

Product datasheet for RC224207

LCE2A (NM_178428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	LCE2A
Synonyms:	LEP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224207 representing NM_178428
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTGCCAGCAAAACCAGCAGCAGTGCCAGCCCCCTCCCAAGTGCCCCCAAAATGCCACCCAAGT
GTCTCCAAAGTGCCGACCTCAGTGCCAGCCCCATGCCACCTCCAGTCTCTTCTGCTGTGGTCCCAG
CTCTGGGGGCTGCTGCGGCTCCAGCTCTGGGGGCTGCTGCAGCTCTGGGGGTGGCGGCTGCTGCCTGAGC
CACCACAGGCCCGTCTCTCCACCGGCACCGGCACAGAGCCCGATTGTTGTGAGTGTGAACCTTCTG
GGGGCTCTGGCTGCTGCCACAGCTCTGGGGACTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224207 representing NM_178428
Red=Cloning site Green=Tags(s)

MSCQQNQQCQPPPKCPKCPKCPKCPKCPAPCPPPVSSCCGPSSGGCCGSSSGGCCSSGGGGCCCLS
HHRPRLFHRHRHQSPDCCEPSGSGCCHSSSGDCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

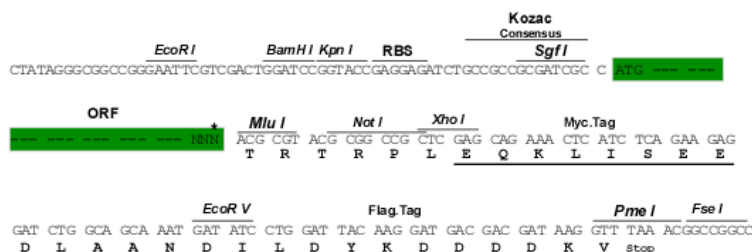
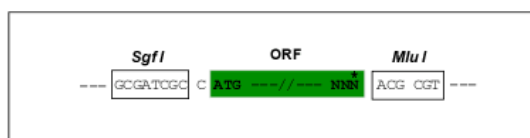
Chromatograms: https://cdn.origene.com/chromatograms/mk8102_e02.zip

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178428

ORF Size: 318 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22µm filter is required.

RefSeq: NM_178428.4

RefSeq Size: 592 bp
RefSeq ORF: 321 bp
Locus ID: 353139

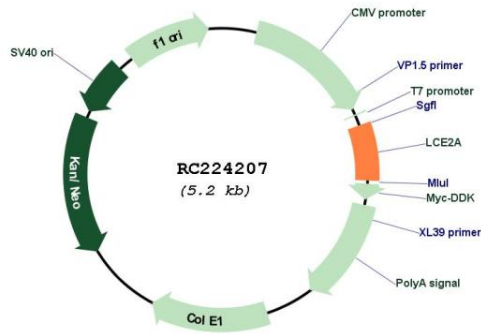
UniProt ID: [Q5TA79](#)

Cytogenetics: 1q21.3

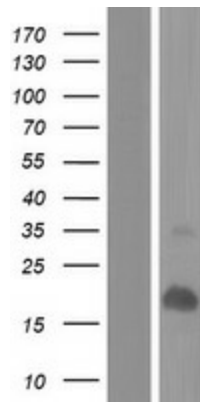
MW: 10.8 kDa

Gene Summary: Precursors of the cornified envelope of the stratum corneum.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224207



Western blot validation of overexpression lysate (Cat# [LY405952]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224207 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).