

Product datasheet for **RN214016**

Aldh6a1 (NM_031057) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh6a1 (NM_031057) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aldh6a1
Synonyms:	Mmsdh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214016 representing NM_031057
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCAGTGGCGGCAGCAGCAGTGGCGGATCCGGATCCTGCAGGTTTCTTCTAAAGTAACT
 CCACATGGTGTCCAGCATCTTCTTCTTTCATCATCAGTGCCAAGTGTAAAGCTTTCATTGATGGGAA
 ATTCGTTGAATCCAAAAGTGACAAATGGATTGACATCCACAACCCAGCCACCAATGAGGTTGTTGGTCGG
 GTTCTCAGTCCACAAAGCTGAAATGGAGGCAGCCGTAGCCGCCTGCAAACGTGCTTCCCTGCGTGCC
 CAGACACATCTATTTAAGCCGGCAGCAGGTCCTGCTTTCGTTATCAGCAACTCATTAAAGAAAACCTGAA
 AGAAATCGCCAGGTTAATCACATTGGAACAAGGGAAGACTCTGGCTGATGCTGAAGGAGATGTGTTCCGA
 GGCCTTCAGTGGTTGAGCATGCCTGCAGTGTGACGTCCCTCATGCTGGGAGAGACCATGCCATCTATCA
 CCAAAGACATGGACCTTTATTCCTACCGCTGCCTCTGGGGTGTGTGCAGGCATCGACCATTTAATTT
 TCCTGCCATGATCCCCCTTTGGATGTTTCCCATGGCTATGGTTTGTGAAATACTTTCCTAATGAAACCA
 TCAGAGCGAGTACCTGGAGCAACCATGCTTCTTGCTAAGTTGCTTCAGGATTCGGTGCCCCGGACGGAA
 CACTGAACATCATCCATGGACAACATGAAGCTGTAATTTTATTTGCGATCATCCAGACATCAAGGCAAT
 CAGCTTTGTGGGATCCAACAGGCGGGAGAGTACATCTTCGAAAGAGGGTCAAGAAATGGCAAGAGGGTT
 CAAGCCAATATGGGAGCCAAGAACCATGGGGTAGTCATGCCAGATGCCAATAAGGAAAATACCCTCAACC
 AGCTGGTTGGGGCAGCATTTGGAGCTGCTGGGCAGCGTGCATGGCTCTTCAACAGCCGTCCTTGTGGG
 AGAAGCTAAGAAGTGGCTGCCAGAACTGGTAGAGCGTGCCAAGAATCTCCGCGTCAATGCAGGAGATCAG
 CCTGGAGCTGATCTTGGTCCCCGATCACCCCCAGGCCAAAGAGAGAGTCTGCAATCTGATTGATAGTG
 GAGCAAAAAGAGGGGGCTTCCATCTTCTGGATGGCGGAAAATTAAGTTAAGGGCTACGAAAACGGTAA
 CTTTGTGGACCAACCATCATCTCCAATGTTAAGCCAAGTATGACTTGTACAAAGAGGAGATTTTGGT
 CCAGTCTTGTGGTCTTAGAGACAGAAACCTGGATGAAGCCATCAAGATTGTTAATGACAACCCATATG
 GAAACGGGACTGCTATCTTACCACCAACGGAGCCATAGCTCGGAAATACGCTCACATGGTGGATGTGGG
 ACAGGTGGGCGTGAATGTCCCCATTCCAGTGCCTTTGCCAATGTTTTCTTCACTGGCTCTCGATCTTCC
 TTCAGGGGAGACCAATTTCTATGGCAACAGGGCATCCAGTTTTACTCAGTTAAAGACTATCACAT
 CTCAGTGAAGGAAGAAGATGCTACTCTTCTCACCTGCAGTGGTCATGCCTACCATGGGGCGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_031057

Insert Size: 1608 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_031057.2](#), [NP_112319.2](#)

RefSeq Size: 3333 bp

RefSeq ORF: 1608 bp

Locus ID: 81708

UniProt ID: [Q02253](#)

Cytogenetics: 6q31

Gene Summary: Plays a role in valine and pyrimidine metabolism. Binds fatty acyl-CoA.[UniProtKB/Swiss-Prot Function]