

Product datasheet for RC228237

LEF1 (NM_001166119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEF1 (NM_001166119) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LEF1
Synonyms:	LEF-1; TCF1ALPHA; TCF7L3; TCF10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228237 representing NM_001166119 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGAGGTGGCCAGACAAGCACAAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCG
ATGACGGAAAGCATCCAGATGGAGGCCTCTACAACAAGGGACCCTCTACTCGAGTTATTCGGGTACAT
AATGATGCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTCTCCACCCATCCCGAGAACA
TCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCCTCTACCCCCCTCATCACTTACAGTG
ACGAGCACTTTTCTCAGGATCACACCCGTACACATCCCATCAGATGTCAACTCCAACAAGGCATGTC
CAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCTCCGGGTGGTGTGGACAGATCACC
CCACCTCTTGGCTGGTTTTCCCATCATATGATTCCTGGTCCCTCCTGGTCCCCACACAACCTGGCATCCCTC
ATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACTGACAGTGACCTAATGCACGTGAA
GCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCACATTAAGAAGCCTCTGAATGCTTTT
ATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTCTAAAAGAAAGTGACAGTATCA
ACCAGATTCTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAATTAGCAGC
GAAAGAAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAAAAG
AAGAGGAAGAGAGAGAACTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATC

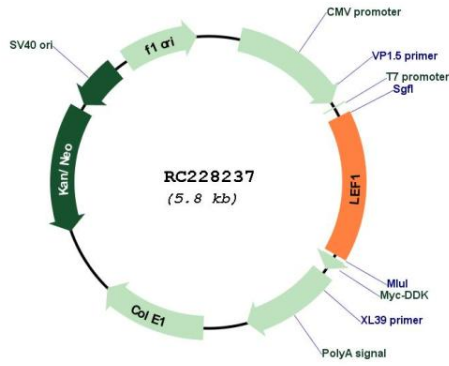
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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>NM_001166119.1, NP_001159591.1</u>
RefSeq ORF:	912 bp
Locus ID:	51176
UniProt ID:	<u>Q9UJU2</u>
Cytogenetics:	4q25
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Melanogenesis, Pathways in cancer, Prostate cancer, Thyroid cancer, Wnt signaling pathway
MW:	33.9 kDa
Gene Summary:	This gene encodes a transcription factor belonging to a family of proteins that share homology with the high mobility group protein-1. The protein encoded by this gene can bind to a functionally important site in the T-cell receptor-alpha enhancer, thereby conferring maximal enhancer activity. This transcription factor is involved in the Wnt signaling pathway, and it may function in hair cell differentiation and follicle morphogenesis. Mutations in this gene have been found in somatic sebaceous tumors. This gene has also been linked to other cancers, including androgen-independent prostate cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC228237