

Product datasheet for **RG207834**

C13orf31 (LACC1) (NM_153218) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C13orf31 (LACC1) (NM_153218) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C13orf31
Synonyms:	C13orf31; FAMIN; JUVAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207834 representing NM_153218 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCTGTTTTGATTGATCTTTTTGGTTGAAATTGAACTCTCAAAAACTGCCATCAGACAT
TACTGAAGACTTTGAATGCTGTCCAATACCACCATGCTGCCAAGGCCAAGTTTCTCTGTATAATGTGTTG
CAGTAACATCAGCTATGAAAGGGATGGAGAACAAGATAATTGTGAAATAGAAACAAGCAATGGATTATCA
GCTCTCTTGGAAAGATTTGAGATTGTTAGCTGTCCAGCATGGCTGCCACTTTGTATAACCATTAACAGA
AAATTGATGAAAAAATCTGAGCAGCATTAAAGTAATTGTACCCAGGCACAGGAAGACATTAATGAAAGC
TTTTATTGATCAACTCTTACAGATGTTTACAATTTTGAATTTGAAGATTTGCAAGTGACTTTTAGGGGA
GGGCTTTTTAAACAGTCCATTGAAATAAACGTAATCACAGCTCAAGAACTAAGAGGAATTCAGAATGAAA
TAGAAACATTTTTGAGAAGTCTGCCAGCACTGAGAGGAAAATTAATATTACACTTCTTCTTTGATCCC
AGATATTTTCATACATGGATTTACTACAAGAACAGGTGGGATATCTTATATACCAACTCTTAGCTCATTC
AATCTCTTCAGTAGTTCCAAACGGAGAGATCCCAAGGTAGTGGTTCAAGAAAATCTGCGTAGGTTGGCGA
ATGCTGCAGGATTTAATGTGGAGAAATTTACCGAATAAAGACTCATTTCCAATGACATCTGGATTAT
GGGAAGAAAGGAGCCTGACTCTTATGATGGAATAACCACAATCAGAGAGGAGTCACAATAGCAGCTCTT
GGTGCAGACTGTATACCGATAGTTTTTGCAGATCCAGTCAAAAAAGCATGTGGGTTGCTCAGCTGGTT
GGAAAGGTACTTTGTTGGGTGTTGCTATGGCTACAGTGAATGCTATGATAGCAGAATATGGCTGCAGTTT
GGAAGACATTGTTGTTGACTTGGACCTTCAGTAGGACCTTGTGTTTTACTCTTCCAAGGGAATCAGCA
GAGGCATTTTCATAATCTTCATCCTGCATGTGTACAATTTGATTACCAAAATCCCTGTATCGACATCC
GTAAAGCCACAAGGATCTTCTAGAACAGGAGGAATTCCTCCACAGAATATTCAGGACCAGAACCAAGA
TCTCAACCTCTGTACATCTGCCATCTGACAAGTTTTTCTCCCATGTCCGAGATGGCCTTAATTTTGGT
ACACAGATTGGCTTCATATCAATTAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207834 representing NM_153218
Red=Cloning site Green=Tags(s)

MAEAVLIDLFGLKLNQKNCHQTLKTLNAVQYHHAAKAKFLCIMCCSNISYERDGEQDNCEIETSNGLS
 ALLEEFIVSCPSMAATLYTIKQKIDEKNLSSIKVIVPRHRKTLMKAFIDQLFTDVYNFEFEDLQVTRFG
 GLFKQSIIEINVITAQELRGIQNEIETFLRSLPALRGKLTITSSLIPDIFIHGFTTRTGGISYIPTLSSF
 NLFSSSKRRDPKVVVQENLRRLANAAGFNVEKFYRIKTHHSNDIWIWGRKEPDSYDGITTNQRGVTIAAL
 GADCIPIVFADPVKKACGVAHAGWKGLLGVAMATVNAMIAEYGCSELEDIVVVLGPSVGPCCFTLPRESA
 EAFHNLHPACVQLFDSNPNCIDIRKATRILLEQGGILPQNIQDQNDLNLCTSCHPDKFFSHVRDGLNFG
 TQIGFISIKE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153218

ORF Size: 1290 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_153218.1](#), [NP_694950.1](#)

RefSeq Size: 2468 bp

RefSeq ORF: 1293 bp

Locus ID: 144811

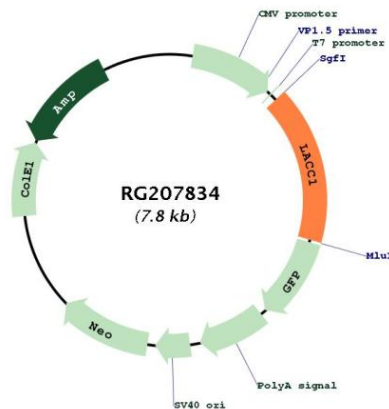
UniProt ID: [Q8IV20](#)

Cytogenetics: 13q14.11

Domains: DUF152

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 RG207834