

Product datasheet for **RG219221**

Aldehyde Oxidase (AOX1) (NM_001159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldehyde Oxidase (AOX1) (NM_001159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldehyde Oxidase
Synonyms:	AO; AOH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219221 representing NM_001159 Red=Cloning site Blue=ORF Green=Tags(s)

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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219221 representing NM_001159
 Red=Cloning site Green=Tags(s)

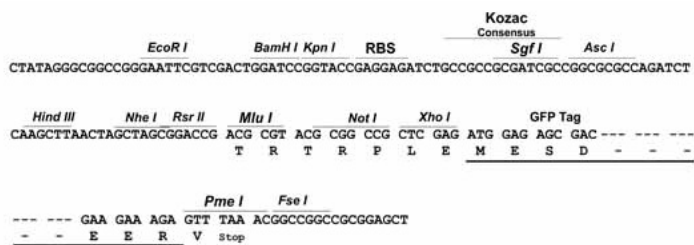
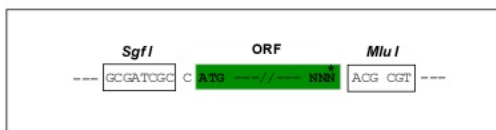
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TRTRPLE - GFP Tag - V

Restriction Sites:
 Cloning Scheme:

SgfI-MluI

Cloning sites used for ORF Shutting:

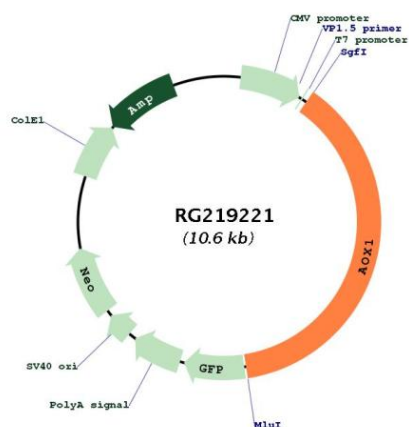


ACCN: NM_001159

ORF Size: 4014 bp

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:	<ol style="list-style-type: none">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_001159.4
RefSeq Size:	4949 bp
RefSeq ORF:	4017 bp
Locus ID:	316
UniProt ID:	Q06278
Cytogenetics:	2q33.1
Domains:	Ald_Xan_dh_C, fer2, FAD_binding_5, fer2_2, CO_deh_flav_C
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Metabolic pathways, Nicotinate and nicotinamide metabolism, Tryptophan metabolism, Tyrosine metabolism, Valine, leucine and isoleucine degradation, Vitamin B6 metabolism
Gene Summary:	Aldehyde oxidase produces hydrogen peroxide and, under certain conditions, can catalyze the formation of superoxide. Aldehyde oxidase is a candidate gene for amyotrophic lateral sclerosis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219221