

Specifications:

Gene:	<i>h</i> ALDH1A2
Accession:	NP_003879.2
Insert size:	1570bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

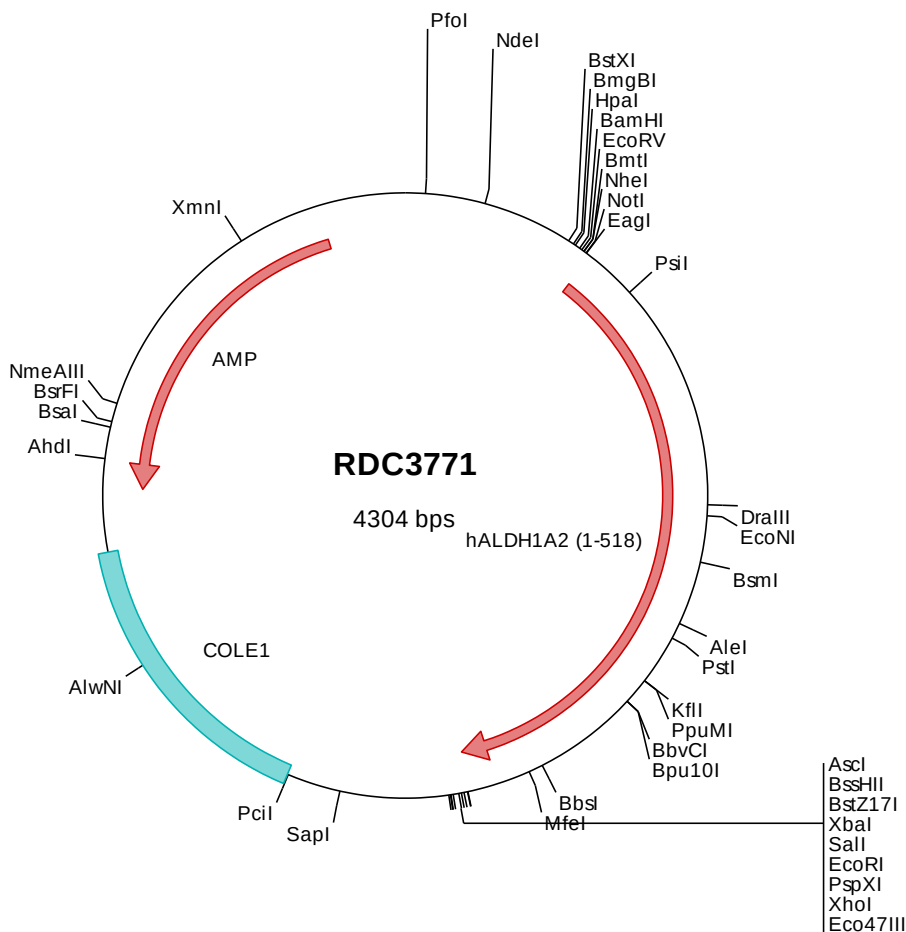
***h*Aldehyde Dehydrogenase 1-A2 cDNA Plasmid**

**ALDH1A2 aldehyde
dehydrogenase 1 family member
A2 [*Homo sapiens* (human)]**

Also known as: DIH4; RALDH2;
RALDH2-T; RALDH(II)

Summary:

ALDH1A2 belongs to the aldehyde dehydrogenase family of proteins. It is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that ALDH1A2 and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for ALDH1A2.



> RDC3771 Plasmid DNA Sequence

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> RDC3771 Translated Insert Sequence

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