

Product datasheet for RC214858

RTCD1 (RTCA) (NM_003729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTCD1 (RTCA) (NM_003729) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RTCD1
Synonyms:	RPC; RTC1; RTCD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214858 representing NM_003729 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGGGCGCGGGTGGAGGTCGATGGCAGCATCATGGAAGGGGGCGGCCAGATCCTGAGAGTCTCTA
CGGCCTTGAGCTGTCTCCTAGGCCTCCCCTTGCAGGATGCAGAAGATCCGAGCCGGCCGAGCAGCCAGG
CCTGAGGCCTCAACATTTATCTGGACTGGAATGATTGAGATTTGTGTGATGGCAACTGGAGGGGCA
GAAATTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGATACCA
AGACAGCAGGGAGTGTGTGCCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTGCTGCTTCTCCATC
AGAACTTCATTTGAAAGGTGGAATAATGCTGAAATGGCACCACAGATCGATTATACAGTGATGGTCTTC
AAGCCAATTGTTGAAAAATTTGGTTTCATATTTAATTGTGACATTAACAAGGGGATATTACCCAAAAG
GGGGTGGTGAAGTGATTGTTGCAATGTCACCAAGTTAAACAATTGAACCTATAAATTTAACTGAGCGTGG
CTGTGTGACTAAGATATATGGAAGAGCTTTCGTTGCTGGTGTGTTTGCCATTTAAAGTAGCAAAAGATATG
GCAGCGGCAGCAGTTAGATGCATCAGAAAGGAGATCCGGGATTTGTATGTTAACATCCAGCCTGTCAAG
AACCTAAAGACCAAGCATTGGAATGGAATGGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTT
GTTTGTGGATCATCGCTTGGTAAACGAGGTGTAATGCAGACAAAGTTGAATTGAAGCTGCCGAAATG
CTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGTATCTGCAAGACCAGCTGATTGTTTTCATGG
CATTAGCCAATGGAGTTTCCAGAATAAAAAACAGGACAGTTACACTCCATACGCAAAACCGGATACATTT
TGCTGAACAAATAGCAAAGGCTAAATTTATTGTGAAGAAATCAGAAGATGAAGAAGACGCCGCTAAAGAT
ACTTATATTATTGAATGCCAAGGAATTGGGATGACAAATCCAATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC214858 representing NM_003729
 Red=Cloning site Green=Tags(s)

MAGPRVEVDGSIMEGGGQILRVSTALSCLLGLPLRVQKIRAGRSTPGLRPQHL SGLEMIRDLCDGQLEGA
 EIGSTEITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLF AASPSELHLKGGTNAEMAPQIDYTMVF
 KPIVEKFGFIFNCDIKTRGYYPKGGGEIVRMSPVKQLNPINL TERGCVTKIYGRAFVAGVLPFKVAKDM
 AAAAVRCIRKEIRDLYVNIQPVQEPKDQAFGNGNGIIIIAETSTGCLFAGSSLGKRGVNADKVGIEAAEM
 LLANLRHGGTVDEYLQDQLIVFMALANGVSRIKTGPVTLHTQTAIHFAEQIAKAKFIVKKSEDEEDAARD
 TYIECQGIGMTNPNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8029_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003729

ORF Size: 1098 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003729.4](#)

RefSeq Size: 1539 bp

RefSeq ORF: 1101 bp

Locus ID: 8634

UniProt ID: [O00442](#)

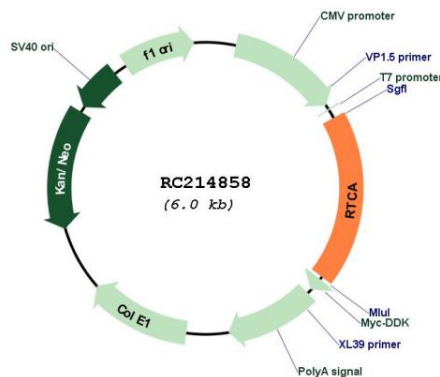
Cytogenetics: 1p21.2

Domains: RTC

MW: 39.2 kDa

Gene Summary: This gene encodes a member of the RNA 3'-phosphate cyclase family. The encoded protein plays a role in RNA metabolism by catalyzing the ATP-dependent conversion of the 3'-phosphate of RNA substrates to a 2',3'-cyclic phosphodiester. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC214858