

Product datasheet for **RN205476**

Aox2 (NM_001008522) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aox2 (NM_001008522) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aox2
Synonyms:	Aox2p; Aox3l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205476 representing NM_001008522 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCTTGCCCATCCCAGAGCTCCGATGAGTTGGAGTTCTTTGTGAACGGGAAGAAGGTGACAGAGAAGA
ATGTGGACCCAGAAGTCACTCTGCTGGCCTTCTGAGAAAGAACTTACGCCTCACGGGGACTAAGTATGC
CTGTGGGACAGGAAGCTGCGGGGCTGCACTGTGATGGTGTCCAGCACGATCCGGTGTGCAAGAAGACA
AGACACTTCTCTGTCATGGCATGCCTGGTGCCCTGTGCTCCCTGCATGGGGCTGCTGTCAACACCGTGG
AAGGTGTGGGAAGCATCAAGACCAGGCTACACCCCGTGCAGGAGAGACTCGCCAAGAGCCACGGCACCCA
GTGTGGATTCTGCAGCCCTGGGATGGTGTATGTCCATGTATGCTCTGCTCAGGAACCAACCCGAGCCCTCA
GAGGAGCAGCTCCTGGAAGCCTTGGGAGGTAATCTCTGTCGGTGTACTGGGTATCGGCCGATTCTGGAGA
GTGGCAGAACCTTCTGCATGGAGTCAGATGGTTGTCTGCAGAAAGGAACAGGACAGTGTGCTTGGATCA
GAAGGAAGGTGACTCATCTGGAAGCAAAAGTGATATTTGCACGGAGCTATTTGTGAAAGACGAGTCCAG
CCCTTGGACCAACCCAGGAGCTCATATTTCCCCAGAACTCCTGAGGATGGCTGAGAACCCAGAGAAGC
AAACACTAACCTTTTATGGAGAGAGAATTACCTGGATCGCCCCAGGAACCTCCAAGAACTCTTGGTGCT
GAAAGCCAAGTACCCTGAAGCCCTCTCATCTCAGGCAACACGGCTCTGGGACCAGCCATGAAGTCTCAA
GGACACTTTTACCCAGTTCTCTGTCCCTGCTAGAATTCCTGATCTAAGAATGGTGACTAAAACCAAGTG
GTGGACTGACCATAGGTGCCTGCTGCAGCCTGGCTCAGGTGAAAGACGCTTAGCTGAGAGCATCTCTGA
GCTCCCAGAGGAGAAAACCTCAGACCTACCGAGCTCTCCTGAAACACCTCCGTAGCTTGGCGGGACAGCAG
ATCCGGAACATGGCGTCCTTAGGTGGACATGTTATAAGCAGGCATTACTACTCGGACCTGAATCCCATCC
TCTCTGTGGGCAACGCCCACTCAATCTGCTGTGAGAAGAAGGCCTGAGGCAGATTCCCCCTCAATGGACA
TTTTCTTGCTGGGTTGGCAAATGAAGACCTGAAGCCTGAAGAGATTCTGGGGTGGTGTACATCCCCAC
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ATGCTGGCATGAGAGTCTGTCAAAGAAGGCACAGACATCATTGAGGAGCTGAGCATTGCCTATGGAGG
GGTGGGGCCACCACCGTCAGTGCACACAGATCCTGCCAGCAGCTCTGGGCCGGCGTTGGAACGCACTG



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CTGCTAGACGAGGCTTGCAGACTGCTCCTGGACGAAGTCTCCCTCCCAGGCTCAGCCGTGGGAGGCAAAG
 TGGAAATCAGGAGGACTCTATTGTGAGCTTCTTCTTCAAGTTCTACCTGGAGGTTCTACAGGAAGTAA
 GGCTGACAAGAGGCTGCTCCCTGAATCCACCGACAGCCAGCGTTATCCAGAGATCGCAGACGGGTCCCGA
 AGCTCTCTGGGAGATTTCCAGGTCACGCTACCCAGGGAGTCCAAACATACCAGAGAGTGAATTTCTACC
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 TGTATTTTGTGATGACATCCCCAGGGTGGATAAAGAACTTTTCATGGCTTTAGTGACCAGTACCAGAGCT
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 CTGAAGACATCCCGGGCAACAATGGTGAAGAGGATGACAAATTACTGGCTGTAGATAAGGTTCTCTGTGT
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 ATCACCTACGAGGATCTGAAGCCTGTGCTCTTCCACATCGAGGATGCCATACAGCACAATTCATTCTGT
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 GAAGGTTTCATGTTGGAGGGCAAGAACATTTCTACATGGAACACAGAGAGTGCTTGTTCATTCAAAGACA
 GAAGACAAAGAGCTGGACATGTATGTGTCCACACAGGATCCAGCCCATGTGCAGAAAACGGTGTCTCTG
 CTTTAAACATCCCGCTCAGCAGGATCACCTGCCACGTGAAACGTGTGGTGGAGGCTTTGGAGGAAAGGT
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 GTTCTGGACCGTGAGGATGACATGTTAATAACTGGGGGAAGACACCCATTATTTGCAAAATACAAAGTGG
 GATTTCATGAACAGTGGACGAATCAAAGCCCTAGACATTGAATGCTACATCAATGGAGGATGCACACTGGA
 TGACTCGGAGCTGGTAACAGAATTTCTTGTAATAAACTGGAAAATGCATATAAAATCCGCAACCTCAGA
 CTTTCGAGGTCGTGCCTGCATGACAAATTTACCATCCAATACAGCCTTTCGTGGGTTTGGCTTCCCACAAG
 GAGCCCTGGTGACAGAATCTTGATCACAGCTGTGGCAGCCAAATGTGGGCTTCCACCAGAGAAGATTAG
 GGAGAAAAACATGTACAAAACAGTTGATAAAACCATCTACAAAACAGCGTTCAACCCGAACCCCTGATA
 AGGTGCTGGAACGAGTGTCTGGACAAGTCTTCTTTGCCATTAGAAGGACAAGAGTGGACGAGTTCAATA
 AGAAGAGTTACTGGAGGAAGAGAGGCATTGCGGTCGTCCCATGAAGTTTTCAGTTGGCTTTGCTGCGAC
 AAGCTATCATCAGGCAGCCGCTCGTTACATCTACACCGACGCTCTGTGTTGGTGGCAGATGGAGGC
 AATGAGCTGGGACAAGGCATTACACCAAAATGTTACAGGTGGCCAGCCGTGAATTGAAAATACCCATGT
 CGTACCTGCACACCAGCGAAACATGCACAGCAGCGGTGCCAATACAATTGCTACGGCCGCGTCCGTCCG
 AGCCGATGTCAATGGCAGAGCTGTGCAGATGCCTGTGATCCTTCTCAAACGTCTTGAGCCCGTCATT
 AAGAAAAACCCGAAGGGACATGGAGAGCTGGATAGAAGCAGCCTTTGAACAAAGGATCAGTCTTTCAG
 CCACCGGATACAACAGGGGCTACAAGGCCTTCATGGACTGGGAGAAGGGAGAGGGAGACCCATTCCCATA
 CTATGTCTATGGAGCTGCGTGTCTGAGGTTGAAATCGACTGCCTGACAGGTGCTCACAAGAAAATGAGA
 ACCGACATTGTATGGATGCCTGTGACGCTGAATCCAGCCATCGACGTTGGGAGATCGAAGGTGCGT
 TTATTCAGGAATGGGCCTTTATACCACAGAGGACGTGCACTACTCTCCAGAGGGCGTCCGTACTCTCG
 GAGCCCGGACAAGTACAAAATCCCAACTGTCACTGATGTCCCGGAGCAGTTAATGTGTCTTTGCTGCCA
 TCATCTCAGACTCCGCTCACCATCTACTCGTCAAAGGGCCTCGGGGAGTCCGGGATGTTCTAGGGTCAT
 CCGTATTTTTCGCCATTGCTGATGCGGTGGCTGCGGCACGGAGACAAAGAGACATAGCCGAGGACTTCAC
 AGTGAAGAGCCCAGCAACCCAGAGCGGTGCGGATGGCCTGTGCAGACCGGTTACCCGACATGATCCCG
 AGAGATGACCCAAAGACATTTAAACCTTGGTCTATACCTATAGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001008522

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:	<u>NM_001008522.1, NP_001008522.1</u>
RefSeq Size:	4360 bp
RefSeq ORF:	4038 bp
Locus ID:	316421
UniProt ID:	<u>Q5QE78</u>
Cytogenetics:	9q31
Gene Summary:	Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as phthalazine, as well as aldehydes, such as benzaldehyde and retinal.[UniProtKB/Swiss-Prot Function]