

Product datasheet for **RC211380**

15 Lipoxygenase 2 (ALOX15B) (NM_001141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	15 Lipoxygenase 2 (ALOX15B) (NM_001141) 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:

>RC211380 representing NM_001141
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAGTTCAGGGTCAGGGTGTCCACCGGAGAAGCCTTCGGGGCTGGCACATGGGACAAAGTGTCTG
TCAGCATCGTGGGACCCGGGGAGAGAGCCCCACTGCCCTGGACAATCTCGGCAAGGAGTTCAGTGC
GGGCGCTGAGGAGGACTTCCAGGTGACGCTCCCGGAGGACGTAGGCCGAGTGTCTGCTGCTGCGCGTGCAC
AAGGCGCCCCAGTGTGCCCTGCTGGGGCCCTGGCCCCGGATGCCTGGTTCTGCCGCTGGTTCCAGC
TGACACCGCCCGGGGGGCCACCTCCTTCCCTGCTACCAGTGGCTGGAGGGGGCGGGGACCCTGGT
GCTGCAGGAGGGTACAGCCAAGGTGTCTGGGCAGACCACCACCTGTGCTCCAGCAACAGCGCCAGGAG
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AATGAGATGAAAAGGATCTTCAACTTCCGAGGACCCAGCAGCTGAGCACGCATTTGAGCACTGGCAGG
AGGATGCCTTCTCGCCTCCCAGTTCCTGAATGGTCTCAACCCTGTCTGATCCGCCGCTGTCACTACCT
CCCAAAGAACTTCCCGTCACTGATGCCATGGTGGCCTCAGTGTGGGTCTGGGACCAGCTTGCAGGCT
GAGCTAGAGAAGGGCTCCCTGTTCTTGGTGGATCACGGCATCCTCTCTGGCATCCAGACCAATGTCATTA
ATGGGAAGCCTCAGTTCCTGCGGCCCAATGACCCTGTATACCAGAGCCAGGCTGCGGGCCGCTGCT
GCCTCTCGCCATCCAGCTCAGCCAGACCCCGGCCAAACAGCCCATCTTCTGCCACTGATGACAAG
TGGGACTGGTTGCTGGCCAAGACCTGGGTGCGCAATGCCGAGTTCCTTCCATGAGGCCCTCACGCACC
TGCTGCACTCACATCTGCTGCTGAGTCTTACCCTGGTACCCTGCGTCAGCTGCCCACTGCCACCC
TCTCTTCAAGCTGCTGATCCCGCACACCCGATACACCCTGCACATCAACACACTCGCCCGGAGCTGCTT
ATCGTGCCAGGGCAGGTGGTGGACAGGTCCACAGGCATCGGCATTGAAGGCTTCTCTGAGTTGATACAGA
GGAACATGAAGCAGCTGAACTATTCTCTCTGTGTCTGCCTGAGGATATCCGGACCCGAGGAGTTGAAGA
CATCCCAGGCTACTACTACCGTATGATGGGATGCAGATTTGGGGTGCAGTGAACGCTTTGTCTCTGAA
ATCATCGGTATCTACTACCAAGTATGAGTCTGTCCAAGATGACAGAGAGCTCCAGGCCTGGGTCAGAG
AGATCTTCTCCAAGGGCTTCTAAACCAGGAGAGCTCAGGTATACCCTCCTCACTGGAGACCCGGGAAGC
CCTGGTGCAGTATGTCACCATGGTATATTACCTGCTCAGCCAAGCATGCGGCTGTGAGTGCAGGGCAG
TTTGACTCCTGTGCTTGGATGCCAACCTGCCACCCAGCATGCAGCTGCCACCACCCACCTCCAAGGCC
TGGCAACATGCGAGGGCTTCATAGCCACCCTCCCACCTGTCAATGCCACATGTGATGTATCCTTGTCTCT
CTGGTTGCTGAGCAAGGAGCCTGGAGACCAAAGGCCCTGGGCACCTATCCGGATGAGCACTTACAGAG
GAGGCCCTCGGCGGAGCATCGCCACCTTCCAGAGCCGCTGGCCAGATCTCGAGGGGCATCCAGGAGC
GGAACCGGGGCTGGTGTGCCCTACACCTACCTAGACCTCCCCTCATCGAGAACAGCGTCTCCATC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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_001141.3](#)

RefSeq Size: 2685 bp

RefSeq ORF: 2031 bp

Locus ID: 247

UniProt ID: [O15296](#)

Cytogenetics: 17p13.1

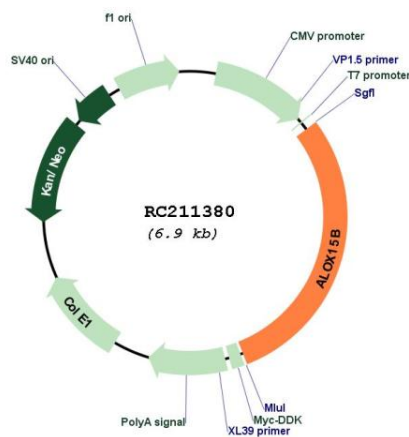
Protein Families: Druggable Genome

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

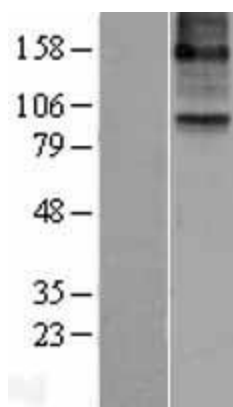
MW: 75.7 kDa

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 RC211380



Western blot validation of overexpression lysate (Cat# [LY400457]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211380 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).