

## Product datasheet for **RR204005**

### Alox15 (NM\_031010) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alox15 (NM_031010) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alox15
Synonyms:	12-LOX; 15-LOX; Alox12; Alox12l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR204005 representing NM\_031010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTGTCTACCGCATCCGCTCTCCACCGGAGACTCCAAGTACGCGGGCTCCAACAACGAGGTCTACC  
 TGTGGTTGGTTGGACAGCATGGAGAGGCATCTCTCGGGAAGCTGCTACGACCCTGTCGGGACTCGGAAGC  
 AGAATTCAAAGTGGATGTGTCTCAGGATACCTTGGGCCACTGCTGTTCTGTAAGAGTGCAGAAATGGCATTAT  
 CTCACGGATGACGCTGTTCTGCAACTGGATTCTGTGAAGGGCCCCGGAGACCAAGGATCAGAGTACA  
 TGTTCCCTGTTACCGATGGGTTCTCAGGGCAGAAGCATCCTGAGCCTCCCTGAGGGCACTGGCTGCACCGT  
 GGTGAAGATTCTCAAGGACTGTTCAAGAAACATAGGGAAGAGGAGCTTGAAGAGAGGAGGAGTCTGTAC  
 AGGTGGGCAACTGGAAGGATGGCTCAATCCTGAATGTGGCGGCCAGTATATCTGACCTCCCTGTAG  
 ACCAACGATTTTCGAGAGGACAAAAGAATTGAATTTGAAGCTTACAGGTTATAGGGGTAAATGGATACTGT  
 TGCAACTTTCTATAAACACTGTGACCTGCTGAAAAGCCTAGATGACTTCAACTGCGTTTTCAAGAGT  
 GGCATACCAAAATGGCTGAGCGGGTTCGAAAACCTGGAAGGAAGATGCGTTCTTTGGGTACCAATTCC  
 TCAATGGTGCTAACCCCATGGTGCTGAAGCGCTCTACTTGTCTTCTGCCCCTGGTATTCCCTCCAGG  
 AATGGAGAAGCTACAGGCCAGCTGAACAAGGAGCTCCAGAAAGGCACTCTGTTTGAAGCGGATTCTTTC  
 CTTCTGGATGGGATCAAGGCCAATGTCATCCTTTGTAGCCAGCAGTACCTGGCTGCCCTCTCGTCATGC  
 TGAAGCTGATGCCTGATGGACAACCTTTGCCATAGCCATCCAGCTTGAACCTCCAAAACCTGGGTCTAC  
 TCCACCACCTATTTTACGCCCTCGGATCCCCCAATGGACTGGCTCCTAGCCAAATGCTGGTCCGGAGC  
 TCCGACTTACAGCTCCATGAGCTGCAGGCTCATCTTCTGAGGGGACACTTGATGGCTGAGTCTTTGCTG  
 TGGCCACCATGAGGTGCCTGCCCTCCGTGCACCCTGTTTTTAAGCTTCTAGTTCCTCATCTGCTTTACAC  
 CATGGAAATTAATGTCCGGGCCAGGAGTGACCTGATCTCAGAGAGAGGCTTTTTTGACAAGGCAATGAGC  
 ACAGGTGGGGGAGGCCACCTGGATCTTCTCAAGCAAGCTGGAGCCTTTCTGACCTATTGCTCATTGTGTC  
 CCCCCGATGACTTGGCTGAGCGAGGACTTTGGATATCGAGACTTGTCTTATGCTAAAGACGCCCTGCG  
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 CAAGACGACTATGAACTGCAGAGCTGGTGTGAGAGATCACTGACATTGGTCTTCAAGGGGCCAGGACA  
 GAGGCTTCCCTACCTCTTTCAGTCCCGGGCTCAGGCTTGCTACTTCATCACCATGTGCATCTTACAGTG  
 CACCGCACAGCACTTTCGTCCATCTTGGCCAGCTGGATTGGTCTACTGGTTCCTAATGCACCCTGC  
 ACCATGCGGCTGCCACCACCCACCAAGGAAGCAACAATGGAGAAGCTGATGGCTACTGCCCCAACCC  
 CTAATCAGTCTACTCTCCAGATAAATGTCGTTTGGCTCCTGGGCAGACGCCAGGCTGTTATGGTGCCCT  
 GGGCCAGCATTACAGGAAACACTTTCCAACCCTGAGGCCAAGGCTGTGCTGAAGAAGTTCAGAGAGGAA  
 CTGGCTGCCTTGATAAGGAAATGAGATTGTAATAAGAGCTTGGACATACCTTATGAGTACCTGCGGC  
 CCAGCATGGTGGAAAACAGCGTGCCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR204005 representing NM\_031010  
 Red=Cloning site Green=Tags(s)

MGVYRIRVSTGDSKYAGSNNEVYLWLVGQHGEASLGKLLRPCRDSEAEFKVDVSGYLGPLL FVRVQKWHY  
 LTDDAWFCNWISVKGPGDQGSEYMFPCYRWVQGRSILSLPEGTGCTVVEDSQGLFRKHREEELEERRSLY  
 RWGNWKDGSILNVAASISDLPVDQRFREDKRIEFEASQVIGVMDTVVNFPIINTVTCWKSLLDFNCVFKS  
 GHTKMAERVNRNSWKEDAFFGYQFLNGANPMVLKRSTCLPARLVFPPGMEKLQAQLNKELQKGTLEADFF  
 LLDGIKANVILCSQQYLAAPLVMLKMPDGQLLP IAIQLELPKTGSTPPP IFTPSDPPMDWLLAKCWRS  
 SDLQLHELQAHLLRGHLMAEVFAVATMRLPSVHPVFKLLVPHLLYTMEINVRARSDLISERGFDFKAMS  
 TGGGGHLDLLKQAGAFITYCSLCPDDL AERGLLDIETCFYAKDALRLWQIMNRYVVGFMNLHYKTDKAV  
 QDDYELQSWCREITDIGLQGAQDRGFPTSLQ SRAQACYFITMCI FTCTAQHSSVHLGQLDWFYVWP NAPC  
 TMRLPPPTTKEATMEKLMATLPNPQSTLQINVVWLLGRRQAVMVPLGQHSEEHFPNPEAKAVLKKFREE  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

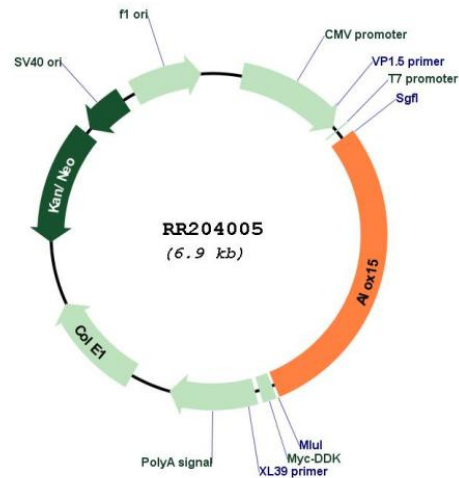
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_031010

ORF Size: 1989 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\\_031010.2](#), [NP\\_112272.2](#)

RefSeq Size:	2216 bp
RefSeq ORF:	1992 bp
Locus ID:	81639
UniProt ID:	<u><a href="#">Q02759</a></u>
Cytogenetics:	10q24
MW:	75.3 kDa
Gene Summary:	demonstrates 12-lipoxygenase and some 15-lipoxygenase enzyme activity [RGD, Feb 2006]