

Product datasheet for **RN201152**

Alox12e (NM_001107014) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alox12e (NM_001107014) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Alox12e
Synonyms:	12-LOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN201152 representing NM_001107014
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAGTACAAGATCCTTGTGGTCACTGGAGATTCGCTTTTGGCGGGCTCCACCAACCTGGTGCAGC
 TGTGGCTGGTGGCGAGCATGCGGAGGCAGACCTTGGGAAGCAGCTGCGGCCACTGCGGGGAAGGAAGAC
 AGAGCTGGAGATCGACGTCCCCTTGCATCTAGGGCGCCTCCTGGTGGTAAAGCTTCGCAAAACACAAAGGC
 CTATTGGATTCTGACTGGTTCTGCAAGTGGATCACTGTGCAGGGCCCTGGGATCCAAGGAGAAGCCTTTT
 TCCCCTGCTACAGTTGGGTGCAGGGCAAGGAGACTATCTACCTACCCGAGGGCACTGCCCTGAAGGTAA
 CGACGACACTAAGAACCTGTTTAGGAAGTATCGAGAGCAGGAGCTGGAGGACAGAAGGAATGTGTATCGG
 TGGGGCTCCTGGAAGGAGGGATTAATCCTGCCTATAGCAGGAAGTACAGAGCGGGACCTCCCCAGGAACC
 AGAGATTCATGGAGGATAAGGATTTAGATTTTCCCTCTCTTGCCAAAGTGTTGAAGGACTTTGCTAT
 TAAGGGGACTCTAGACTTCGTAAGTCGTGTACAACATCTGGAAGATTACCAGAAAGTATTTCCACATAGC
 AAGACTGCTCTGGCCGGACGGGTCCGTGACTCCTGGAAGGAAGATGCCCTCTTTGGGTACCGATTCTCA
 ACGGTGCAAAACCCATGCTCCTGAGGCGGTCTAAGCGCCTTCAGCCCGGCTGGTCTGCCTCCAGGGAT
 GGAAGATTTACAAACCCAGCTGGAGAAGGAGCTCAAGGCTGGATCTGTTTGAAGCCGATTCTCCCTG
 CTGGATGGGGTGAAGCCTAATGTCATAATTTTAAAGCAGCAACACGTGGCAGCCCTTTGGTCATGCTGA
 AGCTACAGTCTGATGGGAGACTTTACCCATGGTCATTGAGCTCCAGCCACCTCGACATGGGTGTCCCCC
 ACCCTGCTCTTCTGCCCTCGGACCCTCCCATGGCCTGGCTTCTGGCCAAGATCTGGGTCCGAAGCTCT
 GATTTCCAAGTGCACAGTTACAGTCACATCTGCTAAGGGGACATCTAATGGCCGAGGTTATCTCTGTGG
 CCACAATGAGGAGCTTACCCAGCCTGCATCCCATATAACAAGCTCCTTGCCCCCACTTTGCTACACCAT
 GGAGATCAACACCCTGGCACGGAATAATCTTGTCTCGGAATGGGAATTTTGGTCTGGTGGTGAGCACA
 GGGAGTGGAGGCCACGTGGACATTCTCCAGAGAGCCACAGCGTGTGGACCTACCGCTCCTTTGCCCTC
 CGGATGACTTGGCTGACCGTGGGCTCTTGGACGTGAAATCTTCTTTATGCCCGGGATGCCCTCAGATT
 ATGGGAGATCATCAGTCGGTATGTGGGAAGGATGGTTGAGCTTTTCTACAAGAATGACAGAGAGGTGAAG
 GAAGATCCGGAGCTGCAGGTCTGGTGCCGAGAGGTCACTGAGATCGGACTGCTTGGGGCCAGGACCGAG
 GGTTCCCCCTGTCCTTAGAGTCCCGGGCTCAGCTGTGTCGTTTCGTACCATGTGCATCTTCACGTGCAC
 TGGTCAGCATGCATCTACACATCTGGGTGAGCTGGTATTCTGGATCCCAATGGCCATGCACC
 ATGCGGAAGCCCCACCCACCTCAAGAATGTGACAGAGGGGGACATTTTGGACGCATTGCCTTGTCTCC
 AGCAGGCACGGATGCAGATTACATTACCAAGTTCCTCGGCAGACACCAGCCTGTATGGTGGCCCTGGG
 GCAGCATAAAGAGGAATATTTCTCAGACCCCGGGGCCCGGGCTGTGCTGAAGCAGTTCAGGAGGAGCTG
 GCTGTCTGACAGGAGATTGAGGTCCGGAATGCAAGCCTGGACCTGCCCTATGAGTACCTCCGACCCA
 GCATGGTGGAGAACAGTGTGACCAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001107014

Insert Size: 1989 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_001107014.1](#), [NP_001100484.1](#)

RefSeq Size: 2456 bp

RefSeq ORF: 1989 bp

Locus ID: 303252

UniProt ID: [D3ZQF9](#)

Cytogenetics: 10q24

Gene Summary: Non-heme iron-containing dioxygenase that probably catalyzes the stereo-specific peroxidation of free and esterified polyunsaturated fatty acids generating a spectrum of bioactive lipid mediators. May preferentially convert arachidonic acid to (12S)-hydroperoxyeicosatetraenoic acid/(12S)-HPETE.[UniProtKB/Swiss-Prot Function]