

Product datasheet for RC222991L3

AOC2 (NM_009590) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: AOC2 (NM_009590) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: AOC2

Synonyms: DAO2; RAO; SSAO

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

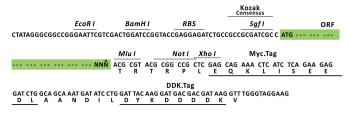
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC222991).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_009590

ORF Size: 2268 bp



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AOC2 (NM_009590) Human Tagged Lenti ORF Clone - RC222991L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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 009590.2

RefSeq Size:2681 bpRefSeq ORF:2271 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

MW: 83.5 kDa

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]