

## Product datasheet for MR229631

### Lef1 (NM\_001276402) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lef1 (NM_001276402) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lef1
Synonyms:	3000002B05; AI451430; Lef-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229631 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCAACTTCCGGAGGAGGCGGGGGGGACCCGGAACCTGCGCCACCGATGAGATGATCCCT  
TCAAGGACGAAGGCGATCCCCAGAAGGAGAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAGGGCGA  
CTTAGCCGACATCAAGTCATCTTTGGTTAACGAGTCCGAAATCATCCAGCCAGCAACGGGCATGAGGTG  
GTCAGACAAGCCCGTCCTCTCAGGAGCCCTACCAGACAAGGCCAGAGAACACCCTGATGAAGGAAAGC  
ATCCAGACGGAGGCTGTACAACAAGGGACCCTCCTACTCCAGTTACTCTGGCTACATAATGATGCCCAA  
TATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTTCACCCATCCCGAGGACATCAATAAAGTG  
CCCGTGGTGCAGCCCTCTCACGGGTCCACCCGCTCACCCCTCATCACCTACAGCGACGAGCACTTTT  
CTCCGGGATCCCACCCGTACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTCCAGACACCCCTCC  
AGCTCCTGAAATCCCCACCTTCTACCCCTGTCTCCGGGCGGGTGGACAGATCACCCACCCATTGGC  
TGGTTTTCCCATCATATGATTCTGGTCCCCCTGGCCCCACACAACCTGGCATCCCTCATCCAGCTATTG  
TAACACCTCAGGTCAAACAGGAGCACCCACACGGACAGTGACCTAATGCACGTGAAGCCTCAACACGA  
ACAGAGAAAGGAGCAGGAGCCCCAAAAGACCTCATATTAAGAAGCCTCTGAATGCTTTCATGTTATATATG  
AAAGAAATGAGAGCGAATGTCGTAGCTGAGTGCACGCTAAAGGAGAGTGCAGCTATCAACCAGATCCTGG  
GCAGAAGATGGCAGCCCTCTCCCGGAAAGAGCAGGCCAAATACTATGAACTAGCACGGAAGAGAGAGA  
GCTACACATGCAGCTTTATCCAGGCTGGTCAGCGCAGACAATTATGGCAAGAAGAAGAAGGAAGAGA  
GAGAAGCTACAGGAGTCGACTTCAGGTGGTAAGAGAAGCTCCTTCCCAACGTGCAAGGCCAAGGCAGCGA  
CCCCAGGCCCTCTCTGGAGATGGAAGCTTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229631 protein sequence  
 Red=Cloning site Green=Tags(s)

MPQLSGGGGGDPELCADEMIPFKDEGDPQKEKIFAEISHPEEEGLADIKSSLVNESEIIPASNGHEV  
 VRQAPSSQEPYHDKAREHPDEGKHPDGGLYNKGPSYSSYSGYIMPMNNSDPYMSNGSLSPPIRPTSNKV  
 PVVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMSRHPPAPEIPTFYPLSPGGVQITPPIG  
 WFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTHDSDLMHVKPQHEQRKEQEPKRPHIKKPLNAFMLYM  
 KEMRANVVAECTLKEAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKR  
 EKLQESTSGGKRSSFPTCKAKAATPGPILLEMEAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001276402

**ORF Size:** 1155 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\\_001276402.1](#), [NP\\_001263331.1](#)

**RefSeq Size:** 3532 bp

**RefSeq ORF:** 1155 bp

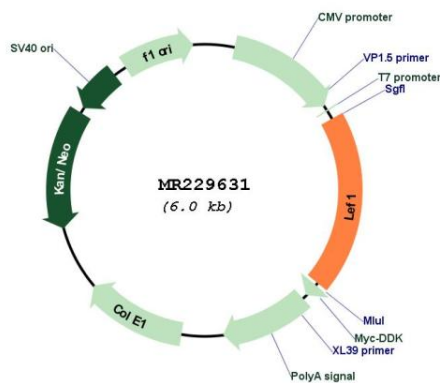
**Locus ID:** 16842

**Cytogenetics:** 3 60.78 cM

**MW:** 42.6 kDa

**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]

### Product images:



Circular map for MR229631