OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC221967

LCE3C (NM_178434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LCE3C (NM_178434) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LCE3C
Synonyms:	LEP15; SPRL3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221967 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCTGCCAGCAAAACCAGCAGCAGTGCCAGCCCCCTCCCAGTTGTCCCTCACCCAAGTGTCCCCCAA AGAGCCCAGCACAGTGTCTGCCTCCACCCTCTTCTGACTGTGCTCTAAGCTCCGGGGGCTGTGGCCCCAG TTCTGAAAGTGGCTGCTGCCTGAGCCACCACAGGCACTTCAGGTCCCATCAATGCCGGCGCCAGAGATCC AACTCCTGTGACAGGGGCAGTGGTCAGCAAGGCGGGGGCTCCTGCCGTGGCCATGGCTCTGGGGGCTGCT GC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC221967 protein sequence Red=Cloning site Green=Tags(s) MSCQQNQQQCQPPPSCPSPKCPPKSPAQCLPPPSSDCALSSGGCGPSSESGCCLSHHRHFRSHQCRRQRS NSCDRGSGQQGGGSCRGHGSGGCC TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6467_b08.zip
Restriction Sites:	SgfI-MluI

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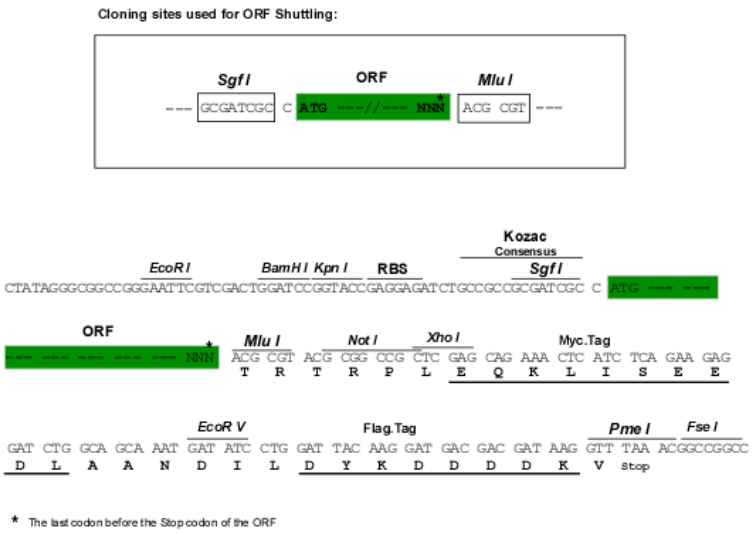
Cloning Scheme:



ACCN:	NM_178434
ORF Size:	282 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:	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_178434.3
RefSeq Size:	425 bp
RefSeq ORF:	285 bp
Locus ID:	353144

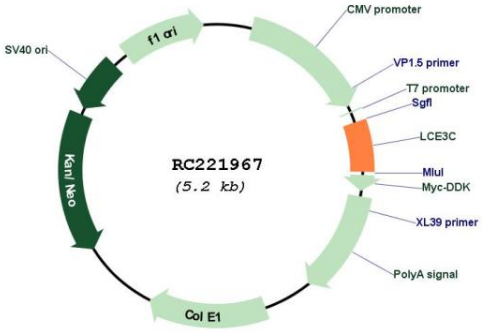
UniProt ID: Q5T5A8

Cytogenetics: 1q21.3

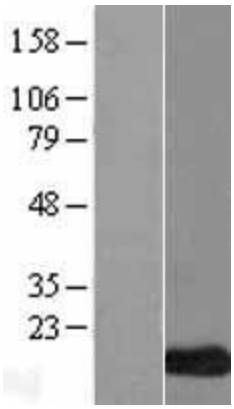
MW: 9.7 kDa

Gene Summary: A structural component of the cornified envelope of the stratum corneum involved in innate cutaneous host defense (Probable). Possesses defensin-like antimicrobial activity against a broad spectrum of Gram-positive and Gram-negative bacteria, both aerobic and anaerobic species. Upon inflammation, may regulate skin barrier repair by shaping cutaneous microbiota composition and immune response to bacterial antigens (PubMed:28634035). [UniProtKB/Swiss-Prot Function]

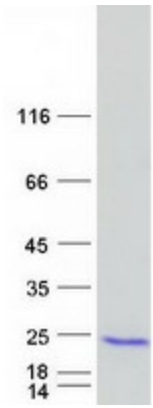
Product images:



Circular map for RC221967



Western blot validation of overexpression lysate (Cat# [LY405958]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221967 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LCE3C protein (Cat# [TP321967]). The protein was produced from HEK293T cells transfected with LCE3C cDNA clone (Cat# RC221967) using MegaTran 2.0 (Cat# [TT210002]).