

## Product datasheet for **RR209949**

### Alox12 (NM\_001105798) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alox12 (NM_001105798) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alox12
Synonyms:	12-LO; 12S-LOX
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR209949 representing NM\_001105798  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCGCTACCGCTCCGCTGGTCACTGGCCCTGGCTCTTCTCGGGATCCGTCACCTGGTGCCTC  
 TGTGGCTGGTCGGGCGCACAGGAGGCGAGGCTGGAGCTGCAGCTGCGCCAGCGCGGGCAAGGAGGA  
 GGAGTTTGATTCGATGTTGCCGAGGACTTGGGGCCACTGCAGTTCGTGAACTGCACAAAGAGCACACA  
 GTTGTGGACGACGCTGGTCTGCAACCTCATCACAGTTCAGGGGCCCGGGATGAGCGCAGAGGCCGTCT  
 TCCCTGCTACCGCTGGGTGCAGGGAGAAGGAATCCTGAGACTGCCGGAGGGGACAGCCCGTCTGGCAGG  
 AGACAATGCCTGGATGTCTCCAGAAGCATCGAGAGAAGGAAGTGAAGGAAAGACAACAGACCTACCGC  
 TGGCCACCTGGAAGCAAGGCTTACCTCAGACAATAGCAGCAGACTGTAAGGATGACCTCCCTCAAACA  
 TGAGATTCATGAGGAGAAGAGACTGGACTTTGAATGGACGCTGAAGCGGGGGTTCTGAAATGGCCCT  
 CAAACGTGTTTATACCCTCCTGAGAAGCTGGAACCGTCTGGAAGACTTTGATCAGATCTTCTGGGCCAG  
 AAGAGTGCCTTGCTGAGAAGGTTACCCGGTGTGGCAGGAAGATGAGCTCTTGCTACCGATTTCTCA  
 ATGGCGCAACCCCATGCTGTTGAGACGCTCCACCTCTCTGCCCTCCAGACTGGTACTGCCCCCTGGGAC  
 AGAGGAGCTTCAAGCGCAGCTGGAGAAAGAACTCAAGGATGGATGCCTGTTGAGGCTGACTTTATCCTG  
 CTGGATGGAATTCAGCTAATGTGATCCGAGGAGAACAGCAGTACCTGGCTGCCCTCTTGTGATGTTGA  
 GGATGGACCCAGTGGGAAGCTGCTCCCATGGCTATCCAGATTCAGCCTCCCAATCCAGCTCCCAAGC  
 TCCAACATTGTTCTGCCCTCAGATCCTCCACTGCCTGGCTCTGGCTAAGATCTGGTCCGAAATTCA  
 GATTTCCAAGTGCAGGAGCTCCAATTCATTTGCTGAACACTCATCTGGTGGCTGAGGTCATTGCTGTTG  
 CCACCATGAGGTGCCTCCAGGACTACACCCTATCTTTAAGCTCCTAGTCCGCACATCCGTTACACTAT  
 GGAAATTAACACACGGAGCCGGACCCAGCTCATCTCAGATGGAGGGATATTTGATCAGGTAGTGAGCACA  
 GGTGGAGGCGCCATGTTGAGTCTCACTCGGGCAGTGGCTCAGCTGACGTACTGCTCCCTCTGTCCCTC  
 CCGATGATCTGGTACCCGAGGCCTGCTGAGAGTCCCAAGTGCCCTCTACGCTCAGGATGCTTTGACGCT  
 CTGGGAGGTCAGTCCAGGTATGTGAACGGGATGGTCCATCTCTTCTACCAGAGTGACGATATTGTGAGG  
 GGAGACCCAGAGCTGCAGGCTGGTGTCCGGAGATCACTGAGGTGGGGCTGTGCCATGCCAGGACAGAG  
 GATTCCTGTCTCCTCCAGTCCCGGGCACAGCTCTGCCATTTCTTACCAGTGTGTTTTACATGTAC  
 TTCCAGCATGCTGCCATCAACCAGGGCCAGCTGGACTGGTACGGTTGGGTACCTAATGCTCCATGCACA  
 ATGAGGATGCCTCCACCAACCAGCAAGGACGATGTGACGATGGAGACCATCATGGGCTCACTCCCTGATG  
 TTCAGAAGTCTGTCTGCAGATGACCATCACATGGCACCTGGGCCGCTCCAGCCAGACATGGTACCTCT  
 AGGACACCACAAAGAAAAGTATTTCTCAGACCCAAAGACAAAGCTGTGCTCAGCCAATTTCAAGCAGAT  
 CTGGAAAATTTGGAGAAAGAGATTACAGCCCGGAACCAGCAGCTTGACCTGCCCTACGAATACCTCAAGC  
 CTAGCCGTATAGAGAACAGCATCACCATC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR209949 representing NM\_001105798  
 Red=Cloning site Green=Tags(s)

MGRYRVRVVTGPWLFSGSVNLVRLWLVGAHREARLELQLRPARGKEEEFDVAEDLGPLQFVKLHKEHT  
 VVDDAWFCNLITVQGPMSAEAVFPCYRWVQEGILRLPEGTARLAGDNALDVFQKHREKELKERQQT  
 YR WATWKQGLPQTI AADCKDDLPPNMRFHEEKRLDFEWTLKAGVLEMGLKRVYVTLR  
 RSWNRLEDFDQIFWQK SALAEKVHRCWQEDELFGYQFLNGANPMLLRSTSLPSRLVLP  
 PPGTEELQAQLEKELKDGCLFEADFILDGIPANVIRGEQQYLAAPLVMLRMDPSGKLL  
 PMAIQIQPPNPSSPAPTLFLPSDPPLAWLLAKIWRNSDFQLQELQFHLLNTHLVAEVI  
 AVATMRCLPGLHPIFKLLVPHIRYVTEINTRSRQQLISDGGIFDQVYSTGGGGHVQLL  
 TRAVAQLTYCSLCPDDLATRGLLRVPSALYAQDALQLWEVTARYVNGMVHLFYQSDDIVR  
 GDPELQAWCREITEVGLCHAQDRGFVFSQSAQLCHFLTMCVFTCTSQHAAINQQLDWY  
 GWPVNPACTMRMPPTSKDDVTMETIMGSLPDVQKSLQMTITWHLGRLQPDMPVPLGHH  
 KEKYFSDPRTKAVLSQFQADLENLEKEITARNQQLDLPYEYLKPSRIENSITI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

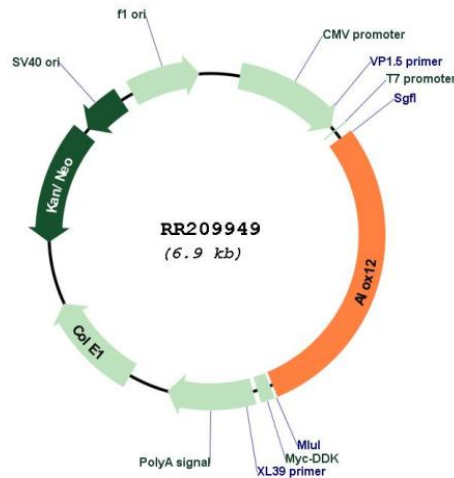
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001105798

ORF Size: 1989 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\\_001105798.1](#), [NP\\_001099268.1](#)

RefSeq Size: 2839 bp  
RefSeq ORF: 1992 bp  
Locus ID: 287454  
Cytogenetics: 10q24  
MW: 75.6 kDa