

Product datasheet for **RN204005**

Alox15 (NM_031010) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alox15 (NM_031010) Rat Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >RN204005 representing NM_031010
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTGTCTACCGCATCCGCTCTCCACCGGAGACTCCAAGTACGCGGGCTCCAACAACGAGGTCTACC
 TGTGGTTGGTTGGACAGCATGGAGAGGCATCTCTCGGGAAGCTGCTACGACCCTGTCGGGACTCGGAAGC
 AGAATTCAAAGTGGATGTGTCTCAGGATACCTTGGGCCACTGCTGTTTCGTAAGAGTGCAGAAATGGCATTAT
 CTCACGGATGACGCTGTTCTGCAACTGGATTCTGTGAAGGGCCCCGGAGACCAAGGATCAGAGTACA
 TGTTCCCTGTTACCGATGGGTTTCAGGGCAGAAGCATCCTGAGCCTCCCTGAGGGACTGGCTGCACCGT
 GGTGAAGATTCTCAAGGACTGTTCAAGAAACATAGGGAAGAGGAGCTTGAAGAGAGGAGGAGTCTGTAC
 AGGTGGGCAACTGGAAGGATGGCTCAATCCTGAATGTGGCGGCCAGTATATCTGACCTCCCTGTAG
 ACCAACGATTTTCGAGAGGACAAAAGAATTGAATTTGAAGCTTACAGGTTATAGGGGTAAATGGATACTGT
 TGCAACTTTCTATAAACACTGTGACCTGCTGAAAAGCCTAGATGACTTCAACTGCGTTTTCAAGAGT
 GGCATACCAAAATGGCTGAGCGGGTTCGAAAACCTGGAAGGAAGATGCGTTCTTTGGGTACCAATTCC
 TCAATGGTGCTAACCCCATGGTGCTGAAGCGCTCTACTTGTCTTCTGCCCGCTGGTATTCCTCCAGG
 AATGGAGAAGCTACAGGCCAGCTGAACAAGGAGCTCCAGAAAGGCACTCTGTTTGAAGCGGATTCTTC
 CTTCTGGATGGGATCAAGGCCAATGTCATCCTTTGTAGCCAGCAGTACCTGGCTGCCCTCTCGTCATGC
 TGAAGCTGATGCCTGATGGACAACCTTTGCCATAGCCATCCAGCTTGAACCTCCAAAACCTGGGTCTAC
 TCCACCACCTATTTTCAGCCCTCGGATCCCCCAATGGACTGGCTCCTAGCCAAATGTGGGTCCGGAGC
 TCCGACTTACAGCTCCATGAGCTGCAGGCTCATCTTCTGAGGGGACACTTGATGGCTGAGGCTTTTGCTG
 TGGCCACCATGAGGTGCCTGCCCTCCGTGCACCCTGTTTTAAGCTTCTAGTTCCTCATCTGCTTTACAC
 CATGGAAATTAATGTCCGGGCCAGGAGTGACCTGATCTCAGAGAGAGGCTTTTTTGACAAGGCAATGAGC
 ACAGGTGGGGGAGGCCACCTGGATCTTCTCAAGCAAGCTGGAGCCTTTCTGACCTATTGCTCATTGTGTC
 CCCCCGATGACTTGGCTGAGCGAGGACTCTGGATATCGAGACTTGTCTATGCTAAAGACGCCCTGCG
 ACTCTGGCAGATCATGAATCGGTACGTGGTGGGAATGTTCAATCTCCACTACAAGACCGACAAAGCTGTG
 CAAGACGACTATGAAGTGCAGAGCTGGTGTGAGAGATCACTGACATTGGTCTTCAAGGGGCCAGGACA
 GAGGCTTCCCTACCTCTTTCAGTCCCGGGCTCAGGCTTGCTACTTCATCACCATGTGCATCTTCACGTG
 CACCGCACAGCACTTTCGTCCATCTTGCCAGCTGGATTGGTCTACTGGGTTCTAATGCACCCTGC
 ACCATGCGGCTGCCACCACCCACCAAGGAAGCAACAATGGAGAAGCTGATGGCTACTGCCCCAACCC
 CTAATCAGTCTACTCTCCAGATAAATGTGTTGGCTCCTGGGCAGACGCCAGGCTGTTATGGTGCCCT
 GGGCCAGCATTACAGAGAACACTTTCCAACCCTGAGGCCAAGGCTGTGCTGAAGAAGTTACAGAGAGGAA
 CTGGCTGCCTTGATAAGGAAATTGAGATTCTGTAATAAGAGCTTGGACATACCTTATGAGTACCTGCGGC
 CCAGCATGGTGGAAAACAGCGTGGCCAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_031010
- Insert Size:** 1992 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [Q02759](#)

Cytogenetics: 10q24

Gene Summary: demonstrates 12-lipoxygenase and some 15-lipoxygenase enzyme activity [RGD, Feb 2006]