

Product datasheet for **SC327230**

ALOXE3 (NM_001165960) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALOXE3 (NM_001165960) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALOXE3
Synonyms:	ARCI3; E-LOX; eLOX-3; eLOX3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001165960, the custom clone sequence may differ by one or more nucleotides

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ATGCCACGCGGGGCATTCAGACCCTGTTTGCCGGCGCTGTATTTTCGCTTTCCTGACCTGC
CCTACTCCAGAGCAGAGAATGAGTGAACCCAGGCTCCTGATATCCATCTGGGTGAGCCA
GCCAGAGGGACCGGCTGTGTCAGAGGCAAGCAAACAAGTATTAGAGTGCAAGACTGTGGG
CGGAGAGAGGAAGCCCGAGCCGCGCAGCAGGGAGCTTCGGAGAGAGAAAAGCCAGGAACAT
CCCAGAGAGAGCTGGGCCATCCTCAGCCCTACCCAGCCCGCAGCCCTAGCCCTCCGC
CCAGAAAACCCAGCCCTGTCCGGCGTGCCGCTCTTCTCCTCCAGGCCGGCTGCTGCTGCGG
CCAGCGTTGCCGGGGCATCCCTTCTCCTTCCCATCATGGCAGTGTACCGCCTGTGTGTG
ACCACTGGTCCCTACCTGAGGGCCGGCACACTGGACAACATCTCTGTACACTGGTGGGC
ACGTGTGGTGAAAGCCCCAAGCAGCGGCTAGATCGAATGGGCAGGGACTTCGCCCTGGA
TCGGTACAGAAGTACAAGGTGCGTTGCACAGCGGAGCTGGGTGAGCTCTTGCTGCTGCGT
GTACACAAGGAGCGCTACGCTTCTTCCGCAAGGACTCTTGGTACTGTAGCCGCATCTGT
GTCACCGAACCGGATGGTAGTGTATCCCACTTCCCCTGCTATCAGTGGATTGAAGGCTAC
TGCACCGTGGAGCTGAGGCCAGGAACAGCAAGAATAATTTGTCAGGACTCTTCCCTC
CTCCTGGATCACAGGACACGGGAGCTCCGGGCCGACAAGAATGCTACCGCTGGAAGATC
TATGCCCTGGCTTCCCCTGCATGGTAGACGTC AACAGCTTTCAGGAGATGGAGTCAGAC
AAGAAATTTGCCCTTGACAAAGACGACAATTGTGTAGACCAGGGTGACAGCAGTGGGAAT
CGGTACCTGCCCGGCTTCCCATGAAAATTGACATCCCATCCCTGATGTACATGGAGCCC
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TTGGGAATGAAGCTTCGAGGGCTGTTGGATCGCAAGGGCTCCTGGAAGAAGCTGGATGAC
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TGTGAAGATCACTTCTTGGGTACCAGTACCTGAATGGTGTCAATCCCGTCATGCTCCAC
TGCACTCTAGCTTGCCCAAGCAAGCTGCCTGTACCAATGACATGGTGGCCCCCTTGCTG
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CCACTGTGCCTGTGTGGCTCAGCCCCCAGGGGGCGTGGTGCCCTTGGCCATCCAGCTC
AGCCAGACCCCCGGGCTGACAGCCCCATCTTCTGCCACTGACTCCGAATGGGACTGG
CTGCTGGCCAAGACGTGGGTGCGCAACTCTGAGTTCCTGGTGCACGAAAACAACACGCAC
TTTCTGTGCACGCAATTTGCTGTGCGAGGCTTCGCCATGGCCACGCTGCGCCAGTGCCG
CTCTGCCACCCCATCTACAAGCTCCTACTCCCCACACTCGATACAGCTGCAGGTGAAC
ACCATCGCGAGGGCCACGCTGCTCAACCCGAGGGCCTCGTGGACCAGGTACGTCACATC
GGGAGGCAAGGCCTCATCTACCTCATGAGCACGGGCTGGCCACTTCACCTACACCAAT
TTCTGCCCTCCGGACAGCCTGCGGGCCCGGGCGTCTGGCTATCCCCAACTACCACTAC
CGAGACGACGGCCTGAAGATCTGGGCGGCCATTGAGAGCTTTGTCTCAGAAATCGTGGGC
TACTATTATCCCAGTGACGCATCTGTGCAGCAGGATTCGGAGCTGCAGGCCTGGACTGGC
GAGATTTTGTCTCAGGCGTTCTGGGCCGGAAAGCTCAGGTTTCCCAAGCCGGCTGTGC
ACCCCAGGAGAGATGGTGAAGTTCTCACTGCAATCATCTTCAATTGCTCTGCCAGCAC
GCTGCTGTCAACAGTGGGCAGCATGACTTTGGGGCCTGGATGCCAATGCTCCATCATCC
ATGAGGCAGCCCCACCCAGACCAAGGGGACCACCACCCTGAAGACTTACCTAGACACC
CTCCCTGAAGTGAACATCAGCTGTAACAACCTCCTCCTTCTGTTGGTTAGCCAAGAA
CCCAAGGACCAGAGGCCCTGGGCACCTACCCAGATGAGCACTTACAGAGGAGGCCCG
AGGCGGAGCATCGCCGCTTCCAGAGCCGCTGGCCAGATCTCAAGGGACATCCAGGAG
CGGAACCAGGGTCTGGCACTGCCCTACACCTACCTGGACCCTCCCTCATTGAGAACAGC
GTCTCCATC

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Restriction Sites: Please inquire
ACCN: NM_001165960

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:	<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_001165960.1, NP_001159432.1</u>
RefSeq Size:	3415 bp
RefSeq ORF:	2532 bp
Locus ID:	59344
UniProt ID:	<u>Q9BYJ1</u>
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene is a member of the lipoxygenase family, which are catabolized by arachidonic acid-derived compounds. The encoded enzyme is a hydroperoxide isomerase that synthesizes a unique type of epoxy alcohol (8R-hydroxy-11R,12R-epoxyeicosa-5Z,9E,14Z-trienoic acid) from 12R-hydroperoxyeicosatetraenoic acid (12R-HPETE). This epoxy alcohol can activate the the nuclear receptor peroxisome proliferator-activated receptor alpha (PPARalpha), which is implicated in epidermal differentiation. Loss of function of the enzyme encoded by this gene results in ichthyosis, implicating the function of this gene in the differentiation of human skin. This gene is part of a cluster of lipoxygenase genes on 17p13.1. Mutations in this gene result in nonbullous congenital ichthyosiform erythroderma (NCIE). Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>