

Product datasheet for MR222723L4

Aldh7a1 (NM_138600) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Aldh7a1 (NM_138600) Mouse Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Aldh7a1

Synonyms: Atq1; D18Wsu181e

Mammalian Cell Puromycin

Selection:

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

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

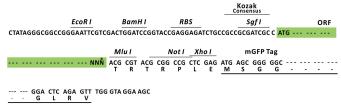
The ORF insert of this clone is exactly the same as(MR222723). **ORF Nucleotide**

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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



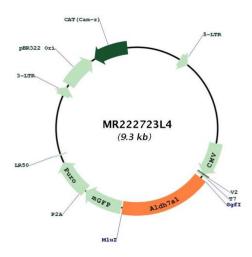
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Plasmid Map:



ACCN: NM_138600 **ORF Size:** 1617 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 138600.4, NP 613066.2</u>

RefSeq Size: 2911 bp RefSeq ORF: 1620 bp



Aldh7a1 (NM_138600) Mouse Tagged Lenti ORF Clone - MR222723L4

 Locus ID:
 110695

 UniProt ID:
 Q9DBF1

 Cytogenetics:
 18 30.55 cM

Gene Summary: Multifunctional enzyme mediating important protective effects. Metabolizes betaine aldehyde

to betaine, an important cellular osmolyte and methyl donor. Protects cells from oxidative stress by metabolizing a number of lipid peroxidation-derived aldehydes. Involved in lysine

catabolism (By similarity).[UniProtKB/Swiss-Prot Function]