

Product datasheet for **MC220232**

Alox12e (NM_145684) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alox12e (NM_145684) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Alox12e
Synonyms:	8-LOX; Alox12-ps1; Alox12-ps2; Aloxe; AW259591; e-LOX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220232 representing NM_145684
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAAGTACAAGATCCTCGTAGCCACTGGAGACTCGGTTTTTGC GGCTCCGCCAACCTGGTGCATC
 TGTGGCTGGTGGCGAGCATGGAGAGGCGACCTTGGGAAGCAGCTGCGGCCACTGTGGGAAGGAAGAC
 AGAGCTGGAGGTCGACGTCCCTTGCATCTAGGGCGCCTCCTGGCGGTGAAGCTGCGCAACAGAAAGGC
 CTATTGGATTCTGACTGGTTCTGCAAGAGCATCACTGTGCAGGGCCCTGGGACCAAGGAGAAGCCTTTT
 TCCCTGCTACAGTTGGGTGCAGGGCAAGGAGACTATCTGCCTAACCGAGGGCACTGCCCTGAAGGTAAC
 TGATGACACTCAGAACCTGTTTAGGAAGTATCGAGAGCAGGAGCTGGAGAACAGAAGGAATGTGTATCGG
 TGGGGCTCCTGGAAGGAGGGATTAATCCTGCCTATAGCAGGGAGTACTGAACGGGACCTCCCCCGGAACC
 AGAGATTCATGAAGGATAAGGATTTAGATTTTCCCTCTCTCTGGTCAAAGAGTTGAAGAACTTTGCTAT
 TAAGGGGACTCTAGATTTTGTAGTCTGTACAAAAGCTGGAAGATTACCAGAAAGTATCCACATACA
 AAGACTGCTCTGCCTGAGCGGGTCCGTGGTTCCCTGGAAGGAAGATGCTCTCTTTGGGTACCGATTCTCA
 ACGGTGCAAACCCCATGCTCCTGAGGCGGTCCATGCGCCTTCCAGCCCGCTGGTCTGCCTCCAGGGAT
 GGAAGACGTACAGACCCAGCTGGAGAAGGAGCTCAAGGCTGGATCTCTGTTCAAGTTGATTCTCCCTG
 CTGGATGGAGTCAAACCTAACATCATCATTTTTAAGCAGCAATATGTGACAGCCCTTTGGTCATGCTGA
 AACTACAGCCCGATGGGAGGCTCTTACCATGGTCATCCAGCTCCAGCCACCACGACAGCGATGTCCCCC
 GCCTCTGCTCTTCTTGCCTCAGATCCCCCATGGCCTGGCTCTTGGCCAAGATCTGGGTCCGAAGCTCT
 GACTTCCAACCTGCACAGTTACAGTCACATCTGCTGAGGGGACACCTCATGGCCGAGGTTATTTCTGTGG
 CCACAATGAGGAGTTTACCCAGCCTGCACCCCATATAAAGCTCCTTGCCCCCACTTTTCGATACCCAT
 GGAGATCAACACCCTGGCACGGAATAATCTTGTCTCCGAATGGGAATTTTGGCTGGTGGTGAGCAGC
 GGGAGCGGAGGCCATGTGGACATTCTCCAGAGAGCCACGTCGTGTTGACCTACCGCTCCTTTTGCCTC
 CGGATGACTTGGCTGACCGTGGACTCGTGGGGTGAAATCTTCTCTGTATGCCAGGATGCCCTCAGGCT
 GTGGGAGATCATCAGTCGGTATGTGAAAGGATGGTTGAGCTTTTCTACAGGAGTGACACCGATGTGAAG
 GAGGACCCGGAGCTGCAGGTCTGGTGCCGCGAGGTCACTGAGGTTGGACTGCTTGGAGCCAGGACCGAG
 GGTTCCCCCTGTCCTTAGAGTCCCGGGTGAAGTGTGCCGCTTTGTCGCTATGTGCATCTTCACGTGCAC
 TGGTCAGCACGCATCTACACATCTGGGTCAGCTGGACTGGTATGCCTGGATCCCAATGGCCATGCACC
 ATGCGGAAGCCCCACCATCTCAAGGATGTGACAGAGAGGGACATTGTGGACTCGTTGCCTTGCCTTC
 AGCAGGCACGGATGCAGATAACAGTCACCAAGTTCCTTGGCAGAGCCAGCCTGTATGGTGGCCCTGGG
 GCAGCATAAAGAGGAGTATTTCTCAGGCCCCAGGCCCCGGGATGTGCTGAAGCAATTCCAGGAGGAGCTG
 GCTATCATGGACAAGGAGATTGAGGTCCGGAATGCAAGCTGGACCTGCCTATGAGTACCTCCGACCCA
 GCCTGGTGGAAAACAGTGTGACCAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_145684

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145684.1](#), [NP_663717.1](#)

RefSeq Size: 2309 bp

RefSeq ORF: 1989 bp

Locus ID: 11685

UniProt ID: [P55249](#)

Cytogenetics: 11 42.99 cM

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]