

## Product datasheet for **SC320185**

### AKR1A1 (NM\_006066) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AKR1A1 (NM\_006066) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** AKR1A1  
**Synonyms:** ALDR1; ALR; ARM; DD3; HEL-S-6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_006066.2  
GTTCTCCAAACCCGCGCTGCGGAGTGAGTGACCAAGTTCCGGCCAGTTCGACCTCGAGGA  
TCCAGAGGTGGAGACGGTACTACCTCCCAGCTCTGTTTTCCATCCCCTTCAGGTCCTTCC  
TCGGGAGGCGGCGAAGGCGGTCCACCCTGCGCGTGATCCTTCATGCCCGGCCCTGCCCC  
TCCTCCGGGTGGAACCTCCCCCTCACCGCCAGACTTAAGCTGAGGATCGTTGGATCTCT  
GGCGGGGTGCAGAACTGAGCCCAGGCCACAGTACCCTATTACGCTCTGTGCTTGTGCCA  
AGGTTTCAAGTGATCCTCCCGCTCAGCCTGCCAGGTGCTGAGATTACATGTATGAGCC  
ACTGCACCTGAAAGGAGCCAGAAATGTGAAGTGTAGCTGAAGGATGAGCAGCAGCTAG  
CCAGGCAAAGGGGCAATGGCGGCTTCTGTGTTCTACTGCACACTGGGCAGAAGATGCC  
TCTGATTGGTCTGGTACCTGGAAGAGTGAGCCTGGTCAGGTAAGCAGCTGTTAAGTA  
TGCCCTTAGCGTAGGCTACCGCCACATTGATTGTGCTGCTATCTACGGCAATGAGCCTGA  
GATTGGGAGGCCCTGAAGGAGGACGTGGGACCAGGCAAGGCGGTGCCTCGGGAGGAGCT  
GTTTGTGACATCCAAGCTGTGGAACACCAAGCACCCCGAGGATGTGGAGCCTGCCCT  
CCGGAAGACTCTGGCTGACCTCCAGCTGGAGTATCTGGACCTGTACCTGATGCACTGGCC  
TTATGCCCTTGGAGCGGGAGACAACCCCTTCCCAAGAATGCTGATGGGACTATATGCTA  
CGACTCCACCCACTACAAGGAGACTTGGAAAGGCTCTGGAGGCACTGGTGGCTAAGGGGCT  
GGTGCAGGCGCTGGCCCTGTCCAACCTTCAACAGTCGGCAGATTGATGACATACTCAGTGT  
GGCCTCCGTGCGTCCAGCTGTCTTGCAAGTGAATGCCACCATACTTGGCTCAAATGA  
GCTAATTGCCCACTGCCAAGCAGTGGCCTGGAGGTAAGTCTTATAGCCCTTTGGGCTC  
CTCTGATCGTGATGGCGTGATCCTGATGAGCCTGTCTGCTGGAGGAACCAAGTAGTCT  
GGCATTGGCTGAAAAGTATGGCCGATCTCCAGCTCAGATCTTGCTCAGGTGGCAGGTCCA  
GCGGAAAGTGATCTGCATCCCCAAAAGTATCACTCCTTCTCGAATCCTTCAGAACATCAA  
GGTGTGTTGACTTACCTTTAGCCCAAGAGATGAAGCAGCTAAATGCCCTGAACAAAAA  
TTGGAGATATATTGTGCCTATGCTTACGGTGGATGGGAAGAGAGTCCCAAGGGATGCAGG  
GCATCCTCTGTACCCCTTAATGACCCGTAAGTACTGAGACCACAGCTTCTTGGCCTCCCTTCC  
AGCTCTGCAGCTAATGAGGTCTGCCACAACGGAAGAGGGAGTTAATAAAGTCATTGGA  
GCATCCAAAAAAAAAAAAAAAAAAAAA



[View online »](#)

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_006066
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_006066.2</a></u> , <u><a href="#">NP_006057.1</a></u>
<b>RefSeq Size:</b>	1556 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	10327
<b>UniProt ID:</b>	<u><a href="#">P14550</a></u>
<b>Cytogenetics:</b>	1p34.1
<b>Domains:</b>	aldo_ket_red
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways
<b>Gene Summary:</b>	<p>This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member, also known as aldehyde reductase, is involved in the reduction of biogenic and xenobiotic aldehydes and is present in virtually every tissue. Multiple alternatively spliced transcript variants of this gene exist, all encoding the same protein. [provided by RefSeq, Jan 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. All variants encode the same protein.</p>