

Product datasheet for **MC205587**

Rtcb (NM_145422) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtcb (NM_145422) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtcb
Synonyms:	AI255213; AI463255; D10Wsu52e; FAAP; HSPC117
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003288
 CCCACGCGTCCGGCGTGGAGCGGGTGGACTGCGGGGTGGTTTCTCTTTCTAAGCGTAGCCAGGAGCTATC
 GCTGGCCTCGCCGCCACCATGAGTCGTAACATAACGATGAGCTACAGTTCTTGGACAAGATCAATAAAA
 ACTGCTGGAGGATCAAGAAGGGCTTTGTGCCAACATGCAGGTTGAAGGAGTGTTTTATGTGAATGATGC
 TCTGAAAAACTAATGTTTGAGGAATTAAGGAACGCCTGTCGAGGTGGTGGTGGTGGCTTTCTGCCA
 GCCATGAAGCAGATTGGCAATGTGGCAGCCCTGCCTGGAATAGTTCATCGGTCTATCGGGCTTCTGATG
 TCCATTAGGCTATGGGTTTGCCATAGGGAACATGGCTGCCTTTGATATGAATGACCCCTGAGGCCGTTGT
 ATCCCCAGGTGGTGTGCGATTTGATATTAAGTGGTGTCCGCTTGCTAAGAACCAATTTAGATGAGAGC
 GATGTACAGCCTGTGAAGGAACAACCTTGCCCAAGCTATGTTTGACCACATCCCTGTTGGGGTGGGATCAA
 AAGGTGTCATTCCAATGAATGCCAAAGACTTGGAGGAGCATTGGAGATGGGGTGGACTGGTCCCTGAG
 GGAAGGCTATGCCTGGGCTGAAGACAAGGAGCACTGTGAGGAGTATGGAAGGATGCTGCAAGCCGACCCC
 AATAAGGTCTCACCCAGGGCAAAGAAAAGGGCCCTTCTCAGTTGGGGACCCTGGGAGCAGGCAACCATT
 ATGCAGAAATCCAGGTTGTAGATGAGATTTCAATGAGTATGCCGCAAGAAGATGGGCATCGACCATAA
 GGGACAGGTGTGTGATGATCCACAGTGAAGCAGAGGCTTGGCCACCAAGTAGCTACAGATGCACTG
 GTAGCTATGGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGACCCGACAGTTGGCTTGTGCTCGGA
 TTGCATCCCCAGAGGGACAAGACTATCTAAAGGAATGGCTGCAGCTGGAACACTACGCCTGGGTTAACCG
 CTCTCTATGACCTTCTTAACCCGTGAGGCTTTTGCCAAAGTCTTCAACACAACCCTGATGACCTGGAC
 CTGCATGTGATCTATGATGTGTCGCACAATATCGCCAAAGTGGAGCAGCACGTGGTGGATGGGAAGGAAC
 GGACGCTGCTGGTGCACAGGAAGGGATCCACCCGTGCTTTCCCGCTCACCACCCCTCATTGCTGTGGA
 TTATCAACTCACAGGACAACCAAGTGTATTGGTGGCACCATGGGACCTGTAGTTACGTTCTGACTGGC
 ACTGAACAAGGCATGACTGAGACCTTTGGAACAACCTGTATGGAGCGGGCCGTGCTTTGTCCAGAGCAA
 AATCACGTCGTAACCTTAGATTTCCAAGATGTCTTAGACAACTGGCAGACATGGGAATTGCAATCCGGGT
 TGCTTCCCCAAGCTGGTTATGGAAGAGGCACCAGAGTCTATAAGAATGTGACAGACAGTGTGAACACC
 TGCCATGATGCTGGGATCAGCAAGAAGGCCATTAAGTGAAGCAATGCTGTTATTAAGGGTAGATCC
 AAGACTATCAGAGCGTCTGAGGTGCCCATGGACTGAAATTCCTAAGACATGAGACTCAAGGCCTGACAAG
 ATCCGAATTGCAGAGCTGTTGCTGTGCGTGCCACCATGGCTGGTGGAGAGGCTGCTGTACAGGGTTGGA
 AAATAGCCTTCCAGGAGATGTGCTCTGATGGGAGCAGGGCAAATGAGCCTCTTCTTCTTTGTCCACAA
 GGGGTTTGTGACTGTCAATTGGGGTGTGGGAAGGGGCCAGAAATGCCCTGTTTGGTGCATACAAGTCTGT
 AATCACCAGAGTGGGCTTCTTTATCCCAGGCCCTGTTTGTAGCCAGAGGTATCATGGAGAACATGCTA
 TTAATAGGTTTTTGAATGTTAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145422

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: [BC003288](#), [AAH03288](#)

RefSeq Size: 2003 bp

RefSeq ORF: 1518 bp

Locus ID: 28088

UniProt ID: [Q99LF4](#)

Cytogenetics: 10 41.81 cM

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 (By similarity). Essential during post-implantation development of embryos.[UniProtKB/Swiss-Prot Function]