

## Product datasheet for PH322991

### AOC2 (NM\_009590) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	AOC2 MS Standard C13 and N15-labeled recombinant protein (NP_033720)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222991
Predicted MW:	83.5 kDa
Protein Sequence:	>RC222991 representing NM_009590 Red=Cloning site Green=Tags(s)

MHLKIVLAFLLALSLITIFALAYVLLTSPGGSSQPPHPCPSVSHRAQPWPHPGQSOLFADLSREELTAVMRF  
LTQRLGPGLVDAQAQPSDNCIFSVELQLPPKAAALAHLDKRGSPPPAREALAIIVLFGGQPQPNVSELVVG  
PLPSPSYMRDVTVERHGGPLPYHRRPVLRAEFTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPR  
GLRSGDRATWMLYHNIISGVGLFLHPVGLLELLDHRALDPAHWTVQVYFYLGHYYADLGQLEREFKSGRL  
EVVRVPLPPPNGASSLSRNSPGPLPPLQFSPQGSQYSVQGNL VVSSLWSFTFGHGVFSGLRIFDVRFQG  
ERIAEYVSVQECVSIYGADSPKTMTRYLDSSFGLGRNSRGLVRGVDCPYQATMVDIHILVGKGAVQLLP  
GAVCVFEEAQGLPLRRHHNYLQNHFYGGLASSALVVRVSVSVGNVDYIWFVLYPNGALEGRVHATGYIN  
TAFKGGEEGLLFGNRVGERVLGTVHTAFHFKLDLDVAGLKNWVVAEDVVFKPAAPWNPPEHWLQRPQL  
TRQVLGKEDLTAFSLGSPLPRYLALASNTAWGHQRGYRIQIHSPLGIHIPLSDMERALSWGRYQLLV  
TQRKEEESQSSSIYHQNDIWTPTVTFADF INNETLLGEDLVAVWTASFLHIPHAEDIPNTVTLGNRVGL  
LRPYNFFDEDPSIFSPGSVYFEKQDAGLCSINPVACLPDLAACVPDLPPFSYHGF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_033720</a></u>



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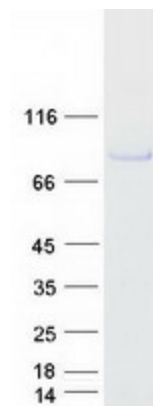
RefSeq Size:	2681
RefSeq ORF:	2268
Synonyms:	DAO2; RAO; SSAO
Locus ID:	314
UniProt ID:	<a href="#">O75106</a>
Cytogenetics:	17q21.31

**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]).