

Product datasheet for **SC302978**

ALOX15 (NM_001140) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALOX15 (NM_001140) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALOX15
Synonyms:	12-LOX; 15-LOX; 15-LOX-1; LOG15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001140 edited
 CATCTTTGAGCAAGATGGGTCTCTACCGCATCCGCGTGTCCACTGGGGCCTCGCTCTATG
 CCGGTTCCAACAACCAAGGTGCAGCTGTGGCTGGTCGGCCAGCACGGGGAGGCGGCGCTCG
 GGAAGCGACTGTGGCCCGCACGGGGCAAGGAGACAGAAGTCAAGGTGGAAGTACCGGAGT
 ATCTGGGGCCGCTGCTGTTTGTGAAACTGCGCAAACGGCACCTCCTTAAGGACGACGCT
 GGTCTGCAACTGGATCTCTGTGCAGGGCCCCGGAGCCGGGACGAGGTCAAGTTCCTT
 GTTACCCTGGGTGGAGGGCAACGGGCTCCTGAGCCTGCCTGAAGGCACCGGCCGACTG
 TGGGCGAGGACCCTCAGGGCCTGTTCCAGAAACACCGGAAGAAGAGCTGGAAGAGAGAA
 GGAAGTTGTACCGTGGGAAACTGGAAGGACGGGTTAATTCTGAATATGGCTGGGGCCA
 AACTATATGACCTCCCTGTGGATGAGCGATTTCTGGAAGACAAGAGAGTTGACTTTGAGG
 TTTGCTGGCCAAGGGGCTGGCCGACCTCGCTATCAAAGACTCTCTAAATGTTCTGACTT
 GCTGGAAGGATCTAGATGACTTCAACCGGATTTTCTGGTGTGGTCAAGCAAGCTGGCTG
 AGCGCGTGCAGGACTCCTGGAAGGAAGATGCCTTATTTGGTACCAGTTTCTTAATGGCG
 CCAACCCCGTGGTCTGAGGCGCTCTGCTCACCTTCTGCTCGCCTAGTGTCCCTCCAG
 GCATGGAGGAAGTGCAGGCCAGCTGGAGAAGGAGCTGGAGGGAGGCACACTGTTGGAAG
 CTGACTTCTCCCTGCTGGATGGGATCAAGGCCAACGTCATTCTCTGTAGCCAGCAGCACC
 TGCTGCCCTCTAGTCATGCTGAAATTGCAGCCTGATGGGAACTCTTGCCCATGGTCA
 TCCAGCTCCAGCTGCCCCGCACAGGATCCCCACCCTCCCTTTTCTTGCCACGGATC
 CCCCAATGGCCTGGCTTCTGGCCAAATGCTGGGTGCGCAGCTCTGACTTCCAGCTCCATG
 AGCTGCAGTCTCATCTTCTGAGGGGACACTTGATGGCTGAGGTCAATTGTTGTGGCCACCA
 TGAGGTGCTGCGTGCATACATCTTCAAGCTTATAATCCCCACCTGCGATACA
 CCCTGGAATTAACGTCGGGGCCAGGACTGGGCTGGTCTCTGACATGGGAATTTTCGACC
 AGATAATGAGCACTGGTGGGGGAGGCCACGTGCAGCTGCTCAAGCAAGCTGGAGCCTCC
 TAACCTACAGCTCCTTCTGTCCCCTGATGACTTGGCCGACCGGGGCTCCTGGGAGTGA
 AGTCTTCTTCTATCCCCAAGATGCGCTGCGGCTCTGGGAAATCATCTATCGGTATGTGG
 AAGGAATCGTGAGTCTCCACTATAAGACAGACGTGGCTGTGAAAGACGACCCAGAGCTGC
 AGACCTGGTGTGAGAGATCACTGAAATCGGGGTGCAAGGGGCCAGGACCGAGGGTTTC
 CTGTCTCTTACAGGCTCGGGACCAGGTTTGCCACTTTGTACCATGTGTATCTTCACT
 GCACCGGCCAACACGCTCTGTGCACCTGGGCCAGCTGGACTGGTACTCTGGGTGCCTA
 ATGCACCTGCACGATGCGGCTGCCCCGCCAACCAAGGATGCAACGCTGGAGACAG
 TGATGGCGACACTGCCAACTTCCACCAGGCTTCTCTCCAGATGTCCATCACTTGGCAGC
 TGGGCAGACGCCAGCCGTTATGGTGGCTGGGCCAGCATGAGGAGGAGTATTTTTCGG
 GCCCTGAGCCTAAGGCTGTGCTGAAGAAGTTCAGGGAGGAGCTGGCTGCCCTGGATAAAG
 AAATTGAGATCCGGAATGCAAAGCTGGACATGCCCTACGAGTACCTGCGGCCAGCGTGG
 TGGAAAACAGTGTGGCCATCTAAGCGTGCACCCTTTGGTTATTTTCAGCCCCCATCACC
 CAAGCCACAAGCTGACCCCTTCTGTGGTTATAGCCCTGCCCTCCCAAGTCCCACCTCTTC
 CCATGTCCCACCTCCCTAGAGGGGCACCTTTTTCATGGTCTCTGCACCCAGTGAACACAT
 TTTACTCTAGAGGCATCACCTGGGACCTTACTCCTCTTTCCTTCTCTCTCTCTCTAT
 CTTCT
 TATATAAATCATTCAAGACTAGAATAGGGGATATAATACATATTACTCCACACCTTTT
 ATGAATCAAATATGATTTTTTTGTTGTTGTTAAGACAGAGTCTCACTTTGACACCCAGGC
 TGGAGTGCAGTGGTGCCATCACCACGGCTCACTGCAGCCTCAGCGTCTGGGCTCAAATG
 ATCCTCCACCTCAGCCTCCTGAGTAGCTGGGACTACAGGCTCATGCCATCATGCCACG
 TAATATTTTTTTATTTTCGTGGAGACGGGGCTCACTATGTTGCCTAGGCTGGAATAGG
 ATTTTGAACCCAAATTGAGTTTAAACAATAAAAAAGTTGTTTTACGCTAAAGATGGAAA
 AGAACTAGGACTGAACTATTTAAATAAAATATTGGCAAAGAAAAAAAAAAAAAAAAAAAA
 AAAAAA

Restriction Sites: ECoRI-NOT
ACCN: NM_001140
Insert Size: 2700 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:	The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_001140.3.
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_001140.3, NP_001131.3</u>
RefSeq Size:	2707 bp
RefSeq ORF:	1989 bp
Locus ID:	246
UniProt ID:	<u>P16050</u>
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Linoleic acid metabolism, Metabolic pathways
Gene Summary:	This gene encodes a member of the lipoxygenase family of proteins. The encoded enzyme acts on various polyunsaturated fatty acid substrates to generate various bioactive lipid mediators such as eicosanoids, hepoxilins, lipoxins, and other molecules. The encoded enzyme and its reaction products have been shown to regulate inflammation and immunity. Multiple pseudogenes of this gene have been identified in the human genome. [provided by RefSeq, Aug 2017]