

## Product datasheet for **SC216423**

### ALDH1A2 (NM\_170696) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	ALDH1A2 (NM_170696) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ALDH1A2
Synonyms:	RALDH(II); RALDH2; RALDH2-T
ACCN:	NM_170696
Insert Size:	1798 bp



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**Insert Sequence:** >SC216423 3'UTR clone of NM\_170696  
 The sequence shown below is from the reference sequence of NM\_170696. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ACAGTAAAGATCCCCAGAAGAAGCTCCTAAGAAGGCCAAGAAGGAGGATGAAGCCCAGCCTGCACGTCT
GTCCCTCTCTGCTTTCTCTGTAGGGCCAGCTCTCAGGAATACAAAGTTGAGCCAGGTCCTTACTTAA
AGATTGAAAAGATAACATGTAGGCCAGGCAGGTCAGTGCACAACAAAGCAAACCAGCTGGGTACAGTT
TCTTGGCACTCTGTAAGGGGCCACCTTAATCATACCAAATATTGGGGAAAGTGGGATAAAGGGAGGAGG
AGGAGCTAGCAGACACATCCAGTATCTCCTTCTGGAGCACAGGATGAAATAAGGGAGCTGTATTATTTTC
ATGTCTTTGTACAAAAGAACTTTCTCTCAAGGAAAGGTGACCTTTCTCCTGTCTTCATTTTCTCCTT
CCAGGCCCTCCTCGCTCACCCACCCCTCCTTCTTCCAAGGAGATGTCAGCTGAGCTCATTCTGGGGC
AGATGTTTGGGCCGGGAACAATTTTCAAGGTTGTAAGCCAAATATCATTTCATGTTATCCATTTCT
TCAAAGCAAAAACATGAAATGGTTTTAGCTAGAGTCAGACCAGAATGAAAATGCCAGGAGCTGGTACACT
ACAGATGTAGTAAGAACCTGGGATATTCCTGACCCAATCTGGTTTTCTTTTACCCATAAATAACATGAA
TGAAAAAAGATTGGGACAATAGAGACTGGAAGTCATCATGTGCAGTTCACCGCTTCTGAGCTTGCTGCA
GTTTTGGGGTGTGTGTATTAGATTCTTCTCAGTTATTCTGGAATAAGGCAAGGAGTGGGTTGTTTT
TCATAGCTAGATAAGATCTTTTCCAAAGTTTTTCTTAGAACCAACCAAAAAACAATCCGAGTAGGCCCA
AGAATTTGATAATGCTGGATGCCTTGACAGACATCATTAGTTTCTAATATTGGGCAACAATTATTATTA
AATGAATTATTTCTGTAGTTGGAATCTGTACCTTCTGAACCTCTACACCAATAACTGCTGCAGGTGTGA
TTTTGGTCTGTACACTGTACATCTATAATGTGCCCTGTATCTATTGGCAGTGACCTTGGAAAAATC
TGGCCAAGCCTAGGGGTTTCTTTTCCATTTGCCAAGTTCCATTGTGCCAGGACTGCCGTGCTCCACTG
AGTCCTCTGTACACCCCACTTCTGCCCCTCACTGGGCAGGCCATGGCCTACAGCTTGCAGGGAGTAA
AGCAGGCCCGCTCCCTTTCTCCCATCCACATACTCCTCTTCTGCTTTCCAGTGACTCCACCAGTTTG
ATGTGGGAAGTGTAGCTTCCCTTCTTCCATCCCTTCTTCCATCTTTCCAGCTGTCAAATCCAAT
CCAGTCTCTAACCTAAATGCAGATCATTATTTAAAAGTACCAAACATAACCCAGAGTATGTGGAATAT
GGGCAACATATATAGCCTTCTGTATTTAACGATCTTCTGCTTCTTAACCGTACCAGTTTTCTATTTA
TAACTCTTATCTATCCATGATGTTTTAAAGTCTCCACTTGCTGTATTTACAACGACAGTGCATTTCAG
CAGCCCAGTGCCGTGAGCCCTGACAGATGCCGTATTTCTGAGTGCTTCCATGTGAATGCTGCCCTCCTG
TAGCATGTGTCCAAGTGGACATAGCCACTAACCAACTAGTTACCTTTGGACTGCAACAAAAAATGTGAA
AATGAAGATTTATTTCTTTAATTTACTTAAAAAGAAACCTCTGTGCTAGCAATAAAGCATTATATTG
TGTA
ACGCGTAAAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_170696.3](#)

**Summary:**

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]

**Locus ID:**

8854

**MW:**

68.1