

## Product datasheet for **MC224311**

### Aox2 (NM\_001008419) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aox2 (NM\_001008419) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Aox2  
**Synonyms:** Aoh3; Aox311  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224311 representing NM\_001008419  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTGCCAGCCAGATTTTCGGATGATCTGGAGTTCTTTGTGAACGGGAGGAAGGTGACGGAGAAGA  
ATGTGGACCCAGAAGTCACTCTGCTGGCCTTCTGAGAAAAGAACTTATGCCTCACAGGAAGTAAAGGATGC  
GTGTGGAACAGGAGGCTGTGGGCCTGCACAGTATGGTGTACACAACACGATCCGGTGTGCAAGAAGACA  
AGACACTTCTCCGTCATGGCATGCCTGGTGCCCTGTGCTCCCTGCATGGGGCTGCTGTACCACCGTGG  
AAGGTGTGGGAAGCATCAAGACCAGGCTCCACCCCGTGCAGGAGAGGATCGCCAAGAGCCACGGCACCCA  
GTGTGGCTTCTGCACCCCTGGGATGGTGTGATGTCCATCTACACACTGCTCAGGAACCAACCCGAGCCCTCA  
GAGGAACAGCTCATGGAGGCCTTGGGAGGGAACCTCTGCCGCTGTACTGGGTATCGGCCAATTCTGGAGA  
GCGGCAGGACCTTCTGCATGGAGCCAGACGGTTGTCCACAGAAAGGAACAGGACAGTGTGCTTGGATCA  
GAAGGAAAGTGACTCATCGGGAAGCAAAAGTGATTTTGCACGAAGCTATTTGTGAAAGACGAGTCCAG  
CCCTTGGACCCGACCCAGGAGCTCATATTTCCCCCAGAACTCTGAGGATGGCTGAGAACCCAGAGAAGC  
AAACCCTAACCTTTTATGGAGAGAGAATCACCTGGATCGCCCCAGGAACCTCCAAGAACTCTTGGTGCT  
GAAAGCTAAGTACCCTGAAGCTCCTCATCTCGGGCAACACAGCCCTGGGACCAGCCATGAAGTCTCAA  
GGACACTTTTACCTGTCTCCTGTCTCCTGCTAGAATTCCTGATCTAAGAATGGTGAATAAAACAGTG  
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GCTCCACAGGAGAAAACCTCAGACCTACCGAGCACTCCTGAAACACCTCCGGAGCTTGGCGGGACAGCAG  
ATCCGGAACATGGCGTCTTAGGAGGACATGTTATAAGCAGGCATTGCTACTCGGACCTGAATCCTATCC  
TCTCTGTGGGCAACACCACACTCAATCTGCTGTCAGAAGAAGGCCCGCGGAGATTCCCCTCAGTGGACA  
TTTTCTTGCTGGGTTGGCAAGTGCAGACCTGAAGCCCAGGAGATTCTGGGTCTGTGTACATCCCACAC  
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GGTGGGGCCACACCGTCAAGCCACAAAAGTCTGCCAGCAGCTTCTGGGCCGGCGCTGGAACGCACTG  
ATGCTAGACGAGGCTTGCAGACTGCTTCTGGATGAAGTCTCCCTTCCAGGCTCAGCCCTGGGAGGCAAAAG



TGGAATTCAGGAGGACTCTGATTGTCAGCCTCTTCTCAAGTTCTACCTGGAGGTTCTGCAGGAACTGAA  
 GGCTGACCAGAAGCTGCCCGGAGTCCACCGACAGCCAGCGTTATCCAGAGATCGCAGACCGGTTCCCTA  
 AGCTCTCTGGGAGATTTCCAGGTCACGCTACCCCGGGAGTCCAAACATACCAGAGAGTAGATTCTCACC  
 AACCTCTCAAGATCCAGTTGGACGTCCCATCATGCACCTGTGAGGTCTTAAACATGCCACGGGGGAAGC  
 TGTATTTTGTGATGACATCCCTAGGGTGGATAAAGAACTTTCATGGCTTTAGTCACCAGTACCAGAGCT  
 CATGCAAGAATCATATCAATCGACTCATCTGAGGTCCTGACCTGCCTGGTGTGGTTGATGTAATAACAG  
 CTGAAGACATTCAGGCAACAATGGTGAAGAGGATGACAAATGGCTGGCTGTAGATAAGGTTCTCTGTGT  
 GGGCCAGGTCATCTGTGCCGTGGTGGCAGAGACTGATGTTTCAGGCAAAACGAGCAACTGAGAAGATAAAA  
 ATCACCTACGAGGATCTGAAACCTGTGATTTTCCACATCGAGGATGCCATAAAGCACAATTCGTTCTCTGT  
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 GATTTCATGAACAGTGGACGGATCAAAGCCCTAGACATTGAATGCTACATCAATGGAGGCTGCACATTGGA  
 TGACTCGGAGCTGGTAACAGAATTTCTGTACTAAAACCTGGAAAAATGCATACAAAATCCGAAACCTCAGA  
 CTCCGAGGTCGTGCCTGCATGACAACTTACCATCCAATACAGCTTTTCTGTTGGTGGCTTCCCTCAGG  
 GAGCCCTGGTAACAGAATCCTGCATCACAGCTGTGGCAGCCAAATGTGGGCTTCCACCAGAAAAGATTAG  
 GGAGAAAAACATGTACAAAACAGTTGATAAAACCATCTACAAGCAAGCGTTCAACCCTGACCCCTGATA  
 AGGTGTTGGAATGAGTGTCTGGACAAGTCTTCTTTCACATCAGAAGGACAAGAGTGGACGAGTTCAATA  
 AGAAGAGTTACTGGAAGAAGCGAGGCATTGCTATTGTCCCATGAAGTTTTCAGTTGGCTTTGCTGCGAC  
 AAGTACCATCAGGCGGCTGCGCTCGTCCATATCTACACCGATGGCTCTGTGTTGGTGGCACATGGAGGC  
 AATGAACTGGGGCAAGGTATTCACACCAAAATGTTACAGGTGGCCAGCCGTGAACTGAAAAATACCCCTGT  
 CTTATCTGCATATCTGTGAAACAAGTACAACAACAGTGCCCAATACAATCGCTACAGCCGCTCCGTTGG  
 AGCGGATGTCAACGGCAGGGCTGTGCGAATGCCTGTCAAATCCTTCTCAAACGCTTTGAGCCCGTCATT  
 AAGAAAAACCCAGAAGGGACATGGAGAGACTGGATAGAAGCAGCTTTTGAAGAAAGAAATCAGTCTTTCAG  
 CCACTGGATACTCAGGGGCTACAAGGCCTTCATGGACTGGGAGAAAGGAGAGGGAGACCCATTCCCGTA  
 CTATGTCTATGGAGCTGCATGTTCTGAGGTTGAAATCGACTGCCTGACAGGTGCTACAAGAAAATCAGA  
 ACCGACATTGTCATGGATGCATGTTGCAGCCTGAATCCGGCCATTGATATTGGGCAGATCGAAGGTGCAT  
 TTATTCAGGAATGGGCCTTTATACCACCGAGGAGCTACTCTACTCTCCAGAGGGCGTCTGTACTCTCG  
 GAGCCCGACAAGTACAAAATCCCAACTGTCACTGATGTCCCAGAGCAGTTTAACTGTCCCTTGCTGCCG  
 TCCTCTCAGACCCCGCTCACCTCTATTCTGCAAGGGCCTCGGGGAGTCTGGGATGTTCTAGGGTCAT  
 CTGTGTTTTTTGCCATTGTTGATGCGGTGGCTGCGGCACGGAGACAAAGAGACATAGCGGAGGACTTCAC  
 AGTGAAGAGCCCAGCAACCCAGAGTGGGTGCGGATGGCTGTGCAGATCGGTTACGGACATGATCCCC  
 AGAGATGACCCAAAAACGTTTAAACCTTGGTCTATACCTATAGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001008419
- Insert Size:** 4038 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\\_001008419.2](#), [NP\\_001008419.1](#)

**RefSeq Size:** 4776 bp

**RefSeq ORF:** 4038 bp

**Locus ID:** 213043

**UniProt ID:** [Q5SGK3](#)

**Cytogenetics:** 1 29.0 cM

**Gene Summary:** Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as phthalazine, as well as aldehydes, such as benzaldehyde and retinal. Cannot use hypoxanthine as substrate.[UniProtKB/Swiss-Prot Function]