

Product datasheet for **TP322991M**

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, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222991 representing NM_009590 Red=Cloning site Green=Tags(s)

MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSQFLFADLSREELTAVMRF
LTQRLGPGLDAAQAQPSDNCIFSVLQLPPKAAALAHLDKRGSPPPAREALAIVLFGGQPQPNVSELVVG
PLPHPSYMRDVTVERHGGPLPYHRRPVLRAEFTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPR
GLRSGDRATWMALYHNISGVGLFLHPVGLLELLLDHRALDPAHWTVQVQVYFLGHYYADLGQLEREFKSGRL
EVVRVPLPPPNGASSLRNSPGPLPPLQFSPQGSQYSVQGNLVSSLWSFTFGHGVFSGLRIFDVRVFG
ERIAEYVSVQECVSIYGADSPKTMTRYLDSSFGLGRNSRGLVVRGVDPCYQATMVDIHILVKGAVQLLP
GAVCVFEEAQGLPLRRHHNYLQNHFYGGGLASSALWVRVSSVGNVDYIWFVLYPNGALEGRVHATGYIN
TAFKKGEEGLLFGNRVGERVLGTVHTHAFHFKLDLDVAGLKNWVAEDVFKPVAAPWNPHEHWLQRPQL
TRQVLGKEDLTAFLGSLPRYLYLASNQTNAWGHQRGYRIQHSPLGIHIPLESDMERALSWSGRYQLVW
TQRKEESQSSSIYHQNDIWTPTVTFADFINNETLLGEDLVAVVTASFLHIPHAEDIPNTVTLGNRVGFL
LRPYNFFDEDPSIFSPGSVYFEKGQDAGLCSINPVACLPDLAACVPLDPPFSYHGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

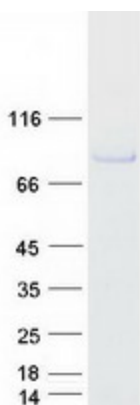
Tag:	C-Myc/DDK
Predicted MW:	83.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_033720
Locus ID:	314
UniProt ID:	O75106
RefSeq Size:	2681
Cytogenetics:	17q21.31
RefSeq ORF:	2268
Synonyms:	DAO2; RAO; SSAO
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]
Protein Families:	Transmembrane
Protein Pathways:	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]).