

## Product datasheet for **RN215014**

### **Rtcb (NM\_207614) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rtcb (NM_207614) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rtcb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN215014 representing NM\_207614  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCGTAACACAGTACAGTACAGTTCTTGGACAAGATCAATAAGAAGCTGCTGGAGGATCAAGA  
 AGGGCTTTGTGCCAACATGCAGGTTGAAGGGGTGTTTTATGTGAATGACGCTCTGGAAAAGCTCATGTT  
 TGAGGAGTTACGGAATGCCTGTCGAGGTGGTGGTGGTGGCTTCTGCCAGCCATGAAGCAGATTGGC  
 AATGTGGCAGCCCTGCCTGGAATAGTTCATCGGTCTATTGGGCTTCTGATGTCCACTCAGGCTACGGGT  
 TTGCCATAGGGAACATGGCTGCCTTTGATATGAATGACCCTGAGGCAGTTGTATCCCAGGTGGTGTCCG  
 ATTTGATATTAAGTGTGGTGTCCGCTTGCTAAGGACCAATTTAGATGAGAGCGATGTACAGCCTGTGAAG  
 GAACAACCTGCCAAGCTATGTTTGACCACATCCCTGTCGGGGTGGGATCGAAAGGTGTCATTCCAATGA  
 ATGCCAAAGACTTGAGGAGGCATTGGAGATGGGTGTGGACTGGTCCCTAAGAGAAGGCTATGCCTGGGC  
 TGAGGACAAGGAGCACTGTGAGGAGTATGGAAGGATGCTCCAAGCCGACCCCAATAAGGTCTCACCCAGA  
 GCAAAGAAAAGGGCCTTCTCAGTTGGGGACCTGGGAGCAGGCAACCATTATGCAGAGATCCAGGTTG  
 TAGATGAGATTTCAACGAGTATGCTGCCAAGAAGATGGGCATCGACCATAAGGGACAGGTGTGCGTGTAT  
 GATCCACAGCGGGAGCAGAGGCTTGGGCCATCAAGTAGCTACAGACGCACTGGTAGCTATGGAGAAAAGCC  
 ATGAAGAGAGACAAGATTATAGTCAATGACCGGCAGCTGGCGTGTGCTCGGATTGCATCCCAGAGGGAC  
 AAGACTATCTAAAGGGAATGGCTGCCGCTGAAACTGTGCTGGGTTAACCGCTCGTCTATGACCTTCTT  
 AACCCGTCAGGCTTTTGCCAAAGTCTTCAACACAACCCCTGACGACCTGGACCTGCATGTGATTTATGAT  
 GTTTCTCACAACATCGCCAAAGTGGAGCAGCACGTGGTAGACGGAAAGGAGCGGACGCTGTTGGTGCACA  
 GGAAAGGGTCCACCCGCGCTTTCCTCACCATCCCCTCATTGCTGTTGATTACCAGTCACTGGACA  
 ACCAGTGTATCGGTGGCACCATGGGGACCTGTAGTTATGTTCTGACTGGCACTGAACAAGGCATGACT  
 GAGACCTTTGGAACAACCTGTATGGAGCGGGCGTGTCTTGTCCAGAGCAAAATCACGTCGTAATTTAG  
 ATTTCCAAGATGTCTTAGACAAGCTGGCAGACATGGGAATCGCCATCCGGGTTGCGTCCCCAAGCTGGT  
 TATGGAAGAGGCTCCAGAATCATATAAGAATGTGACAGACGTCGTGAACACTTGCCATGATGCTGGGATC  
 AGCAAGAAGGCCATTAACCTGAGACCAATTGCTGTTATTAAGGATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_207614

**Insert Size:** 1518 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:**

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\\_207614.1](#), [NP\\_997497.1](#)

**RefSeq Size:** 1907 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 362855

**UniProt ID:** [Q6AYT3](#)

**Cytogenetics:** 7q13

**Gene Summary:** Catalytic subunit of the tRNA-splicing ligase complex that acts by directly joining spliced tRNA halves to mature-sized tRNAs by incorporating the precursor-derived splice junction phosphate into the mature tRNA as a canonical 3',5'-phosphodiester. May act as an RNA ligase with broad substrate specificity, and may function toward other RNAs. [UniProtKB/Swiss-Prot Function]