

Product datasheet for **SC321736**

D aspartate oxidase (DDO) (NM_003649) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D aspartate oxidase (DDO) (NM_003649) Human Untagged Clone
Tag:	Tag Free
Symbol:	D aspartate oxidase
Synonyms:	DASOX; DDO-1; DDO-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003649.2
 GGGCATGAGACCAGCCAGGCACTGGGAAACAAGGTTTGGTGCCAGAGATTTTGGTGGCTT
 CCAAGACTGCTTTTTTCAGAGACAGGCTCATGGACACAGCACGGATTGCAGTTGTCGGGGC
 AGGTGTGGTGGGGCTCTCCACGGCTGTGTGCATCTCCAACTGGTGCCCGATGCTCCGT
 TACCATCATTTTACAGACAAGTTTACTCCAGATACCACCAGTGATGTGGCAGCCGGAATGCT
 TATTCTCACACTTATCCAGATACACCCATTACACGCAGAAAGCAGTGGTTCAGAGAAAC
 CTTTAATCACCTCTTTGCAATTGCCAATTCTGCAGAAGCTGGAGATGCTGGTGTTCATTT
 GGTATCAGGTTGGCAGATATTTTCAGAGCACTCCGACTGAAGAAGTGCCATTCTGGGCTGA
 CGTGGTTCTGGGATTTTCGAAAGATGACTGAGGCTGAGCTGAAGAAATTCCCCCAGTATGT
 GTTTGGTCAGGCTTTTACAACCCTGAAATGTGAATGCCCTGCCTACCTCCCGTGGTTGGA
 GAAAAGGATAAAGGGAAGTGGAGGCTGGACACTCACTCGCGCAATAGAAGACCTGTGGGA
 ACTTCATCCGCTCTTTGACATCGTGGTCAACTGTTTCAGGCCTTGGAAAGCAGACAGCTTGC
 AGGAGACTCAAAGATTTTCCCTGTAAGGGGCCAAGTCTCCAAGTTCAGGCTCCCTGGGT
 GGAGCATTTTATCCGAGATGGCAGTGGGCTGACATATATTTATCCTGGTACATCCCATGT
 AACCTAGGTGGAAGTGGCAAAAAGGGGACTGGAATCTGTCCCGGATGCAGAAAATAG
 CAGAGAGATTCTTTCCCGATGCTGTGCTCTGGAGCCCTCCCTCCACGGAGCCTGCAACAT
 CAGGGAGAAGGTGGGCTTGGAGCCCTACAGGCCAGGCGTGCGACTGCAGACAGAGCTCCT
 TGCGCGAGATGGACAGAGGCTGCCTGTAGTCCACCACTATGGCCATGGGAGTGGGGGCAT
 CTCAGTGCAGTGGGGCACTGCTCTGGAGGCCGCCAGGCTGGTGGAGCGAGTGTGTCATGC
 CCTCAGGACCCCCATTCCCAAGTCAAACCTGTAGATGACATAAAATGACAGCAAAGAGAC
 TGAGAGACTGTTGATCAAAGCACAGAACAGGTTCAAATAACTTTTCCACTGCATGAAAGT
 TTAATTTAGACATTTCTTTGTTTTCAACATTAGAAGTGGTGAACATGTAAGCTGAGCAGG
 GTGGCCCTATAGTCCCAGCTACTTGGAGGCTGAGGCAGGAGGATTGTTGAGCCAGGAG
 TTTGAGTGCAATCTGGGTAACTTTTTTAGAGGTGCCAGTTCACCTCTAAAAAAAACA
 CCAACAACAAAAGAAATGATGCAACATGTAGGCTTACTTAGGAAGTCCAGCATTAAATGGC
 ATAGGGCATAAAGCTCTATTTTTTGTAAAAATACTTCTTATAGAGTAAAATTTATTTAG
 AACTGATGTCCAAGGACCTATGCAGATTTATATGAATGTTGGAAGCTATAGAGATTTTGA
 TATCATTTGGCTATAAATCCACAGGAGGAGATAATGTATGGAAAACATTTAAATCACTG
 TCAATTGCAGAGCTGCCTGTGATCTTCTTAGGTTATAGCCAAGTCAGCAACATAATTCTCT
 CTAATAAAAATTACATTGTGCTCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003649

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_003649.2](#), [NP_003640.2](#)

RefSeq Size: 1733 bp

RefSeq ORF: 1110 bp

Locus ID: 8528

UniProt ID: [Q99489](#)

Cytogenetics: 6q21

Domains: DAO

Protein Pathways: Alanine, aspartate and glutamate metabolism

Gene Summary: The protein encoded by this gene is a peroxisomal flavoprotein that catalyzes the oxidative deamination of D-aspartate and N-methyl D-aspartate. Flavin adenine dinucleotide or 6-hydroxyflavin adenine dinucleotide can serve as the cofactor in this reaction. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2019]

Transcript Variant: This variant (1) encodes the longest isoform (a).