

Product datasheet for **RC214018**

15 Lipoxygenase 2 (ALOX15B) (NM_001039130) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	15 Lipoxygenase 2 (ALOX15B) (NM_001039130) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	15 Lipoxygenase 2
Synonyms:	15-LOX-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC214018 representing NM_001039130
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAGTTCAGGGTCAGGGTGTCCACCGGAGAAGCCTTCGGGGCTGGCACATGGGACAAAGTGTCTG
TCAGCATCGTGGGACCCGGGGAGAGAGCCCCACTGCCCTGGACAATCTCGCAAGGAGTTCAGTGC
GGGCGCTGAGGAGGACTTCCAGGTGACGCTCCCGGAGGACGTAGGCCGAGTGTCTGCTGCTGCGCGTGCAC
AAGGCGCCCCAGTGTGCCCTGCTGGGGCCCTGGCCCCGGATGCCTGGTTCTGCCGCTGGTTCCAGC
TGACACCGCCCGGGGGGCCACCTCCTCTCCCTGCTACCAGTGGCTGGAGGGGGCGGGGACCCTGGT
GCTGCAGGAGGGTACAGCCAAGGTGTCTGGGCAGACCACCACCTGTGCTCCAGCAACAGCGCCAGGAG
GAGCTTACAGCCCGCAGGAGATGTACCAGTGAAGGCTTACAACCCAGGTTGGCCTCACTGCCTGGATG
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GGCTGGCTCTGCTTTTGCAGAGATGAAAATCAAGGGGTTGCTGGACCGCAAGGGGCTCTGGAGGAGTCTG
AATGAGATGAAAAGGATCTTCAACTTCCGGAGGACCCAGCAGCTGAGCACGCATTTGAGCACTGGCAGG
AGGACGCCTTCTCGCCTCCCAGTTCCTGAATGGTCTCAACCCTGTCTGATCCGCCGCTGTCACTACCT
CCCAAAGAACTTCCCGTCACTGATGCCATGGTGGCCTCAGTGTGGGTCTGGGACCAGCTTGCAGGCT
GAGCTAGAGAAGGGCTCCCTGTCTTGGTGGATCACGGCATCCTCTCTGGCATCCAGACCAATGTCATTA
ATGGGAAGCCTCAGTTCCTGCGGCCCAATGACCCTGTATACCAGAGCCCAGGCTGCGGGCCGCTGCT
GCCTCTCGCCATCCAGCTCAGCCAGACCCCGGCCAAACAGCCCCATCTTCTGCCACTGATGACAAG
TGGGACTGGTTGCTGGCCAAGACCTGGGTGCGCAATGCCGAGTTCTCCTCCATGAGGCCCTCACGCACC
TGCTGCACTCACATCTGCTGCCTGAGGTCTTACCCTGGTACCCTGCGTCAGCTGCCCCACTGCCACCC
TCTCTTCAAGTCCACAGGCATCGGCATTGAAGGCTTCTCTGAGTTGATACAGAGGAACATGAAGCAGCTG
AACTATTCTCTCCTGTGTCTGCCTGAGGATATCCGGACCCGAGGAGTTGAAGACATCCCAGGCTACTACT
ACCGTGATGATGGGATGCAGATCTGGGTGCAGTGAACGCTTTGTCTCTGAAATCATCGGTATCTACTA
CCCAAGTGATGAGTCTGTCCAAGATGACAGAGAGCTCCAGGCCTGGGTGAGAGAGATCTTCTCCAAGGGC
TTCCTAAACCAGGAGAGCTCAGGTATACCCTCCTCACTGGAGACCCGGGAAGCCCTGGTGCAGTATGTCA
CCATGGTGATATTCACCTGCTCCGCCAAGCATGCGGCTGTGAGTGCAGGGCAGTTTGACTCCTGTGCTTG
GATGCCAACCTGCCACCCAGCATGCAGCTGCCACCACCCACCTCAAAGGCCTGGCAACATGCGAGGGC
TTCATAGCCACCCTCCCACCTGTCAATGCCACATGTGATGTCATCCTTGCTCTGGTTGCTGAGCAAGG
AGCCTGGAGACCAAAGGCCCTGGGCACCTATCCGGATGAGCACTTCACAGAGGAGGCCCTCGGCGGAG
CATCGCCACCTTCCAGAGCCGCTGGCCAGATCTCGAGGGGCATCCAGGAGCGGAACCAGGGCCTGGTG
CTGCCCTACACCTACCTAGACCCTCCCCTCATCGAGAACAGCGTCTCCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_001039130.1](#), [NP_001034219.1](#)

RefSeq Size: 2643 bp

RefSeq ORF: 1944 bp

Locus ID: 247

UniProt ID: [O15296](#)

Cytogenetics: 17p13.1

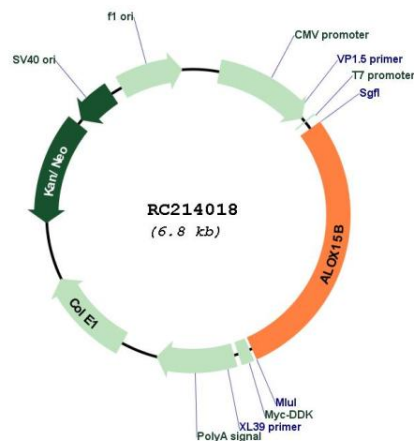
Protein Families: Druggable Genome

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

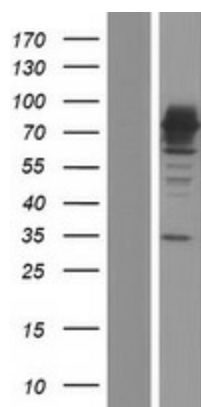
MW: 72.3 kDa

Gene Summary: This gene encodes a member of the lipoxygenase family of structurally related nonheme iron dioxygenases involved in the production of fatty acid hydroperoxides. The encoded protein converts arachidonic acid exclusively to 15S-hydroperoxyeicosatetraenoic acid, while metabolizing linoleic acid less effectively. This gene is located in a cluster of related genes and a pseudogene that spans approximately 100 kilobases on the short arm of chromosome 17. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214018



Western blot validation of overexpression lysate (Cat# [LY422018]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214018 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).