

Product datasheet for RC212769L3

OriGene Technologies, Inc.

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D aspartate oxidase (DDO) (NM_004032) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: D aspartate oxidase (DDO) (NM_004032) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: D aspartate oxidase

Synonyms: DASOX; DDO-1; DDO-2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Sgfl-Mlul

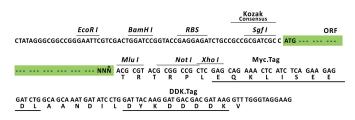
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC212769).

Sequence:

Restriction Sites: Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_004032

ORF Size: 930 bp





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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: 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: <u>NM 004032.2</u>, <u>NP 004023.2</u>

 RefSeq Size:
 1556 bp

 RefSeq ORF:
 849 bp

 Locus ID:
 8528

 UniProt ID:
 Q99489

Cytogenetics: 6q21

Domains: DAO

Protein Pathways: Alanine, aspartate and glutamate metabolism

MW: 33.8 kDa

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]