

Product datasheet for MC227420

Lef1 (NM_001276402) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lef1 (NM_001276402) 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: >MC227420 representing NM_001276402
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCAACTTCCGGAGGAGGCGGGGGGGACCCGGAACCTCGGCCACCGATGAGATGATCCCT
 TCAAGGACGAAGGCGATCCCCAGAAGGAGAAGATCTTCGCCGAGATCAGTCATCCGAAGAGGAGGGCGA
 CTTAGCCGACATCAAGTCATCTTTGGTTAACGAGTCCGAAATCATCCAGCCAGCAACGGGCATGAGGTG
 GTCAGACAAGCCCGTCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACCCTGATGAAGGAAAGC
 ATCCAGACGGAGGCTGTACAACAAGGGACCCTCTACTCCAGTTACTCTGGCTACATAATGATGCCCAA
 TATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTTCTCCACCCATCCCGAGGACATCAAATAAAGTG
 CCCGTGGTGCAGCCCTCTCACGCGGTCCACCCGCTCACCCCTCATCACCTACAGCGACGAGCACTTTT
 CTCCGGGATCCCACCCGTACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTCCAGACACCCCTC
 AGCTCTGAAATCCACCTTCTACCCCTGTCTCCGGGCGGCGTTGGACAGATCACCCACCCATTGGC
 TGGTTTTCCCATCATATGATTCCTGGTCCCTGGCCCCACACAACCTGGCATCCCTCATCCAGCTATTG
 TAACACCTCAGGTCAAACAGGAGCACCCACACGGACAGTGACCTAATGCACGTGAAGCCTCAACACGA
 ACAGAGAAAGGAGCAGGAGCCAAAAGACCTCATATTAAGAAGCCTCTGAATGCTTTTCATGTTATATG
 AAAGAAATGAGAGCGAATGTCGTAGCTGAGTGCACGCTAAAGGAGAGTGCAGCTATCAACCAGATCCTGG
 GCAGAAGATGGCAGCCCTCTCCGGGAAGAGCAGGCCAAATACTATGAACTAGCACGGAAAGAGAGACA
 GCTACACATGCAGCTTTATCCAGGCTGGTCAGCGGAGACAATTATGGCAAGAAGAAGAAGGAAGAGA
 GAGAAGCTACAGGAGTCGACTTCAGGTGGTAAGAGAAGCTCCTTCCCAACGTGCAAGCCAAGGCAGCGA
 CCCAGGCCCTCTCTGGAGATGGAAGCTTGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001276402
Insert Size:	1155 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001276402.1</u> , <u>NP_001263331.1</u>
RefSeq Size:	3532 bp
RefSeq ORF:	1155 bp
Locus ID:	16842
Cytogenetics:	3 60.78 cM
Gene Summary:	<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 (2) lacks an in-frame exon in the internal coding region and lacks an exon in the 3' coding region which results in the use of a downstream stop codon, compared to variant 1. The encoded isoform (b) is shorter and has a distinct C-terminus, compared to isoform a.</p>