

## Product datasheet for **SC122900**

### Lefty (LEFTY1) (NM\_020997) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lefty (LEFTY1) (NM_020997) Human Untagged Clone
Tag:	Tag Free
Symbol:	LEFTY1
Synonyms:	LEFTB; LEFTYB
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >OriGene sequence for NM\_020997 edited  
 TGAGACCTCCTGCAGCCTTCTCAAGGGACAGCCCACTCTGCCTCTTGCTCCTCCAGGG  
 CAGCACCATGCAGCCCCTGTGGCTCTGCTGGGCACTCTGGGTGTTGCCCTGGCCAGCCC  
 CGGGCCGCCCTGACCGGGGAGCAGCTCCTGGGCAGCCTGCTGCGGCAGCTGCAGCTCAA  
 AGAGGTGCCACCCCTGGACAGGGCCGACATGGAGGAGCTGGTCATCCCCACCCACGTGAG  
 GGCCAGTACGTGGCCCTGCTGCAGCGCAGCCACGGGGACCGCTCCCGGAAAGAGGTT  
 CAGCCAGAGCTTCCGAGAGGTGGCCGGCAGGTTCTGGCGTTGGAGGCCAGCACACACCT  
 GCTGGTGTTCGGCATGGAGCAGCGGCTGCCGCCAACAGCGAGCTGGTGCAGGCCGTGCT  
 GCGGCTCTTCCAGGAGCCGGTCCCAAGGCCGCGCTGCACAGGCACGGGGCGGCTGTCCC  
 GCGCAGCGCCCGGGCCGGGTGACCGTCGAGTGGCTGCGCGTCCGCGACGACGGCTCAA  
 CCGCACCTCCCTCATCGACTCCAGGCTGGTGTCCGTCCACGAGAGCGGCTGGAAGCCTT  
 CGACGTGACCGAGGCCGTGAACCTTCTGGCAGCAGCTGAGCCGGCCCGGCAGCCGCTGCT  
 GCTACAGTGTGCGTGCAGAGGGAGCATCTGGGCCGCTGGCGTCCGGCGCCACAAGCT  
 GGTCCGCTTTGCCTCGCAGGGGGCCAGCCGGGCTTGGGGAGCCCAAGCTGGAGCTGCA  
 CACCCTGGACCTTGGGGACTATGGAGCTCAGGGCGACTGTGACCTGAAGCACCATGAC  
 CGAGGGCACCCGCTGCTGCCGCCAGGAGATGTACATTGACCTGCAGGGGATGAAGTGGGC  
 CGAAGCTGGGTGCTGGAGCCCCGGGTTCTGGCTTATGAGTGTGTGGGCACCTGCCG  
 GCAGCCCCCGGAGGCCCTGGCCTTCAAGTGGCCGTTTCTGGGCCTCGACAGTGCATCGC  
 CTCGGAGACTGACTCGCTGCCATGATCGTCAGCATCAAGGAGGGAGGCAGGACCAGGCC  
 CCAGGTGGTCAGCCTGCCAACATGAGGGTGCAGAAGTGCAGCTGTGCCTCGGATGGTGC  
 GCTCGTGCCAAGGAGGCTCCAGCCATAGGCGCCTAGTGTAGCCATCGAGGGACTTGACTT  
 GTGTGTGTTTCTGAAGTGTTCGAGGGTACCAGGAGAGCTGGCGATGACTGAACTGCTGAT  
 GGCAAAATGCTCTGTGCTCTCTAGTGAGCCCTGAATTTGCTTCCCTGACAAGTTACCTC  
 ACCTAATTTTTGCTTCTCAGGAATGAGAATCTTTGGCCACTGGAGAGCCCTTGCTAGTT  
 TTCTCTATTCTTATTACTGCACTATATTCTAAGCACTTACATGTGGAGATACTGTA  
 ACTTGAGGGCAGAAAGCCCAATGTGTCATTGTTACTTGTCTGTCACTGGATCTGGGCT  
 AAAGTCTCCACCACCACTCTGGACCTAAGACCTGGGGTTAAGTGTGGGTGTGCATCCC  
 CAATCCAGATAATAAAGACTTTGTAACATGAATAAACACATTTTATTCTAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_020997 unedited  
 NNAAGTTCGAATTTGTATACGACTCATATAGGCGCCCGNATCCCGGGATTGAGACCC  
 TCCTGCAGCCTTCTCAAGGACAGCCCACTCTGCCTCTTGCTCCTCCAGGGCAGCACCAT  
 GCAGCCCCCTGTGGCTCTGCTGGGCACTCTGGGTGTTGCCCTGGCCAGCCCCGGGGCCGC  
 CCTGACCGGGGAGCAGCTCCTGGGCAGCCTGCTGCGGCAGCTGCAGCTCAAAGAGGTGCC  
 CACCCTGGACAGGGCCGACATGGAGGAGCTGGTCATCCCCACCCACGTGAGGGCCAGTA  
 CGTGGCCCTGCTGCAGCGCAGCCACGGGACCGCTCCCGCGAAAGAGGTTACGCCAGAG  
 CTTCCGAGAGGTGGCCGGCAGGTTCTGGCGTTGGAGGCCAGCACACCTGTGGTGT  
 CGGCATGGAGCAGCGGCTGCCGCCAACAGCGAGCTGGTGCAGGCCGTGCTGCGGCTCTT  
 CCAGGAGCCGGTCCCAAGGCCGCGCTGCACAGGCACGGGCGGCTGTCCCGCGCAGCGC  
 CCGGGCCCGGTTACCGTCGAGTGGCTGCGCGTCCGCGACGACGGCTCCAACCGCACCTC  
 CCTCATCGACTCCAGGCTGGTGTCCGTCCACGAGAGCGGCTGGAAGGCCTTCGACGTGAC  
 CGAGGCCGTGAACCTTCTGGCAGCAGCTGAGCCGGCCCGGCAGCCGCTGCTGCTACAGGT  
 GTCGGTGCAGAGGGAGCATCTGGGCCCGCTGGCGTCCGGCGCCACAAGCTGGTCCGCTT  
 TGCCTCGCAGGGGCGCCAGCCGGGCTTTGGGAGCCCAAGCTGGAGCTGCACACCTGGAC  
 CTTGGGGACTATGGAGCTCANGGCGACTGTGACCTGAAGCACCATGACCGAGGGCACCG  
 C

**Restriction Sites:** Please inquire  
**ACCN:** NM\_020997  
**Insert Size:** 1644 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>	<a href="#">NM_020997.2</a> , <a href="#">NP_066277.1</a>
<b>RefSeq Size:</b>	1647 bp
<b>RefSeq ORF:</b>	1101 bp
<b>Locus ID:</b>	10637
<b>UniProt ID:</b>	<a href="#">O75610</a>
<b>Cytogenetics:</b>	1q42.12
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	TGF-beta signaling pathway
<b>Gene Summary:</b>	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate the mature protein, which plays a role in left-right asymmetry determination of organ systems during development. This gene is closely linked to both a related family member and a related pseudogene. [provided by RefSeq, Aug 2016]