## PRODUCT INFORMATION

## Catalog number

## ATGD0024

## Product type

cDNA
Species
Human

## NCBI Accession No.

NP_005980.1

## Alternative Names

Aldo-keto reductase family 1 member D1, SRD5B1, Delta 4-3-ketosteroid-5-beta-reductase
mRNA Refseq
NM_005989.3
OMIM
604741

## Chromosome location

7q32-q33

## PRODUCT SPECIFICATION

## Formulation

Lyophilized

## Storage

Store the plasmid at -20C.
cDNA Size
981bp

## Preparation before usage

1. Centrifuge at 7000 rpm for 1 minute.
2. Carefully open the vial and add 100 ul of sterile water to dissolve the DNA.

Each tube contains approximately 10 ug of lyophilized plasmid.

## Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector
pATGen (puc19-derived cloning vector)

## General Description

## AKR1D1 cDNA

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Aldo-keto reductase family 1, member D1, also known as AKR1D1, is a member of the AKR superfamily. The AKR family of proteins are soluble NADPH oxidoreductases. They play important roles in the metabolism of drugs, carcinogens and reactive aldehydes. AKR1D1 is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones which carry a delta (4) -3-one structure. AKR1D1 is highly expressed in liver, colon and testis. Deficiency of this enzyme may contribute to hepatic dysfunction.

DATA

## Sequence nucleotides

ATGGATCTCA GTGCTGCAAG TCACCGCATA CCTCTAAGTG ATGGAAACAG CATTCCCATC ATCGGACTTG GTACCTACTC AGAACCTAAA TCGACCCCTA AGGGAGCCTG TGCAACATCG GTGAAGGTTG CTATTGACAC AGGGTACCGA CATATTGATG GGGCCTACAT CTACCAAAAT GAACACGAAG TTGGGGAGGC CATCAGGGAG AAGATAGCAG AAGGAAAGGT GCGGAGGGAA GATATCTTCT ACTGTGGAAA GCTATGGGCT ACAAATCATG TCCCAGAGAT GGTCCGCCCA ACCCTGGAGA GGACACTCAG GGTCCTCCAG CTAGATTATG TGGATCTTTA CATCATTGAA GTACCCATGG CCTTTAAGCC AGGAGATGAA ATATACCCTA GAGATGAGAA TGGCAAATGG TTATATCACA AGTCAAATCT GTGTGCCACT TGGGAGGCGA TGGAAGCTTG CAAAGACGCT GGCTTGGTGA AATCCCTGGG AGTGTCCAAT TTTAACCGCA GGCAGCTGGA GCTCATCCTG AACAAGCCAG GACTCAAACA CAAGCCAGTC AGCAACCAGG TTGAGTGCCA TCCGTATTTC ACCCAGCCAA AACTCTTGAA ATTTTGCCAA CAACATGACA TTGTCATTAC TGCATATAGC CCTTTGGGGA CCAGTAGGAA TCCAATCTGG GTGAATGTTT СТТСТССАСС TTTGTTAAAG GATGCACTTC TAAACTCATT GGGGAAAAGG TACAATAAGA CAGCAGCTCA AATTGTTTTG CGTTTCAACA TCCAGCGAGG GGTGGTTGTC ATTCCTAAAA GCTTTAATCT TGAAAGGATC AAAGAAAATT TTCAGATCTT TGACTTTTCT CTCACTGAAG AAGAAATGAA GGACATTGAA GCCTTGAATA AAAATGTCCG CTTTGTAGAA TTGCTCATGT GGCGCGATCA TCCTGAATAC CCATTTCATG ATGAATACTG A

## Transaction Sequence

MDLSAASHRI PLSDGNSIPI IGLGTYSEPK STPKGACATS VKVAIDTGYR HIDGAYIYQN EHEVGEAIRE KIAEGKVRRE DIFYCGKLWA TNHVPEMVRP TLERTLRVLQ LDYVDLYIIE VPMAFKPGDE IYPRDENGKW LYHKSNLCAT WEAMEACKDA GLVKSLGVSN FNRRQLELIL NKPGLKHKPV SNQVECHPYF TQPKLLKFCQ QHDIVITAYS PLGTSRNPIW VNVSSPPLLK DALLNSLGKR YNKTAAQIVL RFNIQRGVVV IPKSFNLERI KENFQIFDFS LTEEEMKDIE ALNKNVRFVE LLMWRDHPEY PFHDEY

