Recombinant Human LFNG

Cat. No. LFNG-29854TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Lunatic Fringe, isoform 2 with N terminal proprietary tag; Predicted MW 53.24 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	250 amino acids
Description	This gene is a member of the fringe gene family which also includes radical and mani c fringe genes. They all 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, fringe protein s have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads t o elongation of O-linked fucose residues on Notch, which alters Notch signaling. This gene product is predicted to be a single-pass type II Golgi membrane protein but it m ay also be secreted and proteolytically processed like the related proteins in mouse a nd Drosophila (PMID: 9187150). Mutations in this gene have been associated with au tosomal recessive spondylocostal dysostosis 3. Multiple transcript variants encoding d ifferent isoforms have been found for this gene.
Molecular Weight	53.240kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MTPGRCCLAADIQVETFIFTDGEDEALARHTGNVVITNCS AAHSRQALSCKMAVEY DRFIESGRKWFCHVDDDNYVNLRA LLRLLASYPHTRDVYVGKPSLDRPIQAMERVS ENKVRPVH FWFATGGAGFCISRGLALKMSPWASGGHFMNTAERIRLPD DCTIGYIV EALLGVPLIRSGLFHSHLENLQQVPTSELHEQ VTLSYGMFENKRNAVHVKGPFSVE ADPSRFRSIHCHLYPD TPWCPRTAIF
Sequence Similarities	Belongs to the glycosyltransferase 31 family.

GENE INFORMATION

Gene Name	LFNG LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Homo sapiens]
Official Symbol	LFNG
Synonyms	LFNG; LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase; lunatic fringe (Drosophila) homolog , lunatic fringe homolog (Drosophila); beta-1,3-N-acetylglucosaminyltransferase lunatic fringe; SCDO3;
Gene ID	3955
mRNA Refseq	NM_001040167

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Protein Refseq	NP_001035257
MIM	602576
Uniprot ID	Q8NES3
Chromosome Location	7p22.3
Pathway	Delta-Notch Signaling Pathway, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch signaling pathway, conserved biosystem; Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem;
Function	O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase activity; molecular_function; transferase activity, transferring glycosyl groups;

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