

## Product datasheet for RC229769

### Lunatic Fringe (LFNG) (NM\_002304) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lunatic Fringe (LFNG) (NM_002304) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lunatic Fringe
Synonyms:	SCDO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229769 representing NM_002304 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGACACCAGGTCGCTGCTGTCTTGC GGCTGACATTCAGGTAGAGACGTTTCATCTTCACTGACGGGGAAG  
ATGAGGCCCTGGCCAGGCACACGGGCAACGTGGTCATCACAACCTGCTCGGCCGCCACAGCCGCCAGGC  
GCTGTCTGCAAGATGGCCGTGGAGTATGACCGCTTCATCGAGTCCGGCAGGAAGTGGTTCTGCCACGTG  
GACGATGACAACCTACGTCAACCTGCGGGCCCTGCTGCGGCTGCTGGCCAGCTACCCGCACACGCGGGACG  
TCTACGTCCGCAAGCCCAGCCTGGACAGGCCCATCCAGGCCATGGAGCGGGTCCAGCGAGAACAAGGTGCG  
TCCTGTCCACTTCTGGTTTGCCACGGGGCGCGCTGGCTTCTGCATCAGCCGTGGGCTGGCTCTGAAGATG  
AGCCCGTGGGCCAGCGGGGGTCACTTCATGAATACGGCTGAGCGGATCCGGCTGCCTGATGACTGCACCA  
TCGGCTACATCGTGGAGGCCCTGCTGGGTGTGCCCTCATCCGCAGCGGCCTCTTCCACTCCCACCTGGA  
GAACCTGCAGCAGGTGCCACCTCGGAGCTCCACGAGCAGGTGACGCTGAGCTACGGTATGTTTTGAAAC  
AAGCGAACCGCTCCACGTGAAGGGCCCTTCTCGGTGGAGGCCGACCCATCCAGGTCCGCTCCATCC  
ACTGCCACCTGTACCCGGACACACCTGGTGTCCCGCACTGCCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)



**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\\_002304.2](#), [NP\\_002295.1](#)

**RefSeq ORF:** 753 bp

**Locus ID:** 3955

**UniProt ID:** [Q8NES3](#)

**Cytogenetics:** 7p22.3

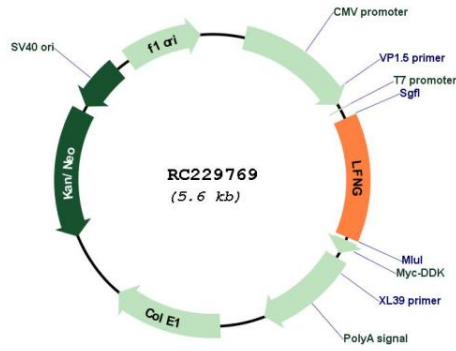
**Protein Families:** Transmembrane

**Protein Pathways:** Notch signaling pathway

**MW:** 28.6 kDa

**Gene Summary:** This gene is a member of the glycosyltransferase 31 gene family. Members of this gene family, which also includes the MFNG (GeneID: 4242) and RFNG (GeneID: 5986) genes, encode evolutionarily conserved glycosyltransferases that act in the Notch signaling pathway to define boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, these proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch signaling. The protein encoded by this gene is predicted to be a single-pass type II Golgi membrane protein but it may also be secreted and proteolytically processed like the related proteins in mouse and Drosophila (PMID: 9187150). Mutations in this gene have been associated with autosomal recessive spondylocostal dysostosis 3. [provided by RefSeq, May 2018]

Product images:



Circular map for RC229769