

## Product datasheet for **MC208877**

### Lfng (NM\_008494) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lfng (NM\_008494) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lfng  
**Synonyms:** AW061165  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208877 representing NM\_008494  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTCCAGCGGTGCGGCCGGCGCTGCTGCTGGCGCTGGTGGGCGCGCTGTTGGCTTGCTCCTGGTGC  
TCACGGCCGACCCGCCACCGACTCCGATGCCCGCTGAGCGGGACGGCGCGCTGCGTAGCCTGGCGGG  
CTCCTCTGGAGGAGCTCCGGCTCAGGGTCCAGGGCGGCTGTGGATCCCGGAGTCTCACCCGCGAGGTG  
CATAGCCTCTCCGAGTACTTCAGTCTACTACCCGCGCGCGCAGAGACCGGGATCCACCCGCCGGGTGC  
TTCTCGCCAGGGCGACGGCCATCCGCGTCCCCCGCCGAAGTCTGTCCCTCGCGACGCTTTCATCGC  
CGTCAAGACCACCAGAAAGTTTACCAGCGCGCGGCTCGATCTGCTGTTGAGACCTGGATCTCGGCCAC  
AAGGAGATGACGTTTACTTCACTGATGGGGAGGACGAAGCTCTGGCCAAGCTCACAGGCAATGTGGTGC  
TCACCAACTGCTCCTCGGCCACAGCCGCCAGGCTCTGTCCTGCAAGATGGCTGTGGAGTATGACCGATT  
CATTGAGTCTGGGAAGAAGTGGTCTGCCACGTGGATGATGACAACCTACGTCACCTCCGGGCGCTGCTG  
CGGCTCCTGGCCAGCTATCCCCACCCAAGACGTGTACATCGCAAGCCAGCCTGGACAGGCCATCC  
AGGCCACAGAACGGATCAGCGAGCACAAAGTGAGACCTGTCCACTTTTGGTTTGGCACCAGGAGGCTGG  
CTTCTGCATCAGCCGAGGCTGGCCCTAAAGATGGGCCCATGGCCAGTGGAGGACACTTCATGAGCAGG  
GCAGAGCGCATCCGGCTCCCGATGACTGCACCATTGGCTACATTGTAGAGGCTCTGCTGGTGTACCCC  
TCATCCGGAGCGGCTTCCACTCCCACCTAGAGAACCTGCAGCAGGTGCCACCACCGAGCTTCATGA  
GCAGGTGACCCTGAGCTATGGCATGTTTGAGAACAAGCGGAACGCAGTGCACATCAAGGGACCTTCTCT  
GTGGAAGTGAACCATCCAGTTCCGCTCTGTCCATTGCCACCTGTACCCAGACACCCCTGGTGTCTCTC  
GCTCCGCATCTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul



[View online >](#)

<b>ACCN:</b>	NM_008494
<b>Insert Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_008494.3</a></u> , <u><a href="#">NP_032520.1</a></u>
<b>RefSeq Size:</b>	2299 bp
<b>RefSeq ORF:</b>	1137 bp
<b>Locus ID:</b>	16848
<b>UniProt ID:</b>	<u><a href="#">O09010</a></u>
<b>Cytogenetics:</b>	5 79.15 cM
<b>Gene Summary:</b>	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, Lfng 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]