

Product datasheet for MR208902L3

OriGene Technologies, Inc.

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Aldh4a1 (NM_175438) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Aldh4a1 (NM_175438) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: Aldh4a1

Synonyms: A930035F14Rik; Ahd-1; Ahd1; Aldh4; Aldh5a1; E330022C09; P5cd; P5cdh; P5cdhl; P5cdhl; P5cdhl;

Ssdh1

Mammalian Cell

Selection:

Puromycin

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

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

ORF Nucleotide

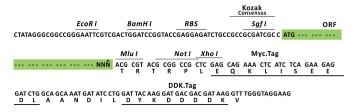
The ORF insert of this clone is exactly the same as(MR208902).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



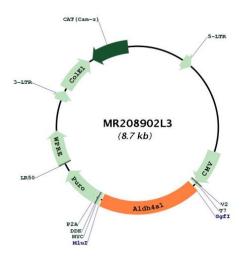


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_175438 **ORF Size:** 1689 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: 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 175438.3</u>, <u>NP 780647.2</u>

RefSeq Size: 3355 bp RefSeq ORF: 1689 bp Locus ID: 212647



Aldh4a1 (NM_175438) Mouse Tagged Lenti ORF Clone - MR208902L3

UniProt ID: Q8CHT0

Cytogenetics: 4 70.79 cM

Gene Summary: Irreversible conversion of delta-1-pyrroline-5-carboxylate (P5C), derived either from proline

or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma-semialdehyde, other

substrates include succinic, glutaric and adipic semialdehydes (By similarity).

[UniProtKB/Swiss-Prot Function]