

## Product datasheet for **RG206560**

### **RCBTB2 (NM\_001268) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | RCBTB2 (NM_001268) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | RCBTB2                                    |
| Synonyms:                 | CHC1L; RLG                                |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>RG206560 representing NM\_001268  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGAAGAACTTCTCTTTTCTCTGGAGACAGTGGCAAGCCAGTACAGGCTACTCTGTCATCTTTGA  
 AGATGTTAGATGTGGAAAGTGGCCAATTTTTCCCTTTGTTCTGAAGAAGAACTACAGTTAATTCGTCA  
 GGCTTGTGCTCTTTGGCAGTGTGCAATGAAGTTTATACACTACAGTAAATGATGAGATTTTTGTGCTT  
 GGCACAACTGCTGTGGCTGTTGGGGTTAGGTGACGTCCAGAGCACCATTGAACCTCGGAGACTGGATT  
 CTTTAAATGGCAAAAAATAGCCTGCCTCAGCTATGGGAGTGGTCCACATATTGCCTTGAACAACAGA  
 AGGAGAAGTCTTTACCTGGGGTCATAATGCTTATAGCCAGCTGGGCAATGGGACAATAATCATGGTTTA  
 GTGCCCTGCATATCTCTACTAATCTGTCAAACAACAAGTCATTGAAGTGCCTGTGGGCTTACCATT  
 CTTTGGTGCTAACATCTGATGGAGAGGTATTTGCCTGGGTTATAATAACTCTGGGCAGGTAGGATCTGG  
 ATCAACAGTTAATCAGCCAATCCCTCGAAGAGTCACTGGCTGCCTACAAAATAAAGTAGTTGTGACCATA  
 GCATGTGGGCAGATGTGCTGCATGGCAGTAGTAGACACGGGGGAGGTCTATGTCTGGGGTTACAACGGAA  
 ACGGGCAGCTTGGACTCGGCAACAGTGGCAACCAGCCAACCCCTTGCAGAGTGGCAGCTTTCGAAGGCAT  
 CCGTGTCCAGAGGGTCGCTGTGGCTACGCACACACATTAGTATTAACAGATGAAGGCCAAGTGTATGCT  
 TGGGGCGCAATTCTTATGGGCAGTTGGGCACTGGCAATAAAAGCAACCAGTCTCTACTCCTGTCA  
 CTGTGGAAAAGGACAGGATTATCGAGATTGCAGCTGTCACTCCACACACACGTCTGCGGCCAAGACGCA  
 GGGTGGCAGCTGTACATGTGGGGCCAGTCCGGGGTCACTCCGATCCTCCCGCACCTCACCCACTTC  
 TCCTGCCTGACGACGTGTTGCCTGCTTGGCACGCCCGCCGTACGTGGCGCCTCCTCTCCGTGGAAC  
 CTGATGACCACCTCACAGTGGCTGAGTCACTGAAGAGGGAAATTTGACAACCCGGACACTGCAGACGAA  
 GTTTCTAGTTGATGGAAAAGTACATTTATGCACATAAAGTCTTCTCAAGATTCGATGTGAGCATTTTCGT  
 TCGTCATTGGAAGATAACGAGGATGATATTGTAGAAATGAGTGAATTTTCATATCCTGTTTACGGGCT  
 TCCTGGAATACCTATACACAGACAGCATCAGCCTTCTCCTGAGGAGGCAGTAGGACTGCTAGACTTGGC  
 TACATTTTATAGAGAAAATCGTTTGA AAAAGCTCTGCCAACAATCAAGCAAGGCATCTGCGAGGAG  
 AATGCCATCGCTCTGCTCTCGGCTGCGGTGAAGTATGATGCACAGGATTTAGAAGAATTCTGCTCAGGT  
 TTTGCATAAACCATCTGACTGTAGTAACACAAACATCAGGTTTTGCAGAAATGGACCATGATCTCCTGAA  
 GAACCTTATCAGCAAAGCAAGCAGAGTTGGAGCCTTTAAAAAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG206560 representing NM\_001268  
 Red=Cloning site Green=Tags(s)

MEEELPLFSGDSGKPVQATLSSLKMLDVGKWIPIFSLCSEEEELQLIRQACVFGSAGNEVL YTTVND EIFVL  
 GTNCCGCLGLGDVQSTIEPRRLDSLNGKKIACL SYGSGPHIVLATTEGEVFTWGHNAYSQLGNGTTNHGL  
 VPCHISTNLSNKQVIEVACGSYHSLVLTSDGEVFAWGYNNSGQVGSSTVNQPIPRRVTGCLQNKVVVTI  
 ACGQMCCMAVVDTEVYVWYNGNGQLGLNSGNQPTPCRVAALQGIRVQRVACGYAHTLVLTDEGQVYA  
 WGANSYGLGTGNKSNQSYPTPVTEKDRIIEIAACHSTHTSAAKTQGGHVYMWGQCRGQSVILPHLTHF  
 SCTDDVFACFATPAVTWRLLSVEPDDHLTVAESLKREFDNPDTADLKFLVDGKYIYAHKVLLKIRCEHFR  
 SSLEDNEDDIVEMSEFSYPVYRAFLEYLYTDSISLSPEEAVGLLDLATFYRENRLKKLCQQTIKQGICEE  
 NAIALLSAAVKYDAQDLEEF CFRFCINHLTVVTQTSGFAEMDHLLKNFISKASRVGAFKN

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001268

**ORF Size:** 1653 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\\_001268.4](#)

**RefSeq Size:** 3204 bp

**RefSeq ORF:** 1656 bp

**Locus ID:** 1102

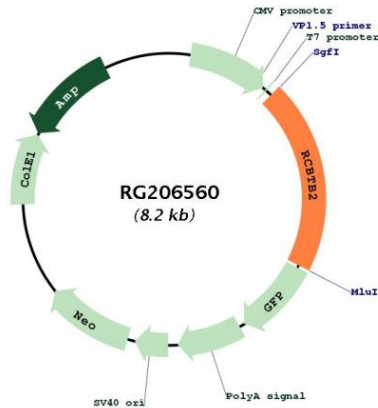
**UniProt ID:** [O95199](#)

**Cytogenetics:** 13q14.2

**Domains:** BTB, RCC1

**Gene Summary:** This gene encodes a protein containing two C-terminal BTB/POZ domains that is related to regulator of chromosome condensation (RCC). The encoded protein may act as a guanine nucleotide exchange factor. This gene is observed to be lost or underexpressed in prostate cancers. There is a pseudogene of this gene on chromosome 10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

**Product images:**



Circular map for RG206560