

#### Product datasheet for RC200648L4

#### OriGene Technologies, Inc.

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### Aldehyde dehydrogenase 10 (ALDH3A2) (NM\_001031806) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Aldehyde dehydrogenase 10 (ALDH3A2) (NM\_001031806) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Aldehyde dehydrogenase 10

Synonyms: ALDH10; FALDH; SLS

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

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

**ORF Nucleotide** 

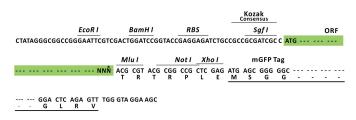
The ORF insert of this clone is exactly the same as(RC200648).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

ACCN: NM\_001031806

ORF Size: 1524 bp





# Aldehyde dehydrogenase 10 (ALDH3A2) (NM\_001031806) Human Tagged Lenti ORF Clone - RC200648L4

**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 001031806.1</u>

RefSeq Size: 3823 bp RefSeq ORF: 1527 bp Locus ID: 224

UniProt ID: P51648

Cytogenetics: 17p11.2

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine

metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism,

Tryptophan metabolism, Valine, leucine and isoleucine degradation

MW: 57.7 kDa

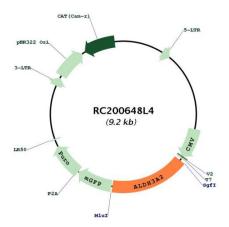
**Gene Summary:** Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of

aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome. Alternatively spliced transcript variants encoding different

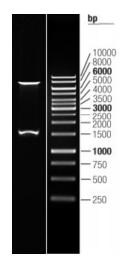
isoforms have been found for this gene. [provided by RefSeq, Jul 2008]



## **Product images:**



Circular map for RC200648L4



Double digestion of RC200648L4 using Sgfl and Mlul  $\,$