

Product datasheet for **RN206011**

Aldh1a2 (NM_053896) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1a2 (NM_053896) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aldh1a2
Synonyms:	Raldh-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN206011 representing NM_053896
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTCCAGCGAGATCGCCATGCCCGCGAGGTGAAGGCCACCCCGCGCTCATGGCCTCGCTGC
 AGCTCCTGCCGTACCCACGCCAACCTCGAGATCAAGTACACCAAGATCTTTATTAACAATGAATGGCA
 GAACTCAGAGAGTGGGAGAGTGTCCCTGTCTGTAATCCAGCCACAGGAGAGCAAGTGTGTGAAGTTCAA
 GAAGCAGACAAGGTGGATATAGACAAGGCAGTGCAGGCGGCCCGCTGGCCTTCTCTCTTGGTTCTGTGT
 GGAGAAGGATGGACGCTTCTGAAAGAGGACGTCTGCTGGACAAGCTTGCAGACTTGGTGGAACGGGACAG
 GGCAACTCTTGAACATGGAATCACTAAATGGCGGTAAGCCATTCTGCAAGCTTTTTACATCGATTTG
 CAGGGAGTCATCAAACCCTGAGGTATTATGCAGGCTGGGCTGATAAAATTCACGGAATGACCATTCTGT
 TAGATGGAGACTATTTTACCTTACGAGACATGAGCCATCGGAGTGTGTGGACAGATTATCCCGTGGAA
 TTTCCCTCTGCTGATGTTACCTGGAAAATGCTCCCGCACTGTGCTGTGTTAACACTGTGGTCATCAAG
 CCTGCAGAGCAGACACCACTCAGTGCACGTATATGGGAGCCCTCATCAAGGAGGCTGGCTTCCACCCG
 GGGTCGTAACATTCTGCCAGGGTATGGGCCAACAGCAGGGGCAGCAATAGCGTCTCACATTGGCATAGA
 CAAGATTGCATTACAGGCTCTACTGAGGTTGGAAAGCTTATTCAAGAAGCAGCTGGAAGAAGTAATTTG
 AAGAGAGTAACCTGGAACTTGGAGGAAAAGCCCTAATATTATTTTGCAGATGCTGACTTGGACTACG
 CTGTGGAGCAGGCTCACCAGGGTGTGTTCTTCAACCAAGGCCAGTGTGCACTGCGGGGTCTCGAATCTT
 TGTGGAGGAGTCCATCTATGAGGAATTTGTGAAAAGAAGTGTGAAAGAGCCAAGAGGCGCATTGTGGGG
 AGCCCCTTTGATCCCACTACTGAGCAGGGTCTCAGATTGATAAGAAGCAATAACAACAAAATCCTGGAGC
 TCATCCAGAGCGGTGTGGCCGAGGGCGCCAAGCTCGAGTGTGGAGGCAAGGACTGGGAAGGAAGGGCTT
 CTTCAATTGAGCCTACCGTGTCTCCAACGTTACAGATGACATGCGGATCGCCAAGGAGGAGATCTTTGGT
 CCTGTCCAGGAAATTTTGAAGTTTAAAGACTATGGATGAAGTTATAGAAAGAGCCAATAACTCAGACTTCG
 GGCTTGTAGCGGCTGTCTTCACTAATGACATCAACAAGGCTCTCATGGTGTCTCTGCAATGCAAGCTGG
 GACAGTTTGGATCAATTGTTACAACGCCTTAAATGCTCAGAGCCCTTCCGGGGGTTCAAGATGTCTGGA
 AATGGGAGAGAAATGGGTGAGTTTGGCTTACGGGAGTACTCAGAAGTAAAGACCGTGACGGTGAAGATCC
 CCCAGAAGAACTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_053896

Insert Size: 1557 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: [NM_053896.2](#), [NP_446348.2](#)

RefSeq Size: 2254 bp

RefSeq ORF: 1557 bp

Locus ID: 116676

UniProt ID: [Q63639](#)

Cytogenetics: 8q24

Gene Summary: enzyme necessary for the production of retinoic acid; may be associated with congenital diaphragmatic hernia [RGD, Feb 2006]