

## Product datasheet for **RG206621**

### **ALOX15 (NM\_001140) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALOX15 (NM_001140) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALOX15
Synonyms:	12-LOX; 15-LOX; 15-LOX-1; LOG15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG206621 representing NM\_001140  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCTCTACCGCATCCGCGTGTCCACTGGGGCCTCGTCTATGCCGTTCCAACAACCAGGTGCAGC  
 TGTGGCTGGTCGCCAGCACGGGGAGGCGCGCTCGGGAAGCAGCTGTGGCCCGCACGGGCAAGGAGAC  
 AGAACTCAAGGTGGAAGTACCGGAGTATCTGGGGCCGCTGCTGTTTGTGAAACTGCGCAAACGGCACCTC  
 CTTAAGGACGACGCTGGTTCTGCAACTGGATCTCTGTGCAGGGCCCCGGAGCCGGGGACGAGGTGAGGT  
 TCCCTTGTACCCTGGGTGGAGGGCAACGGCGTCTGAGCCTGCCTGAAGGCACCGGCCGACTGTGGG  
 CGAGGACCCTCAGGGCCTGTTCCAGAAACACGGGAAGAAGAGCTGGAAGAGAGAAGGAAGTTGTACCGG  
 TGGGAAACTGGAAGGACGGGTTAATTCTGAATATGGCTGGGGCCAAACTATATGACCTCCCTGTGGATG  
 AGCGATTTCTGGAAGACAAGAGAGTTGACTTTGAGGTTTCGCTGGCCAAGGGGCTGGCCGACCTCGCTAT  
 CAAAGACTCTCTAAATGTTCTGACTTGTGGAAGGATCTAGATGACTTCAACCGATTTTCTGGTGTGGT  
 CAGAGCAAGCTGGCTGAGCGCGTGCAGGACTCCTGGAAGGAAGATGCCTATTTGGGTACCGATTTCTTA  
 ATGGCGCAACCCCGTGGTGTGCTGAGGCGCTCTGCTCACCTTCTGCTCGCTAGTGTCCCTCCAGGCAT  
 GGAGAACTGCAGGCCAGCTGGAGAAGGAGCTGGAGGGAGGCACACTGTTCAAGCTGACTTCTCCCTG  
 CTGGATGGGATCAAGGCCAAGCTCATTCTGTAGCCAGCAGCACCTGGCTGCCCTCTAGTCATGCTGA  
 AATTGCAGCCTGATGGGAAACTTTGCCATGGTCATCCAGCTCCAGCTGCCCGCACAGGATCCCCACC  
 ACCTCCCTTTTCTTGCCTACGGATCCCCAATGGCTGGCTTCTGGCCAAATGCTGGGTGCGCAGCTCT  
 GACTTCCAGCTCCATGAGCTGCAGTCTCATCTTCTGAGGGGACACTTGATGGCTGAGGTGATTGTTGTGG  
 CCACCATGAGGTGCCTGCCGTCGATACATCCTATCTTCAAGCTTATAATCCCCACCTGCGATACACCT  
 GGAAATTAACGTCGGGGCCAGGACTGGCTGGTCTCTGACATGGGAATTTTCGACCAGATAATGAGCACT  
 GGTGGGGGAGGCCACGTGCAGCTGCTCAAGCAAGCTGGAGCCTTCTTAACCTACAGCTCCTTCTGTCCCC  
 CTGATGACTTGGCCGACCGGGGCTCCTGGGAGTGAAGTCTTCTCTATCCCCAAGATGCGCTGCGGCT  
 CTGGGAAATCATCTATCGGTATGTGGAAGGAATCGTGAGTCTCCACTATAAGACAGACGTGGCTGTGAAA  
 GACGACCCAGAGCTGCAGACCTGGTGTGAGAGATCACTGAAATCGGGCTGCAAGGGGCCAGGACCGAG  
 GGTTCCTGTCTTTACAGGCTCGGGACCAGGTTTGCCACTTTGTCACCATGTGTATCTTACCTGCAC  
 CGGCCAACACGCCTCTGTGCACCTGGGCCAGCTGGACTGGTACTTTGGGTGCCTAATGCACCCTGCACG  
 ATGCGGCTGCCCGCCCAACCAAGGATGCAACGCTGGAGACAGTGTGGCGACACTGCCCACTTCC  
 ACCAGGCTTCTCTCCAGATGTCCATCACTTGGCAGCTGGGACAGCCAGCCGTTATGGTGGCTGTGGG  
 CCAGCATGAGGAGGAGTATTTTCGGGCCCTGAGCCTAAGGCTGTGCTGAAGAAGTTCAGGGAGGAGCTG  
 GCTGCCCTGGATAAGGAAATTGAGATCCGGAATGCAAAGCTGGACATGCCCTACGAGTACCTGCGGCCCA  
 CCGTGGTGGAAAACAGTGTGGCCATC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206621 representing NM\_001140  
Red=Cloning site Green=Tags(s)

MGLYRIRVSTGASLYAGSNNQVQLWLVGQHGEAALGKRLWPARGKETELKVEVPEYLGPLL FVKLRKRHL  
 LKDDAWFCNWISVQPGAGDEVRFPCYRWVEGNGVLSLPEGTGRTVGEDPQGLFQKHREEELEERRKLYR  
 WGNWKDGLILNMAGAKLYDLPVDERFLEDKRVDFEVSLAKGLADLAIKDSLNVLTCKWDLDDFNRIFWCG  
 QSKLAERVDRSWKEDALFGYQFLNGANPVVLRSAHLPARLVFPPGMEELQAQLEKELEGGTLFEADFSL  
 LDGIKANVILCSQQHLAAPLVMLKQLQPDGKLLPMVIQLQLPRTGSPPPPLFLPTDPPMAWLLAKCWVRS  
 DFQLHELQSHLLRGHMAEIVVATMRCLPSIHPIFKLIIPHLRYTLEINVRARTGLVSDMGIFDQIMST  
 GGGGHVQLLKQAGAFITYSSFCPPDDLADRGLLVKSSFYQDALRLWEIYRYVEGIVSLHYKTDVAVK  
 DDEPQLTWCREITEIGLQGAQDRGFVSLQARDQVCHFVTMCIFTCTGQHASVHLGQLDWYSWVPNAPCT  
 MRLPPPTTKDATLETVMATLPNFHQASLQMSITWQLGRRQPMVAVGQHEEEYFSGPEPKAVLKKFREEL  
 AALDKIEIEIRNAKLDMPYEYLRPSVVENSVAI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001140

**ORF Size:** 1986 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:**

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\\_001140.2](#)

**RefSeq Size:** 2707 bp

**RefSeq ORF:** 1989 bp

**Locus ID:** 246

**UniProt ID:** [P16050](#)

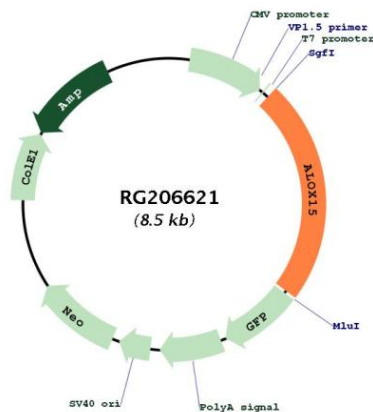
**Cytogenetics:** 17p13.2

**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, hepxilins, 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]

## Product images:



Circular map for RG206621