

Product datasheet for **MG226899**

Lef1 (NM_010703) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lef1 (NM_010703) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lef1
Synonyms: 3000002B05; AI451430; Lef-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226899 representing NM_010703
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCAACTTTCGGAGGAGGCGGGGGGGACCCGGAACCTCTGCGCCACCGATGAGATGATCCCT
 TCAAGGACGAAGGCGATCCCCAGAAGGAGAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAGGGCGA
 CTTAGCCGACATCAAGTCATCTTTGGTTAACGAGTCCGAAATCATCCAGCCAGCAACGGGCATGAGGTG
 GTCAGACAAGCCCGTCCTCTCAGGAGCCCTACCAGACAAGGCCAGAGAACACCCTGATGAAGGAAAGC
 ATCCAGACGGAGGCTGTACAACAAGGGACCCTCTACTCCAGTTACTCTGGCTACATAATGATGCCCAA
 TATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTTCACCCATCCCGAGGACATCAATAAAGTG
 CCCGTGGTGCAGCCCTCTCACGCGGTCCACCCGCTCACCCCTCATCACCTACAGCGACGAGCACTTTT
 CTCCGGGATCCCACCCGTACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTCCAGACACCCCTCC
 AGCTCCTGAAATCCCACCTTCTACCCCTGTCTCCGGGCGGCGTTGGACAGATCACCCACCCATTGGC
 TGGCAAGGTCAGCCTGTTTATCCCATCACGGGTGGATTGAGGCAACCCTACCCATCCTCACTGTCAGGCG
 ACACCTCCATGTCCAGGTTTTCCCATCATATGATTCTGGTCCCCTGGCCCCACACAAGGCTGATCCC
 TCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAGCACCCCAACAGGACAGTGACCTAATGCACGTG
 AAGCCTCAACACGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCATATTAAGAAGCCTCTGAATGCTT
 TCATGTTATATATGAAAGAAATGAGAGCGAATGTCGTAGCTGAGTGCACGCTAAAGGAGAGTGCAGCTAT
 CAACCAGATCCTGGGCAGAAAGATGGCACGCCCTCTCCCGGAAGAGCAGGCCAAAATACTATGAACTAGCA
 CGGAAAGAGAGACAGCTACACATGCAGCTTTATCCAGGCTGGTACGCGGAGACAATTATGGCAAGAAGA
 AGAAGAGGAAGAGAGAGAAGCTACAGGAGTCGACTTCAGGTACAGGTCCCAGAATGACAGCTGCCTACAT
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226899 representing NM_010703
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MPQLSGGGGGDPELCADEMIPFKDEGDPQKEKIFAEISHPPEEGDLADIKSSLVNESEIIPASNGHEV
 VRQAPSSQEPYHDKAREHPDEGKHPDGGLYNKGPSYSSYSGYIMPMNNSDPYMSNGSLSPPIRPTSNKV
 PVVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMRSRHPAPEIPTFYPLSPGGVGQITPPIG
 WQGQPVVYPIITGGFRQPYPSSLSGDTSMSRF SHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSDLMHV
 KPQHEQRKEQEPKRPHIKKPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELA
 RKERQLHMQLYPGWSARDNYGKKKKRKRKLEKLESTSGTGPRMTAAYI

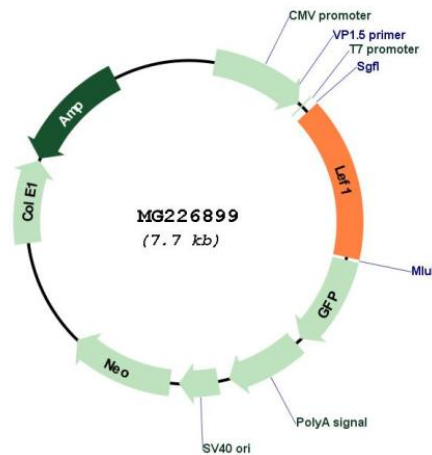
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010703

ORF Size:	1191 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_010703.4
RefSeq Size:	2460 bp
RefSeq ORF:	1194 bp
Locus ID:	16842
UniProt ID:	P27782
Cytogenetics:	3 60.78 cM
Gene Summary:	Participates in the Wnt signaling pathway. Activates transcription of target genes in the presence of CTNNB1 and EP300. May play a role in hair cell differentiation and follicle morphogenesis. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by LEF1 and CTNNB1 (By similarity). Regulates T-cell receptor alpha enhancer function. Binds DNA in a sequence-specific manner. PIASG antagonizes both Wnt-dependent and Wnt-independent activation by LEF1.[UniProtKB/Swiss-Prot Function]