

Product datasheet for **MR229286**

Lef1 (NM_001276403) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lef1 (NM_001276403) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lef1
Synonyms: 3000002B05; AI451430; Lef-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229286 representing NM_001276403
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGGGGTGGTCAGACAAGCCCCGTCCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCTG
ATGAAGGAAAGCATCCAGACGGAGGCTGTACAACAAGGGACCCTCTACTCCAGTTACTCTGGCTACAT
AATGATGCCCAATATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTCTCCACCCATCCCGAGGACA
TCAAATAAAGTGCCCGTGGTGCAGCCCTCTCACGCGGTCCACCCGCTCACCCCTCATCACCTACAGCG
ACGAGCACTTTTCTCCGGGATCCACCCCGTCACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTC
CAGACACCCTCCAGCTCCTGAAATCCCCACCTTACCCCTGTCTCCGGGCGGGCTTGGACAGATCACC
CCACCCATTGGCTGGCAAGGTCAGCCTGTTTATCCCATCACGGGTGGATTAGGCAACCCTACCCATCCT
CACTGTCAGGCGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCTGGTCCCTCCGCCCCACAC
AACTGGCATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAGCACCCACACGGACAGTGAC
CTAATGCACGTGAAGCCTCAACACGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCATATTAAGAAGC
CTCTGAATGCTTTTCATGTTATATGAAAGAAATGAGAGCGAATGTCGTAGCTGAGTGCACGCTAAAGGA
GAGTGCAGCTATCAACCAGATCCTGGGCAGAAGATGGCACGCCCTCTCCGGGAAGAGCAGGCCAAATAC
TATGAACTAGCACGAAAAGAGAGACAGTACACATGCAGCTTTATCCAGGCTGGTCAGCGGAGACAATT
ATGGCAAGAAGAAGAAGAGGAAGAGAGAGAAGCTACAGGAGTCGACTTCAGGTACAGGTCCAGAATGAC
AGCTGCCTACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229286 representing NM_001276403
 Red=Cloning site Green=Tags(s)

MAGVVRQAPSSQEPYHDKAREHPDEGKHPDGGLYNKGPSYSSYSGYIMPMNMSDPYMSNGSLSPPIPR
 SNKVPVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMRSRHPAPEIPTFFYPLSPGGVGOIT
 PPIGWQGPVYPIITGGFRQPYSSLSGDTSMSRF SHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSD
 LMHVKQHEQRKEQEPKRPHIKKPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKY
 YELARKERQLHMQLYPGWSARDNYGKKKKRKRKLEKQESTSGTGRMATAAYI

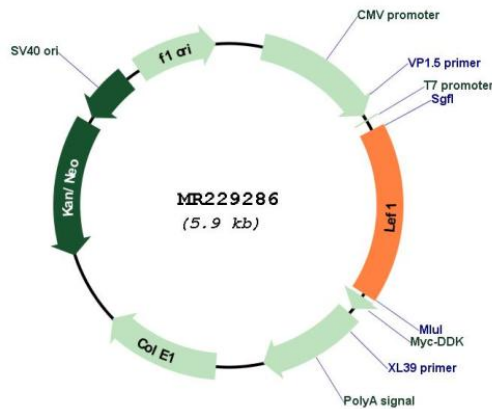
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276403

ORF Size: 993 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:	<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_001276403.1 , NP_001263332.1
RefSeq Size:	2305 bp
RefSeq ORF:	996 bp
Locus ID:	16842
Cytogenetics:	3 60.78 cM
MW:	37.5 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]