

Product datasheet for **SC311363**

AKR1B10 (NM_020299) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKR1B10 (NM_020299) Human Untagged Clone
Tag: Tag Free
Symbol: AKR1B10
Synonyms: AKR1B11; AKR1B12; ALDRLn; ARL-1; ARL1; HIS; HSI
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_020299 edited
 CCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGA
 GTCACGGTGGGCCTGTAAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
 ACCCAGGAGACAGAGTTGTAGTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAA
 CAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGCAGGACGTGAGACTTCTACCTGCTC
 ACTCAGAATCATTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTACCAAAGCCAA
 GATGCCATTGTGGCCTGGCACTTGGAACTCTCCTCTTGGCAAAGTAAAGAAGCAGT
 GAAGGTGGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGA
 ACATGAAGTGGGGAAAGCCATCCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGA
 CCTGTTTCATCGTCAGCAAGTTGTGGCCACTTTCTTTGAGAGACCCTTGTGAGGAAAGC
 CTTTGAGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCTTATTCAGT
 GCCACAGGATTCAAGTCTGGGGATGACCTTTTCCCAAAGATGATAAAGGTAATGCCAT
 CGGTGAAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGG
 GCTGGTAAAAGCCCTTGGGGTCTCCAATTTAGCCACTTCCAGATCGAGAAGCTCTTGAA
 CAAACCTGGACTGAAATATAAACAGTGACTAACCAGGTTGAGTGTACCCATACCTCAC
 ACAGGAGAAACTGATCCAGTACTGCCACTCCAAGGCATCACCATTACGGCTACAGCCC
 CCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCC
 CAAGATTAAGGAGATTGCTGCAAAGCACAAAAAACCGCAGCCCAGGTTCTGATCCGTTT
 CCATATCCAGAGGAATGTGATTGTCATCCCCAAGTCTGTGACACCAGCAGCATTGTTGA
 GAACATTCAGGTCCTTGGACTTTAAATGAGTGATGAGGAGATGGCAACCATACTCAGCTT
 CAACAGAAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTGGAAGACTATCCCTT
 CGATGCAGAATATTGAGGTTGAATCTCCTGGTGAAGATTATACAGGAGATTCTCTTTCTTC
 GCTGAAGTGTGACTACCTCCACTCATGTCCATTTTAGCCAAGCTATTTAAGATCACAG
 TGAACCTAGTCTGTTATAGACGAGAATCGAGGTGCTGTTTTAGACATTTATTTCTGTAT
 GTTCAACTAGGATCAGAATATCACAGAAAAGCATGGCTTGAATAAGGAAATGACAATTTT
 TTCCACTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCCAACACTGAG
 GATGTAAGATCAATAAAAAAATAATAATCATAAAAAATAAAAAAATAAAAAAATAAAAAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020299 unedited
 GAGTAGTATTTTGTATACGACTACTATAGGGCGGCCGGAATCGGCACGAGGCCTGAGCT
 CAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAATTAGCTGGGAGTCACGGT
 GGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGA
 GACAGAGTTGTAGTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAACAGTGCAA
 GACTGTCTCAAAAACAGCAACAGAGAGCAGGACGTGAGACTTCTACCTGCTCACTCAGAA
 TCATTTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTACCAAAGCCAAGATGCCCA
 TTGTGGGCTGGGCACCTTGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGTGG
 CCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAG
 TGGGGGAAGCCATCCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTCA
 TCGTCAGCAAGTTGTGGCCACTTTCTTTGAGAGACCCCTTGTGAGGAAAGCCTTTGAGA
 AGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCTTATCTACTGGCCACAGG
 GATTCAAGTCTGGGGATGACCTTTTCCCAAAGATGATAAAGTAATGCCATCGGTGGAAA
 AGCAACGTTCTTGATGCCTGGAGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTAAAAG
 CCCTTGGGGTCTCCAATTCAGCCACTTCAGATCGAGAAGCTCTTGAACAACCTGGACTG
 AAATATTAACCAGTGACTACCAGTTGAGTGTACCATACCTCACACAGGAGAAAAGTATC
 CAGTACTGCCACTCAAGGCATCACCGTTACGGCTACAGGCCCCCTGGG

Restriction Sites:

Please inquire

ACCN:

NM_020299

Insert Size:

1600 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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:	NM_020299.3 , NP_064695.2
RefSeq Size:	1551 bp
RefSeq ORF:	951 bp
Locus ID:	57016
UniProt ID:	O60218
Cytogenetics:	7q33
Domains:	aldo_ket_red
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Fructose and mannose metabolism, Linoleic acid metabolism, Metabolic pathways
Gene Summary:	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member can efficiently reduce aliphatic and aromatic aldehydes, and it is less active on hexoses. It is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis. [provided by RefSeq, Jul 2008]