

## Product datasheet for **RC217318**

### AOC2 (NM\_001158) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AOC2 (NM_001158) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AOC2
Synonyms:	DAO2; RAO; SSAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC217318 representing NM\_001158  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

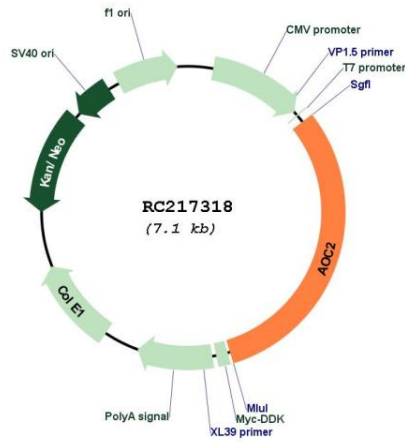
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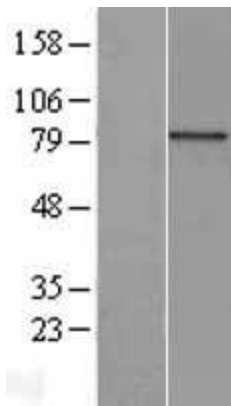


<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001158.5</a>
<b>RefSeq Size:</b>	2600 bp
<b>RefSeq ORF:</b>	2190 bp
<b>Locus ID:</b>	314
<b>UniProt ID:</b>	<a href="#">O75106</a>
<b>Cytogenetics:</b>	17q21.31
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism
<b>MW:</b>	80.3 kDa
<b>Gene Summary:</b>	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 RC217318



Western blot validation of overexpression lysate (Cat# [LY400465]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217318 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).