

Product datasheet for **RG217318**

AOC2 (NM_001158) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AOC2 (NM_001158) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AOC2
Synonyms:	DAO2; RAO; SSAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217318 representing NM_001158
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATCTCAAGATAGTCTGGCGTTCCTGGCACTGTCCCTCATTACCATCTTTCGCCTGGCCTATGTTT
 TGCTGACCAGCCCAGGTGGTTCAGCCAGCCTCCCCTGCTGTATCCCATAGGGCCCAGCCCTG
 GCCACACCCTGGCCAGAGCCAGCTGTTTGCAGACCTGAGCCGAGAGGAGTTGACAGCTGTGATGCGCTTT
 CTGACCCAGCGGCTGGGGCCAGGGCTGGTGGACGACAGCCAGGCTCAGCCCTCGGACAACAGCATCTTCT
 CAGTGGAGCTGCAGCTGCCCCCAAGGCTGCAGCCCTGGCCACCTGGACAGGGGAGCCCCCACCTGC
 CCGGGAGGCACTGGCCATCGTCTCTTTGGTGGACAACCCCAACCAATGTGAGTGAGCTGGTGGTGGGG
 CCGCTGCCTCACCCCTCGTACATGCGGGATGTGACTGTGGAGCGTCACGGCGGGCCCTGCCCTATACC
 GTCGCCCGGTGCTGAGAGCTGAGTTTACACAGATGTGGAGGCATCTGAAAGAGGTGGAGCTACCCAAGGC
 ACCCATCTTCTGTCGTCACCTTCAACTACAATGGCTCTACCCTGGCAGCTGTGCATGCCACCCCTCGG
 GGCTTGGCCTCAGGGGACCGAGCTACCTGGATGGCCCTTACCATAACATCTCAGGGGTTGGTCTTTTCC
 TTCACCCCGTGGGGCTGGAGCTACTACTGGACCACAGGGCCCTGGACCCTGCCACTGGACTGTCCAGCA
 GGTCTTCTACCTTGGGCACTACTATGCAGACTTGGGCCAGTTGGAACGGGAGTTTAACTCTGGCCGGTTG
 GAAGTGGTTAGAGTCCCTCTACCTCCACCAATGGAGCTTCATCCCTGAGGTCTCGGAACCTCCAGGTC
 CTCTTCCCCCTTTCAGTTCTCGCCCCAGGGTTCACAGTACAGTGTGCAAGGAAACCTGGTGGTATCCTC
 CCTCTGGTCATTTACCTTTGGCCATGGGGTGTTCAGCGCCTGAGGATTTTGTGTTCCGGTTCAGGGT
 GAGCGAATAGCCTATGAAGTCAGTGTCCAGGAGTGTGTATCTATCTATGGTGCCGATTACCCAAGACGA
 TGCTGACTCGCTATTTGGATAGCAGCTTTGGACTCGGCCGTAACAGCCGAGGCTTGGTGGGGGAGTGGGA
 CTGCCCTATCAAGCCACGATGGTGGACATCCATATATTAGTGGGCAAAGGGGCAGTCCAGCTGCTTCCA
 GGGGCTGTGTGTATTTGAGGAAGCCAGGGACTGCCCTTCGAAGGCACCACAATTACCTTCAAATC
 ATTTCTATGGTGGTTTGGCCAGCTCAGCCCTTGTGGTCAGGTCTGTGTCATCTGTGGCAACTATGACTA
 CATTTGGGACTTTGTGTTGTACCAAAATGGGGCACTTGAAGGGCGGGTCCATGCCACGGTTATATCAAC
 ACAGCTTTCCTGAAAGGGGGAGAGGAGGGCCTCCTTTGGGAACCGTGTGGGGAAAGAGTGTGGGAA
 CGGTGCACACACATGCCTTCCACTTCAAGCTGGACCTGGATGTGGCAGGGCTGAAAACTGGGTGGTAGC
 TGAAGACGTGGTGTAAACCTGTGGCTGCCCTGGAACCCGGAGCACTGGCTACAGCGCCACAGCTG
 ACTCGGCAGGTCCTGGGAAAGGAGGACCTGACAGCTTTTCTTGGGAAGCCCCCTACCCGCTACCTCT
 ACCTGGCTAGCAACCAGACTAATGCGTGGGGTACCAGCGCGGATACCAGCTTGGGTGACCCAGAGAAA
 GGAGGAGGAGTACAGAGCAGTAGCATCTATCACCAGAATGACATCTGGACACCCACAGTTACCTTTGCT
 GACTTCATCAACAATGAAACCCTCTTAGGAGAGGATCTGGTGGCTTGGGTACAGCCAGCTTCTGCACA
 TTCCCCATGCCGAGGACATCCCAAACACAGTACTCTGGGGAACAGAGTTGGCTTCTTGTCCGACCCTA
 TAACTTCTTTGATGAGGACCCCTCCATCTTCTCCCTGGCAGTGTCTACTTTGAGAAGGGCCAGGATGCT
 GGGCTCTGCAGCATCAATCCTGTGGCTGCCTCCCCGACCTGGCAGCCTGTGTCCCGACTTACCCCTT
 TCTTTACCACGGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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_001158.5](#)

RefSeq Size: 2600 bp

RefSeq ORF: 2190 bp

Locus ID: 314

UniProt ID: [O75106](#)

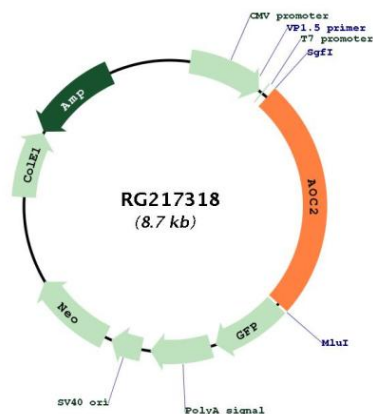
Cytogenetics: 17q21.31

Protein Families: Transmembrane

Protein Pathways: beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism

Gene Summary: 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]

Product images:



Circular map for RG217318