

## Product datasheet for **SC126150**

### **ALOX12B (NM\_001139) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALOX12B (NM_001139) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALOX12B
Synonyms:	12R-LOX; ARCI2
Mammalian Cell Selection:	Neomycin
Vector:	<u><a href="#">PCMV6-Neo</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```

>OriGene sequence for NM_001139 edited
GGCCTGGGTGGCGAATTCGGCAGAGGGCCAGACACCTGCTCACTACCACCAGCTGGG
CTCCGCCTGGGCCTGCCCGGCACCCACCCCGGCCACCAAGGGCAGCAGCTTTCCAGAAT
TTGGCTGGCAGGCCAGTCACCCACCTCGCCACCTCACCCTGCACCTCGGAGGCCAGC
CCTGTCCACTCCACTCTGTGCCTGGCTTCTCTTGCCTGCCTTGGGCCTTCGTGTGGCCCC
TCCACGGTGTCTGGGACTGAGTGCCCTCTTGCCTCCTGAAGAGCAGCCATGGCCACCTA
CAAAGTCAGGGTGGCCACAGGCACCGACCTCTTGTGCGGAACACGGGACTCCATCTCACT
GACCATTGTGGGACACAAGGAGAGAGCCATAAGCAGCTGCTGAACCACTTTGGGAGAGA
CTTTGCAACTGGGGCGGTGGGCCAGTACACCGTGCAGTGCCCTCAGGACCTGGGTGAGCT
CATCATCATCCGCCTGCACAAAGAGCGGTACGCCTTCTCCCAAGGACCTTGGTACTG
CAACTATGTGCAGATCTGTGCCCAACGGCCGTATCTACCCTTCCCGCCTACCAGTG
GATGGATGGCTACGAGACCCTGGCACTCCGGGAGGCCACAGAAAGACAACAGCAGATGA
CTCGCTCCCCGTCTCTGGAGCACAGAAAGAGGAGATCAGAGCCAAGCAGGACTTCTA
CCACTGGCGAGTCTTTCTTCTGGCCTGCCAGCTATGTGCACATTCCCAGTTACCGCC
TCCGGTGGGAGGCATCGCAACCCCAACGGCCCTGAGTGAATGGCTATATTCCGGGATT
CCCAATCTCATCAACTTAAGGCCACCAAGTTCTGAACTTAAATCTCCGCTACTCCTT
CCTCAAGACGGCCTCCTTCTCGTCCGCCTGGGGCCCATGGCACTGGCTTCAAAGTCCG
CGGCCTGTTGGACTGCAAACTTCGTGGAAGAGGCTGAAGGACATTAGGAAAATTTCC
TGGCAAGAAATCTGTCGTCTCCGAGTACGTGGCCGAGCACTGGGCAGAGGACACCTTCTT
TGGGTACCAGTACCTCAACGGCGTCAACCCCGCCTGATCCGCCGCTGCACGCGGATCCC
AGACAAGTTCCCGTCACAGACGACATGGTGGCTCCGTTCTGGGCGAGGGAACGTGCTT
GCAAGCGGAGCTGGAGAAGGGGAACATTTACCTGGCCGACTACCGCATCATGGAGGGCAT
CCCCACCGTGGAGCTCAGCGGCCGGAAGCAGCACCCTGCGCCCCCTCTGCCTGTGCA
CTTTGGACCCGAGGGCAAGATGATGCCCATCGCCATCCAGCTCAGCCAGACCCCTGGGCC
AGATTGCCCATCTTCTGCCAGTGATTCTGAGTGGGACTGGCTGCTAGCCAAGACGTG
GGTACGCTATGCGGAGTTCTACAGCCACGAGGCCATCGCCACCTGCTGGAGACACCT
CATTGCTGAGGCCTTCTGCCTGGCCTTGTGAGGAACCTGCCATGTGCCACCCCTCTA
CAAGCTCCTCATCCCCATACCCGATACACCGTCCAGATCAACAGCATTGGCCGGGCCGT
TCTCCTCAATGAGGGGGGCTCTCTGCCAAGGGCATGTCCCTGGGCGTGAAGGCTTTGC
TGGGTGATGGTACGGGCTCTGTGCGAGCTCACCTATGACAGCCTCTACCTCCCCAATGA
CTTTGTGGAGCGTGGGGTCCAGGACCTGCCTGGATATTACTACCGGATGACAGCTTGGC
GGTGTGGAATGCACTGGAGAAGTATGTGACGGAGATCATCACCTATTATTACCGAGTGA
CGCAGCCGTGGAGGGTATCCGGAATTGCAGTCTTGGGTGCAGGAAATATTTAAAGAGTG
CCTCCTGGGGCGGGAGAGCTCAGGCTTCCCTAGGTGCTTGCGAACCGTGCCTGAGCTGAT
CCGATATGCTACTATAGTCATCTACACCTGCTCTGCCAAGCAGCTGCTGTCAACACAGG
CCAGATGGAGTTCACCGCCTGGATGCCCAACTTCCCAGCGTCCATGCGGAATCCACCGAT
TCAGACTAAGGGGCTGACCACTTGGAGACCTTTCATGGACACGTTGCCGGATGTGAAGAC
CACGTGCATCACGCTGCTGGTGTCTGGACCCTCAGCCGAGAGCCTGACGACAGGGCGCC
CCTGGGACACTTCCCGGACATTCACCTTCTGTGGAGGAGGCCCGCGGAGGAGCATAGAGGC
GTTCCGCCAGCGCTGAACCAGATCTCACACGACATCCGCCAGCGCAACAAGTGCCTTCC
CATCCCCTACTACTACCTGGACCCGGTGTGATTGAGAACAGCATTTCTATTTAGGAGCG
CGCTTCCCGTCTCTCTCTCCCCATTCTGTGCCCTACTATTTTCAACAAAACAAAACAAA
CAAGCAAAAAAAAAAAAAAAAAAAAA
    
```

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001139 unedited NCCGTCAAATATTGTAACGACTCACTATAGGCGGCCGCGNAATTCGGCACGAGGGCCCA AACACCTGCTCACTCACCACCAGCTGGGCTCCGCCTGGGCTGCCCGGCACCCACCCGG CCACCAAGGGCAGCAGCTTTCCAGAATTTGGCTGGCAGGCCAGTCACCCACCTCGCC ACCTCACCCTGCACCTCGGAGGCCAGCCCTGTCCACTCCACTCTGTGCCTGGCTTCTCT TGCTGCCTTGGGCTTCGTGTGGCCCCCACCACGGTGTCTGGGACTGAGTGCCCTTTG CCTCCTGAAGAGCAGCCATGGCCACCTACAAAGTCAGGGTGGCCACAGGCACCGACCTCT TGTCCGGGAACACGGGACTCCATCTCACTGACCATTGTGGGGACACAAGGAGAGAGCCATA AGCAGCTGCTGAACCACTTTGGGAGAGACTTTGCAACTGGGGCGGTGGGCCAGTACACCG TGCAGTGCCTCAGGACCTGNGTGAGCTCATCATCCGCCTGCACAAAGAGCGGTACG CCTTCTCCCAAGGACCCTTGGTACTGCAACTATGTGCAGATCTGTGCCCAACGGCC GTATCTACCCTCCCGCTACCAGTGGATGGATGGCTACGAGACCCTGGCACTCCGGG AGGCCACAGGAAAGACAACAGCAGATGACTCGCTCCCGTCTCTGGAGCACAGAAAAG AGGAGATCAGAGCAAGCAGGACTTCTACCCTGGCGAGTCTTTCTTCTGGCCTGCCCA GCTATGTGCACATTCCAGTTACCGCCCTCCGGGTGGCGAGCATCGCAACCCCAACGGCC CTGAGTGAATGGCTATATTCCGGGATTCCCATCTCATCAACTTTAAGCCACCAAGTT CCTGAACATAATCTNCGCTACTTNTCAAGACGGCCTCTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001139
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001139.1.
<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>

RefSeq:	<u>NM_001139.1, NP_001130.1</u>
RefSeq Size:	2469 bp
RefSeq ORF:	2106 bp
Locus ID:	242
UniProt ID:	<u>O75342</u>
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
Gene Summary:	This gene encodes an enzyme involved in the conversion of arachidonic acid to 12R-hydroxyeicosatetraenoic acid. Mutations in this gene are associated with nonbullous congenital ichthyosiform erythroderma. [provided by RefSeq, Sep 2015]