

## Product datasheet for **RR205342**

### Alox15b (NM\_153301) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alox15b (NM_153301) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alox15b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR205342 representing NM\_153301  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTAAATTCAGGGTGAAGATATCCACCGGGGAGGCCTGTGGGCAGGCACATGGGACAAAGTGTCTG  
TCAGCATCGTGGGAACCCATGGAGAGAGCCCTTAGTACCTCTGGACCATCTGGCAAGGAGTTCAGCGC  
TGGAGCTGAAGAAGACTTCGAGGTGACGCTTCCCAAGGACGTTGGCACTGTGCTGATGCTGCGAATACAC  
AAGGCACCCCGGAGGCACCCCTCCCACTTCTGTCTTTCCACCTGATGCCTGGTACTGCCGCTGGTTTG  
AGCTGGAGTGGCTGCCGGGGCTGCACTTCGCTTCCCCTGTTATCAGTGGCTGGAAGGGGACGGGAGCT  
GGTGTGAGAGAGGGAGCAGCAAGGTGTCTGGCAAGACCACCACCGTACGCTGCAGGATCAGCGCCAG  
AAGGAGCTGGAGTCCAGGAAGGACATGTACAGCTGGAAGACTTACATTGAAGTTGGCCTACTGCCTTG  
ACCATGAGACCGTAAAGACTTGGACCTCAACATCAAGTACTCTGCAATGAAGAACGCCAAATCTTCTT  
TAAAGCCAGTCTGCGTTTACAGAGCTGAAATTCAAAGGGCTCCTGGACCGCACAGGACTCTGGAGGAGT  
CTGAGGGAGATGAAAAGGATGTTAACTTCCACAACACTCCAGCAGCAGAGTATGTGTTGCACACTGGC  
AGGAAGATGCCTTCTTCGCCTCCAGTTCTAAATGGCCTCAACCCAGTTCTGATTTCGCCGCTGTGCGAG  
ACTCCCAGAGAACTTCCCACTGATGAAATGGTGGCTCCAGTGTGGCCCTGGGACCAGTCTGCGAG  
GCTGAGTTAGAGAAGGGCTCCCTGTTCTTGGTGGACCATGGAATCTTTCTGGAGTGAAACCAATGTCA  
TCAATGGAAGCCTCAGTTCTCAGCAGCCCGATGACCTATTATACCAGAGTCCAGGGTCCGGACCCCT  
GCTTCCCATCGCCATACAGCTCAAACAGACTCCCGGGCCAGACAACCCCATCTTCTGCCAGCGATGAC  
AAGTGGGACTGGCTACTGGCCAAGACCTGGGTGCGCAACGCTGAGTTTCCATCCACGAGGCTCTCACGC  
ATCTGTGCATGCCACCTGATCCAGAAGTCTTGGCTTGGCCACACTGCCCAGCTGCCCCAGTGTCA  
CCCTCTCTTCAAGCTGCTGATTCCCTCACACTCGGTACACACTGCACATCAACACACTCGCCCGTGAAGT  
CTCATTGCCCTGGGAAGGTGGTGGACAAGTCCACAGGCCTTGGCATTGGGGATTCTCTGACCTGATAA  
AGAGAAACATGGAGCAGCTGAGCTATTCTGTCTCCCTGAAGATATCCGAGCCCGAGATGTGGG  
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GAGATAGTTGACATCTATTACCAAGTGACGCATCTGTCCGAGATGACCAAGAGCTCCAGGCCTGGGTGG  
GGGAGATCTTCTGAGGGCTTCTCAGCCAAGAAAGCTCAGGTATGCCCTCCTGTTGGATACCCAGGA  
AGCCCTGGTCCAATATGTTACCATGGTATATTACCTGCTCAGCCAAGCATGCAGCTGTCAGTGAAGC  
CAGTTTACTCGTGTGTTGGATGCCAATCTGCCACCTTCCATGCAGCTACCACCACCTACTTCCAAAG  
GCCAGGCAAGCCCTGAGGGTTTCATAGCCACACTCCAGCAGTCAATGCCACATGTGATGTCATCATCGC  
CCTCTGGCTGCTAAGCAAGGAGCCAGGGACCGTAGGCCCTGGGCCACTATCCAGATGAGCACTTCA  
GAGGAGTCCCACGGCGGAGCATCGCGGCTTCCAGAGAAAGCTGATCCAGATATCCAGTGGCATCAGGA  
AGAGGAACCAAAGCTGGCACTGCCTACACCTACCTGGATCCTCCCCTCATCGAGAACAGTGTCTCCAT  
C

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR205342 representing NM\_153301  
 Red=Cloning site Green=Tags(s)

MAKFRVRVSTGEACGAGTWDKVSIVGTHGESPLVPLDHLGKEFSAGAEEDFEVTL PQDVGTVLMRLIH  
 KAPPEAPLPLLSFPPDAWYCRWFELEWLPGAALRFPCYQWLEAGELVLREGAAKVSQDHHRTLQDQRQ  
 KELESRKDMYSWKTYIEGWPHCLDHETVKDLDLNIKYSAMKNAKFFKAQSAFTELKFKGLLDRTGLWRS  
 LREMKRMFNFHNTPAAEYVFAHWQEDAFFASQFLNGLNPVLI RRCRRLPENFPVTDEMVA PVLGPGTSLQ  
 AELEKGSFLVVDHGILSGVQTNVINGKPQFSAAPMTLLYQSPGSGPLLP IAIQLKQTPGPDNPIFLPSDD  
 KWDWLLAKTWRNAEFSIHEALTHLLHAHLIPEVFALATLRQLPHCHPLFKLLIPHTRYTLHINTLAREL  
 LIAPGKVVDKSTGLGIGGFSDLIKRMEQLSYSVLC LPEDIRARDVGDLP GYYYRDDGMQIWSAIRSFVS  
 EIVDIYPSDASVRDDQELQAWVGEIFSEGFLSQESSGMP SLLDTQEALVQYVTMVI FTCSAKHAASAS  
 QFDSCVWMPNLPSPMLPPPTSKGQASPEGFIATLPV NATCDV IIALWLLSKEPGDRRPLGHYPDEHFT  
 EEVPRRSIAAFQRKLIQISSGIRKRNQSLALPYTYLDPPLIENS VSI

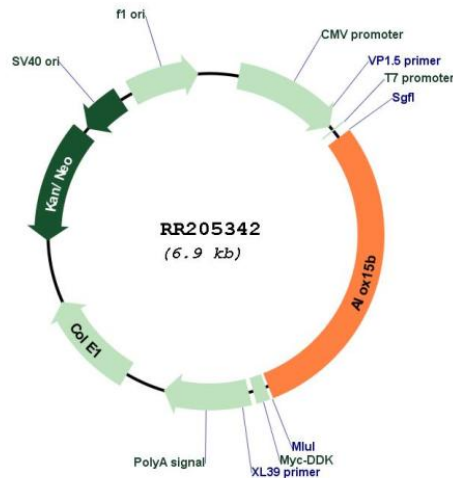
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_153301

**ORF Size:** 2031 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\\_153301.2](#), [NP\\_695213.1](#)

RefSeq Size:	2062 bp
RefSeq ORF:	2034 bp
Locus ID:	266604
UniProt ID:	<a href="#">Q8K4F2</a>
Cytogenetics:	10q24
MW:	76.1 kDa
Gene Summary:	human homolog is an epidermis-type lipoxygenase and member of the multigene family of mammalian lipoxygenases [RGD, Feb 2006]