

Product datasheet for **MR208125**

Rtcb (NM_145422) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtcb (NM_145422) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtcb
Synonyms:	AI255213; AI463255; D10Wsu52e; FAAP; HSPC117
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208125 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTCGTAACACACGATGAGCTACAGTCTTGGACAAGATCAATAAAAACCTGCTGGAGGATCAAGA
 AGGGCTTTGTGCCAACATGCAGGTTGAAGGAGTGTTTTATGTGAATGATGCTCTGGAAAACTAATGTT
 TGAGGAATTAAGGAACGCTGTCGAGGTGGTGGTGGTGGCTTTCTGCCAGCCATGAAGCAGATTGGC
 AATGTGGCAGCCCTGCCTGGAATAGTTCATCGGTCTATCGGGCTTCTGATGTCCATTAGGCTATGGGT
 TTGCCATAGGGAACATGGCTGCCTTTGATGAATGACCCTGAGGCCGTTGTATCCCCAGGTGGTGTGG
 ATTTGATATTAAGTGTGGTGTCCGCTTGTCTAAGAACCAATTTAGATGAGAGCGATGTACAGCCTGTGAAG
 GAACAACCTGCCAAGCTATGTTTGACCACATCCCTGTTGGGGTGGGATCAAAGGTGCATTCCAATGA
 ATGCCAAAGACTTGGAGGAGCATTGGAGATGGGGTGGACTGGTCCCTGAGGGAAGGCTATGCCTGGGC
 TGAAGACAAGGAGCACTGTGAGGAGTATGGAAGGATGCTGCAAGCCGACCCCAATAAGGTCTCACCAGG
 GCAAAGAAAAGGGCCTTCTCAGTTGGGGACCTGGGAGCAGGCAACCATTATGCAGAAATCCAGGTTG
 TAGATGAGATTTCAATGAGTATGCCGCCAAGAAGATGGGCATCGACCATAAGGGACAGGTGTGTGTGAT
 GATCCACAGTGGAAAGCAGAGGCTTGGGCCACCAAGTAGCTACAGATGCACTGGTAGCTATGGAAAAGGCC
 ATGAAGAGAGACAAGATTATAGTCAATGACCGCAGTTGGCTTGTGCTCGGATTGCATCCCCAGAGGGAC
 AAGACTATCTAAAGGGAATGGCTGCAGCTGAAACTACGCTGGGTTAACCGCTCCTCTATGACCTTCTT
 AACCCGTCAGGCTTTTGCCAAAGTCTTCAACACAACCCCTGATGACCTGGACCTGCATGTGATCTATGAT
 GTGTCGCACAATATCGCCAAAGTGGAGCAGCACGTGGTGGATGGGAAGGAACGGACGCTGCTGGTGCACA
 GGAAGGATCCACCCGTGCTTCCCGCTCACCCCTCATTGCTGTGGATTATCAACTCACAGGACA
 ACCAGTGTCTTATGGTGGCACCATGGGGACCTGTAGTTACGTTCTGACTGGCACTGAACAAGGCATGACT
 GAGACCTTTGGAACAACCTGTGATGGAGCGGGCCGTGCTTTGTCCAGAGCAAAATCACGTCGTAACCTAG
 ATTTCCAAGATGTCTTAGACAACTGGCAGACATGGGAATTGCAATCCGGGTTGCTTCCCCCAAGCTGGT
 TATGGAAGAGGCACCAGAGTCTATAAGAATGTGACAGACGTCGTGAACACCTGCCATGATGCTGGGATC
 AGCAAGAAGGCCATTAACCTGAGACCAATTGCTGTTATTAAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208125 protein sequence
 Red=Cloning site Green=Tags(s)

MSRNYNDELQFLDKINKNCWRIKKGFVPMNQVEGVFVYVNDALAKLMFEELRNACRGGVGGFLPAMKQIG
 NVAALPGIVHRISIGLPDVHSGYGF AIGNMAAFDMNDPEAVVSPGGVGF DINCVRLLRNLDES DVQPVK
 EQLAQAMFDHIPVGVGSKGVIPMNAKDLEEALEMVDWDLREGYAWAEDKEHCEEYGRMLQADPNKVSPR
 AKKRGLPQLGTLGAGNHYAEIQVVDEIFNEYAAKMGIDHKGQVCVMIHSGSRGLGHQVATDALVAMEKA
 MKRDKIIVNDRQLACARIASPEGQDYLGMAAAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLHLHVIYD
 VSHNIAKVEQHVVVDGKERTLLVHRKGSTRAFPPHPLIAVDYQLTGQPVLIGGTMGTCSYVLTGTEQGMT
 ETFGTTCHGAGRALSRKSRNLDQDVLDKLADMGIAIRVASPKLVMEEAPEYKNVTDVVNTCHDAGI
 SKKAIKLRPIAVIKG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_145422

ORF Size: 1518 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_145422.4](#)

RefSeq Size: 1979 bp

RefSeq ORF: 1518 bp

Locus ID: 28088

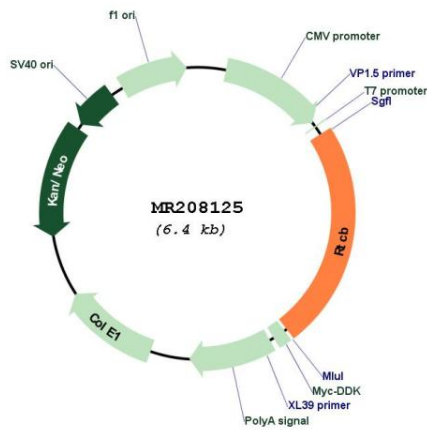
UniProt ID: [Q99LF4](#)

Cytogenetics: 10 41.81 cM

MW: 55.2 kDa

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]

Product images:



Circular map for MR208125