

Product datasheet for **MR222097L4V**

Aldh1a3 (NM_053080) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Aldh1a3 (NM_053080) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Aldh1a3
Synonyms:	ALDH6; RALDH3; V1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_053080
ORF Size:	1536 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222097).
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_053080.3 , NP_444310.3
RefSeq Size:	3423 bp
RefSeq ORF:	1539 bp
Locus ID:	56847
UniProt ID:	Q9JHW9
Cytogenetics:	7 C



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Gene Summary:

NAD-dependent aldehyde dehydrogenase that catalyzes the formation of retinoic acid (PubMed:11044606, PubMed:11013254, PubMed:14623956). Has high activity with all-trans retinal, and has much lower in vitro activity with acetaldehyde (By similarity). Required for the biosynthesis of normal levels of retinoic acid in the embryonic ocular and nasal regions; retinoic acid is required for normal embryonic development of the eye and the nasal region (PubMed:14623956).[UniProtKB/Swiss-Prot Function]