OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR224420L3V

Lfng (NM_008494) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Lfng (NM_008494) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Lfng
Synonyms:	AW061165
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_008494
ORF Size:	1137 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224420).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_008494.3, NP_032520.1
RefSeq Size:	2299 bp
RefSeq ORF:	1137 bp
Locus ID:	16848
UniProt ID:	O09010
Cytogenetics:	5 79.15 cM

View online »

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 inhibition of NOTCH1 activation by JAG1 and enhancement of NOTCH1 activation by DLL1 via an increase in its binding to DLL1 (PubMed:28089369). Decreases the binding of JAG1 to NOTCH2 but not that of DLL1 (By similarity). Essential mediator of somite segmentation and patterning. During somite boundary formation, it restricts Notch activity in the presomitic mesoderm to a boundary-forming territory in the posterior half of the prospective somite. In this region, Notch function activates a set of genes that are involved in boundary formation and in anterior-posterior somite identity (PubMed:10330372). Ectopically expressed in the thymus, Lfgn inhibits Notch signaling which results in inhibition of T-cell commitment and promotes B-cell development in lymphoid progenitors (PubMed:11520458). May play a role in boundary formation of the enamel knot (PubMed:12167404).[UniProtKB/Swiss-Prot Function]