

Product datasheet for **SC331699**

ALDH1A2 (NM_001206897) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ALDH1A2 (NM_001206897) Human Untagged Clone
Tag: Tag Free
Symbol: ALDH1A2
Synonyms: RALDH(II); RALDH2; RALDH2-T
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331699 representing NM_001206897.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAGAATCAGTGTGAGACTGTTTGGTTAAAATCCCAATAAACTGAACTGATCTTTATAAACAAAC
GAGTGGCAGAAGCTCAGAGAGTGGGAGAGTGTCCCTGTCTATAATCCAGCCACAGGAGAACAGGTGTGT
GAAGTTCAAGAAGCAGACAAGGCAGATATAGACAAAGCAGTGCAGGCAGCCCGCTGGCTTTCTCTCTT
GGTTCAGTGTGGAGAAGGATGGATGCTTCAGAAAGGGGACGTCTGTTGGATAAGCTTGCAGACTTGGTG
GAACGGGACAGGGCAGTCTTGAACCATGGAATCCCTAAATGGTGGCAAACCATTCTGCAAGCTTTT
TATGTGGATTTGCAGGGCGTCATCAAAACCTTTTCGATATTACGCAGGCTGGGCTGATAAAATTCATGGG
ATGACCATTCTGTAGATGGAGACTATTTTACCTTTACAAGACATGAACCCATTGGAGTGTGTGGACAG
ATCATCCCATGGAACCTCCCCCTGCTGATGTTTGCCTGGAAAATAGCTCCAGCTTTGTGCTGTGGCAAT
ACAGTAGTTATTAAGCCAGCAGAGCAAACCACTCAGTGCACCTCTACATGGGAGCCCTCATCAAGGAG
GCTGGCTTTCTCCCGGGTCAATCAATATTTTCCAGGATATGGGCCAACGGCTGGGGCAGCAATAGCT
TCTCACATTGGCATAGACAAGATTGCATTACAGGGTCTACTGAGGTTGGAAAGCTTATCCAAGAAGCA
GCTGGAAGAAGTAATTTGAAGAGAGTAAGTCTGGAACCTGGAGGCAAAGTCCTAATATTATTTTGTGCT
GATGCTGACTTGGACTATGCTGTGGAGCAGGCCACCAGGGTGTGTTCTCAATCAAGGTCAGTGTGCTGC
ACTGCAGGCTCTCGCATCTTCGTGGAGGAGTCCATCTATGAGGAGTTTGTGAGAAGAAGCGTGGAGCGG
GCCAAGAGGGCGGTAGTGGGGAGTCCCTTTGACCCCACTGAGCAGGGTCCCCAGATTGATAAGAAA
CAGTACAACAAGATCTTGAACCTCATCCAGAGTGGTGTGGCTGAGGGCGCCAAGCTGGAATGTGGAGGC
AAAGGACTGGGCCGAAAGGGGTTTTTCATTGAGCCACAGTGTTCACACGTCAGTGTGATATGCGG
ATTGCCAAGGAGGAGATCTTTGGCCCTGTTTCCAGGAAATTTTGGAGTTAAGACGATGGATGAAGTTATC
GAAAGAGCCAATAACTCAGACTTTGGACTCGTAGCAGTGTCTTTACTAATGACATCAACAAGGCCCTC
ACAGTGTCTTCTGCAATGCAAGCTGGGACTGTTTGGATCAATTGTTACAATGCCTTAAATGCCAGAGC
CCCTTTGGGGATTCAAGATGTCTGGAATGGGAGAGAAATGGGAGAATTTGGCTTGCGGGAGTACTCA
GAAGTTAAGACGGTGACAGTAAAGATCCCCAGAAGAAGCTCCTAA
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Restriction Sites: SgfI-MluI
ACCN: NM_001206897
Insert Size: 1494 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001206897.1
RefSeq Size:	3703 bp
RefSeq ORF:	1494 bp
Locus ID:	8854
UniProt ID:	O94788
Cytogenetics:	15q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Retinol metabolism
MW:	54.7 kDa
Gene Summary:	<p>This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene 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 this enzyme 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 this gene. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (4) has a shorter and distinct N-terminus compared to isoform 1.</p>