

Product datasheet for **SC310837**

15 Lipoxygenase 2 (ALOX15B) (NM_001039131) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	15 Lipoxygenase 2 (ALOX15B) (NM_001039131) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALOX15B
Synonyms:	15-LOX-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

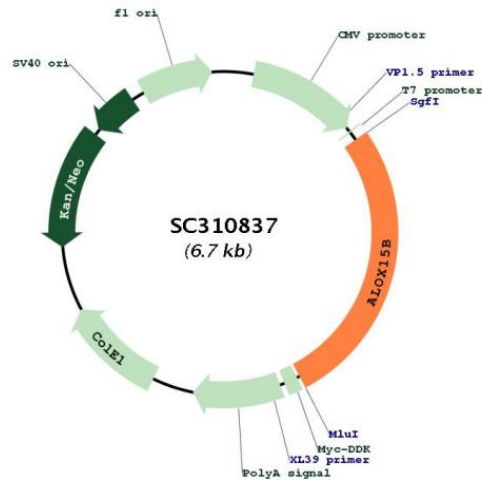


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Fully Sequenced ORF: >SC310837 representing NM_001039131.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGAGTTCAGGGTCAGGGTGTCCACCGGAGAAGCCTTCGGGGCTGGCACATGGGACAAAGTGTCT
GTCAGCATCGTGGGGACCCGGGAGAGAGCCCCCACTGCCCTGGACAATCTCGGCAAGGAGTTCACT
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CACAAGGCGCCCCAGTGTGCCCTGTGGGGCCCCGCCCCGGATGCCTGGTCTGCCGCTGGTTC
CAGCTGACACCGCCGGGGCGGCCACCTCCTCTCCCCTGTACCAGTGGCTGGAGGGGGCGGGGACC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001039131

Insert Size: 1809 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001039131.1](#)

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:	67.3 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (b) has multiple differences in the coding region but maintains the reading frame, compared to variant d. The encoded isoform (b) is shorter than isoform d.</p>