

Product datasheet for **RN208893**

Aldh9a1 (NM_022273) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh9a1 (NM_022273) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aldh9a1
Synonyms:	Tmaba-dh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208893 representing NM_022273
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACTGGCACCTTCGTCGTGTCGAGCCGCTCAACTACCGCGGGGGCCCGCTGGAGCCGGTGG
ATGCCTCCGGCACGGAGAAAGCGTTCGAGCCAGCCACCGCCGAGAGATAGCTACTTTCAAGTGTTCGGG
AGAAAAGGAAGTAAATTTGGCTGTTGAAAATGCAAAAGCTGCCTTTAAAATCTGGAGTAAGAAAAGCGGC
TTGGAGCGTTGTCAAGTCTCTAGAGGCTGCCGGATAATAAGGAACGGAGGGATGAAATTGCCATTA
TGGAGACCATCAACAACGGGAAGTCCATATTTGAGGCTCGCCTGGATGTTGACACTTCCTGGCAGTGCCT
GGAATACTATGCAGGCCTGGCTGCGTCCATGGCGGGAGAGCACATCCAGCTCCCAGGAGGGTCTTTGGC
TACACCAGAAGAGAACCCTTGGGGTGTGTTGGGGATAGGAGCATGGAACCTCCAGTTCAGATGCTCT
GTTGGAAGTCTGCTCCGGCTTTGGCTTGTGTAATGCCATGATCTTAAGCCCTCCTCCTCACGCCTGT
GTCTGCTCTGCTCTGGCTGAGATCTACACAAAGCCGGTGCCTAACGGCCTCTCAAGTGGTGCAA
GGTGGGGCTGCCACAGGCCAGTTTCTGTGTGAGCATCGTATGTGGCCAAAGTCTCTTCACTGGAAGCG
TGCCCACTGGCATGAAGATCATGGAGATGGCCGCTAAAGGAATCAAAACCATTACTTTGGAAGTGGGGG
CAAATCTCCTCTGATCATTTTCTGACTGTAATATGAAGAATGCTGTGAAGGGGGCCTTGTGGCCAAC
TTCCTCACACAAGGACAGGTGTGCTGCAACGGCACTAGAGTGTGTTGTGCAAAAAGGAAATTGCTGACGCAT
TTACAAAGGAAGTTGTGAGGCAGACTCAGAGGATAAAGATTGGGGACCCACTTCTGGAAGATACAAGGAT
GGGCCCCACTCATCAATGCCCCGCACCTGGAGCGAGTCTCGGGTTTGTGAGGTCTGCAAAGGAGCAGGGT
GCCACTGTGCTGTGTTGGAGAGCCGATGCCCCGGAGGATCCTAAGTTAAAACATGGATATTACATGA
CACCTTGCATTTAACTAATTGCACAGATGACATGACTTGTGTAAGAAGAGATCTTTGGCCAGTTAT
GTCCATTCTAACATTTGAGACTGAAGCCGAGTTCTGGAGCGGGCCAATGACACCACGTTTGGACTAGCA
GCTGGGGTCTTTACCAGGGACATTCAGAGGGCGCACAGGGTGGCGGCTGAGCTGCAGGCCGGAACGTGCT
ACATTAACAATAAACGTGAGCCCGTGGAGTTGCCCTTTGGTGGATACAAGAAGTCAAGATTTGGCAG
AGAGAACGGCCGAGTGACGATTGAGTACTATTCACAGCTGAAGACGGTGTGTGGAGATGGGGGACGTG
GAGTCGCCTTTTAAAACCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_022273

Insert Size: 1494 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_022273.2](#), [NP_071609.2](#)

RefSeq Size: 2360 bp

RefSeq ORF: 1494 bp

Locus ID: 64040

UniProt ID: [Q9JLJ3](#)

Cytogenetics: 13q24

Gene Summary: catalyzes the conversion of gamma-trimethylaminobutyraldehyde to gamma-butyrobetaine in carnitine biosynthesis [RGD, Feb 2006]