

Product datasheet for **RN201214**

Aldh3a2 (NM_031731) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh3a2 (NM_031731) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aldh3a2
Synonyms:	Aldh4; FALDH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201214 representing NM_031731
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGACAGGTCCAACGACTTCGCCAGACGTTCCGGTCCGGCCGATCGCGGCCGCTGCGTTTCCGAC
 TGCAGCAGCTCGAGGCCCTCCGGAGGATGGTGCAAGAGCGAGAGAAGGACATCTTGGCAGCCATCGCAGC
 AGACCTGAGCAAAAGTGAAGTCAATGCATACAGTCATGAAGTCATTACCATCCTTGGGGAGATTGACTTC
 ATGCTGGGAATCTTCTGAATTGGCCTCTGCTCGGCCAGCGAAGAAGAACCTGCTTACCATGATGGACG
 AGGCCTATGTTCCAGCCAGAGCCTCTGGGAGTCGTGCTGATTATTGGAGCTTGAACTATCCTTTTGTCT
 GACCCTGCAGCCACTGGTGGGAGCCATTGCTGCAGGAAATGCTGCCATTGTTAAGCCCTCGGAACTCAGT
 GAAAACACGGCTAAGATCTTGGCTGAATCCTCCCTCAGTATTTAGACCAGGACCTGTACATGATTGTTA
 ATGGCGCGGTTGAAGAAACCACAGAGCTTCTGAGGCAGCGGTTTGATCACATTCTACACAGGAAACAC
 CGCAGTTGAAAAATTGTCATGGAGGCTGCTGCCAAGCACCTGACCCCTGTGACCCTGGAGCTCGGGGGC
 AAAAGCCCATGTACATTGACAGAGACTGTGACCTGGACGTTGCTTGACAGACGGATAACCTGGGGAAAGT
 ACATGAATTGTGGTCAGACCTGTATTGCTCCTGACTATATCCTGTGTGAAGCCTCCCTCCAGGATCAAAT
 CGTACAGAAGATTAAGGATACGGTGAAGGACTTTTATGGGGAAAAATGTAAGGCTTCTCCTGATTATGAA
 AGGATCATCAACCTTCGTCACCTTAAGAGGATAAAAAAGTTTGCTTGAAGGACAGAAAAATAGCTTTTGGTG
 GGGAGACTGATGAAGCTACACGCTACATAGCCCAACCATACTCACTGATGTTGACCCTAACTCCAAGGT
 GATGCAAGAAGAAATTTTGGACCAATTCTCCCAATAGTGTCTGTGAAAAATGTGGAGGAAGCCATAAAT
 TTCATAAATGATCGCGAAAAGCCCTGGCACTACATATTTCTCACAACAATAAGCTCATCAAACGGG
 TGATTGATGAGACATCCAGTGGTGGAGTCACAGGCAATGATGTCATCATGCACTTCACTGTTAATTTCTTT
 GCCCTTTGGAGGTGTGGGTGCCAGTGGAAATGGGGCTTATCATGGCAAATACAGTTTCGATACCTTTTCT
 CATCAGCGCCCTGCTTGTAAAAGGGTTAAAGGAGAGAGTGTAAACAACTCAGGTACCTCCCAACA
 GCGAGTCCAAGGTGAGCTGGTCGAAATCTTCTGCTGAAACAGTTCAACAAAGGAAGGCTGCAGCTGCT
 GCTTCTCGTGTGCTTGGTTGCGGTTGCAGCTGTGATCGTCAAGGATCAGCT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_031731

Insert Size: 1455 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_031731.2](#), [NP_113919.2](#)

RefSeq Size: 2977 bp

RefSeq ORF: 1455 bp

Locus ID: 65183

UniProt ID: [P30839](#)

Cytogenetics: 10q22

Gene Summary: Catalyzes the oxidation of medium and long-chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length. Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid (By similarity).[UniProtKB/Swiss-Prot Function]