

## Product datasheet for **TL314843V**

### ALDH1L2 Human shRNA Lentiviral Particle (Locus ID 160428)

#### Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	ALDH1L2 Human shRNA Lentiviral Particle (Locus ID 160428)
Locus ID:	160428
Synonyms:	mtFDH
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	FLJ38508 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
RefSeq:	<a href="#">NM_001034173</a> , <a href="#">NR_027752</a> , <a href="#">NM_001034173.1</a> , <a href="#">NM_001034173.2</a> , <a href="#">NM_001034173.3</a> , <a href="#">BC103934</a> , <a href="#">BC103935</a> , <a href="#">NM_001034173.4</a>
UniProt ID:	<a href="#">Q3SY69</a>
Summary:	This gene encodes a member of both the aldehyde dehydrogenase superfamily and the formyl transferase superfamily. This member is the mitochondrial form of 10-formyltetrahydrofolate dehydrogenase (FDH), which converts 10-formyltetrahydrofolate to tetrahydrofolate and CO <sub>2</sub> in an NADP(+)-dependent reaction, and plays an essential role in the distribution of one-carbon groups between the cytosolic and mitochondrial compartments of the cell. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2010]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).