

## Product datasheet for **MC206374**

### **Akr1d1 (BC018333) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Akr1d1 (BC018333) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akr1d1
Synonyms:	MGC25814
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC018333  
 TAGGCACCTTTTCAAATAATGTGCCTCTGCCCTGTTTCAGAATCACCCAGAAAGCTTCAGATTCTTCTCTA  
 CGATGAACCTCAGCGCTGCACACCACCAAAATATCCCTAAGTGATGGGAACAACATTCCACTCATTGGGCT  
 TGGAACTACTCAGATCTTAGACCGGTCCCTGGGAAGACCTATGTGGCAGTGAAGACAGCTATTGATGAG  
 GGGTACCGGCACATTGATGGCGCCTATGTTTACCACAATGAGCATGAAGTCGGTGAGGCCATCAGAGAAA  
 AGATAGCAGAAGGGAAGGTAAGAGGGGAAGAGATCTTCTACTGCGGAAAGTTATGGAATACAGAGCATGT  
 CCCATCAATGGTCTCCAGCCCTGAAAGGACGCTAAAGGCCCTCAAAGTATGATTACATAGACCTTTAT  
 ATTATCGAACTGCCATGGCCTTTAAGCCTGGAAAGGAAATTTACCCTAGAGATGAAAATGGCCGAATTA  
 TATATGACAAAACAAATCTGTGTGCCACGTGGGAGGCATTGGAAGCTTGCAAAGATGCTGGCTTGGTGAA  
 ATCCCTTGGGGTGTCTAATTTTAAACCGCAGGCAGCTGGAGCTCATCTTGAACAAGCCAGGACTCAAGTAC  
 AAACAGTCACTAACCAGGTGGAGTGCCACCCGATTTTACCAGACAAAACCTTTGAAATTTCTGCCAGC  
 AGCATGACATCGTCATTGTGCACATAGCCCTTAGGGACCTGCCGAACCCATCATGGGTGAACGTTTC  
 TTCTCCACCTTGTAAATGACGAACCTAACCTCACTGGGAAAAAAGTACAATAAGACACAAGCTCAA  
 ATTGTGTTGCGTTTCAACATCCAGCGAGGGATAGTTGTCATTCTAAAAGCTTTACCCCGAAAGGATCA  
 AAGAAAACCTTTCAGATCTTTGACTTTTCTCTCACGGAAGAAGAAATGAAGGACATTGATGCCTTGAATAA  
 AAATGTCCGCTATGTGGAGTTGCTCATGTGGAGTGACCATCTGAATACCCATTTTCATGACGAATACTGA  
 ACATGGAATTTCTTCAACAGAGTTTTTTTTTTTCTTCAAGATCTTAAAGCTGATTAATCCACTCCA  
 GATGTAGATAAATGGGGTCTTGCTCTTTCAGATTAAGATGGGCAGAACACCACTGCTTAACTTTTGTG  
 TAGTATTAACCTCAGCTAGCTCTGATGAAGAGAAAAGAAGATTCATCTTTATTTAATCTATCTGGATAGTT  
 CTTTGCAAATGTCTTACTAATATCTTTAGATCAATGTCTTCTAGACTGTTTCATGGAAATCACTAACTTT  
 ACTCAAAGTAGCATGTAAGAGCAGGTCCAAGAATCTGAGACTAATATAGGGAGTCTGATTTGTTAACC  
 TTTAGCAGGACAAAGAGGTTTGCAGTTGGCAGGTTCTGGTGTGACCATGACCATGACCTTCCAAATG  
 TTTGGACCATTAGTTGCAAGATGGTCACAGCCAAGGCAGAAATCCACATGCCATTCTAATGCACCTTGA  
 GTAGAGATAGAAGTGGAAAGTCTTGAAAAGTCCCTAAAGAAGAACATACTGTAGGATGTTCCAGGGCTAGAG  
 GTTCTGCAAGTGTGCTGGCAGGCTGGAGGCCAGGGTGAGGGAGGTGGGGATGAGGGCAATCGGCAA  
 AGCCATGCTGAGTCTGTTTTATCATTTGTTTCCATCCAGTGTGCCATTTCAGCCTTTTCATGTGCGTGAA  
 GGGTGGACAACACTGATTCTTTCTAAATTGTTTTGTTTAGGAGGGTGGGGAGTTGAGACAGGGTCTTG  
 TGTAGTCCAGACTGCTCACAACCTGCTGTGCAGTTGAGGCCAGTCTTGAATTCTGAATCCCTGGTCTTT  
 CTCCATTTTTAATGCCCTGAGCTTTTCATGTGACTGGTAAGCCCTACTTGTACTATGTTATAATCATTCT  
 TGCTGCACTCATCAAGAAAACCACCATGTAAGTGGCAAGAAACAAGATATAACAATCAAGCTTTGTAC  
 CATAAAATCGTCTGAAGATGGTGATTTTTTTTTTAAAAAATTATTTTATGTATATGAGTGCAGTGTAGCT  
 GTCTTCAGAAACACCAGAAGAGGCATCAGATCTCACTACAGATGGTTGTGAGCTACCACGTGGTTGCTG  
 GGATTTGAACTCAGGAAGTTTGGAAAGAGCAGCCTGTGCTTTAACCGCTGAGCATCTTCCAGCCCCCAA  
 ATGATTTTTTTTTCTTTTTTAAAGAAGGATTTGAGAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC018333

**Insert Size:** 978 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:**

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.

**RefSeq:** [BC018333](#), [AAH18333](#)

**RefSeq Size:** 2291 bp

**RefSeq ORF:** 978 bp

**Locus ID:** 208665

**Cytogenetics:** 6 B1

**Gene Summary:** Catalyzes the stereospecific NADPH-dependent reduction of the C4-C5 double bond of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure to yield an A/B cis-ring junction. This cis-configuration is crucial for bile acid biosynthesis and plays important roles in steroid metabolism. Capable of reducing a broad range of delta-(4)-3-ketosteroids from C18 (such as, 17beta-hydroxyestr-4-en-3-one) to C27 (such as, 7alpha-hydroxycholest-4-en-3-one).[UniProtKB/Swiss-Prot Function]