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 RC225705

C13orf31 (LACC1) (NM_001128303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C13orf31 (LACC1) (NM_001128303) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C13orf31
Synonyms:	C13orf31; FAMIN; JUVAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC225705 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAAGCTGTTTTGATTGATCTTTTTGGTTTGAAATTGAACTCTCAAAAAAACTGCCATCAGACAT
TACTGAAGACTTTGAATGCTGTCCAATACCACCATGCTGCCAAGGCCAAGTTTCTCTGTATAATGTGTTG
CAGTAACATCAGCTATGAAAGGGATGGAGAACAAGATAATTGTGAAATAGAAACAAGCAATGGATTATCA
GCTCTCTTGGAAGAATTTGAGATTGTTAGCTGTCCCAGCATGGCTGCCACTTTGTATACCATTAAACAGA
AAATTGATGAAAAAAATCTGAGCAGCATTAAGGTAATTGTACCCAGGCACAGGAAGACATTAATGAAAGC
TTTTATTGATCAACTCTTCACAGATGTTTACAATTTTGAATTTGAAGATTTGCAAGTGACTTTTAGGGGA
GGGCTTTTTAAACAGTCCATTGAAATAAACGTAATCACAGCTCAAGAACTAAGAGGAATTCAGAATGAAA
TAGAAACATTTTTGAGAAGTCTGCCAGCACTGAGAGGAAAATTAACTATTATCACTTCTTCTTTGATCCC
AGATATTTTCATACATGGATTTACTACAAGAACAGGTGGGATATCTTATATACCAACTCTTAGCTCATTC
AATCTCTTCAGTAGTTCCAAACGGAGAGATCCCAAGGTAGTGGTTCAAGAAAATCTGCGTAGGTTGGCGA
ATGCTGCAGGATTTAATGTGGAGAAATTTTACCGAATAAAGACTCATCATTCCAATGACATCTGGATTAT
GGGAAGAAAGGAGCCTGACTCTTATGATGGAATAACCACAAATCAGAGAGGAGTCACAATAGCAGCTCTT
GGTGCAGACTGTATACCGATAGTTTTTGCAGATCCAGTCAAAAAAGCATGTGGGGTTGCTCACGCTGGTT
GGAAAGGTACTTTGTTGGGTGTTGCTATGGCTACAGTGAATGCTATGATAGCAGAATATGGCTGCAGTTT
GGAAGACATTGTTGTTGTACTTGGACCTTCAGTAGGACCTTGCTGTTTTACTCTTCCAAGGGAATCAGCA
GAGGCATTTCATAATCTTCATCCTGCATGTGTACAACTATTTGATTCACCAAATCCCTGTATCGACATCC
GTAAAGCCACAAGGATTCTTCTAGAACAGGGAGGAATTCTTCCACAGAATATTCAGGACCAGAACCAAGA
TCTCAACCTCTGTACATCTTGCCATCCTGACAAGTTTTTCTCCCATGTCCGAGATGGCCTTAATTTTGGT
ACACAGATTGGCTTCATATCAATTAAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225705 protein sequence
Red=Cloning site Green=Tags(s)

MAEAVLIDLFGLKLNSQKNCHQTLLKTLNAVQYHHAAKAKFLCIMCCSNISYERDGEQDNCEIETSNGLS
ALLEEFEIVSCPSMAATLYTIKQKIDEKNLSSIKVIVPRHRKTLMKAFIDQLFTDVYNFEFEDLQVTFRG
GLFKQSIEINVITAQELRGIQNEIETFLRSLPALRGKLTIITSSLIPDIFIHGFTTRTGGISYIPTLSSF
NLFSSSKRRDPKVVVQENLRRLANAAGFNVEKFYRIKTHHSNDIWIMGRKEPDSYDGITTNQRGVTIAAL
GADCIPIVFADPVKKACGVAHAGWKGTLLGVAMATVNAMIAEYGCSLEDIVVVLGPSVGPCCFTLPRESA
EAFHNLHPACVQLFDSPNPCIDIRKATRILLEQGGILPQNIQDQNQDLNLCTSCHPDKFFSHVRDGLNFG
TQIGFISIKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6338_e10.zip

Restriction Sites: SgfI-MluI

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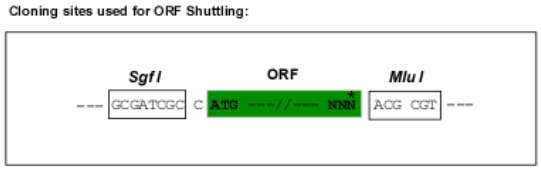
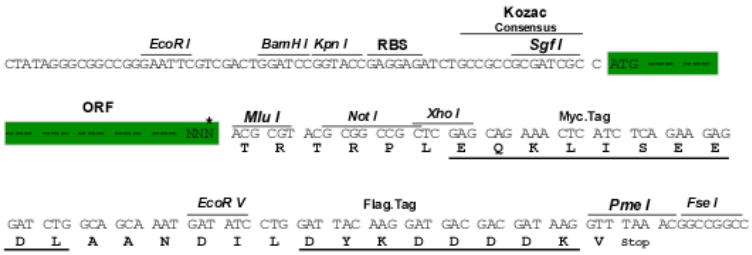
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_001128303

ORF Size: 1290 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

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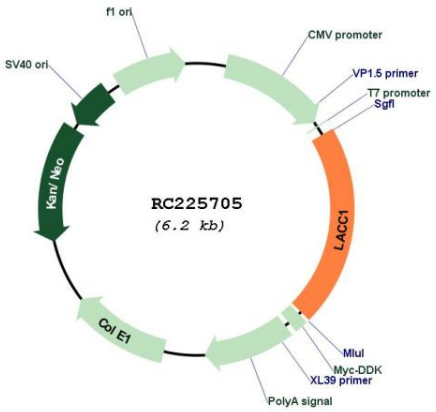
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001128303.1, NP_001121775.1
RefSeq Size:	4288 bp
RefSeq ORF:	1293 bp
Locus ID:	144811
UniProt ID:	Q8IV20
Cytogenetics:	13q14.11
MW:	47.8 kDa
Gene Summary:	This gene encodes an oxidoreductase that promotes fatty-acid oxidation, with concomitant inflammasome activation, mitochondrial and NADPH-oxidase-dependent reactive oxygen species production, and bactericidal activity of macrophages. The encoded protein forms a complex with fatty acid synthase on peroxisomes and is thought to be modulated by peroxisome proliferator-activated receptor signaling events. Naturally occurring mutations in this gene are associated with inflammatory bowel disease, Behcet's disease, leprosy, ulcerative colitis, early-onset Crohn's disease, and systemic juvenile idiopathic arthritis. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC225705

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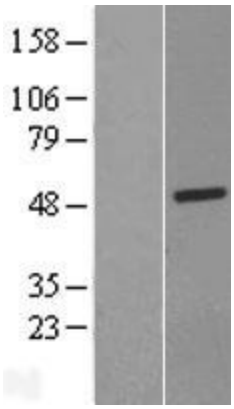
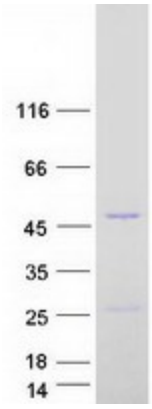


Western blot validation of overexpression lysate (Cat# [LY426942]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225705 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LACC1 protein (Cat# [TP325705]). The protein was produced from HEK293T cells transfected with LACC1 cDNA clone (Cat# RC225705) using MegaTran 2.0 (Cat# [TT210002]).

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