

Product datasheet for **MC201095**

Alox8 (NM_009661) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Alox8 (NM_009661) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Alox8 |
| Synonyms: | 8-L; 8-LOX; 8S-; 8S-LOX; 15-LOX-2; 15-LOX-B; Alox; Alox15b |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC015253 sequence for NM_009661
 CAGCTTGCAGTAGAGAGCTAAACTGGTCAGGAGGATGGCGAAATGCAGGGTGAGAGTATCCACGGGGAA
 GCCTGTGGGGCTGGCACATGGGACAAAGTGTCTGTGAGCATCGTGGGAACCCACGGAGAGAGCCCTTAG
 TACCTCTGGACCATCTGGGCAAGGAGTTTCAGCGCCGGTGTGAAGAAGACTTCGAGGTGACGCTTCCCA
 GGACGTAGGCACTGTGCTGATGCTGCGAGTCCACAAAGCACCCCGGAAGTGTCCCTCCCGCTTATGTCT
 TTCCGTTCTGATGCCTGGTTCTGCCGCTGGTTCGAGCTGGAGTGGCTACCTGGGGCTGACTCCACTTCC
 CCTGTTATCAGTGGCTGGAAGGGCGGGGAGCTGGTGTGAGAGAGGGAGCAGCAAAGGTGCTCCTGGCA
 AGACCATCACCTACACTGCAGGATCAGCGCCAGAAGGAGCTTGAGTCCAGGCAGAAGATGTACAGCTGG
 AAGACTTACATTGAAGGTTGGCCTCGCTGCCTTACCACGAGACTGTGAAAGACTTGGACCTCAACATCA
 AGTACTCTGCGATGAAGAATGCCAAACTCTTCTTAAAGCCCACTCCGCGTATACGGAGCTGAAAGTCAA
 AGGGCTCCTGGACCGCACAGGACTCTGGAGGAGTCTGAGGGAGATGAGAAGGCTGTTAACTTCCGCAAG
 ACTCCAGCAGCAGAGTATGTGTTTGCACACTGGCAGGAAGATGCCTTCTTCGCTCCAGTTCCTAAATG
 GCATCAACCCGGTCTGATTCGCCGCTGTACAGTCTCCAAACAACCTCCCGGTACTGATGAAATGGT
 GGCCCCAGTGTGGGCCCTGGAACCAAGTCTGCAGGCTGAGTTGGAGAAGGGCTCCCTGTTCTTGGTGGAT
 CATGGCATTCTTCTGGAGTCCACACCAACATCCTCAATGAAAGCCTCAGTTCTCTGCAGCCCCGATGA
 CCCTGTTACACCAGAGCTCAGGGTCCGGACCCCTGCTTCCATTGCCATCCAGCTCAAACAGACTCCCGG
 GCCAGACAACCCCATCTTCTGCCAGCGATGACACGTGGGACTGGTTGCTGGCCAAGACCTGGGTTCCG
 AATTCTGAGTTTTACATCCATGAGGCTGTACACATCTGCTGCATGCCATCTGATTCCAGAAGTCTTTG
 CCTTGGCCACATTACGTGAGTGCCTAGGTGTACCCCTCTCTTCAAGCTATTGATTCCACATTCGGTA
 CACTGCACATCAACACGCTTGGCCGGAGCTGCTCGTTGCCCTGGGAAGTTGATAGACAAGTCCACA
 GGCTTGGCACTGGGGATTCTCTGACCTGATAAAGAGAAACATGGAGCAGCTGAAGTACTCTGTCTGT
 GTCTCCCTGAAGATATCCGAGCCGAGGTGTGGAAGACATCCCAGGCTACTATTACCGAGATGATGGGAT
 GCAGATCTGGGGGCAATAAAGAGCTTTGTCTCTGAAATAGTCAGCATCTACTATCCAAGTGCACATCC
 GTCCAAGATGACCAAGAGCTCCAGGCCTGGGTGAGGGAGATCTTCTCTGAGGGCTTCCCTCGGCCGAGAAA
 GCTCAGGTATGCCCTCCTTGTGGATACCCGGGAAGCCCTGGTCCAGTATATCACCATGGTATATTAC
 CTGCTCAGCCAAGCATGCAGCTGTGAGTTCAGGCCAGTTCGACTCTTGTGTTGGATGCCAATCTGCCA
 CCTACCATGCAGTACCACCACCTACTTCCAAAGGCCAGGCCCGCTGAGAGTTTCATAGCCACGCTCC
 CAGCAGTTAATTCGTCAGTTATCACATCATTGCTCTCTGGTGTGTAAGCGCAGAACCTGGGGACCAAG
 GCCCTGGGCACTATCCAGATGAACACTTCACAGAGGATGCCCCCGGCGAAGCGTGGCTGCCTCCAG
 AGAAAGCTGATCCAGATCTCAAGGGCATCAGGGAGAGGAACCGAGGCCTGGCACTGCCCTACACCTACC
 TGGATCCTCCCTCATTGAGAACAGTGTCTCCATCTAACATCTTGAGAAGACAGTCTGTGTGACATAT
 AGAACTCTTGACCATGCCTCTCCAGGCTAAGTCCCGTATGCTTCTCCTGGACAACCAAGCCCCATCTTA
 CACACACACACACACACACACCTAATAAAATCGAAACAGAAAAACCTAAACTCCACAGAAAGGCAAGA
 TCTCACACAGCAGAGAGCCATCCAAATGTTGGAGACCCTGAGCTTCAGCTCTGATTAACGGCTTTGCTG
 GTTTGCTTTGCTTTCTATTCCATTAACCATGGACGGTAACAGAAAGCACAGAACCCCTGGTCACTGCACA
 AAGCCACTGAGATCTCACCTCACCTGACACAAAGGCAGTATCATACAGGCTTATCAGGAACACAGGAA
 TTTGTCCAATCAAAGCCTACCCACTAGGTCCATCGTGACCTACGACCTCACACTGGCATGCTTTAGCTTT
 GAGAAGGGATTACTGGAGTCAAGTACGAAGAGAAGGACAGGACGAAGGCATGGCTCCATGTGGAAGAACA
 TATCTGCTCTTCCAGATGACCAGGGTAGCTCACAGCCATGTGTCATTCTAACTCCAGAGGTCTCTAGTGG
 CCATGAAGACTCCAGGCATTGAGGGATATACCAGTAGACACCAAAATTACTTTTTAAGAGAGAGGAA
 TGGGCTGGAGAGATGGCTCAGCGGTTAAGAGCACTGACTGCTCTTCCAGAGATCCTGAGTTCAATCCCA
 GCAACCACATGGTGGCTCACAACCATCTGTAATGGGATTTCGATGCCCTCTTCTGGCGTGTCTGAAGACAG
 CGACAGTGTATGCACATATATAAAATAAATAAATCTTTAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAA AA

Restriction Sites: RsrII-NotI
ACCN: NM_009661
Insert Size: 2034 bp

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| 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: | <ol style="list-style-type: none">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: | BC015253 , AAH15253 |
| RefSeq Size: | 2942 bp |
| RefSeq ORF: | 2034 bp |
| Locus ID: | 11688 |
| UniProt ID: | O35936 |
| Cytogenetics: | 11 B3 |
| Gene Summary: | This gene belongs to the lipoxygenase (LOX) gene family whose members encode enzymes that catalyze the addition of molecular oxygen to polyunsaturated fatty acids (PUFAs) to yield fatty acid hydroperoxides. The encoded enzyme preferentially metabolizes arachidonic acid to yield 8-hydroxyeicosatetraenoic acid (8-HETE), while metabolizing linoleic acid less efficiently. The gene may also function as a tumor suppressor. This gene is located in a cluster of related genes that spans approximately 75 kilobases on chromosome 11. [provided by RefSeq, Jan 2013] |