

Product datasheet for RC214075L3

OriGene Technologies, Inc.

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15 Lipoxygenase 2 (ALOX15B) (NM_001039131) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: 15 Lipoxygenase 2 (ALOX15B) (NM_001039131) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: 15 Lipoxygenase 2

Synonyms: 15-LOX-2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

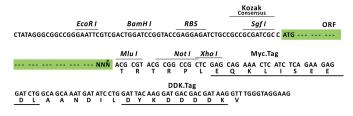
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC214075).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001039131

ORF Size: 1806 bp



15 Lipoxygenase 2 (ALOX15B) (NM_001039131) Human Tagged Lenti ORF Clone - RC214075L3

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: <u>NM 001039131.1</u>

RefSeq Size: 2508 bp RefSeq ORF: 1809 bp Locus ID: 247

 UniProt ID:
 O15296

 Cytogenetics:
 17p13.1

Protein Families: Druggable Genome

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

MW: 67.2 kDa

Gene Summary: This gene encodes a member of the lipoxygenase family of structurally related nonheme iron

dioxygenases involved in the production of fatty acid hydroperoxides. The encoded protein

converts arachidonic acid exclusively to 15S-hydroperoxyeicosatetraenoic acid, while

metabolizing linoleic acid less effectively. This gene is located in a cluster of related genes and a pseudogene that spans approximately 100 kilobases on the short arm of chromosome 17. Alternatively spliced transcript variants encoding different isoforms have been described.

[provided by RefSeq, Jul 2008]