

## Product datasheet for **RN215183**

### **Aldh1a1 (NM\_022407) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aldh1a1 (NM_022407) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aldh1a1
Synonyms:	Ahd2; Aldh1; Aldh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN215183 representing NM\_022407  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTCCCTGCACAGCCTGCAGTTCCTGCCCACTGGCCAATTGAAGATTCAACACACCAAGATCT  
 TCATAACAATGAATGGCATGATTCACTGAGTGGCAAGAAATTTCTGTCCTAACCCCTGCAACTGAGGA  
 GGTCACTGCCATGTGGAAGAAGGGGACAGGCAGATGTTGACAAAGCTGTGAAGCCGCAAGACAGGCT  
 TTCCAGATTGGCTCCCCATGGCGCACCATGGATGCTTCAGAGAGAGGACGCTTGCTGAACAAGCTGGCTG  
 ACTTAATGGAGAGAGATCGTCTGCTGCTGGCTACAATAGAGGCCATCAATGGTGGGAAAGCTTTGCCAA  
 TCGCTACTGTGCGGATTTAGGAGGCAGCATAAAAGCATTAAAGTACTGTGCAGGCTGGGCTGACAAGATC  
 CATGGTCAAACAATACCGAGTGATGGAGACATTTTCACTTTTACGAGACGTGAACCTATTGGGGTGTGTG  
 GCCAAATCATCCCTTGAATTTTCCACTGCTTATGTTTCAATTTGGAAGATAGGCCCTGCCCTCAGCTGTGG  
 GAACACGGTGGTGTCAAGCCAGCAGAGCAAACCTCTCACTGCTCTTACATGGCATCTTTAATAAAA  
 GAGGCAGGGTTTCTCCTGGCGTGGTGAACATTGTCCTGGTTATGGGCCAACTCGGGGGCAGCGATCT  
 CCTCTCATGGATGTGGACAAGGTGGCCTTACGGGATCAACCCAGGTTGGCAAATTAATCAAGGAAGC  
 TGCAGGAAAAAGCAATCTGAAGAGGGTCAAGCTGGAGCTTGGGGGAAAGAGCCCTTGCAATGTGTTTGA  
 GATGCCGACTTGGACATTGCTGTGAGTTTGCACACCATGGAGTCTTACCATCAAGGCCAATGCTGCG  
 TCGCGCATCCCGGATTTTCTGTTGAGGAGTCAGTTTATGATGAGTTTGTGAGAAAGAGTGTGAGCGAGC  
 CAAGAAATATGTCCTTGGAAACCCTCTGACCCAAGGAATAAATCAGGGCCCTCAGATTGACAAGGAGCAA  
 CATGATAAAATCCTTGATCTCATTGAGAGTGGGAAGAAAGAGGCCAAACTGGAGTGTGGTGGAGGAC  
 GCTGGGGAAACAAAGGCTTCTTTGTCCAGCCACAGTCTTCTCCAATGTGACCGATGAGATGCGCATGTC  
 CAAGAGGAGATATTTGGACCAGTGCAACAATCATGAAGTTTAAAGTCCATAGATGATGTGATCAAGAGA  
 GCAAACAATACTACCTATGGTCTAGCAGCAGGAGTCTTCAAAAAGACCTGGACAGGGCCATCACTGTGT  
 CTTCTGCTCTGCAGGCCGGGTAGTGTGGGTTAACTGCTATATGATCTTGTGAGCCAGTCCCCCTCGG  
 TGGATTCAAGATGTCTGGAAATGGACGAGAAGTGGGTGAACATGGTCTTTATGAGTACACTGAGCTCAAG  
 ACAGTTGCAATGAAAATATCTCAGAAGAAGCTCCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1554\\_b04.zip](https://cdn.origene.com/chromatograms/ja1554_b04.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_022407

**Insert Size:** 1506 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\\_022407.3](#), [NP\\_071852.2](#)

**RefSeq Size:** 2095 bp

**RefSeq ORF:** 1506 bp

**Locus ID:** 24188

**UniProt ID:** [P51647](#)

**Cytogenetics:** 1q51

**Gene Summary:** ubiquitous enzyme located in virtually all mammalian tissues; catalyzes oxidation of aldehyde substrates to carboxylic acids; detoxifies ethanol-derived acetaldehyde [RGD, Feb 2006]