

Product datasheet for **MC220311**

Alox5 (NM_009662) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alox5 (NM_009662) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Alox5
Synonyms:	5-LO; 5-LOX; 5LO; 5LX; AI850497; F730011J02
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220311 representing NM_009662
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTCTACACGGTACCGTGGCCACCGGCAGCCAGTGGTTCGCGGGCACCGACGACTACATCTACC
 TCAGCCTCATTGGCTCTGCGGGCTGTAGCGAGAAGCATCTGCTGGACAAGGCATTCTACAATGACTTCGA
 ACGGGGCGCGGTGGACTCCTACGATGTACCGTGGATGAGGAGCTGGCGGAGATCTACCTAGTCAAATT
 GAGAAGCGCAAATACTGGCTCCATGATGACTGGTACCTGAAGTACATCACACTGAAGACACCCACGGGG
 ACTACATCGAGTCCCATGTTACCGCTGGATCACAGGCGAGGGCGAGATTGCTCTGAGGGATGGACGTGC
 AAAATTGGCCGAGATGACCAAATTCACATCCTCAAGCAGCACAGACGTAAGAAGTGGAGGCACGGCAA
 AAACAGTATCGATGGATGGAGTGAACCCCGCTTCCCTTTGAGTATTGATGCCAAATGCCACAAGGATC
 TGCCCGAGATATCCAGTTTGTAGTAAAAAGGAGTGGACTTTGTTCTGAACTACTCAAAGCGATGGA
 GAACCTGTTCAACCGCTTCATGCACATGTTCCAGTCTTCTGGCAGACTTTGCTGACTTTGAGAAA
 ATCTTCGTCAAAATCAGCAACACTATATCTGAGCGAGTCAAGAACCCTGGCAGGAAGACCTCATGTTTG
 GCTACCAGTTCCTGAATGGCTGCAACCCAGTACTCATCAAGCGCTGCACAGCGTTGCCCCGAAGCTCCC
 AGTGACCACAGAGATGGTGGAGTGCAGCCTAGAGCGGCAGCTCAGTTTAGAACAGGAAGTACAGGAAGGG
 AACATTTTCATCGTTGATTACGAGCTACTGGATGGCATCGATGCTAACAAAAGTACCCCTGTACACACC
 AGTTCCTGGCTGCCCCATCTGCCTGCTATATAAGAACCTAGCCAACAAGATTGTTCCATTGCCATCCA
 GCTCAACCAACCCCTGGAGAGAGTAACCAATCTTCCCTACGGATTCAAAGTACGACTGGCTTTTG
 GCCAAAATCTGGGTGCGTCCAGTGACTCCACGTCCATCAAACGATCACCCACCTCTGCGCACGCATC
 TGGTGTCTGAGGTGTTTGGTATCGCCATGTACCGCCAGCTGCCTGTGTGCATCCCTTTTCAAGTGCT
 GGTAGCCCATGTGAGGTTCAACCATTGCTATCAACACTAAGGCCCGGAACAGTTATCTGCGAGTATGGC
 CTTTTTGACAAGGCCAATGCCACCGGGGTGGAGGGCACGTGCAGATGGTGCAGAGGGCTGTCCAGGATC
 TGACCTATTCTCCCTGTGTTTCCCGGAGGCCATCAAGGCCCGGGCATGGACAGCACGGAAGACATCCC
 CTTCTACTTCTATCGTGATGATGGACTGCTCGTGTGGGAGGCTATCCAGTCGTTTCAATGGAGGTGGT
 AGCATCTACTATGAGAACGACCAGGTGGTGGAGGAGGACCAGGAAGTGCAGGACTTCGTGAAGGATGTTT
 ACGTGTACGGCATGCGGGGCAAAAAGGCCTCAGGTTTCCCAAGTCCATCAAGAGCAGGGAGAAGCTGTC
 CGAGTACCTGACGGTGGTATCTTACGGCCTCTGCCAGCATGCAGCTGTAACCTCGCCAGTATGAC
 TGGTGCTCCTGGATCCCCAACGCTCTCCAATATGCGGGCCCCACCACCACGCAAGGGTGTGGTCA
 CCATCGAGCAGATCGTGGATACTCTACCAGACCGTGGCCGATCATGTTGGCATCTAGGTGCAGTGTGGGC
 CTTGAGCCAGTTTCAAGAAAATGAGCTGTTTCTAGGCATGTACCCAGAGGAGCATTTCATTGAGAAGCCA
 GTGAAGGAAGCCATGATCCGATTCGCAAGAACCTGGAGGCCATCGTCAGCGTATCGCCGAGCGCAATA
 AGAACAAAAGCTCCCCTACTACTACCTGTACCAGACAGGATCCCAACAGCGTAGCCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_009662
- Insert Size:** 2025 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_009662.2](#), [NP_033792.1](#)

RefSeq Size: 2827 bp

RefSeq ORF: 2025 bp

Locus ID: 11689

UniProt ID: [P48999](#)

Cytogenetics: 6 53.79 cM

Gene Summary: Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory processes.[UniProtKB/Swiss-Prot Function]