

Product datasheet for **SC325030**

LEF1 (NM_001130714) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEF1 (NM_001130714) Human Untagged Clone
Tag:	Tag Free
Symbol:	LEF1
Synonyms:	LEF-1; TCF1ALPHA; TCF7L3; TCF10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325030 representing NM_001130714. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCAACTCTCCGGAGGAGGTGGCGCGCGGGGGGACCCGGAAGTCTGCGCCACGGACGAGATG
ATCCCCCTCAAGGACGAGGGCGATCCTCAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAG
GAAGGCGATTTAGCTGACATCAAGTCTTCTTGGTGAACGAGTCTGAAATCATCCCGCCAGCAACGGGA
CACGAGGTGGCCAGACAAGCACAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCGAT
GACGAAAAGCATCCAGATGGAGGCTCTACAACAAGGGACCTCCTACTCGAGTTATTCCGGGTACATA
ATGATGCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTTCTCCACCCATCCCGAGAACA
TCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCCTCTACCCCCCTCATCACTTACAGT
GACGAGCACTTTTCTCCAGGATCACACCCGTACACATCCCATCAGATGTCAACTCCAAACAAGGCATG
TCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCTCCGGGTGGTGTGGACAGATC
ACCCACCTCTTGGCTGGTTTTCCCATCATATGATTCGGTCTCCTGGTCCCCACACAACTGGCATC
CCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACTGACAGTGACCTAATGCAC
GTGAAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCACATTAAGAAGCCTCTGAAT
GCTTTTATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTTAAAAGAAAGTGCA
GCTATCAACCAGATTCTTGGCAGAAGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAA
TTAGCACGAAAAGAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGT
AAGAAAAAGAAAGAGAAAGAGAGAAAACACAGGAATCTGCATCAGGTGGAAGCAAGCTCATTCCCA
ACGTGCAAAGCCAAGGCAGCGACCCAGGACCTTTCTGGAGATGGAAGCTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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ACCN:	NM_001130714
Insert Size:	1161 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001130714.2</u>
RefSeq Size:	3495 bp
RefSeq ORF:	1161 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:	42.7 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]

Transcript Variant: This variant (3) lacks both an in-frame exon in the central coding region and an exon in the 3' coding region that causes a frameshift, compared to variant 1. The encoded isoform (3) has a distinct C-terminus and is shorter than isoform 1.