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Product datasheet for MG205670

Lefty2 (NM_177099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lefty2 (NM_177099) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lefty2
Synonyms:	6030463A22Rik; Eba; Ebaf; Left; Lefta; Leftb; lefty-2; lefty-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205670 representing NM_177099
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTCCCTGTGGCTTTGCTGGGCACTCTGGGTACTGCCCCTGGCTGGCCCTGGGGCAGCGATGACCG
AGGAACAGGTCCTGAGCAGTCTACTGCAGCAGCTGCAGCTCAGCCAGGCCCCCACCCTGGACAGCGCGGA
TGTGGAGGAGATGGCCATCCCTACCCACGTGAGGTCCCAGTATGTGGCCCTGCTGCAGGGAAGTCACGCT
GACCGCTCCCGAGGCAAGAGGTTCAGCCAGAATTTTCGAGAGGTGGCAGGCAGGTTCCTGATGTCAGAGA
CCTCCACTCACCTGCTAGTGTTCGGAATGGAGCAGCGGCTGCCGCCTAACAGCGAGCTGGTGCAGGCTGT
GCTGCGGCTGTTCCAGGAGCCTGTGCCCAGAACAGCTCTCCGGAGGTTTGAGAGGCTGTCCCCACACAGT
GCCCGGGCTCGGGTCACCATTGAATGGCTGAGAGTCCGTGAGGATGGCTCCAATCGCACTGCCCTCATCG
ACTCTAGGCTCGTGTCCATCCACGAGAGCGGCTGGAAGGCCTTCGACGTGACCGAGGCCGTGAACTTCTG
GCAGCAGCTGAGCCGGCCGAGGCAGCCGCTGCTGCTCCAGGTGTCGGTGCAGAGGGAGCATCTGGGGCCG
GGGACCTGGAGCGCACACAAGTTGGTCCGTTTCGCGGCGCAGGGGACGCCGGACGGCAAGGGGCAGGGCG
AGCCACAGCTGGAGCTGCACACGCTGGACCTCAAGGACTACGGAGCTCAAGGCAATTGTGACCCCGAGGT
ACCAGTGACTGAAGGCACCCGATGCTGTCGCCAGGAGATGTACCTGGACCTGCAGGGGATGAAGTGGGCC
GAGAACTGGATCCTAGAACCGCCAGGGTTCCTGACGTATGAATGTGTGGGCAGCTGCCTGCAGCTACCAG
AGTCCCTGACCATCGGGTGGCCATTTCTGGGGCCTCGGCAGTGTGTTGCCTCAGAGATGACCTCCTTGCC
CATGATTGTCAGTGTGAAGGAGGGAGGCAGGACCAGGCCTCAAGTGGTCAGCCTGCCCAACATGAGGGTG
CAGACCTGTAGCTGCGCCTCAGATGGGGCGCTCATACCCAGGGGGATAGATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

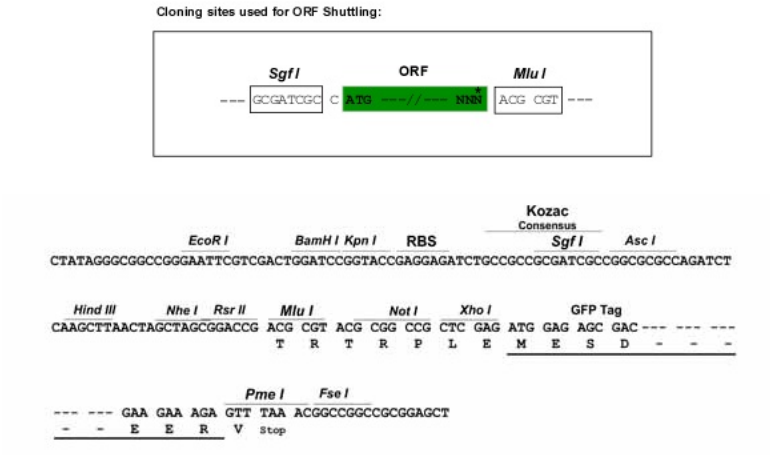
>MG205670 representing NM_177099
Red=Cloning site Green=Tags(s)

MKSLWLCWALWVLPLAGPGAAMTEEQVLSSLLQQLQLSQAPTLDSADVEEMAIPTHVRSQYVALLQGSHA
DRSRGKRFSQNFREVAGRFLMSETSTHLLVFGMEQRLPPNSELVQAVLRLFQEPVPRTALRRFERLSPHS
ARARVTIEWLRVREDGSNRTALIDSRLVSIHESGWKAFDVTEAVNFWQQLSRPRQPLLLQVSVQREHLGP
GTWSAHKLVRFAAQGTPDGKGQGEPQLELHTLDLKDYGAQGNCDPEVPVTEGTRCCRQEMYLDLQGMKWA
ENWILEPPGFLTYECVGSCLQLPESLTIGWPFLGPRQCVASEMTSLPMIVSVKEGGRTRPQVVSLPNMRV
QTCSCASDGALIPRGIDL

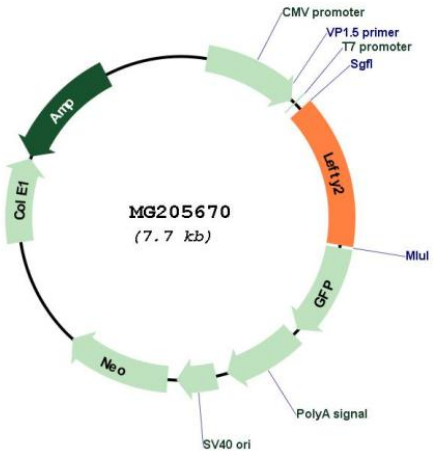
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177099

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:	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_177099.4
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]