

Product datasheet for SC110827

Aldehyde Oxidase (AOX1) (NM_001159) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldehyde Oxidase (AOX1) (NM_001159) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aldehyde Oxidase
Synonyms:	AO; AOH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110827 sequence for NM_001159 edited (data generated by NextGen Sequencing)

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ATGGACCGGGCGTCCGAGCTGCTCTTCTACGTGAACGGCCGAAGGTGATAGAAAAAAT
GTCGATCCTGAAACAATGCTGTTGCCTTATTTGAGGAAGAAGCTTCGACTCACAGGAACT
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Clone variation with respect to NM_001159.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001159 unedited
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 GGGTCGGTGCCGCCGGTCCCAGGTGCCGCTACTTCCCAGAACCCTCCGCCTCCCGCTCC
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 GAGGAAGAAGCTTCGACTCACAGAACTAAGTATGGCTGTGGAGGAGGAGGCTGTGGTGC
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 CCACCCAGAGCCCACTCTGGATCAGTAACTGATGCCCTTGGTGAACCTGTGCCGTTGC
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001159 unedited
 CTTGGACGCGGCCGAATCTAGNAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTCATATT
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 AGAAGCCAAGTAGGAGTCACATGCAAGTCATCACCTATTCATTTAGCTGGATGGATTGA
 AGAGACAGAGTAATGACGAATATCACCCTAGAGGAAACCAATTAGTGTTTATAACATTGA
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 TCAGTGGACTATTAAGGGTCAAGGGTCCATGCAGGCCTTTTTCCCTGACCGGCTGCATTC
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 GTTCCCACTGCGTCATTCGTTCCCTTAATCCCATCCCCCGCGGTTTTACCGCCCATC
 TCCTTTCTTACATTCCCATCTCTATTGCTCTCTACTCCCCCTCCTTCTCACCTCC
 CCACCCACTGTATTATTACTCTCCTTCTCCTCCCCCTCCTTCCACTCCCACTCACCTA
 TTTTTACCCCATTCACGCACACTCTATCCCTTATACCTACTCCCA

Restriction Sites:

NotI-NotI

ACCN:

NM_001159

Insert Size:

4640 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001159.3 , NP_001150.3
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]