

## Product datasheet for **TL314763**

### AOC2 Human shRNA Plasmid Kit (Locus ID 314)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	AOC2 Human shRNA Plasmid Kit (Locus ID 314)
Locus ID:	314
Synonyms:	DAO2; RAO; SSAO
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	AOC2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 314). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001158</a> , <a href="#">NM_009590</a> , <a href="#">NM_001158.1</a> , <a href="#">NM_001158.2</a> , <a href="#">NM_001158.3</a> , <a href="#">NM_001158.4</a> , <a href="#">NM_009590.1</a> , <a href="#">NM_009590.2</a> , <a href="#">NM_009590.3</a> , <a href="#">BC142641</a> , <a href="#">NM_001158.5</a> , <a href="#">NM_009590.4</a>
UniProt ID:	<a href="#">O75106</a>
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).