

## Product datasheet for **SC100324**

### C13orf31 (LACC1) (NM\_153218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C13orf31 (LACC1) (NM_153218) Human Untagged Clone
Tag:	Tag Free
Symbol:	LACC1
Synonyms:	C13orf31; FAMIN; JUVAR
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153218, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAAGCTGTTTTGATTGATCTTTTTGGTTTGAATTGAACTCTCAAAAACTGCCATCAGACAT
TACTGAAGACTTTGAATGCTGTCCAATACCACCATGCTGCCAAGGCCAAGTTTCTCTGTATAATGTGTTG
CAGTAACATCAGCTATGAAAGGGATGGAGAACAAGATAATTGTGAAATAGAAAACAAGCAATGGATTATCA
GCTCTCTTGAAGAATTTGAGATTGTTAGCTGTCCAGCATGGCTGCCACTTTGTATACCATTAACAGA
AAATTGATGAAAAAATCTGAGCAGCATTAAAGTAATTGTACCCAGGCACAGGAAGACATTAATGAAAGC
TTTTATTGATCAACTCTTCACTGATGTTTACAATTTTGAATTTGAAGATTTGCAAGTGACTTTTAGGGGA
GGGCTTTTTAAACAGTCCATTGAAATAAACGTAATCACAGCTCAAGAAGTAAAGAGGAATTCAGAATGAAA
TAGAAACATTTTTGAGAAGTCTGCCAGCACTGAGAGGAAAATTAATAATCACTTCTTCTTTGATCCC
AGATATTTTCATACATGGATTTACTACAAGAACAGGTGGGATATCTTATATACCAACTCTTAGCTCATTC
AATCTCTTCAGTAGTCCAAACGGAGAGATCCCAAGGTAGTGGTCAAGAAAATCTGCGTAGGTTGGCGA
ATGCTGCAGGATTTAATGTGGAGAAATTTACCGAATAAAGACTCATCATTCCAATGACATCTGGATTAT
GGGAAGAAAGGAGCCTGACTCTTATGATGGAATAACCACAAATCAGAGAGGAGTCACAATAGCAGCTCTT
GGTGCAGACTGTATACCGATAGTTTTTGCAGATCCAGTCAAAAAAGCATGTGGGGTTGCTCACGCTGGTT
GGAAAGGTAATTTGTTGGGTGTTGCTATGGCTACAGTGAATGCTATGATAGCAGAATATGGCTGCAGTTT
GGAAAGACATTGTTGTTGACTTGGACCTTCAGTAGGACCTTGCTGTTTTACTCTTCCAAGGGAATCAGCA
GAGGCATTTCAATCTTCATCCTGCATGTGTACAATTTGATTACCAAAATCCCTGTATCGACATCC
GTAAAGCCACAAGGATCTTCTAGAACAGGGAGGAATTTCCACAGAATATTCAGGACCAGAACCAAGA
TCTCAACCTCTGTACATCTGCCATCCTGACAAGTTTTTCTCCCATGTCCGAGATGGCCTTAATTTTGGT
ACACAGATTGGCTTCATATCAATTAAGAATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_153218 unedited ACTATAGGCGGCNCGCAATTCGCACGAGGGGATTCCCCAGCTCTCGCGCTGGGCCCGCC GCGTTCGCACCAAGCACGCCAGGCGGCCCTGGCCTACCTCCCTCCCGCCTCCCGGCAGCT GGCAGGAGGGAACCTGGCCGTCAAGTTCCTCCCTGGGATCCTGGGACGGTATCAGGCGGGG AATCTGTGCGGCCGCGGCGAGGTGATTTATTTGGCATAAAAGTATTCTTTCAAGGATGGC AGAAGCTGTTTTGATTGATCTTTTTGGTTTGAATTCAACTCTCAAAAAAAGTCCATCA GACATTACTGAAGACTTTGAATGCTGTCCAATACCACCATGCTGCCAAGGCCAAGTTTCT CTGTATAATGTGTTCAGTAACATCAGCTATGAAAGGGATGGAGAACAAGATAATTGTGA AATAGAAACAAGCAATGGATTATCAGCTCTTGGAAAGATTTGAGATTGTTAGCTGTCC CAGCATGGCTGCCACTTTGTATACCATTAACAGAAAATTGATGAAAAAATCTGAGCAG CATTAAGTAATTGTACCAGGCACAGGAAGACATTAATGAAAGCTTTTATTGATCAACT CTTCACTGATGTTACAATTTTGAATTTGAAGATTTGCAAGTGACTTTTAGGGGAGGGCT TTTTAAACAGTCCATTGAAATAACGTAATCACAGCTCAAGAATAAGAGGAATTCAGAA TGAAATAGAAACATTTTTGAGAAGTCTGCCAGCACTGAGAGGAAAAATACTATTATCAC TTCTTCTTGATCCAGATATTNTCATACATGGATNTACTANCAGAAACAGTGGGATATC TTATATACCAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_153218
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_153218.1, NP_694950.1</u>
<b>RefSeq Size:</b>	2468 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	144811
<b>UniProt ID:</b>	<u>Q8IV20</u>
<b>Cytogenetics:</b>	13q14.11
<b>Domains:</b>	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]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-7 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.