

Product datasheet for **RG208343**

ALOX12B (NM_001139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALOX12B (NM_001139) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALOX12B
Synonyms:	12R-LOX; ARCI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208343 representing NM_001139
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCTACAAAGTCAGGGTGGCCACAGGCACCGACCTCTTGTGGGAACACGGGACTCCATCTCAC
 TGACCATTGTGGGACACAAGGAGAGAGCCATAAGCAGCTGCTGAACCACTTTGGGAGAGACTTTGCAAC
 TGGGGCGGTGGGCCAGTACACCGTGCAGTGCCCTCAGGACCTGGGTGAGCTCATCATATCCGCCTGCAC
 AAAGAGCGGTACGCCTTCTCCCAAGGACCTTGGTACTGCAACTATGTGCAGATCTGTGCCCCAACG
 GCCGTATCTACCACTTCCCCGCCTACCAGTGGATGGATGGCTACGAGACCTGGCACTCCGGGAGGCCAC
 AGGAAAGACAACAGCAGATGACTCGTCCCGTCTCTGGAGCACAGAAAAGAGGAGATCAGAGCCAAG
 CAGGACTTCTACCACTGGCGAGTCTTTCTTCTGGCCTGCCAGCTATGTGCACATTCACAGTTACCGCC
 CTCGGTGGCGGAGGCATCGCAACCCCAACCGCCCTGAGTGAATGGCTATATTCCGGGATCCCAATTCT
 CATCAACTTTAAGGCCACCAAGTTCCTGAACTTAATCTCGCTACTCCTCCTCAAGACGGCCTCCTTC
 TTCGTCGGCCTGGGGCCATGGCACTGGCTTTCAAAGTCCGCGGCCTGTTGGACTGCAAACATTCGTGGA
 AGAGGCTGAAGGACATTAGGAAAATTTCCCTGGCAAGAAATCTGTGCTCTCCGAGTACGTGGCCGAGCA
 CTGGGCAGAGGACACCTTCTTTGGGTACCACTCAACGGCGTCAACCCCGCCCTGATCCGCCCTGC
 ACGCGGATCCCAGACAAGTTCCTCGTACAGACGACATGGTGGCTCCGTTCTGGGCGAGGGAACGTGCT
 TGCAAGCGGAGCTGGAGAAGGGGAACATTTACCTGGCCGACTACCGCATCATGGAGGGCATCCCCACCGT
 GGAGCTCAGCGGCCGGAAGCAGCACCCTGCGCCCCCTCTGCTGCTGCACTTTGGACCCGAGGGCAAG
 ATGATGCCCATCGCCATCCAGCTCAGCCAGACCCTGGCCAGATTGCCCATCTTCTGCCAGTGATT
 CTGAGTGGGACTGGCTGCTAGCCAAGACGTGGGTACGCTATGCGGAGTTCTACAGCCACGAGGCCATCGC
 CCACCTGCTGGAGACACACCTCATTGCTGAGGCCTTCTGCTGGCCTTGTGAGGAACCTGCCCATGTGC
 CACCCCTCTACAAGCTCCTCATCCCCATACCCGATACACCGTCCAGATCAACAGCATTGGCCGGGCCG
 TTCTCCTCAATGAGGGGGGCTCTCTGCCAAGGCATGTCCTGGGCGTGAAGGCTTTGCTGGGGTGT
 GGTACGGGCTCTGTCGGAGCTCACCTATGACAGCCTCTACCTCCCAATGACTTTGTGGAGCGTGGGGT
 CAGGACCTGCCTGGATATTACTACCGGATGACAGCTTGGCGGTGGAATGCACTGGAGAAGTATGTGA
 CGGAGATCATCACCTATTATTACCGGATGACGACCGTGGAGGGTGTCCGGAATTGCAGTCTGGGT
 GCAGGAAATATTTAAAGAGTGCCTCCTGGGCGGGAGAGCTCAGGCTCCCTAGGTGCTTCCGAACCGT
 CCTGAGCTGATCCGATATGTCACTATAGTCATCTACACCTGCTCTGCCAAGCACGCTGCTGTCAACACAG
 GCCAGATGGAGTTCACCGCTGGATGCCAACTTCCCAGCGTCCATGCGGAATCCACCGATTCACTAA
 GGGGCTGACCACTCTGGAGACCTTCATGGACACGTTGCCGGATGTGAAGACCACGTGCATCACGCTGCTG
 GTGCTCTGGACCTCAGCCGAGAGCCTGACGACAGGCGGCCCTGGGACACTTCCCGGACATTCATTTCG
 TGGAGGAGGCCCGCGGAGGAGCATAGAGGCGTTCGCGCAGCGCTGAACCAGATCTCACACGACATCCG
 CCAGCGCAACAAGTGCCTTCCATCCCCACTACTACCTGGACCCGGTGTGATTGAGAACAGCATTCT
 ATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208343 representing NM_001139
 Red=Cloning site Green=Tags(s)

MATYKVRVATGTDLLSGTRDSISLTIVGTQGESHKQLLNHFGRDFATGAVGQYTVQCPQDLGELIIIRLH
 KERYAFPPKDPWYCNYVQICAPNGRIYHFPAQWMDGYETLALREATGKTTADDSLPLVLEHRKEEIRAK
 QDFYHWRVFLPGLPSYVHIPSYRPPVRRHRNPNRPEWNGYIPGFPIILINFKATKFLNLNLRYSFLKTASF
 FVRLGPMALAFKVRGLLDCKHWSKRLKDIRKIFPGKKSVMSEYVAEHWAEDTFFGYQYLNGVNPGLIRRC
 TRIPDKFPVTDDMVAPFLGEGTCLQAELEKGNILADYRIMEGIPTVELSGRKQHHCAPLCLLHFGPEGK
 MMPAIAIQLSQTPGDCPIFLPSDSEWDWLLAKTWVRYAEFYSHEAIAHLLLETHLIAEAFCLALLRNLPMC
 HPLYKLLIPHTRYTVQINSIGRAVLLNEGGLSAKGMSLGVGEFAGVMVRALSELYDSLILPNDFVERGV
 QDLPGYYYRDDSLAVWNALEKYVTEIITYYPSDAAVEGDPELQSWVQEIFKECLLGRESSGFPRCLRTV
 PELIRYVTIYITCSAKHAAVNTGQMEFTAWMPNFPASMRNPPIQTKGLTTLETFTLDPVKTTCITLL
 VLWTLSPREDDRRPLGHFPDIHFVEEAPRRSIEAFRQLNQISHDIRQRNKCLPIPPYYLDPLVIENSIS
 I

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

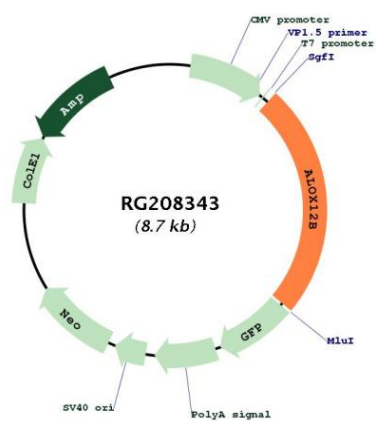


ACCN: NM_001139

ORF Size: 2103 bp

OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_001139.3
RefSeq Size:	2469 bp
RefSeq ORF:	2106 bp
Locus ID:	242
UniProt ID:	O75342
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG208343