

## Product datasheet for TP322991L

### AOC2 (NM\_009590) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human amine oxidase, copper containing 2 (retina-specific) (AOC2), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222991 representing NM_009590 Red=Cloning site Green=Tags(s)

MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSOLFADLSREELTAVMRF  
LTQRLGPGLDAAQAQPSDNCIFSVLQLPPKAAALAHLDRGSPPPAREALAIVLFGGQPQPNVSELVVG  
PLPHPSYMRDVTVERHGGPLPYHRRPVLRAEFTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPR  
GLRSGDRATWMALYHNISGVGLFLHPVGLLELLDHRALDPAHWTVQVQVYLGHYADLGQLEREFKSGRL  
EVVRVPLPPPNGASSLRNSPGPLPPLQFSPQGSQYSVQGNLVSSLWSFTFGHGVFSGLRIFDVRVFG  
ERIAEYVSVQECVSIYGADSPKTMTRYLDSSFGLGRNSRGLVVRGVDPCPYQATMVDIHILVKGAVQLLP  
GAVCVFEEAQGLPLRRHHNYLQNHFYGGGLASSALWRSVSSVGNVDYIWFVLYPNGALEGRVHATGYIN  
TAFKKGEEGLLFGNRVGERVLGTVHTHAFHFKLDLDVAGLKNWVAEDVFKPVAAPWNPHEHWLQRPQL  
TRQVLGKEDLTAFLGSPLPYLYLASNQTNAWGHQRGYRIQIHSPLGIHIPLESDMERALSWSGRYQLVW  
TQRKEESQSSSIYHQNDIWTPTVTFADFINNETLLGEDLVAVVTASFLHIPHAEDIPNTVTLGNRVGFL  
LRPYNFFDEDPSIFSPGSVYFEKGQDAGLCSINPVACLPDLAACVPLDPPFSYHGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

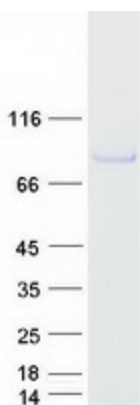
Tag:	C-Myc/DDK
Predicted MW:	83.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_033720</a>
<b>Locus ID:</b>	314
<b>UniProt ID:</b>	<a href="#">O75106</a>
<b>RefSeq Size:</b>	2681
<b>Cytogenetics:</b>	17q21.31
<b>RefSeq ORF:</b>	2268
<b>Synonyms:</b>	DAO2; RAO; SSAO
<b>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]
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism

### Product images:



Coomassie blue staining of purified AOC2 protein (Cat# [TP322991]). The protein was produced from HEK293T cells transfected with AOC2 cDNA clone (Cat# [RC222991]) using MegaTran 2.0 (Cat# [TT210002]).