

Product datasheet for RC223398L1

OriGene Technologies, Inc.

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Aldehyde dehydrogenase 10 (ALDH3A2) (NM_000382) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Aldehyde dehydrogenase 10 (ALDH3A2) (NM_000382) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Aldehyde dehydrogenase 10

Synonyms: ALDH10; FALDH; SLS

Mammalian Cell

Selection:

None

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide

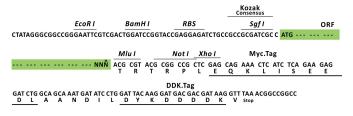
The ORF insert of this clone is exactly the same as(RC223398).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000382

ORF Size: 1455 bp





Aldehyde dehydrogenase 10 (ALDH3A2) (NM_000382) Human Tagged Lenti ORF Clone – RC223398L1

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 000382.2</u>

RefSeq Size: 3702 bp
RefSeq ORF: 1458 bp
Locus ID: 224

 UniProt ID:
 P51648

 Cytogenetics:
 17p11.2

Domains: aldedh

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: 54.7 kDa

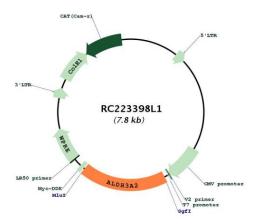
Gene Summary: Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of

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

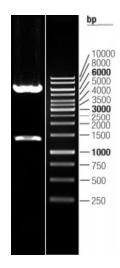
isoforms have been found for this gene. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC223398L1



Double digestion of RC223398L1 using Sgfl and Mlul