

Product datasheet for **RC228595**

ALOXE3 (NM_001165960) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALOXE3 (NM_001165960) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALOXE3
Synonyms:	ARCI3; E-LOX; eLOX-3; eLOX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228595 representing NM_001165960
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACGCGGGGCATTAGACCCTGTTTGCCGGCGCTGTATTTTCGCTTCTCTGACCTGCCCTACTCCAG
 AGCAGAGAATGAGTGGAACCCAGGCTCCTGATATCCATCTGGGTGAGCCAGCCAGAGGGACCGGCTGTGT
 CAGAGGCAAGCAAACAAGTATTAGAGTGAAGACTGTGGGCGGAGAGAGGAAGCCCGAGCCGCCAGCAGG
 GAGCTTCGGAGAGAGAAAGCCAGGAACATCCCAGAGAGAGCTGGGCCCATCCTCAGCCCTACCCAGCCC
 CGCAGCCCTAGCCCTCCGCCAGAAACCCAGCCCTGTCCGGCGTGCCGCTCTTCTCCTCCAGGCCGGCT
 GCTGCTGCGGCCAGCGTTGCCGGGGCATCCCTTCTCCTTCCCATCATGGCAGTGTACCGCTGTGTGTG
 ACCACTGGTCCCTACCTGAGGGCCGGCACACTGGACAACATCTGTGACACTGGTGGGCACGTGTGGTG
 AAAGCCCCAAGCAGCGGCTAGATCGAATGGGCAGGGACTTCGCCCTGGATCGGTACAGAAGTACAAGT
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 TCTTCCCCTCCTCCTGGATCACAGGACACGGGAGCTCCGGGCCGACAAGAATGCTACCGCTGGAAGATC
 TATGCCCTGGCTTCCCCTGCATGGTAGACGTCAACAGCTTTCAGGAGATGGAGTCAGACAAGAAATTTG
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 TCGTGTCTTCAATGCCATCCCTGCGTCTTGGGAATGAAGCTTCGAGGGCTGTGGATCGCAAGGGCT
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 CAACACGCACTTCTGTGCACGCATTTGCTGTGCGAGGCCTTCGCCATGGCCACGCTGCGCCAGCTGCCG
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 GTCTCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228595 representing NM_001165960
 Red=Cloning site Green=Tags(s)

MPRGAFRPLPALYFAFLTCPTPEQRMSGTQAPDIHLGEPARGTGCVRGKQTSIRVQDCGRREEARAASR
 ELRREKAQEHPRESWAHPQYPAPQPLALRPETQPCACRSPPGRLLLRPALPGHPFLIPIMAVYRLCV
 TTGPYLRAGTLDNISVTLVGTGCGESPKQRLDRMGRDFAPGSVQKYKVRCTAELGELLRLRVHKERYAFFR
 KDSWYCSRICVTEPDGVSVSHFPCYQWIEGYCTVELRPGTARTICQDSLPLLLDHRTRRELRARQECYRWKI
 YAPGFPCMVDVNSFQEMESDKFALTKTTTCVDQGDSSGNRYLPGFPMKIDIPSLMYMEPNVRYSATKTI
 SLLFNAIPASLGMKLRGLLDRKGSWKKLDDMQNIFWCHKTFTTKYVTEHWCEDHFFGYQYLVNGVNPVMLH
 CISSLPSKLPVTNDMVAPLLGQDTCLQTELERGNIFLADYWILAEAPTHCLNGRQQYVAAPLCLLWVSPQ
 GALVPLAIQLSQTGPDSPIFLPTDSEWDWLLAKTWVRNSEFLVHENNTHFLCTHLLCEAFAMATLRQLP
 LCHPIYKLLLPHTRYTLQVNTIARATLLNPEGLVDQVTSIGRQGLIYLMSTGLAHFTYTNFCLPDSLRRAR
 GVLAIIPNYHYRDDGLKIWAAIESFVSEIVGYPPSDASVQQDSELQAWTGEIFAQAFLGRESSGFP SRLC
 TPGEMVKFLTAIFNCSAQHAAVNSGQHDGAWMPNAPSSMRQPPPQTKGTTTLKTYLDTLPEVNI SCNN
 LLLFWLVSQEPKQDRPLGTYPDEHFTTEEAPRRSIAAFQSRLAQISRDIQERNQGLALPYTYLDPPLIENS
 VSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

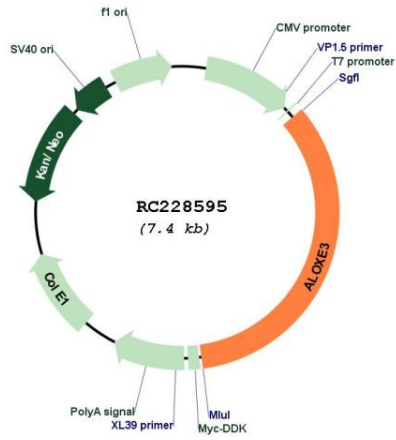
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001165960
ORF Size:	2529 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001165960.1 , NP_001159432.1
RefSeq ORF:	2532 bp
Locus ID:	59344
UniProt ID:	Q9BYJ1
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
MW:	95 kDa
Gene Summary:	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 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]

Product images:



Circular map for RC228595