

Product datasheet for **RG204989**

C22orf28 (RTCB) (NM_014306) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | C22orf28 (RTCB) (NM_014306) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | C22orf28 |
| Synonyms: | C22orf28; DJ149A16.6; FAAP; HSPC117 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG204989 representing NM_014306
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCGCAGCTATAATGATGAGCTGCAGTCTTGGAGAAGATCAATAAAAAGCTGCTGGAGGATCAAGA
 AGGGCTTCGTGCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTT
 TGAGGAATTAAGGAATGCCTGTCGAGGTGGTGGTGGTGGCTTCTGCCAGCCATGAAACAGATTGGC
 AATGTGGCAGCCCTGCCTGGAATTGTTTCATCGATCTATTGGGCTTCTGATGTCCATTGAGGATATGGGT
 TTGCTATTGGGAACATGGCAGCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTCCG
 GTTTGACATCAACTGTGGTGTCCGCTTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAG
 GAGCAACTGCCAAGCTATGTTTGACCACATTCCTGTTGGGTGGGTCAAAGGTGCATCCCAATGA
 ATGCCAAAGACTTGGAGGAGCCTTGGAGATGGGGTGGACTGGTCTTAAGAGAAGGGTATGCCTGGGC
 TGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGTCGAGGCTGACCCCAATAAAGTTTCTGCAAGG
 CGGAAGAAAAGAGGCCTTCTCAGTTGGGGACCTGGGAGCAGGCAACCATTATGCAGAAATCCAGGTTG
 TGGATGAGATTTCAATGAGTATGCTGCTAAAAAATGGGCATCGACCATAAGGGACAGGTGTGTGTGAT
 GATCCACAGTGGAAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTAGCTATGGAGAAGGCC
 ATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCCCAGAGGGTC
 AAGACTATCTGAAGGGAATGGCAGCTGCTGGAACTATGCCTGGGTCAACCGCTCTTCCATGACCTTCTT
 AACCCGTCAGGCTTTCGCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTATTTATGAT
 GTTTCTCACAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAGGAACGGACACTGTTAGTACACA
 GGAAGGGATCCACCCGCGCTTCCCTCACCATCCCTCATTGCTGTTGATTACCAACTCACTGGGAC
 GCCAGTGTCTATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACT
 GAGACCTTTGGAACAACCTGTCATGGAGCGGGCCTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAG
 ATTTCCAGGATGTCTTAGACAAATTGGCAGATATGGGAATTGCGATCCGTGTTGCCTCACCCAAACTGGT
 TATGGAAGAGGCTCCTGAGTCTATAAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAATC
 AGCAAGAAAGCCATTAAGTACTGAGACCAATTGCTGTGATCAAAGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204989 representing NM_014306
 Red=Cloning site Green=Tags(s)

MSRSYNDELQFLEKINKNCWRIKGFVPMQVEGVFYVNDALAKLMFEELRNACRGGVGGFLPAMKQIG
 NVAALPGIVHRSIGLPDVHSGYGF AIGNMAAFDMNDPEAVVSPGGVGF DINCGRLLRNLDES DVQPVK
 EQLAQAMFDHIPVGVGSKGVIPMNAKDL EEALMGVDWSLREGYAWAEDKEHCEEYGRMLQADPNKVSAR
 AKKRGLPQLGTLGAGNHYAEIQVVDEIFNEYA AKKMGIDHKQVCVMIHSGSRGLGHQVATDALVMEKA
 MKRDKIIVNDRQLACARIASPEGQDYLKGM AAAGNYAWVNRSSMTFLTRQAFKVFNTTPDDL DLHVIYD
 VSHNIAKVEQHVV DKGKERTLLVHRKGS TRAFP PPHPLIAVDYQLTGQPVLIGGTMGTCSYVLTGTEQGMT
 ETFGTTCHGAGRAL SRAKSRRNLDFQDVL DKLADMGIAIRV ASPKLVMEEAPE SYKNVTDVVNTCHDAGI
 SKKAIKLRPIAVIKG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014306

ORF Size: 1515 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_014306.3](#)

RefSeq Size: 2056 bp

RefSeq ORF: 1518 bp

Locus ID: 51493

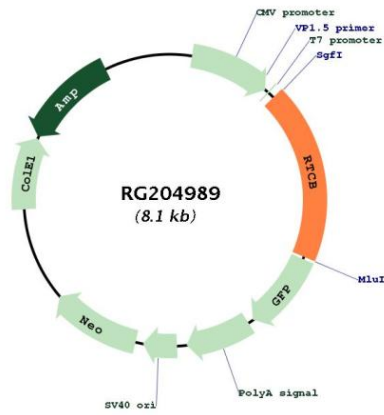
UniProt ID: [Q9Y3I0](#)

Cytogenetics: 22q12.3

Domains: UPF0027

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]

Product images:



Circular map for RG204989