

Product datasheet for **RC208160**

RFT1 (NM_052859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFT1 (NM_052859) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RFT1
Synonyms:	CDG1N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208160 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAGCCAGGAGGTGCTGGGCCACGGCCCGGCTGGCTCCTCCGGTCTCCTCCTGCAGGTGTTGT
 TTCGGTTGATCACCTTTGCTTGAATGCATTTATTCTTCGCTTCCTGTCAAAGGAAATCGTTGGCGTAGT
 AAATGTAAGACTAACGCTGCTTTACTCAACCACCTCTTCTGGCCAGAGAGGCCTTCCGAGAGCATGT
 CTCAGTGGGGCACCCAGCGAGACTGGAGCCAGACCCTCAACCTGCTGTGGCTAACAGTCCCCCTGGGTG
 TGTTTTGGTCTTATTCTGGGCTGGATCTGGTTGCAGCTGCTTGAAGTGCCTGATCCTAATGTTGTCCC
 TCACTATGCAACTGGAGTGGTCTGTTGGTCTCTCGGCAGTGGTGGAGCTTCTAGGAGAGCCCTTTTGG
 GTCTTGGCACAAGCACATATGTTTGTGAAGCTCAAGGTGATTGCAGAGAGCCTGTCGGAATTCTTAAGA
 GCGTTCGACAGCTTTTCTCGTCTGTGGTTCCTCACTGGGGATTGTACATTTTCTTTGGCCAGCT
 TTTCTATACCACAGTTCTGGTCTCTGCTATGTTATTTATTTACAAAGTACTGGTTCGCCAGAAATCA
 ACCAAGCTTCAAACCTTCTCCTGTCTCCAGAATAACAGATCTGTTACCCAATATTACAAGAAATGGAGCGT
 TTATAAAGCTGAAAGAGGCTAAACTGACTTGGAGTTTTTTCAAACAGTCTTTCTTGAACAGATTTTGAC
 AGAAGGCGAGCGATATGTGATGACATTTTTGAATGTATTGAACCTTGGTATCAGGGTGTGTATGATATA
 GTGAATAATCTTGGCTCCCTTGTGGCCAGATTAATTTTCCAGCCAATAGAGGAAAGTTTTATATATTTT
 TTGCTAAGGTGCTGGAGAGGGGAAAGGATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTGC
 AGTCTTGGAGTCCCTGCTCAAGCTGGCCCTGCTGGCCGGCCTGACCATCACTGTTTTTGGCTTTGCCTAT
 TCTCAGCTGGCTCTGGATATCTACGGAGGACCATGCTTAGCTCAGGATCCGGTCTGTTTTGCTGCGTT
 CCTACTGTCTCTATGTTCTCTGCTTGCATCAATGGAGTGACAGAGTGTTCACATTTGCTGCCATGAG
 CAAAGAGGAGGTCGACAGGTACAATTTTGTGATGCTGGCCCTGTCTCCTCATTCTGGTATCCTAT
 CTCTTGACCCGTTGGTGTGGCAGCGTGGCTTCATCTTGGCCAAGTCTTAAACATGGGCATTCCGGATCA
 CGCAGAGCCTTTGCTTCACTCCACCCTACTACCGAAGGAGCCCCACAGGCCCTGGCTGGCCTGCACCT
 ATCGCCAGTCTGCTCGGGACATTTGCCCTCAGTGGTGGGGTTACTGCTGTTTCGGAGGTATCCTCTGC
 TGTGAGCAGGGCTGGCCAGCCAGACTGGCACACATTGCTGTGGGGCCTTCTGTCTGGGAGCAACTCTCG
 GGACAGCATTCTCACAGAGACCAAGCTGATCCATTTCTCAGGACTCAGTAGGTGTGCCAGACGCAC
 TGACAAAATGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208160 protein sequence
 Red=Cloning site Green=Tags(s)

MGSQEVLGHAARLASSGLLLQVLFRLITFVNAFILRFLSKEIVGVVNVRLTLLYSTTLFLAREAFRRAC
 LSGGTQRDWSQTLNLLWLVPLGVFWSLFLGWIWLQLLEVPDPNVPHYATGVVLFGLSAVVELLGEPFW
 VLAQAHMFVKLVIAESLSVILKSVLTAFLVWLPHWGLYIFSLAQLFYTTVLVLCYVIYFKLLGSPES
 TKLQTLVPSRITDLLPNITRNGAFINWKEAKLTWSFFKQSFLKQILTEGERYVMTFLNVLNFGDQGVYDI
 VNNLGSVARLIFQPIEESFYIFFAKVLERGKDATLQKQEDVAVAAAVLESLLKALLAGLITVFGFAY
 SQLALDIYGGTMLSSGSGPVLLRSYCLYVLLLAINGVTECFFAAMSKEEVDRYFVMLALSSSFLVLSY
 LLTRWCGSVGFILANCFNMGIRITQSLCFIHRYYRRSPHRPLAGLHLSPVLLGTFALSGGVAVSEVFLC
 CEQGWPARLAHIAVGAFCLGATLGTAFLETETKLIFLRTQLGVPVRRDKMT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6225_a02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_052859

ORF Size: 1623 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

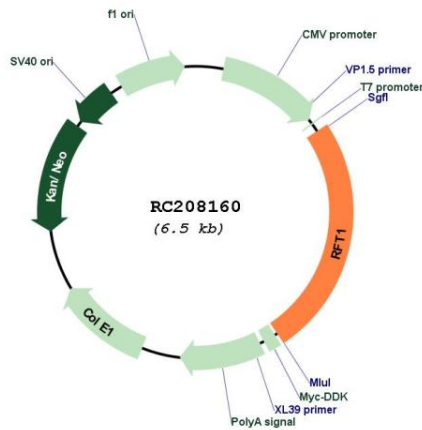
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_052859.4](#)

RefSeq Size:	5112 bp
RefSeq ORF:	1626 bp
Locus ID:	91869
UniProt ID:	Q96AA3
Cytogenetics:	3p21.1
Domains:	Rft-1
Protein Families:	Transmembrane
Protein Pathways:	N-Glycan biosynthesis
MW:	60.3 kDa
Gene Summary:	This gene encodes an enzyme which catalyzes the translocation of the Man(5)GlcNAc (2)-PP-Dol intermediate from the cytoplasmic to the luminal side of the endoplasmic reticulum membrane in the pathway for the N-glycosylation of proteins. Mutations in this gene are associated with congenital disorder of glycosylation type In.[provided by RefSeq, Dec 2008]

Product images:



Circular map for RC208160