

Product datasheet for **MG205659**

Lefty1 (NM_010094) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lefty1 (NM_010094) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lefty1
Synonyms:	Al450052; Eba; EbaF; Left; Leftb; lefty; lefty-; lefty-1; St; Stra3; Tgfb4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205659 representing NM_010094 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATTCTGTGGCTCTGCTGGGCACTCTGGGCACTGTCGCTGGTTAGCCTCAGGGAAGCCCTGACCG
GAGAGCAGATCCTGGGCAGCCTGCTGCAACAGCTGCAGCTCGATCAACCGCCAGTCTGGACAAGGCTGA
TGTGGAAGGGATGGTCATCCCCTCGCACGTGAGGACTCAGTATGTGGCCCTGCTACAACACAGCCATGCC
AGCCGCTCCCAGGCAAGAGGTTCCAGCCAGAACCTTCGAGAGGTGGCAGGAGGTTCTGGTGTGAGAGA
CCTCCACTCACCTGCTAGTGTTCGGAATGGAGCAGCGGCTGCCGCCTAACAGCGAGCTGGTGCAGGCTGT
GCTGCGGCTGTTCCAGGAGCCTGTGCCAGAACAGCTCTCCGGAGGCAAAGAGGCTGTCCCCACACAGT
GCCCGGGCTCGGGTACCATTGAATGGCTGCGCTTCCGCGACGACGGCTCCAACCGCACTGCCCTTATCG
ATTCTAGGCTCGTGTCCATCCACGAGAGCGGCTGGAAGGCCTTCGACGTGACCGAGGCGGTGAACCTCTG
GCAGCAGCTGAGCCGGCCGAGGCAGCCGCTGCTGCTCCAGGTGTCGGTGCAGAGGGAGCATCTGGGGCCG
GGAACCTGGAGCTCACACAAGTTGGTTCGTTTCGCGGCGCAGGGGACGCCGGATGGCAAGGGGCAGGGCG
AGCCACAGCTGGAGCTGCACACGCTGGACCTCAAGGACTATGGAGCTCAAGGCAATTGTGACCCCGAGGC
ACCAGTGAAGGCACCCGATGCTGTGCCAGGAGATGTACCTGGACCTGCAGGGGATGAAGTGGGCC
GAGAATGGATCCTAGAACCAGGTTCTGACATATGAATGTGGGCGAGCTGCCTGCAGCTACCCG
AGTCCCTGACCAGCAGGTGGCCATTTCTGGGGCCTCGGCAGTGTGTCGCTCAGAGATGACCTCCCTGCC
CATGATTGTGAGCGTGAAGGAGGAGGCAGGACCAGGCCCAAGTGGTGCAGCTGCCAACATGAGGGTG
CAGACCTGTAGCTGCGCCTCAGATGGGGCGCTCATACCCAGGAGGCTGCAGCCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205659 representing NM_010094
 Red=Cloning site Green=Tags(s)

MPFLWLCWALWALSLSVSLREALTGEQILGSLQLQQLDQPPVLDKADVEGMVIPSHVRTQYVALLQHS
 SRSRGKRFSQLNREVAGRFLVSETSTHLLVFGMEQRLPPNSELVQAVLRFLFQEPVPRALRRQKRLSPHS
 ARARVTIEWLRFRRDDGSNRTALIDSRLVSIHESGWKAFDVTEAVNFWQQLSRPRQPLLLQVSVQREHLGP
 GTWSSHKLVRFAAQGTDPDGKQGQEPQLELHTLDLKDYGAGQNCDEAPVTEGTRCCRQEMYLDLQGMKWA
 ENWILEPPGFLTYECVGSCLQLPESLTSRWPFLGPRQCVASEMTSLPMIVSVKEGGRTRPQVVSPLNMRV
 QTCSCASD GALIPRRLLQP

TRTRPLE - GFP Tag - V

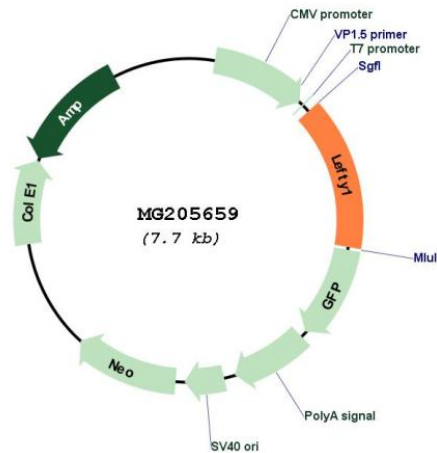
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_010094

ORF Size:	1104 bp
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.
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:	<ol style="list-style-type: none">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:	NM_010094.4
RefSeq Size:	1622 bp
RefSeq ORF:	1107 bp
Locus ID:	13590
UniProt ID:	Q64280
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. Mice lacking a functional copy of this gene exhibit embryonic lethality and defects in left-right patterning. [provided by RefSeq, Aug 2016]