

Product datasheet for **SC302981**

AOC2 (NM_001158) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AOC2 (NM_001158) Human Untagged Clone
Tag:	Tag Free
Symbol:	AOC2
Synonyms:	DAO2; RAO; SSAO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001158 edited
 ATGCATCTCAAGATAGTCTGGCGTTCCCTGGCACTGTCCCTCATTACCATCTTTGCCCTG
 GCCTATGTTTTGCTGACCAGCCAGGTGGTTCCAGCCAGCCTCCCCTGCCCCTCTGTA
 TCCCATAGGGCCAGCCCTGGCCACACCCTGGCCAGAGCCAGCTGTTGCAGACCTGAGC
 CGAGAGGAGTTGACAGCTGTGATGCGCTTCTGACCCAGCGGCTGGGGCCAGGGCTGGTG
 GACGCAGCCAGGCTCAGCCCTCGGACAACCTGCATCTTCTCAGTGGAGCTGCAGCTGCC
 CCCAAGGCTGCAGCCCTGGCCACCTGGACAGGGGGAGCCCCCACCTGCCCGGAGGCA
 CTGGCCATCGTCCTCTTTGGTGGACAACCCAACCCAATGTGAGTGAGCTGGTGGTGGG
 CCGCTGCCTCACCCCTCGTACATGCGGGATGTGACTGTGGAGCGTCACGGCGGGCCCTG
 CCCTATCACCGTCGCCCCGTGCTGAGAGCTGAGTTACACAGATGTGGAGGCATCTGAAA
 GAGGTGGAGCTACCCAAGGCACCCATCTTCTGTCGTCCACCTTCAACTACAATGGCTCT
 ACCCTGGCAGCTGTGCATGCCACCCTCGGGGCTTGCCTCAGGGGACCGAGCTACCTGG
 ATGGCCCTCTACCATAACATCTCAGGGGTGGTCTTTTCTTACCCCGTGGGGCTGGAG
 CTACTACTGGACCACAGGGCCCTGGACCCTGCCACTGGACTGTCCAGCAGGTCTTCTAC
 CTTGGGCACTACTATGCAGACTTGGCCAGTTGGAACGGGAGTTAAGTCTGGCCGGTTG
 GAAGTGGTTAGAGTCCCTCTACCTCCACCAATGGAGCTTCATCCCTGAGGTCTCGGAAC
 TCTCCAGGTCTCTTCCCCTCTCAGTTCTCGCCCCAGGGTCCCAGTACAGTGTGCAA
 GGAAACCTGGTGGTATCCTCCCTCTGGTCATTTACCTTTGGCCATGGGGTGTTCAGCGGC
 CTGAGGATTTTTGATGTTCCGGTTCAGGGTGAGCGAATAGCCTATGAAGTCAGTGTCCAG
 GAGTGTGTATCTATCTATGGTCCGATTACCCAAGACGATGTGACTCGCTATTTGGAT
 AGCAGCTTTGGACTCGGCCGTAACAGCCGAGGCTTGGTGGGGGAGTGGACTGCCCTAT
 CAAGCCACGATGGTGGACATCCATATATTAGTGGGCAAAGGGGAGTCCAGCTGCTTCCA
 GGGGCTGTGTGTATTTGAGGAAGCCAGGGACTGCCCTTGAAGGCACCACAATTAC
 CTTCAAAATCATTCTATGGTGGTTTGGCCAGCTCAGCCCTTGTGGTCAAGTCTGTGTCA
 TCTGTGGCAACTATGACTACATTTGGGACTTTGTGTTGTACCAAAATGGGGCACTTGAA
 GGGCGGGTCCATGCCACGGGTTATATCAACACAGCTTTCCTGAAAGGGGAGAGGAGGGC
 CTCCTCTTTGGAAACCGTGTGGGGAAAGAGTGTGGAAACGGTGCACACACATGCCTTC
 CACTTCAAGCTGGACCTGGATGTGGCAGGGCTGAAAACTGGGTGGTAGCTGAAGACGTG
 GTGTTAAACCTGTGGCTGCCCTGGAACCCGGAGCACTGGCTACAGCGCCACAGCTG
 ACTCGGCAGTCTGGGAAAGGAGGACCTGACAGCTTTTTCTTGGGAAGCCCCCTACCC
 CGCTACCTCTACCTGGCTAGCAACCAGACTAATGCGTGGGGTACCAGCGCGGATACCAG
 CTTGTGGTGACCCAGAGAAAGGAGGAGGAGTACAGAGCAGTAGCATCTATCACCCAGAAT
 GACATCTGGACACCCACAGTTACCTTTGCTGACTTCATCAACAATGAAACCTCTTAGGA
 GAGGATCTGGTGGCTTGGGTACAGCCAGCTTCTGCACATTCCTCATGCCGAGGACATC
 CCAAACACAGTACTCTGGGGAACAGAGTTGGCTTCTTGTCCGACCCTATAACTCTTT
 GATGAGGACCCCTCCATCTTCTCCCCTGGCAGTGTCTACTTTGAGAAGGGCCAGGATGCT
 GGGCTCTGCAGCATCAATCTGTGGCTGCCTCCCCGACCTGGCAGCCTGTGTCCCGGAC
 TTACCCCTTTCTTACCACGGCTTCTAGC

Restriction Sites: Please inquire

ACCN: NM_001158

Insert Size: 2200 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).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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:	<u>NM_001158.3, NP_001149.2</u>
RefSeq Size:	2600 bp
RefSeq ORF:	2190 bp
Locus ID:	314
UniProt ID:	<u>O75106</u>
Cytogenetics:	17q21.31
Protein Families:	Transmembrane
Protein Pathways:	beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	<p>Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes and ammonia in the presence of copper and quinone cofactor. This gene shows high sequence similarity to copper amine oxidases from various species ranging from bacteria to mammals. The protein contains several conserved motifs including the active site of amine oxidases and the histidine residues that likely bind copper. It may be a critical modulator of signal transmission in retina, possibly by degrading the biogenic amines dopamine, histamine, and putrescine. This gene may be a candidate gene for hereditary ocular diseases. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) uses an alternate in-frame splice site in the coding region, compared to variant 2. It encodes isoform a which is shorter than isoform b.</p>