

Product datasheet for **MC201921**

Lefty2 (NM_177099) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lefty2 (NM_177099) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lefty2
Synonyms:	6030463A22Rik; Eba; Ebaf; Left; Lefta; Leftb; lefty-2; lefty-B
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC066224 sequence for NM_177099
 GTCCCAAGAACTTTTCAGGGCACTTTTAGGGACGCATATATCCACGATTCTCCTGGGCAGCGCCATGAA
 GTCCCTGTGGCTTTGCTGGGCACTCTGGGTACTGCCCTGGCTGGCCCTGGGGCAGCGATGACCGAGGAA
 CAGGTCCTGAGCAGTCTACTGCAGCAGCTGCAGCTCAGCCAGGCCCCACCCTGGACAGCGCGGATGTGG
 AGGAGATGGCCATCCCTACCCACGTGAGGTCCCAGTATGTGGCCCTGTGCAGGGAAGTCACGCTGACCG
 CTCCCAGGCAAGAGGTTTCAGCCAGAATTTTCGAGAGGTGGCAGGCAGGTTCTGTATGTCAGAGACCTCC
 ACTCACCTGTAGTGTTCGGAATGGAGCAGCGGCTGCCGCTAACAGCAGCTGGTGCAGGCTGTGCTGC
 GGCTGTTCCAGGAGCCTGTGCCAGAACAGCTCTCCGGAGGTTTGAGAGGCTGTCCCACACAGTGCCCG
 GGCTCGGGTACCATTGAATGGCTGAGAGTCCGTGAGGATGGCTCCAATCGCACTGCCCTCATCGACTCT
 AGGCTCGTGTCCATCCACGAGAGCGGCTGGAAGGCCTTCGACGTGACCGAGGCCGTGAACTTCTGCAGC
 AGCTGAGCCGGCCGAGGCAGCCGCTGCTGCTCCAGGTGTCGGTGCAGAGGGAGCATCTGGGGCCGGGAC
 CTGGAGCGCACACAAGTTGGTCCGTTTCGCGGCGCAGGGGACGCCGACGGCAAGGGGCAGGGCAGCCA
 CAGCTGGAGCTGCACACGCTGGACCTCAAGGACTACGGAGCTCAAGGCAATTGTGACCCGAGGTACCAG
 TGAAGGACACCCGATGCTGTGCCAGGAGATGTACCTGGACCTGCAGGGGATGAAGTGGGCCGAGAA
 CTGGATCTAGAACC GCCAGGGTCTCTGACGTATGAATGTGTGGCAGCTGCCTGCAGCTACCAGAGTCC
 CTGACCATCGGGTGGCCATTTCTGGGGCTCGGCAGTGTGTTGCCTCAGAGATGACCTCCTTGCCCATGA
 TTGTCAAGTGTGAAGGAGGAGGCAGGACCAGGCCCTCAAGTGGTCAAGCTGCCCAACATGAGGGTGCAGAC
 CTGTAGCTGCGCCTCAGATGGGGCGCTCATACCCAGGGGATAGATCTGTAGTCTCCCTGTCCACAGATG
 TATTCTCAGTGAGCTTGTCCCTAACTTAGTGCTCTCGTCAGACCTTTGCTCTACAGTCTTGGTTTTCTTGT
 CCATCACCCAGTTAAGCACTTACATGGGTAATCATGTCACTCCAGTAGGACACACTGACCCCACTTAG
 CCAAGGACATGGCTATGCAGTGAACAGGTTTCGCATCTGAGTCTGTTTTCTGGCCAGAAGTCAAGTAAATG
 TACAACAAAACCTACGGTGAGAACAGGGGAATCAAAAGCTCGTTTACTTTACACCGTGATTACTGGCA
 TCAACGTACCATGTCAGGGACTGCCACAGCAGGCTGGGAGGGAGACATCTCAGAAGCCTGCGGCAGCTC
 CTTGTGAAAAACCGTTGTTCCCATTTCTCCTAACCTTAGCCCTAGACAAGAGCTGTATAGATTTTCATGTG
 TGTGACTGCTTTTCAGTTGGCCTTGGTGTTCATAGTTATTCTATATTATTTGACTTTCCTACTCCTTTCT
 CTTCTGCCCTGGTGAATTCTATGAAACTAGATGTTTCTTGTATGTAATGATTCTTAAACAATAAAAAGT
 TGAGGCATGGGACACAGCACAGCAGCAGTCTGATGGCCAGGTGCATGCTGTAGATGATTCTGTGTGCT
 CTTATCTTGAAACAATGCAATAACTTTGCAATGTTAGTTCAGATTAATGTTTGACTTGCAAAGAAAAGT
 TGAAGAAATTATTAGAAAGTGAATAGAGCCAACACTGGGATCCCGAAAAGAAAAAGCTATTGAAGTTA
 TGAATAAAGTTTTGCACAAAATTTGAGAGTGTTCCTGGATAAGCAAGTATAGAATACATAAAATCTTAT
 ATTAGTAAACTAAGCCAAAACACCGGGACTCTTAGGAGGGTCACTGCGTGAATGTGCAGAAGCAGAAA
 GCTGGCAGAACTCCGAGTTAAGGGTGTACCTGAGTCTTTCTGGCCATTGCCTGGCAGCTTTGCCCATGT
 CATTTATTGTGAGAGCTTACGGGAAAATGCAAGTAGCCGACTTCGGAGCTCTGAGCTCTGGAGTATAAT
 AAGTCAAAAGGTTAAAGTTTAAATAATGATAAGTTTGAATAATTATTTTGGCCAGAGGCCTGGGAAT
 AGGGGAAGCTTGAAGCTTGGGGGAACAATTATAATTCTTGATTCTTTGTGTGATGTGGGTATTGTTTTG
 AATTTGATTTGGCAACGATTATACAATGTCTTTTTTCTATCTGCATTTGGAGTATCAATAAAAGACTG
 GGGCAAGAGAAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_177099

Insert Size: 1107 bp

OTI Disclaimer: 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).

Components: 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).

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: [BC066224](#), [AAH66224](#)

RefSeq Size: 2534 bp

RefSeq ORF: 1107 bp

Locus ID: 320202

UniProt ID: [P57785](#)

Cytogenetics: 1 H4

Gene Summary: 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 protein is also important in self-renewal and differentiation of mouse embryonic stem cells. Mice lacking a functional copy of this gene exhibit defects in axial and left-right patterning. [provided by RefSeq, Aug 2016]