*h*RFNG VersaClone cDNA

Catalog Number: RDC1596

Specifications:

Gene:	*h*RFNG
Accession:	NP_002908
Insert size:	1008bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

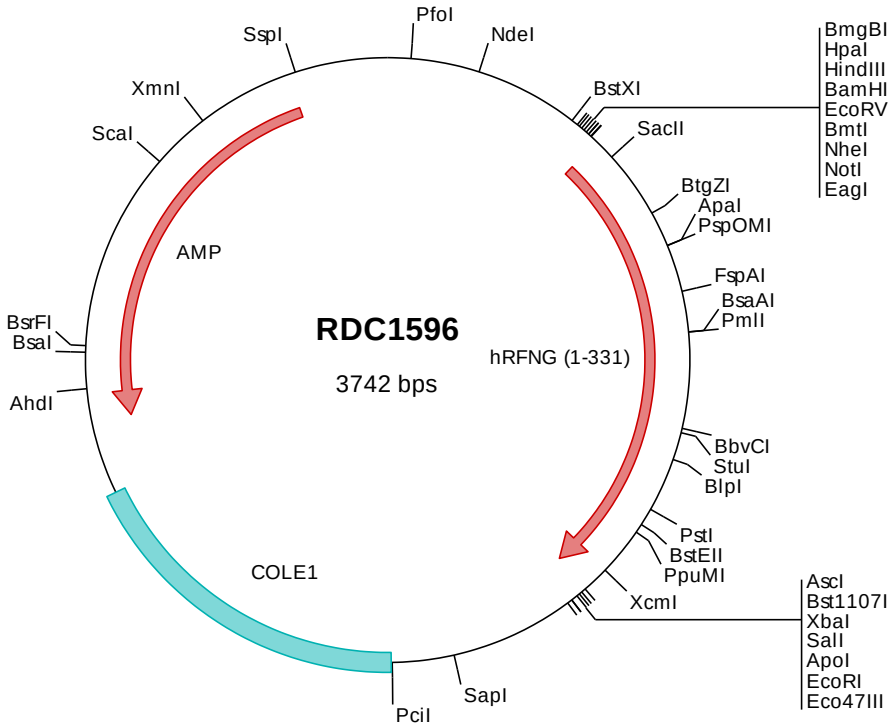
Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*RFNG cDNA Plasmid

RFNG RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [*Homo sapiens* (human)]

Summary:
RFNG is a member of the glucosyltransferase 31 family of enzymes. It is a nonsecreted Golgi membrane protein that likely transfers beta -D-acetylglucosamine to an O-linked fucose residue on Notch. Activity on Notch increases downstream signaling following both Delta-1 and Jagged-1 binding. RFNG is expressed in differentiated fetal tissues such as liver, skin epithelium and migrating neurons. It is also expressed in adult neurons where its activity may actually inhibit Notch signaling. Alternatively spliced transcripts encoding different proteins have been described.



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NOT FOR USE IN HUMANS

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> RDC1596 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgagccgcg cgcgtggggc gctgtgccgg gcctgcctcg cgctggccgc
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1601  cctggggtgc ctaatgagtg agctaactca cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaacctgtcg tgccagctgc attaatgaat
1701  cggccaacgc gcggggagag gcggtttgcg tattgggcgc tcttccgctt cctcgctcac tgactcgctg cgctcggtcg ttcggctgcg gcgagcggta
1801  tcagctcact caaaggcggt aatacggtta tccacagaat caggggataa cgcaggaaag aacatgtgag caaaaggcca gcaaaaggcc aggaaccgta
1901  aaaaggccgc gttgctggcg tttttccata ggctccgccc ccctgacgag catcacaaaa atcgacgctc aagtcagagg tggcgaaacc cgacaggact
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2901  aactttatcc gcctccatcc agtctattaa ttgttgccgg gaagctagag taagtagttc gccagttaat agtttgcgca acgttgttgc cattgctaca
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3601  tacatatttg aatgtattta gaaaaataaa caaataggg ttccgcgcac atttccccga aaagtgccac ctgacgtcta agaaaccatt attatcatga
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> RDC1596 Translated Insert Sequence

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 101  lelqggdrvi ntncsavrtr qalcckmsve ydkfiesgrk wfchvdddny vnarsllhll ssfspsqdvy lgrpsldhpi eatervqggr tvttvkfwfa
 201  tggagfclsr glalkmspwa slgsfmstae qvrlpddctv gyivegllga rllhsplfhs hlenlqrlpp dtllqqvtls hggpenphnv vnvaggfslh
 301  qdptrfksih cllypdtdwc prqkqgapts r
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