

## Product datasheet for **MC227075**

### Lef1 (NM\_001276403) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lef1 (NM\_001276403) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lef1  
**Synonyms:** 3000002B05; AI451430; Lef-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227075 representing NM\_001276403  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCAGGGGTGGTCAGACAAGCCCCGTCCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCTG  
ATGAAGGAAAGCATCCAGACGGAGGCTGTACAACAAGGGACCCTCTACTCCAGTTACTCTGGCTACAT  
AATGATGCCCAATATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTTCTCCACCCATCCCGAGGACA  
TCAAATAAAGTGCCCGTGGTGCAGCCCTCTCACGCGGTCCACCCGCTCACCCCTCATCACCTACAGCG  
ACGAGCACTTTTCTCCGGATCCACCCGTCACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTC  
CAGACACCCTCCAGCTCCTGAAATCCCCACCTTACCCCTGTCTCCGGGCGGGTGGACAGATCACC  
CCACCCATTGGCTGGCAAGGTCAGCCTGTTTATCCCATCACGGGTGGATTAGGCAACCCTACCCATCCT  
CACTGTCAGGCGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCTGGTCCCTCCGCCCCACAC  
AACTGGCATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAGCACCCACACGGACAGTGAC  
CTAATGCACGTGAAGCCTCAACACGAACAGAGAAAGGAGCAGGAGCCCAAAGACCTCATATTAAGAAGC  
CTCTGAATGCTTTTCATGTTATATGAAAGAAATGAGAGCGAATGTCGTAGCTGAGTGCACGCTAAAGGA  
GAGTGCAGCTATCAACCAGATCCTGGGCAGAAGATGGCAGCCCTCTCCGGGAAGAGCAGGCCAAATAC  
TATGAACTAGCACGAAAAGAGAGACAGCTACACATGCAGCTTTATCCAGGCTGGTCAGCGGAGACAATT  
ATGGCAAGAAGAAGAAGAGGAAGAGAGAGAAGCTACAGGAGTCGACTTCAGGTACAGGTCCAGAATGAC  
AGCTGCCTACAT**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276403



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<b>Insert Size:</b>	996 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001276403.1</a></u> , <u><a href="#">NP_001263332.1</a></u>
<b>RefSeq Size:</b>	2305 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	16842
<b>Cytogenetics:</b>	3 60.78 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate 5' exon and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (c) is shorter and has a distinct N-terminus, compared to isoform a.</p>