

Product datasheet for **SC119348**

RCBTB2 (NM_001268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RCBTB2 (NM_001268) Human Untagged Clone
Tag:	Tag Free
Symbol:	RCBTB2
Synonyms:	CHC1L; RLG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119348 sequence for NM_001268 edited (data generated by NextGen Sequencing)

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ATGGAAGAAGAACTTCCTCTTTTCTCTGGAGACAGTGGCAAGCCAGTACAGGCTACTCTG
TCATCTTTGAAGATGTTAGATGTGGGAAAGTGGCCAATTTTTCCCTTTGTTCTGAAGAA
GAACTACAGTTAATTCGTCAGGCTTGTGTCTTTGGCAGTGTGGCAATGAAGTTTATAC
ACTACAGTAAATGATGAGATTTTTGTGCTTGGCACAACACTGCTGTGGCTGTTGGGGTTA
GGTGACGTCCAGAGCACCAATTGAACCTCGGAGACTGGATCTTTAAATGGCAAAAAATA
GCCTGCCTCAGCTATGGGAGTGGTCCACATATTGCCTTGCAACAACAGAAGGAGAAGTC
TTTACCTGGGGTCATAATGCTTATAGCCAGCTGGGCAATGGGACAACATAATCATGGTTTA
GTGCCCTGTCATATCTCTACTAATCTGTCAAACAAACAAGTCATTGAAGTTGCCTGTGGG
TCTTACCATTCTTTGGTCTAACATCTGATGGAGAGGATTTGCCTGGGGTTATAATAAC
TCTGGGCAGGTAGGATCTGGATCAACAGTAAATCAGCCAATCCCTCGAAGAGTCACTGGC
TGCCTACAAAATAAAGTAGTTGTGACCATAGCATGTGGGCAGATGTGCTGCATGGCAGTA
GTAGACACGGGGAGGTCTATGTCTGGGGTTACAACGGAAACGGGCAGCTTGGACTCGGC
AACAGTGGCAACCAGCCAACCCCTTGCAGAGTGGCAGCTTTGCAAGGCATCCGTGTCCAG
AGGGTCGCCTGTGGCTACGCACACACATTAGTATTAACAGATGAAGGCCAAGTGTATGCT
TGGGGCGCCAATTCTTATGGGCAGTTGGGCACTGGCAATAAAAGCAACCAGTCCATCCT
ACTCCTGTCACTGTGAAAAGGACAGGATTATCGAGATTGCAGCCTGTCACTCCACACAC
ACGTCTGCGGCCAAGACGCAGGGTGGGCACGTGTACATGTGGGGCCAGTGCCGGGGTCAG
TCCGTGATCCTCCCGCACCTCACCCACTTCTCCTGCACTGACGACGTGTTTGCCTGCTTT
GCCACGCCCGCCGTACAGTGGCGCCTCCTCCTGGAACCTGATGACCACCTCACAGTG
GCTGAGTCACTGAAGAGGGAATTTGACAACCCGGACACTGCAGACCTGAAGTTTCTAGTT
GATGGAAAAGTACATTTATGCACATAAAGTCCCTTCTCAAGATTGATGTGAGCATTTCGT
TGCTCATTGGAAGATAACGAGGATGATATTGTAGAAAATGAGTGAATTTTCATATCCTGTT
TACCGGGCCTTCTGGAATACCTATACACAGACAGCATCAGCCTTTCTCCTGAGGAGGCA
GTAGGACTGCTAGACTTGGCTACATTTTATAGAGAAAATCGTTTGAAAAAGCTCTGCCAA
CAAATATCAAGCAAGGCATCTGCGAGGAGAATGCCATCGCTCTGCTCTCGGCTGCGGTG
AAGTATGATGCACAGGATTTAGAAGAATTCTGCTTCAAGTTTTGCATAAACCATCTGACT
GTAGTAACACAAACATCAGGTTTTGCAGAAATGGACCATGATCTCCTGAAGAACTTTATC
AGCAAAGCAAGCAGAGTTGGAGCCTTTAAAAATTGA
    
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Clone variation with respect to NM_001268.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001268 unedited

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GTTGTCGANATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGGAGTCA
CATTAACCTTTGCTCTANAAGACAACCTTTACAAGGATCTAAAAGGAACAGGATTAAGATG
ACTGAATACTGGGTTCCAGAAATTTAAAACAATCAGCTTAGCAAATCATATATTTCTG
TGGAGCTGAGAATTGATGTCGCTCTTCCCGTGATTTGGAACCTTCCAATCCCAGAGAA
AAGTTGACAAAGGGACTGCCAGGACTGAGTCCATATGGAAGAAGAACTTCTCTTTTCT
CTGGAGACAGTGGCAAGCCAGTACAGGCTACTCTGTCATCTTTGAAGATGTTAGATGTGG
GAAAGTGGCCAATTTTTCCCTTTGTTCTGAAGAAGAACTACAGTTAATTCGTCAGGCTT
GTGTCTTTGGCAGTGTGGCAATGAAGTTTTATACACTACAGTAAATGATGAGATTTTTG
TGCTTGGCACAACACTGCTGTGGCTGTTTGGGGTTAGGTGACGTCCAGAGCACCAATGAAC
CTCGGAGACTGGATTCTTTAAATGGCAAAAAAATAGCCTGCCTCAGCTATGGGAGTGGTC
CACATATTGCTTGCACAACAGAAGGAGAAGTCTTTACCTGGGGTCATAATGCTTATA
GCCAGCTGGGCAATGGGACAACATAATCATGGTTTATGTCCTGTATATCTCTACTAATC
TGTCAAAACAAACAAGTCATTGAAGTTGCCTGTGGGTCTTACCATTCTTTGGTGCTAACAT
CTGATGGAGAAGTATTTGCCTGGGGTTATAATAACTNNCTGGCAGTANGATCTGGATCAA
CAGTTAATCAGCCAATCCCTCGAAGATCACTGGCTGCCTACAAAATAAAGTATTGTGACCA
TAN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001268 unedited CGCGGCCGCAATTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTCTGCTATCTGCAAATAAGC ACTTTATTACCAATAGTTCAGCATCAGAACAAGAATTCTAATTCAAAAAGGGTTTCCTT TACATTACATGACATTGTGAGATCCACATTACAAGAATCTGAGACTATGCCCCATTCCAG CTGCTGTTTTGCAATCAGGCAATTCGCCTTGATCTCCACCTCCAATCCACCTCATTGT TGCTACCGCTGCCATGAAATGTCCCGTTCAACAGCTTCCACCTACCGCTTTCTGCCCCA TCCTGTGTCAGCCTCACACACCCATTCTATCACGCGCGCCCGACTTCATTCTTCATCA ATTCGTCTCGGCCTTCCCTTTCATCTCGGGCCCCCGTCTCACCGTCGTTACGTACCTC CGTTTCCCCCTCCCCCTCCTCCTCTACCTTCTACCTTCTCCCTCTTTCTCCTCTTT CCCGCCTTTCCTTCTCTCATTTTACTTCCCCTCCCTTTTCTCCTCCCGTTCTTTCCCC CCGTTCCCCCCCCCATTCTCCTTTCCCCCCCCTCCCGTCCCCACCTTTTCACTTTCCCC CGCCCCCCTTTCTCCTCCCCCCTGCCTTCCCCGTTCTAATGCCTCCTCCTACCCTAC CATCCTCGCGTCGCGGTGATTTCTATCACCTATTATTCTTTCTCCTCTCTCCACCGT TCCCCCGTTTCTCCTTTTCCCGCCTATCCGTCTCCTTCCCCCTGTCCCGTCCATTCA CCCCACCTTCCGTTTACCGTGCCGTTACGTCTCCCGCGCTTTCCTCGTCCATCCTAG TGGTTCCACCTCTTGGCACCCCCCCTCCTCTTTACCCACCCCCCTATTCTTTA TCTCCACACACCACCTCTCCGTAACGGTTCTATGCCACCCATGCCCCCGCGGCTTAA CTTGTCACCTCGCTTCCCTCCTTGTC
Restriction Sites:	NotI-NotI
ACCN:	NM_001268
Insert Size:	3000 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:	<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:	<u>NM_001268.2</u> , <u>NP_001259.1</u>
RefSeq Size:	3204 bp
RefSeq ORF:	1656 bp
Locus ID:	1102
UniProt ID:	<u>O95199</u>
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]

Transcript Variant: This variant (2) contains an alternate exon in the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Variants 2, 5, and 6 all encode the same isoform (2).