

Product datasheet for **MR227106**

Alox5 (NM_009662) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>MR227106 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGCCCTCTACACGGTCACCGTGGCCACCGGCAGCCAGTGGTTCGCGGGCACCGACGACTACATCTACC
TCAGCCTCATTGGCTCTGCGGGCTGTAGCGAGAAGCATCTGCTGGACAAGGCATTCTACAATGACTTCGA
ACGGGGCGCGGTGGACTCCTACGATGTACCGTGGATGAGGAGCTGGCGGAGATCTACCTAGTCAAAT
GAGAAGCGCAAATACTGGCTCCATGATGACTGGTACCTGAAGTACATCACACTGAAGACACCCACGGGG
ACTACATCGAGTTCCTATGTTACCGCTGGATCACAGGCGAGGGCGAGATTGCTCTGAGGGATGGACGTGC
AAAATTGGCCCGAGATGACCAAATTCACATCCTCAAGCAGCACAGACGTAAGAAGTGGAGGCACGGCAA
AAACAGTATCGATGGATGGAGTGAACCCCGCTTCCCTTTGAGTATTGATGCCAAATGCCACAAGGATC
TGCCCGAGATATCCAGTTTGTAGTAAAAAGGAGTGGACTTTGTTCTGAACTACTCAAAGCGATGGA
GAACCTGTTTCATCAACCGCTTCATGCACATGTTCCAGTCTTCTGGCAGCACTTTGCTGACTTTGAGAAA
ATCTTCGTCAAAATCAGCAACACTATATCTGAGCGAGTCAAGAACCCTGGCAGGAAGACCTCATGTTTG
GCTACCAGTTCCTGAATGGCTGCAACCCAGTACTCATCAAGCGCTGCACAGCGTTGCCCCGAAGCTCCC
AGTGACCACAGAGATGGTGGAGTGCAGCCTAGAGCGGCAGCTCAGTTTAGAACAGGAAGTACAGGAAGGG
AACATTTTCATCGTTGATTACGAGCTACTGGATGGCATCGATGCTAACAAAAGTACCCCTGTACACACC
AGTTCTGGCTGCCCCATCTGCCTGCTATAAAGAACCTAGCCAACAAGATTGTTCCATTGCCATCCA
GCTCAACCAACCCCTGGAGAGAGTAACCAATCTTCCCTACGGATTCAAAGTACGACTGGCTTTTG
GCCAAAATCTGGTGCGTTCAGTGACTCCACGTCCATCAAACGATCACCCACCTTCTGCGCACGCATC
TGGTGTCTGAGGTGTTTGGTATCGCCATGTACCGCCAGTGCCTGTGTGCATCCCTTTTCAAGCTGCT
GGTAGCCCATGTGAGTTCACCATTGCTATCAACACTAAGGCCCGGGAACAGCTTATCTGCGAGTATGGC
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TGACCTATTCTCCCTGTGTTTCCCGGAGGCCATCAAGGCCCGGGCATGGACAGCACGGAAGACATCCC
CTTCTACTTCTATCGTGATGATGGACTGCTCGTGTGGGAGGCTATCCAGTCGTTCAATGGAGGTGGT
AGCATCTACTATGAGAACGACCAGGTGGTGGAGGAGGACCAGGAAGTGCAGGACTTCGTGAAGGATGTTT
ACGTGTACGGCATGCGGGGCAAAAAGGCCTCAGGTTTCCCAAGTCCATCAAGAGCAGGGAGAAGCTGTC
CGAGTACCTGACGGTGGTATCTTACGGCCTCTGCCAGCATGCAGCTGTAACCTCGGCCAGTATGAC
TGGTGCTCCTGGATCCCCAACGCTCCTCAACTATGCGGGCCCCACCACCACGGCAAGGGTGTGGTCA
CCATCGAGCAGATCGTGGATACTTACCAGACCGTGGCCGATCATGTTGGCATCTAGGTGCAGTGTGGGC
CTTGAGCCAGTTTCAAGAAAATGAGCTGTTTCTAGGCATGTACCAGAGGAGCATTTCATTGAGAAGCCA
GTGAAGGAAGCCATGATCCGATTCGCAAGAACCTGGAGGCCATCGTCAGCGTATCGCCGAGCGCAATA
AGAACAAAAGCTCCCCTACTACTACCTGTCACCAGACAGGATCCCAACAGCGTAGCCATCACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227106 protein sequence
Red=Cloning site Green=Tags(s)

MPSYTVTATGSQWFAGTDDYIYLSLIGSAGCSEKHLDDKAFYNDFERGAVDSYDVTVDEELGEIYLVKI
 EKRYWHLHDDWYLKYITLKTPHGDYIEFPCYRWITGEGEIVLRDGRAKLARDDQIHLKQHRKELEARQ
 KQYRWMEWNPGFPLSIDAKCHKDLPRDIQFDSEKGVDFVLNYSKAMENLFINRFMHMFQSSWHDFADFEK
 IFVKISNTISERVKNHWQEDLMFGYQFLNGCNPVLIKRCTALPPKLPVTTEMVECSLERQLSLEQEVQEG
 NIFIVDYELLDGIDANKTDPCTHQFLAAPICLLYKNLANKIVPIAIQLNQTPGESNPIFLPTDSKYDWLL
 AKIWRSSDFHVHQITHTLLRTHLVSEVFGIAMYRQLPAVHPLFKLLVAHVRFTIAINTKAREQLICEYG
 LFDKANATGGGGHVQMVQRAVQDLTYSSLCFPEAIKARGMDSTEDIPFYFYRDDGLLVWEAIQSFTMEVV
 SIYYENDQVVEEDQELQDFVKDYYVYGMRGKASGFPKSIKSREKLYSEYLVVIFVIFASAQHAAVNFGQYD
 WCSWIPNAPPTMRAPPPTAKGVVTEIQIVDTLPDRGRSCWHLGAVWALSQFQENELFLGMYPEEHFIEKP
 VKEAMIRFRKNLEAIVSVIAERNKNKKLPYYYYSPDRIPNSVAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009662

ORF Size: 2025 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_009662.2](#), [NP_033792.1](#)

RefSeq Size: 2827 bp

RefSeq ORF: 2025 bp

Locus ID: 11689

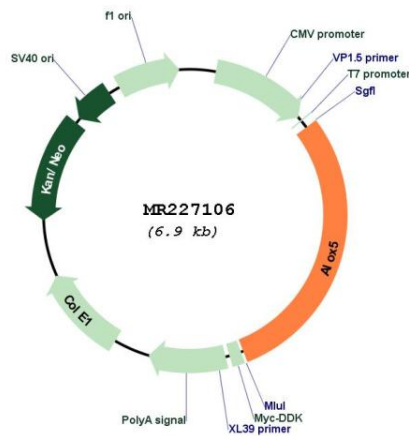
UniProt ID: [P48999](#)

Cytogenetics: 6 53.79 cM

MW: 78 kDa

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

Product images:



Circular map for MR227106