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Product datasheet for SC216316

ALDH7A1 (NM_001182) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALDH7A1 (NM_001182) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ALDH7A1
Synonyms:	ATQ1; EPD; PDE
ACCN:	NM_001182
Insert Size:	2000 bp

View online »

Insert Sequence:

>SC216316 3'UTR clone of NM_001182
The sequence shown below is from the reference sequence of NM_001182. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCTCTGGCCCAAGGAATCAAGTTTCAGTAAAGGTGTTTTAGATGAACATCCCTTAATTTGAGGTGTTCC
AGCAGCTGTTTTTGGAGAAGACAAAGAAAATTAAAGTTTTCCCTGAATAAATGCATTATTATGACTGTG
ACAGTGACTAATCCCCCTATGACCCCAAAGCCCTGATTAAATCAAGAGATTCCTTTTTTAAAAATCAAA
ATAAAATTGTTACAACATAGCCATAGTTACTAAAAGATGAGTTAGGTGGATTTTTATTATGTCAACTAG
TTGTACATGGCTTTTTAAAAGTTAATGATTATTTTGTAATTAGAAAAAAATAGTACGTACCAGGGTAGG
AATTTGGGAAAATACAGAACCGAGGAGAAAACAGAAGTCTTTGCAGTAGATACAGGGTGTCTCCTGACC
AAGTGAAGGATTCAGGGGCGGGGGGTGAATATTGCTTGACATTACCCACCTATGGCATGTGTTGGATGT
CGTGTGATTGAAAGGGGGATGCATTCCCCTGTATGCTTGGACCACAGTTCAGTATTCATGTGGAATAAC
TTGCAGTGCTTAAAATGACAACAGGCATTCATCACAGTTATGGCTCTTGCTTATGAAGGCTGTGTCAAC
TTGGAAGAGATTTCTGGGGTAGACAGATTTTGTTCCTGTGCTGGAGTCTGCCACCTGCTGGAGGACTCT
GAGGCCAAAATTGCCCGTGCAGAGTTGTATAGAAAATGCGTCTGGAGGCTGGGCAAGGTGGCTTACGCC
TATAATCCCAGCACTTTGAGAGGCCGAGGCGGGTGGATCAGTAGAGGCTAGGAGTTTGAGACCAGCCTG
GCCGATATCGTGAAACCCCGTCTTTACCAAAAAATACAAAAATTAGCCCAGTGTGGTGGCAGGCACCTG
TAATCCCAGCTATTAGGGAGGCTGAGGCAGGAGAATTGTGTGAACCCAGGAGGCAGAGGTTGCAGTGAG
CCTAGATTGTGCCACTGCCTGGGCAACAGTGAGATCCTGTCTACAAAAAAAAAAAAAAAAAAAAGTGCA
TCTGGATTTTTTTATACAACCTTAGACCACCTTCTTTAGCTTTAGGCGTCTGCGGTTGCCCTTGGATCT
GTTCTCAATCCTCAGTGTGTGTGGCAGCATGTGGTCATAGAGAGCTGGGCAAAGTTCACTTTCTCTTTG
CTGACAGTCTCACCTTTTCTCACTGGGAAGCTGCACAGGAGCCTTTGGGCTGGTTCAGCCCAGAGGCCC
CTGTTCTCCTGCCTTCCTGGCATTCTCTGCTCCCCTTCTGCATGGCACCCCTCTACTCCTGCCAGGTTA
GAATGGAGCAGAGGCCTTTGAACAAGATGACATTTGTAGACAACCTGATCCATCAGGATGTGGAGAGAT
CTGGACAAATGGCAAATAATTTGGGGTTGAATTATGGCCCAGAGAAGTAAGCAAATGAAAAACTAAACA
ATTATAAATGTATCTGGGAAGCAAAGGTATTCATAATATGTCCCATGGCCAGCTGCGAGCAGTATTTAA
CTAGACATGCTGTTGTCAATATTGAACATGAATCAAGCCAAATACTGATATAGCTATTGAGAGAAGGTT
GGCAGGAAGAAATCATGGGTGAGGGTATGTGGGAGTGATAATCTTAGCTATAGATTTTAGGTAAAACTG
ATTCTGAAAGCTTTCTTTGAAACAAATTTATAATTTTTCTTCTACATGTTTCTAGCACAAGGACTCAAT
TTTTTTTGGTTATAATGTTCATTAAAACATATGCCTTCAATTTGTTCCTCTTTGTTCTTTTTTGCTGAT
TTAGCAGATATAAATCACTTGTTAGTATTTTTAACTATCCAAGTTAAAATGTACATTTGTAAGTGTTAT
TACTGGTCTTATATTTGAAGGTGCAAGGGGTCTTGTGCTGCTCATTACTGGTTATCTTGAGCATTTCAT
AACTGCTGCCTCCTCCTAAATCCTGTGTTCCAACCGCTACTGCTGGCAATGCCCAGCCTCCATTGTGG
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

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_001182.5

Summary: The protein encoded by this gene is a member of subfamily 7 in the aldehyde dehydrogenase gene family. These enzymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This particular member has homology to a previously described protein from the green garden pea, the 26g pea turgor protein. It is also involved in lysine catabolism that is known to occur in the mitochondrial matrix. Recent reports show that this protein is found both in the cytosol and the mitochondria, and the two forms likely arise from the use of alternative translation initiation sites. An additional variant encoding a different isoform has also been found for this gene. Mutations in this gene are associated with pyridoxine-dependent epilepsy. Several related pseudogenes have also been identified. [provided by RefSeq, Jan 2011]

Locus ID: 501

MW: 76.5