

Product datasheet for **SC125545**

15 Lipoxygenase 2 (ALOX15B) (NM_001141) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	15 Lipoxygenase 2 (ALOX15B) (NM_001141) Human Untagged Clone
Tag:	Tag Free
Symbol:	15 Lipoxygenase 2
Synonyms:	15-LOX-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001141, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGAGTTCAGGGTCAGGGTGTCCACCGGAGAAGCCTTCGGGGCTGGCACATGGGACAAAGTGTCTG
TCAGCATCGTGGGACCCGGGGAGAGAGCCCCCACTGCCCTGGACAATCTCGGCAAGGAGTTCAGTGC
GGGCGCTGAGGAGGACTCCAGGTGACGCTCCCGGAGGACGTAGGCCGAGTGTCTGCTGCGCGTGCAC
AAGGCGCCCCAGTGTGCCCTGCTGGGGCCCCCTGGCCCCGGATGCCTGGTTCTGCCGCTGGTTCCAGC
TGACACCGCCGCGGGGGCCACCTCCTCTTCCCCTGCTACCAAGTGGCTGGAGGGGGGGGACCCTGGT
GCTGCAGGAGGGTACAGCCAAGGTGTCTGGGAGACCACCACCCTGTGCTCCAGCAACAGCGCCAGGAG
GAGCTTACAGCCCGCAGGAGATGTACCAGTGGAAAGGCTTACAACCCAGGTTGGCCTCACTGCCTGGATG
AAAAGACAGTGGAAAGACTTGAGCTCAATATCAAATACTCCACAGCCAAGAATGCCAACTTTTATCTACA
GGCTGGCTCTGCTTTTGCAGAGATGAAAATCAAGGGTGTGCTGGACCGCAAGGGGCTCTGGAGGAGTCTG
AATGAGATGAAAAGGATTTCAACTTCCGGAGGACCCAGCAGCTGAGCACGCATTTGAGCACTGGCAGG
AGGACGCCTTCTTCGCTCCAGTTCCTGAATGGTCTCAACCCTGCTGATCCGCCGCTGTCACTACCT
CCCAAAGAACTTCCCCGTCAGTATGCCATGGTGGCCTCAGTGTGGGTCTGGGACCAGCTTGCAGGCT
GAGCTAGAGAAGGGCTCCCTGTTCTTGGTGGATCACGGCATCCTCTCTGGCATCCAGACCAATGTATTA
ATGGGAAGCCTCAGTTCTCTGCGGCCCAATGACCCTGTATACCAGAGCCCAGGCTGCGGGCCGCTGCT
GCCTCTCGCCATCCAGCTCAGCCAGACCCCGGCCAAACAGCCCCATCTTCTGCCCACTGATGACAAG
TGGGACTGGTGTGCTGGCCAAGACCTGGGTGCGCAATGCCGAGTTCTCCTTCCATGAGGCCCTCACGCACC
TGCTGCACTCACATCTGCTGCCTGAGGTCTTACCCTGGTACCCTGCGTCAGCTGCCCACTGCCACCC
TCTCTTCAAGCTGCTGATCCCGCACACCCGATACACCTGCACATCAACACACTCGCCCGGGAGCTGCTT
ATCGTGCCAGGGCAGGTGGTGGACAGTCCACAGGCATCGGCATTGAAGGCTTCTCTGAGTTGATACAGA
GGAACATGAAGCAGCTGAACTATTCTCTCCTGTGTCTGCCTGAGGATATCCGGACCCGAGGAGTTGAAGA
CATCCCAGGCTACTACTACCGTATGATGGGATGCAGATCTGGGTGCAGTGAACGCTTTGTCTCTGAA
ATCATCGGTATCTACTACCCAAGTATGAGTCTGTCCAAGATGACAGAGAGCTCCAGGCCTGGGTGAGAG
AGATCTTCTCCAAGGGCTTCTAAACCAGGAGAGCTCAGGTATACCCTCCTCACTGGAGACCCGGGAAGC
CCTGGTGCAGTATGTACCATGGTATTTACCTGCTCCGCCAAGCATGCGGCTGTGAGTGCAGGGCAG
TTTGACTCCTGTGCTTGGATGCCAACCTGCCACCCAGCATGCAGCTGCCACCACCCACCTCCAAAGGCC
TGGCAACATGCGAGGGCTTCATAGCCACCCTCCCACCTGTCAATGCCACATGTGATGTCATCCTTGTCT
CTGTTGCTGAGCAAGGAGCCTGGAGACCAAGGCCCTGGGCACCTATCCGGATGAGCACTTACAGAG
GAGGCCCTCGGCGGAGCATCGCCACCTTCCAGAGCCGCTGGCCAGATCTCGAGGGGCATCCAGGAGC
GGAACCAGGGCCTGGTGTGCCCTACACCTACCTAGACCTCCCCCTCATCGAGAACAGCGTCTCCATCTA
A
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001141 unedited</p> <pre>GGAATCGATTTGNGATACGCCTCTATAGGCGGCCGAGATTCCCGGNTGGGGAGCC CCGCTCTGCAGCCCTGTGCGCCGTAGAGAGCTGGACTTAGGCTGGCAGCATGGCCGAGTT CAGGGTCAGGGTGTCCACCGGAGAAGCCTTCGGGGCTGGCACATGGGACAAAGTGTCTGT CAGCATCGTGGGACCCGGGAGAGAGCCCCACTGCCCTGGACAATCTCGGCAAGGA GTTCACTGCGGGCGCTGAGGAGGACTTCCAGGTGACGCTCCCGGAGGACGTAGGCCGAGT GCTGCTGCTGCGCGTGCACAAGGCGCCCCAGTGTGCCCTGCTGGGGCCCCCTGGCCCC GGATGCCTGGTTCTGCCCTGGTTCCAGCTGACACCGCCGCGGGCGGCCACCTCCTCTT CCCCTGCTACCAGTGGCTGGAGGGGCGGGGACCCTGGTGTGCTGACGAGGGTACAGCCAA GGTGTCTGGGACAGACCACCCTGTGCTCCAGCAACAGCGCCAGGAGGAGCTTCAAGC CCGGCAGGAGATGTACCAGTGAAGGCTTACAACCCAGGTTGGCCTCACTGCCTGGATGA AAAGACAGTGAAGACTTGGAGCTCAATATCAAATACTCCACAGCCAAGAATGCCCACTT TTATCTACAGGCTGGCTCTGCTTTTGCAGAGATGAAAATCAAGGCGTTTGTGGACCCGC AGGGGGCTCTGGAGGAGTCTGAATGAGATGAAAAGGATCTTCACTTTCCGGAGGACCC AGCAGCTGAGCACCCCTTTGAAGCACTGGCAGGAGGATGCCTTCCCTCCCAATTC CCGAATGGGCTCAACCTGTCTGATTAGCCGTTGTCTACCTCCCAAGAAGTTC CCGTCACTGATGGCATGGGACCCCCCAAGTGTGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001141 unedited</p> <pre>GCTCTCTTTTTATTTTTCGTATTAGTGGNGTCTCGTATGTCTCCAGCTGGCCTTGAC TTCTGACCTCAAAGATTTTCCCGCTCCATCTCCCAAATATCTGGGATTATGGGCATGAG CCACTGCGCCAGTCTCTTTGGCAGCCACTTCTTGGTGGCTGTCCTTGAGTTGGGTGACC ATAAGGTCCAATCAATGGATGCTAGTGGTCTCTGGGGCGGGATTATGTGCTTCCCCCAC GGCTGTGAAACGCAAAACAAAACCAACTACCAGAACCTCAAGGTGGGCTCTGCGGGCAC TTTGAGGCTTGGAGCCTTTCAAAAACTCAGTGGTCTTTGTCTGAAACTCTGTTCTGG TAGATTTTTGTCTCTCCCGCTTGACCCAGTTTCAGTTCGTGCGTACCGATGAGGCGG TGGGGGCGCCTCGTAAAGTCGGGGCCATACGGGTATCTTTCAAAGGACTTTTTACACTA TTAGACGCCCCGCGGTGATGTAAGGACTGAATCGTCAATCTCGAGAAGAGTACACATTA CCACCATATAGTATGATCCTTGTTCGCGACCAGGTTTATAGTCTCATAGTATTAGTATCA GTCCACCCGCGGCTTTCCGTCTGCCAAAGCCCTTATAGATCTAAACGACCCCGTTTTCC TTTTTTTTAGTCGCCCCCTAGTCTCAGCAAGCGAATGAACTCCACCGTTATGATGCC CATCCCCCCTAGTTTCCAATTTTGCCTTTGTTTATAACGCCATTGTTTGTAGGATAAG CCAACCCCAACTAAGTGAGCCGGAGTCGATTTTTATATCCCGCGCGCAGTTGACAGAT AAGGTGGGCCACACTATTCCCTCTTATTGATTATGGCGCGCGTAAACAGA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001141
Insert Size:	3000 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).
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:	<ol style="list-style-type: none">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_001141.1</u> , <u>NP_001132.1</u>
RefSeq Size:	2685 bp
RefSeq ORF:	2031 bp
Locus ID:	247
UniProt ID:	<u>O15296</u>
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
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 (d) represents the longest transcript and encodes the longest isoform (d).</p>