

Product datasheet for **SC324324**

RFT1 (NM_052859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFT1 (NM_052859) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFT1
Synonyms:	CDG1N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_052859.2
 CCGAGTGGCGCGGCATTTCTGGTGTCTGAGCCTGGCGCGGAGGCTATGGGCAGCCAGG
 AGGTGCTGGGCCACGCGGCCCGGCTGGCCTCCTCCGGTCTCCTCTGCAGGTGTTGTTTC
 GGTTGATCACCTTTGTCTTGAATGCATTATTCTTCGTTCTCTGTCAAAGGAAATCGTTG
 GCGTAGTAAATGTAAGACTAACGCTGCTTACTCAACCACCCTTCTCCTGGCCAGAGAGG
 CCTTCCGCAGAGCATGTCTCAGTGGGGGCACCCAGCGAGACTGGAGCCAGACCCTCAACC
 TGCTGTGGCTAACAGTCCCCTGGGTGTGTTTTGGTCTTATTCTGGGCTGGATCTGGT
 TGCAGTGCCTGAAGTGCCTGATCCTAATGTTGTCCCTCACTATGCAACTGGAGTGGTGC
 TTTTTGGTCTCTCGGCAGTGGTGGAGCTTCTAGGAGAGCCCTTTTGGGTCTTGGCACAAG
 CACATATGTTTGTGAAGCTCAAGGTGATTGCAGAGAGCCTGTCGGTAATTCTTAAGAGCG
 TTCTGACAGCTTTTCTCGTGTGTGGTTGCCTCACTGGGGATTGTACATTTTCTTTTGG
 CCCAGCTTTTCTATACCACAGTTCTGGTCTCTGCTATGTTATTTATTTTCAAAAGTTAC
 TGGGTTCCCCAGAATCAACCAAGCTTCAAACCTTCTCTGTCTCCAGAATAACAGATCTGT
 TACCCAATATTACAAGAAATGGAGCGTTTATAAACTGAAAGAGGCTAAACTGACTTGGG
 GTTTTTTCAAACAGTCTTTCTTGAACAGATTTTACAGAAAGGCGAGCGATATGTGATGA
 CATTTTTGAATGTATTGAACTTTGGTGATCAGGGTGTGTATGATATAGTGAATAATCTTG
 GCTCCCTTGTGGCCAGATTAATTTTCCAGCCAATAGAGGAAAGTTTTTATATATTTTTTG
 CTAAGGTGCTGGAGAGGGGAAAGGATGCCACACTTCAAGAGCAGGAGGACGTTGCTGTGG
 CTGCTGCAGTCTTGGAGTCCCTGCTCAAGCTGGCCCTGCTGGCCGGCCTGACCATCACTG
 TTTTTGGCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGCTTAGCT
 CAGGATCCGGTCTGTTTTGCTGCGTTCCTACTGTCTCTATGTTCTCCTGCTTGGCATCA
 ATTTTGTGATGCTGGCCCTGCTCCTCCTCATTCTGGTGTATCCTATCTCTTGACCCGGT
 GGTGTGGCAGCGTGGGCTTCATCTTGGCCAACCTGCTTTAACATGGGCATTCGGATCACGC
 AGAGCCTTTGCTTCATCCACCGCTACTACCGAAGGAGCCCCACAGGCCCTGGCTGGCC
 TGCACCTATCGCCAGTCTGCTCGGGACATTTGCCCTCAGTGGTGGGGTACTGCTGTTT
 CGGAGGTATTCTCTGCTGTGAGCAGGGCTGGCCAGCCAGACTGGCACACATTGCTGTGG
 GGGCCTTCTGCTGGGAGCAACTCTCGGGACAGCATTCTCACAGAGACCAAGCTGATCC
 ATTTCTCAGGACTCAGTTAGGTGTGCCAGACGCACTGACAAAATGACATGACTTCAGG
 GAAGCCTGGACACCCGAGGCACCTGGACCAGCTATGGGTAGTTCTGTGGGTGGAACACAT
 TCTGTGTAAGAGCCCACTGAGGGCTCTGCAGCGGAGTGACAGCAACCCAGAGATGAGG
 CACCAGAGAGTGCCACTGCATGAGACACCTGTGACCATTGAAAGTCTGAAATGCGGGGGG
 GGAGTTTCATTTTTAAGTGAAGACCAAAAAGCCCTTTAAAAATAATAGTTTTTTATCATT
 TATAGTAATCAGCATTTTCTCTTTTACTAATACTACTTCTTTTTCGATGATTGGCC
 TTTGGAGCTACATGCTCCAACAACTATACTTAATTGTTAACTGTTAATAATTATCTGG
 CCCAGAAAAAGAGATGCAGTGATTTTACCCTTACAGGAATATTGAACTTCTTCTGTAAA
 AGAGAGAGAGAAACCTCTCTCTTTCATGCACCACATGGAACAGAGTGTGGCCCTGAAGT
 TGTGGCTTTCTTTGTGTCAAACTGTGGTCTGAGTTTTTAGAGAAGGAAAAATGCTACT
 AGTGAGAAATCCAAGAAATGAAACCAGGAAGTTTTTCAGATCACATTTCCAGAGTGAGT
 TCGGGAGAATCTTGGCTGTCGTGATCACACTGTTCCCGCCGCCAGGTCAGCACATAAC
 TTGACCCAGAGTGGGCTCTCAGGATTTGTTGATTGAAGGGTGGGTGAAAGCTGGCTGGAG
 ACTCCTGGCCTGGCCACCTGCAAGAGGGGACTTTGAAGAAAATGTGATCCAGTTGAGC
 CACTTTGTCCTGAGGGGAATGCTGCTTTGACGCTTTCTGTAACCTTCTCACATGGGAATT
 GCACTGGTGACAGATAAGGTTTAAACAGATGACTTTTTTATCCTCAGAATAAGACAAGGC
 AAACCTATATGGCTAGTATTACTGAGTCAGGTCCTCCCGTTGACCCATTAATTCCAGC
 ATTGATCAATACAACAAATCCAGCCCCAGGACAAGAGTGGCAGGCATGGGGCCCTGGT
 ACTCCAGGCTACAGTGTGAGCCAGGTGTTCTGCACCTTGCAGCCTGCACACTGCAGGTG
 AAATCATGAGCAGTGTTTTGGAAAAAATAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_052859

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_052859.2, NP_443091.1</u>
RefSeq Size:	2810 bp
RefSeq ORF:	1626 bp
Locus ID:	91869
UniProt ID:	<u>Q96AA3</u>
Cytogenetics:	3p21.1
Domains:	Rft-1
Protein Families:	Transmembrane
Protein Pathways:	N-Glycan biosynthesis
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]