

Product datasheet for **SC116410**

AKR1D1 (NM_005989) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKR1D1 (NM_005989) Human Untagged Clone
Tag: Tag Free
Symbol: AKR1D1
Synonyms: 3o5bred; CBAS2; SRD5B1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005989 edited
ATGGATCTCAGTGCTGCAAGTCACCGCATACCTCTAAGTGATGGAAACAGCATTCCCATC
ATCGGACTTGGTACCTACTCAGAACCTAAATCGACCCCTAAGGGAGCCTGTGCAACATCG
GTGAAGGTTGCTATTGACACAGGGTACCGACATATTGATGGGGCCTACATCTACCAAAAT
GAACACGAAGTTGGGGAGGCCATCAGGGAGAAGATAGCAGAAGGAAAGGTGCGGAGGGAA
GATATCTTCTACTGTGGAAAGCTATGGGCTACAAATCATGTCCCAGAGATGGTCCGCCCA
ACCCTGGAGAGGACACTCAGGGTCTCCAGCTAGATTATGTGGATCTTTACATCATTGAA
GTACCCATGGCCTTTAAGCCAGGAGATGAAATATACCCTAGAGATGAGAATGGCAAATGG
TTATATCACAAGTCAAATCTGTGTGCCACTTGGGAGGCGATGGAAGCTTGCAAAGACGCT
GGCTTGGTGAAATCCCTGGGAGTGTCCAATTTTAACCGCAGGCAGCTGGAGCTCATCCTG
AACAAAGCCAGGACTCAAACACAAGCCAGTCAGCAACCAGTTGAGTGCCATCCGATTTTC
ACCCAGCCAAAACCTTTGAAATTTTGCCAACAACATGACATTGTACTACTGCATATAGC
CCTTTGGGGACCAAGTAGGAATCCAATCTGGGTGAATGTTTCTTCTCCACCTTTGTAAAG
GATGCACTTCTAAACTCATTGGGGAAAAGGTACAATAAGACAGCAGCTCAAATTGTTTTG
CGTTTTCAACATCCAGCGAGGGGTGGTTGTCATTCTTAAAGCTTTAATCTTGAAAGGATC
AAAGAAAATTTTCAGATCTTTGACTTTTCTCTCACTGAAGAAGAAATGAAGGACATTGAA
GCCTTGAATAAAAATGTCCGCTTTGTAGAATTGCTCATGTGGCGCGATCATCCTGAATAC
CCATTTTCATGATGAATACTGA



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005989 unedited
 NNGGTCAGAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGCACAATGG
 ATCTCAGTGCTGCAAGTCACCGCATACCTTAAGTGATGGAAACAGCATTCCCATCATCG
 GACTTGGTACTACTCAGAACCTAAATCGACCCCTAAGGGAGCCTGTGCAACATCGGTGA
 AGGTTGCTATTGACACAGGGTACCGACATATTGATGGGGCCTACATCTACCAAAATGAAC
 ACGAAGTTGGGGAGGCCATCAGGGAGAAGATAGCAGAAGGAAAGGTGCGGAGGGAAGATA
 TCTTCTACTGTGGAAAGCTATGGGCTACAAATCATGTCCCAGAGATGGTCCGCCCAACCC
 TGGAGAGGACACTCAGGGTCCTCCAGCTAGATTATGTGGATCTTTACATCATTGAAGTAC
 CCATGGCCTTTAAGCCAGGAGATGAAATATACCCTAGAGATGAGAATGGCAAATGGTTAT
 ATCACAAGTCAAATCTGTGTGCCACTTGGGAGGCGATGGAAGCTTGCAAAGACGCTGGCT
 TGGTGAAATCCCTGGGAGTGCCAATTTTAACCGCAGGCAGCTGGAGCTCATCCTGAACA
 AGCCAGGACTCAAACACAAGCCAGTCAGCAACCAGGTTGAGTGCCATCCGTATTTCAACC
 AGCCAAAACCTTGAAATTTTGCCAACAACATGACATTGTCATTACTGCATATAGCCCTT
 TGGGGACCAGTANGAATCCAATCTGGGTGAATGTTTCTTCCACCTTTGTTAAAGGATG
 CACTTCTAAACTATTGGGGAAAAGGTACAATAAGACAGCAGCTCANATTGTTTTGCGT
 TTCAACATCCAGCGAGGGGGTGTGTCATTCTAAAAGCTTTAATCTTGAAAGGATCAA
 AGAAAATTTTCAGATCTTTGACTTTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005989 unedited
 TTGACGCATTGGCGATTGGCACCTTTCCAGGTCCAGTACAGTCACTGGGGATGGGTAC
 AGGGCTGCCCCCGTGTCTGTTCAGGAAACAGCTATGACCGCGCCGCAATCTATATTC
 GAGTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATGCAACAAATCATTATACTTTATTATTCT
 TGTGAACAAAATATTTCCAGAGGTCAGTGTATAAGTAATAATATTGGAATCAGTGAAA
 ACAATCAGTATAGACCAATTTTTTAAAATGATAATTTCTCAAAAATATATGTCTTGAGG
 TCATTGAACATTATCTATAAGCAACTTATCTTGGGAAAACATAATTTTTGAAGAACTCTC
 TCATCCTATGACAGTATGACAGTGACCTAATGTGAATGAATAAAATATATTTCTTTTCTT
 TTTTTTTTTGTTTTGAGACAGAGTCTCGCTCTTTCACCCAGGCCGACTGCAGTGGCGC
 TATCTCGGCTCACTGCAAGCTCCTCCTCCCGGTTTCATGCCATTCTTCTGCCTCAACCTC
 CTGAGTAGCTGGGATTACAGGCCCCCGCACCCGCGCTGGCTATTTTTTTTTAAAAAAA
 AAAAAAACAGNNTTNACACCTTTTTAGCCAGAATGTCTTCGTTCTCCTGACCTCCTGA
 TCTGCCACCTTGGCCTCCCAAGTGCTGTATTTTTGGCATGAGCCCCCGCCCCGGC
 CAAATAAATATTTTTCTGTAGTTGAATTGAAAATAGATTATTCTTTTTGCTGAATTTCA
 ATAATCTTATCACTCTTTAAATGTCCCTCCCGAAAATTTCCAATTTCTTTTTAACT
 TGCTTTCTCAAAATTCATTTAAATTTCCAATTTCTTTAGCTTTTCCAATTACACTTTT
 AAATTCTAAGTCCATTATTCTTAAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_005989

Insert Size:

981 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005989.2 , NP_005980.1
RefSeq Size:	2692 bp
RefSeq ORF:	981 bp
Locus ID:	6718
UniProt ID:	P51857
Cytogenetics:	7q33
Domains:	aldo_ket_red
Protein Families:	Druggable Genome
Protein Pathways:	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways, Primary bile acid biosynthesis
Gene Summary:	<p>The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction. Three transcript variants encoding different isoforms have been found for this gene. Other variants may be present, but their full-length natures have not been determined yet. [provided by RefSeq, Jul 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>