

Product datasheet for TR506354

OriGene Technologies, Inc.

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Aldh4a1 Mouse shRNA Plasmid (Locus ID 212647)

Product data:

Product Type: shRNA Plasmids

Product Name: Aldh4a1 Mouse shRNA Plasmid (Locus ID 212647)

Locus ID: 212647

Synonyms: A930035F14Rik; Ahd-1; Ahd1; Aldh4; Aldh5a1; E330022C09; P5cd; P5cdh; P5cdhl; P5cdhl;

Ssdh1

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection: Format:

Retroviral plasmids

Components: Aldh4a1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

212647). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: <u>BC039281, BC056226, BC060650, NM 175438, NM 175438.1, NM 175438.2, NM 175438.3,</u>

NM 175438.4, BC024133, BC026589, BC027140, BC039280

UniProt ID: Q8CHT0

Summary: Irreversible conversion of delta-1-pyrroline-5-carboxylate (P5C), derived either from proline

or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma-semialdehyde, other

substrates include succinic, glutaric and adipic semialdehydes (By similarity).

[UniProtKB/Swiss-Prot Function]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).