

## Product datasheet for **SC317871**

### ALDH9A1 (NM\_000696) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH9A1 (NM_000696) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH9A1
Synonyms:	ALDH4; ALDH7; ALDH9; E3; TMABA-DH; TMABADH; TMABALDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317871 representing NM\_000696.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

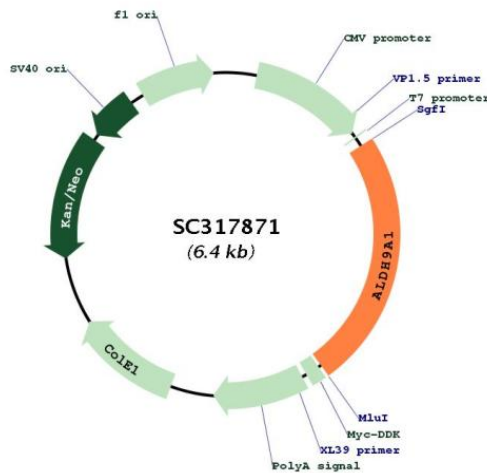
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**Restriction Sites:**

SgfI-MluI

**Plasmid Map:**



**ACCN:**

NM\_000696

<b>Insert Size:</b>	1557 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_000696.3</a></u>
<b>RefSeq Size:</b>	2500 bp
<b>RefSeq ORF:</b>	1557 bp
<b>Locus ID:</b>	223
<b>UniProt ID:</b>	<u><a href="#">P49189</a></u>
<b>Cytogenetics:</b>	1q24.1
<b>Domains:</b>	aldedh
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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
<b>MW:</b>	56.3 kDa
<b>Gene Summary:</b>	This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longer isoform (1).