

Product datasheet for **RG208663**

LEF1 (NM_016269) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LEF1 (NM_016269) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LEF1
Synonyms: LEF-1; TCF1ALPHA; TCF7L3; TCF10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208663 representing NM_016269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCAACTCTCCGGAGGAGGTGGCGGCGCGGGGGGACCCGGAACCTCTGCGCCACGGACGAGATGA
 TCCCTTCAAGGACGAGGGCGATCCTCAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGA
 AGGCGATTTAGCTGACATCAAGTCTTCTTGGTGAACGAGTCTGAAATCATCCCGCCAGCAACGGACAC
 GAGGTGGCCAGACAAGCACAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCGATGACG
 GAAAGCATCCAGATGGAGGCCTCTACAACAAGGGACCCTCTACTCGAGTTATCCGGGTACATAATGAT
 GCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTTCTCCACCCATCCCGAGAACATCAAAT
 AAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCCTCTCACCCCTCATCACTTACAGTGACGAGC
 ACTTTTCTCCAGGATCACACCCGTACACATCCCATCAGATGTCAACTCCAAACAAGGCATGTCCAGACA
 TCCTCCAGCTCCTGATATCCCTACTTTTATCCCTTGTCTCCGGGTGGTGTGGACAGATCACCCCACT
 CTTGGCTGGCAAGGTGAGCCTGTATCCCATCACGGGTGGATTGAGCAACCCATCCCATCCTCACTGT
 CAGTCGACTTCCATGTCCAGGTTTTCCATCATATGATTCCCGGTCTCCTGGTCCCCACACAACCTGG
 CATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACTGACAGTGACCTAATG
 CACGTGAAGCCTCAGCATGAACAGAGAAAAGGAGCAGGAGCCAAAAGACCTCACATTAAGAAGCCTCTGA
 ATGCTTTTATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTCTAAAAGAAAAGTGC
 AGCTATCAACCAGATTCTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAA
 TTAGCACGGAAAAGAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTA
 AGAAAAAGAAGAGGAAGAGAGAGAACTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGC
 CTACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208663 representing NM_016269
 Red=Cloning site Green=Tags(s)

MPQLSGGGGGGGDPPELCADEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNESEIIPASNGH
 EVARQAQTSQEPYHDKAREHPDDGKHPDGGLYNKGPSYSSYSYGYIMPMNNDPYSNGSLSPPIPRTSN
 KVPVVQPSHAVHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMRSRHPAPDIPTFYPLSPGGVGQITPP
 LGWQGPVYPITGGFRQYPSSLSVDTSMSRFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSDLM
 HVKPKHEQRKEQEPKRPHIKKPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYE
 LARKERQLHMLQYPGWSARDNYGKKKKRREKLQESASGTGPRMTAAYI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016269

ORF Size: 1197 bp

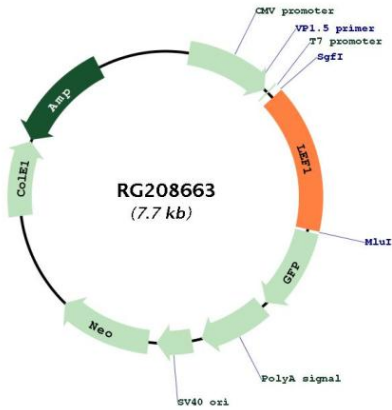
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_016269.5
RefSeq Size:	3084 bp
RefSeq ORF:	1200 bp
Locus ID:	51176
UniProt ID:	Q9UJU2
Cytogenetics:	4q25
Domains:	HMG
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
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 RG208663