

Product datasheet for MR226899

Lef1 (NM_010703) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lef1 (NM_010703) 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: >MR226899 representing NM_010703
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCAACTTCCGGAGGAGGCGGGGGGGACCCGGAACCTGCGCCACCGATGAGATGATCCCT
 TCAAGGACGAAGGCGATCCCCAGAAGGAGAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAGGGCGA
 CTTAGCCGACATCAAGTCATCTTTGGTTAACGAGTCCGAAATCATCCAGCCAGCAACGGGCATGAGGTG
 GTCAGACAAGCCCGTCCTCTCAGGAGCCCTACCAGACAAGGCCAGAGAACACCCTGATGAAGGAAAGC
 ATCCAGACGGAGGCTGTACAACAAGGGACCCTCTACTCCAGTTACTCTGGCTACATAATGATGCCCAA
 TATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTCTCCACCCATCCCGAGGACATCAATAAAGTG
 CCCGTGGTGCAGCCCTCTCACGCGGTCCACCCGCTCACCCCTCATCACCTACAGCGACGAGCACTTTT
 CTCCGGGATCCCACCCGTACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTCCAGACACCCCTCC
 AGCTCCTGAAATCCCACCTTCTACCCCTGTCTCCGGGCGGCGTTGGACAGATCACCCACCCATTGGC
 TGGCAAGGTCAGCCTGTTTATCCCATCACGGGTGGATTGAGGCAACCCTACCCATCCTCACTGTCAGGCG
 ACACTTCCATGTCCAGGTTTTCCCATCATATGATTCTGGTCCCCTGGCCCCACACAAGGATGCCATCCC
 TCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAGCACCCCAACAGGACAGTGCCTAATGCACGTG
 AAGCCTCAACACGAACAGAGAAAAGGAGCAGGAGCCAAAAGACCTCATATTAAGAAGCCTCTGAATGCTT
 TCATGTTATATATGAAAGAAATGAGAGCGAATGTCGTAGCTGAGTGCACGCTAAAGGAGAGTGCAGCTAT
 CAACCAGATCCTGGGCAGAAAGTGGCACGCCCTCTCCCGGAAGAGCAGGCCAAAATACTATGAACTAGCA
 CGGAAAGAGAGACAGCTACACATGCAGCTTTATCCAGGCTGGTCAGCGGAGACAATTATGGCAAGAAGA
 AGAAGAGGAAGAGAGAGAAGCTACAGGAGTCGACTTCAGGTACAGGTCCCAGAATGACAGCTGCCTACAT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA



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Protein Sequence: >MR226899 representing NM_010703
 Red=Cloning site Green=Tags(s)

MPQLSGGGGGDPELCADEMIPFKDEGDPQKEKIFAEISHPPEEGDLADIKSSLVNESEIIPASNGHEV
 VRQAPSSQEPYHDKAREHPDEGKHPDGGLYNKGPSYSSYSGYIMPMNNDPYSNGSLSPPIPTSNKV
 PVVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMSRHPPAPEIPTFYPLSPGGVQITPPIG
 WQGQPVYPITGGFRQPYPSSLSGDTMSRFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPHDSDMLMHV
 KPQHEQRKEQEPKRPHIKKPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELA
 RKERQLHMQLYPGWSARDNYGKKKKRKRKREKLESTSGTGPRMTAAYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010703

ORF Size: 1191 bp

OTI Disclaimer: 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.

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_010703.4](#)

RefSeq Size: 2460 bp

RefSeq ORF: 1194 bp

Locus ID: 16842

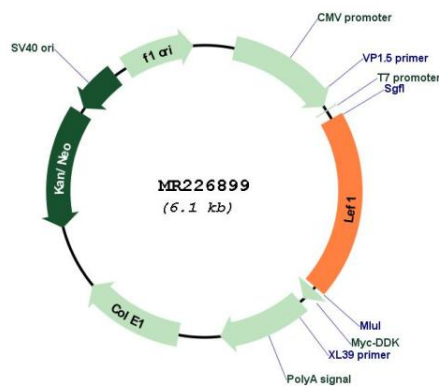
UniProt ID: [P27782](#)

Cytogenetics: 3 60.78 cM

MW: 44.5 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 MR226899