

Product datasheet for SC303249

RFNG (NM_002917) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFNG (NM_002917) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFNG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002917 edited

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ATGAGCCGCGCGTGGGGCGCTGTGCCGGCCTGCCTCGCGCTGGCCGCGGCCCTGGCC
GCGCTGCTGTTACTGCCGCTGCCGCTGCCCCGCGCGCCCGCCCGGCCGACCCCGCC
CCGGCCCCGCGCGCCCCCGTCCCGGCCGCTGCCCCAGCCTGCGGCCTGACGACGTC
TTCATCGCGTCAAGACCACCCGGAAGAACCACGGGCCGCGCCTGCGGCTGCTGTCGC
ACCTGGATCTCCCGGGCCCGCCAGCAGACGTTTATCTTACCGACGGGGACGACCCGAG
CTCGAGCTCCAGGGCGGCGACCGTGTCAACACCAACTGCTCGGCGGTGCGCACTCGT
CAGGCCCTCTGCTGCAAGATGTCCGTGGAGTATGACAAGTTCAATTGAGTCCGGGCGCAAG
TGGTTTTGCCACGTGGATGATGACAATTATGTGAACGCAAGGAGCCTCCTGCACCTGCTC
TCCAGCTTCTCACCCAGCCAGGACGTCTACCTGGGGCGGCCAGCCTGGACCACCCATT
GAGGCCACCGAGAGGGTCCAGGGTGGCAGAAGTGTACCACGGTCAAGTTCTGGTTTGT
ACTGGTGGGGCCGGTTCTGCCTCAGCAGAGCCTTGCCCTCAAGATGAGCCCATGGGCC
AGCCTGGGCAGCTTCATGAGCACAGCTGAGCAGGTGCGGCTGCCGATGACTGCACAGTT
GGCTACATCGTGGAGGGCTCCTGGGCGCCCGCCTGCTGCACAGCCCCCTTCCACTCT
CACCTGGAGAACCTGCAGAGGCTGCCGCCGACACCCTGCTCCAGCAGGTTACCTTGAGC
CATGGGGTCTGAGAACCACAGAACGTGGTGAACGTGGCTGGAGGCTTCAGCCTGCAT
CAAGACCCACACGGTTAAGTCTATCCATTGTCTTGTGTACCCAGACACGGACTGGTGT
CCCAGGCAGAAACAGGGGCCCGACCTCTCGGTGA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002917 unedited</p> <pre>GACCTTTGTATACGACTCCTATAGGGCGGCCGGAATTCGGCACCAGGTCCCAGGCGGCCG CATGAGCCGCGCGCTGGGGCGCTGTGCCGGGCTGCCTCGCGCTGGCCGCGGCCCTGGC CGCGCTGCTGTTACTGCGCTGCCGCTGCCCGCGCGCCCGCCCGCCGACCCCGC CCCCGCCCCGCGCGCCCCCGTCCCGGCCGCTGCCCCAGCTGCGGCCTGACGACGT CTTCATCGCCGTCAAGACCACCCGGAAGAACCAGGGCCGCGCCTGCGGTGCTGCTGCG CACCTGGATCTCCCGGGCCCGCAGCAGACGTTTATCTTCACCGACGGGACGACCCTGA GCTCGAGCTCCAGGGCGCGACCGTGTCAACAACCAACTGCTCGGCGGTGCGCACTCG TCAGGCCCTCTGCTGCAAGATGTCCTGGAGTATGACAAGTTCATTGAGTCCGGGCGCAA GTGGTTTTGCCACGTGGATGATGACAATTATGTGAACGCAAGGAGCCTCCTGCACCTGCT CTCCAGCTTCTACCCAGCCAGGACGTCTACCTGGGGCGGCCACCCTGGACCACCCAT TGAGGCCACCGAGAGGGTCCAGGGTGGCAGAACTGTGACCACGGTCAAGTTCTGGTTTGC TACTGGTGGGGCCGGCTTCTGCCTCAGCAGAGGCCTTGCCTCAAGATGAGCCAATGGC TAGCCTGAGCAGATTCATGAGCACAGCTGAACAAGTGGGCTGCCGGATGACCTGCCAG CTGGCTACTCGAGACGGCCCTCCATGGGACGCCAGCTGCTGCACAGCACCTCTTCCA GTCTCCACTGGCAGAATCGTGGCAAAGCGTGTCTGTCAGACAGCAGGATCGGATAGCTTA CCTGAAGCCAGGTGGGGTGTCTGGAGATACCACAGACAGCGATGAATAGAGATTAGGAGG CATAGA</pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_002917 unedited</p> <pre>CGCTTTAGTCTATCCTTGTCTTCTGTACCCAGGCACGGACTGGTGTCCCATGCAGAAACA GGGCGCCCCGACCTCTCGGTGACACCAACCACCCGACCCAGGGCTGCCTGGCTGTGCC CAGGCGCGGGGAACCAGAGCCCCCTATGGGCTCAGTGGGCTCCCTCAGGTGCCACGGCCG CACCAGTGAGATGCAGGCACCTGGCAGACCCTCTGGCTAGCCTGCAGCCCCCTCTCC AGCCCCCTGGTGGGCTGTGGTGTGGTGTGGTGGGAGAACGAAGACAGCCAGGCTGATGG CCAGGGCCGCAGTGCCCTCCCCCGACCCAGCCCAAGTTGATCCACGGGAACAGGC TTCCACCCAGCACTTGCACACTGGGAGGAGCTGCCATCCGGGCTCCATTACCTGTTG CTGAAGGCGGGTGTAGGCTGGTGGTGTCAAGGAGCAGGCTCCAGGCCAAGGCTCTGG CCCAGCCACGGCATTGCAAGGGCTCAGCCTGGCAGGCTTTGTGGGGACGCCGCCCTCT CTGCCGACGGTGGTGCACGGCCAGGCACCACAGTGGGACTCAGCCGGGAAGGTCATG TTCTCGACCAGAGCTTTGCTCCAGTCCAGGCGCCTCATTGGAGCCTCTTGACTGGGA CCACAGAGATGTTTTCTCGCTCTGACTTGTGGCTCAGGACTACTTTCTGGTCTGTGCTC TGCCCCCACTGTGCTGGGCCCATAAACAAACAGGAGCCTTTTGTTCGCTGACTGCG CCATCCCAGCAGAACCCACCTCCCCGCCTGGTGCCTTTCATGGAAGGGAATGGGAACA GGGCCGTATCTCCCCTGTGCTCTGCTTGTGTTGCCGAGCACGAGTAAAGCTTTT GTTTCTTAACTTCACAGAAAACGACAGATA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002917
Insert Size:	2000 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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_002917.1](#), [NP_002908.1](#)

RefSeq Size: 1828 bp

RefSeq ORF: 996 bp

Locus ID: 5986

UniProt ID: [Q9Y644](#)

Cytogenetics: 17q25.3

Protein Families: Transmembrane

Protein Pathways: Notch signaling pathway

Gene Summary: Glycosyltransferase that initiates the elongation of O-linked fucose residues attached to EGF-like repeats in the extracellular domain of Notch molecules. Modulates NOTCH1 activity by modifying O-fucose residues at specific EGF-like domains resulting in enhancement of NOTCH1 activation by DLL1 and JAG1. May be involved in limb formation and in neurogenesis.[UniProtKB/Swiss-Prot Function]