

Product datasheet for **SC214549**

ALDH4A1 (NM_001161504) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALDH4A1 (NM_001161504) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ALDH4A1
Synonyms:	ALDH4; P5CD; P5CDh
ACCN:	NM_001161504
Insert Size:	1445 bp



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Insert Sequence: >SC214549 3'UTR clone of NM_001161504
 The sequence shown below is from the reference sequence of NM_001161504. 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
GGGGACTGGAGCTACGCGTACATGCAGTAGCCCCCTCTCGGGCTCCACCGTCCAGCTGTCTGCCGTCC
AGGTGGCCGACCTCACTGCACAGACCCCACTCCAGCCCCCTCCACCCCTTCTTCATGCACAGCTGCCTTT
CTATAATCCGGGCTTGACTCCCTTCTTACCAGTGTATTCTGGCCTCTCCCATGCCTCAGGCTCTGGTTT
GAGATCGTGTGGGAGGAACATGGCCACTACCCCTTATCCCATCGGCCATGTGGGAGGTATGACCCCTG
GTGCCCTGGCAGGTTCTCCCTCTGCCCTCCACTGGGCCAGTGGCTCAGGGACCTGGGAAAGGAGATGG
AGCAGCTCTTGGGATCCTTTGGGAAAAGGAGGCCATTCTGGGCCCTTGGCAAACCTCACCCTCACA
GAGGCTCTGGCCTTGATCCCTGCCCTCCAGGTGTCCAGGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
GGCACAGGGGGCACCAGCTGGCCTTGCCCTCTCTGGTCTGGGCTGTCTACCTTCCCTCACTGTATCTTTG
CCCAGACCCACCTGGGCCAGTAGCCCCCTGTCCCAGCCACACACCTTAGATGCTGGCATGCCTTACTC
CAGGTGCCTGTGTTGGCCGAGGCTGTGTGATTCCCGGTCTGCACCACATGGCGGGGTTGGGGGGCCG
CTGGAGGCCACCTGCCAAGGCGTGGGATGGGATGGTCTGCCGGTTTAGGCCGTGATTCTGGAAAACCT
TGGATGGGCCCTTCGTCTATGTCAGCCTTCCCTTTGATCCTCAGGCCCTACCTGTAGAGACCTCCACTC
CTAGAGCCAGTCTCAGGGTCTGGGATTTCCCTGCAGGAGCTCAGCCACCACTGTGCCATGGTGACACAG
GCCAAGGCAGACATTGGCCCTCCCTTCTCCAGCCCCAGAGGCTGGCCTTGGGTTTCGTAGCATGGG
CCGAGGACGTTGCCTGTAGAATCCTCTCTGCCCTGGGAGTGGCTCTGTGTGGACCACTCCCTCACTGGC
CCATTTCTTTTTTGACGCAGCCAATCTGTGACCACGATTCTCCACAGATGCCTCTGCTGGATTCT
GAGTGGTCAGAGATCTGTAAGCATGACTTTCAAGGATGGTTCTTAGGGGACTGTGAAAGTGTGGGTC
TTCTCCAGGATGCCTGCATGGGACCCACCCGAGCTGGTGTGGCCATTCCCAAGTGCCACTGGCCC
ATGGATGGGGGTGGGTGCTGGTGCAGCTGGGCTGGGTGTGGTTCTGTCTCCTCCAGGATATGTGTC
ATTTCCCATGAGGGGCCGGGCAGGTGGCTGGGTGGGGCACAGGCTGGAGTATTCTTAGTTCTACTGG
TTCTACTGTGAGGTGGCAATGGGATTTGCTCAGATGCCACCAATAAAATGCCTGTTACTTAA
AGCGGACCGACTACGCGTAAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCC
CAACCTGCCATCAGAGATTTTCGATTCCACCGCCGC
  
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Restriction Sites: Sgfl-RsrII

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_001161504.2](#)

Summary: This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2009]

Locus ID: 8659

MW: 53.3