found in the cytoplasm localized with a calcium channel membrane protein, and is thought to play a role in brain development. Mutations in this gene are associated with autosomal recessive nonsyndromic cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]