

## Product datasheet for RC213720L4

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## ALDH1L1 (NM\_012190) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** ALDH1L1 (NM\_012190) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: ALDH1L1

Synonyms: 10-fTHF; 10-FTHFDH; FDH; FTHFD

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(RC213720).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





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

**ACCN:** NM\_012190

ORF Size: 2706 bp





### ALDH1L1 (NM\_012190) Human Tagged Lenti ORF Clone - RC213720L4

**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 012190.2</u>

 RefSeq Size:
 3125 bp

 RefSeq ORF:
 2709 bp

 Locus ID:
 10840

 UniProt ID:
 075891

Cytogenetics: 3q21.3

**Domains:** aldedh, formyl\_transf, formyl\_trans\_C

**Protein Families:** Druggable Genome

**Protein Pathways:** One carbon pool by folate

**MW:** 98.6 kDa

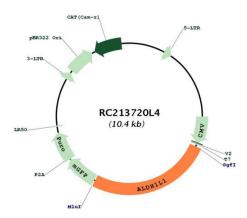
**Gene Summary:** The protein encoded by this gene catalyzes the conversion of 10-formyltetrahydrofolate,

nicotinamide adenine dinucleotide phosphate (NADP+), and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family. Loss of function or expression of this gene is associated with decreased apoptosis, increased cell motility, and cancer progression. There is an antisense transcript that overlaps on the opposite strand with this gene locus. Alternative splicing results in multiple transcript

variants. [provided by RefSeq, Jun 2012]



# **Product images:**



Circular map for RC213720L4