

Product datasheet for MR205990

Lef1 (BC057543) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lef1 (BC057543) 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:	>MR205990 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCAACTTCCGGAGGAGGCGGGGGGGACCCGAACTCTGCGCCACCGATGAGATGATCCCT
TCAAGGACGAAGGCGATCCCCAGAAGGAGAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAGGGCGA
CTTAGCCGACATCAAGTCATCTTTGGTTAACGAGTCCGAAATCATCCAGCCAGCAACGGGCATGAGGTG
GTCAGACAAGCCCGTCCTCTCAGGAGCCCTACCAGACAAGGCCAGAGAACACCCTGATGAAGGAAAGC
ATCCAGACGGAGGCTGTACAACAAGGGACCCTCCTACTCCAGTTACTCTGGCTACATAATGATGCCCAA
TATGAACAGCGACCCGTACATGTCAAATGGGTCCCTTTCACCCATCCCGAGGACATCAATAAAGTG
CCCGTGGTGCAGCCCTCTCACGGGTCCACCCGCTCACCCCTCATCACCTACAGCGACGAGCACTTTT
CTCCGGGATCCCACCCGTACACATCCCGTCAGATGTCAACTCCAAGCAAGGCATGTCCAGACACCCCTCC
AGCTCCTGAAATCCCCACCTTCTACCCCTGTCTCCGGGGCGGCTTGGACAGATCACCCACCCATTGGC
TGGTTTTCCCATCATATGATTCTGGTCCCCTGGCCCCACACAACCTGGCATCCCTCATCCAGCTATTG
TAACACCTCAGGTCAAACAGGAGCACCCACACGGACAGTGACCTAATGCAGTGAAGCCTCAACACGA
ACAGAGAAAGGAGCAGGAGCCCCAAAAGACCTCATATTAAGAAGCCTCTGAATGCTTTCATGTTATATG
AAAGAAATGAGAGCGAATGTCGTAGTGCAGCTAAAGGAGAGTGCAGCTATCAACCAGATCCTGG
GCAGAAGATGGCAGCCCTCTCCCGGAAAGAGCAGGCCAAATACTATGAACTAGCACGGAAGAGAGAGA
GCTACACATGCAGCTTTATCCAGGCTGGTCAGCGCAGACAATTATGGCAAGAAGAAGAAGGAAGAGA
GAGAAGCTACAGGAGTCGACTTCAGGTGGTAAGAGAAGCTCCTTCCCAACGTGCAAGCCAAGGCAGCGA
CCCCAGGCCCTCTCTGGAGATGGAAGCTTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205990 protein sequence
 Red=Cloning site Green=Tags(s)

MPQLSGGGGGDPELCADEMIPFKDEGDPQKEKIFAEISHPEEEGLADIKSSLVNESEIIPASNGHEV
 VRQAPSSQEPYHDKAREHPDEGKHPDGGLYNKGPSYSSYSYGYIMPMNNSDPYMSNGSLSPPIPTSNKV
 PVVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMSRHPPAPEIPTFYPLSPGGVQITPPIG
 WFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTHDSLHMVVKQHEQRKEQEPKRPHIKKPLNAFMLYM
 KEMRANVVAECTLKEAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKR
 EKLQESTSGGKRSSFPTCKAKAATPGPILLEMEAC

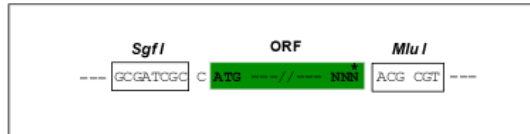
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC057543

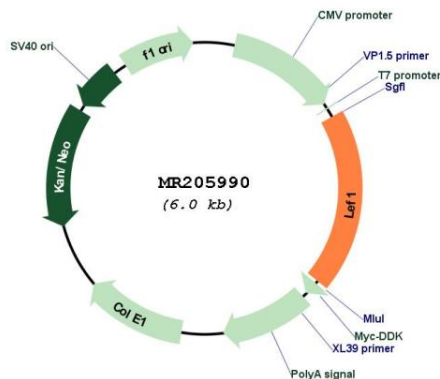
ORF Size: 1152 bp

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:	<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>BC057543</u> , <u>AAH57543</u>
RefSeq Size:	2999 bp
RefSeq ORF:	1154 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 MR205990