

Product datasheet for **SC320758**

AKR1A1 (NM_153326) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKR1A1 (NM_153326) 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_153326.1
 ACTTAAGCTGAGGATCGTTGGATCTCTGGCGGGGTGCAGAACTGAGCCCAGGCCACAGTA
 CCCTATTCACGCTCTGTGCTTGTGCCAAGGGGGCAATGGCGGCTTCTGTGTTCTACTGC
 AACTGGGCAGAAAGATGCCTCTGATTGGTCTGGGTACCTGGAAGAGTGAGCCTGGTCAGG
 TAAAAGCAGCTGTTAAGTATGCCCTTAGCGTAGGCTACCGCCACATTGATTGTGCTGCTA
 TCTACGGCAATGAGCCTGAGATTGGGGAGGCCCTGAAGGAGGACGTGGGACCAGGCAAGG
 CGGTGCCTCGGGAGGAGCTGTTTGTGACATCCAAGCTGTGGAACACCAAGCACCACCCCG
 AGGATGTGGAGCCTGCCCTCCGGAAGACTCTGGCTGACCTCCAGCTGGAGTATCTGGACC
 TGTACCTGATGCACTGGCCTTATGCCTTTGAGCGGGGAGACAACCCCTTCCCAAGAATG
 CTGATGGGACTATATGCTACGACTCCACCCACTACAAGGAGACTTGAAGGCTCTGGAGG
 CACTGGTGGCTAAGGGGCTGGTGCAGGGCTGGGCCTGTCCAACCTCAACAGTCGGCAGA
 TTGATGACATACTCAGTGTGGCCTCCGTGCGTCCAGCTGTCTTGCAGGTGGAGTGCCACC
 CATACTTGGCTCAAAATGAGCTAATTGCCCACTGCCAAGCACGTGGCCTGGAGGTAACCTG
 CTTATAGCCCTTTGGGCTCCTCTGATCGTGCATGGCGTGATCCTGATGAGCCTGTCTGCTG
 TGGAGGAACCAAGTAGTCTGGCATTGGCTGAAAAGTATGGCCGATCTCCAGCTCAGATCT
 TGCTCAGGTGGCAGGTCCAGCGGAAAGTATGCTGCATCCCCAAAAGTATCACTCCTTCTC
 GAATCCTTCAGAACATCAAGGTGTTTGACTTACCTTTAGCCCAGAAGAGATGAAGCAGC
 GAGTCCCAAGGGATGCAGGGCATCCTCTGTACCCCTTTAATGACCCGTAAGTACTGAGACCA
 GCTTCTTGGCCTCCCTTCCAGCTCTGCAGCTAATGAGGTCTGCCACAACGGAAAGAGGG
 AGTTAATAAAGCCATTGGAGCACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_153326



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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).
OTI Annotation:	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.
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.
RefSeq:	<u>NM_153326.1</u> , <u>NP_697021.1</u>
RefSeq Size:	1437 bp
RefSeq ORF:	978 bp
Locus ID:	10327
UniProt ID:	<u>P14550</u>
Cytogenetics:	1p34.1
Domains:	aldo_ket_red
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways
Gene Summary:	<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 (2) lacks an alternate exon in the 5' UTR, compared to variant 1. All variants encode the same protein.</p>