

Product datasheet for **RC217303L4V**

ALDH5A1 (NM_170740) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ALDH5A1 (NM_170740) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ALDH5A1
Synonyms:	SSADH; SSDH
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_170740
ORF Size:	1644 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217303).
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.
RefSeq:	NM_170740.1 , NP_733936.1
RefSeq Size:	5170 bp
RefSeq ORF:	1647 bp
Locus ID:	7915
UniProt ID:	P51649
Cytogenetics:	6p22.3
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Butanoate metabolism, Metabolic pathways



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MW: 53.7 kDa

Gene Summary: This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]