

Product datasheet for SC118941

D Amino Acid Oxidase (DAO) (NM_001917) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D Amino Acid Oxidase (DAO) (NM_001917) Human Untagged Clone
Tag:	Tag Free
Symbol:	D Amino Acid Oxidase
Synonyms:	DAAO; DAMOX; OXDA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118941 sequence for NM_001917 edited (data generated by NextGen Sequencing)

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ATGCGTGTGGTGGTATTGGAGCAGGAGTCATCGGGCTGTCCACCGCCCTCTGCATCCAT
GAGCGCTACCACTCAGTCTGCAGCCACTGGACATAAAGGTCTACGCGGACCGCTTCACC
CCACTCACCACCACCGACTGGCTGCCGCCTCTGGCAGCCCTACCTTTCTGACCCCAAC
AACCCACAGGAGGCGGACTGGAGCCAACAGACCTTTGACTATCTCCTGAGCCATGTCAT
TCTCCCAACGCTGAAAACCTGGGCCTGTTCTAATCTCGGGCTACAACCTCTTCCATGAA
GCCATTCCGGACCCTTCTGGAAGGACACAGTTCTGGGATTTCCGGAAGCTGACCCCAAG
GAGCTGGATATGTTCCAGATTACGGCTATGGCTGGTTCCACACAAGCCTAATTCTGGAG
GGAAAGAACTATCTACAGTGGCTGACTGAAAGGTTAACTGAGAGGGGAGTGAAGTTCTTC
CAGCGGAAAGTGGAGTCTTTTGAGGAGGTGGCAAGAGAAGGCGCAGACGTGATTGTCAAC
TGCACTGGGGTATGGGCTGGGGCCTACAACGAGACCCCTGCTGCAGCCAGGCCGGGGG
CAGATCATGAAGGTGGACGCCCTTGGATGAAGCACTTCAATTCTACCCATGACCCAGAG
AGAGGCATCTACAATCCCGTACATCATCCCAGGGACCCAGACAGTTACTCTTGGAGGC
ATCTTCCAGTTGGGAACTGGAGTGAATAAACAATATCCAGGACCACAACACCAATTTGG
GAAGGCTGCTGCAGACTGGAGCCCACTGAAGAATGCAAGAATTATTGGTGAACGAACT
GGCTTCCGGCCAGTACGCCCCAGATTCGGCTAGAAAGAGAACAGCTTCGCACTGGACCT
TCAAACACAGAGGTCATCCAACTATGGCCATGGAGGCTACGGGCTCACCATCCACTGG
GGATGTGCCCTGGAGGCAGCCAAGCTCTTTGGGAGAATCTGGAAGAAAAGAAATTGTCC
AGAATGCCACCATCCCACCTCTGA

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Clone variation with respect to NM_001917.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001917 unedited AGGATTTGTATACGACTTCTATAGGGCGGCCGGAATTCGCACGAGGGAGATCCAGCCTC TCAAACATCCAGCAGAGAGACCATAGGCTGCTGCAATGCGTGTGGTGGTATTGGAGCAG GAGTCATCGGGCTGTCCACCGCCCTCTGCATCCATGAGCGCTACCACTCAGTCTGCAGC CACTGGACATAAAGGTCTACGCGGACCGCTTACCCCACTCACCACCACCGACGTGGCTG CCGGCCTCTGGCAGCCCTACCTTTCTGACCCCAACAACCCACAGGAGGCGGACTGGAGCC AACAGACCTTTGACTATCTCCTGAGCCATGTCCATTCTCCCAACGCTGAAAACCTGGGCC TGTTCTTAATCTCGGGCTACAACCTCTTCCATGAAGCCATTCGGACCCTTCTGGAAGG ACACAGTTCTGGGATTTTCGGAAGCTGACCCCAAGAGAGCTGGATATGTTCCAGATTACG GCTATGGCTGGTCCACACAAGCCTAATTCTGGAGGAAAGAAGTATCTACAGTGGCTGA CTGAAAGGTTAACTGAGAGGGGAGTGAAGTTCTTCCAGCGAAAGTGGAGTCTTTTGAGG AGGTGGCAAGAGAAGGCGCAGACGTGATTGTCAACTGCACTGGGTATGGGCTGGGGCGC TACAACGAGACCCCTGCTGCAGCCAGCCNGGGCAGATCATGAAAGTGGACGCCCT TGGATGAAGCACTTATTCTCACCCATGACCCAGAGAGAAGCATCTACCATTCCCCGT ACATCATCCCCAGACCCAGACAGTTACTTTGGAGGCATCTCCAGTTGGGAAACTGGA GTGAACTAAACATATCCAGGACCACACACCATTTGTGGAAGCTGCTGCAGACTGAAGCC AACTGAAGATGCCAGATNTATTGGTGACGAACTGGCTTCTCCCATCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001917 unedited CGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGCAGGACTTTTCAGAACCTTT AATATGTTAGTACAACCTGTAATCAGGTTACTTAGCCTCAATTATCTCCATTTTCTGTG GCTCTGGGCAGTTGGCCTCTTTGATTTTCTGAGCTGTCTTTCTTCTGAAGACTCATGGA ATGACAGCCTCAGCTGTTCTTTATAATGCCAGACCCAGAGAAGGTAGAGGGATTTCACTG ATGAGAGGGGCCCATGTTGGGCTGAACCTTCTCCAGGCACTACTTTGTGGCTTCTC TCACCTCATGCTTCTTTGAGGAAAGAAGTGAGGGAGAAGCAATGGCTTATGAAGGAGCAC ATTGATTCATTGGCTGAGGGGAGAAGGGAGTTCTTGTGGGGGGAGGCAGCAGTCACTGGA GTCTTCAGAGGTGGGATGGTGGCATTCTGGACAATTTCTTTTCTTCCAGGATTCTCCAA AGAGCTTGGCTGCCTCCAGGGCAGATCCCCAGTGGATGGTGGAGCCGTAGCCTCCATGGC CATAGTTGTGGATGACCTCTGTGTTTGAAGGTCCAGTCCGAGGCTGTTCTCTTTTAGCC GAATCTGGGGGCGTACTGGCCGGAAGCCAGTTCGTTACCAATAATTCTGCATTCTTCA GTGTGGGCTCCAGTCTGCAGCAGCCTTCCCAAATGGTGTGGTGGTGGTGGATGTTGTTA GTTCACTCCAGTTTCCCAACTGGAAGATGCCTCCAAGAGTAAGTGTCTGGGTCCCTGGGA TGATGTACGGGGCATTGTAATGCCTCTCTGGCTCATGGGTGAGAATGAAGTGCTTCT CCCAGGGGCGTCCACCTTCTGATCTGCCCCCGCCTCGCTGANANGGGGTCTCCGTGTAA CGCCCCACCTACCCATGCCAGTGGACATCACTCTGCGCTCTCTTGCACTCCCAAAGA CCCCTTTGCTGGGAGACTTCTCCCT</p>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_001917
Insert Size:	1590 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_001917.3 , NP_001908.2
RefSeq Size:	1576 bp
RefSeq ORF:	1044 bp
Locus ID:	1610
UniProt ID:	P14920
Cytogenetics:	12q24.11
Domains:	DAO
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, D-Arginine and D-ornithine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
Gene Summary:	<p>This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia. [provided by RefSeq, Jul 2008]</p>