

Product datasheet for **RR208893**

Aldh9a1 (NM_022273) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR208893 representing NM_022273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCACTGGCACCTTCGTCGTGTCGAGCCGCTCAACTACCGCGCGGGGCCCGCTGGAGCCGGTGG
 ATGCCTCCGGCACGGAGAAAGCGTTCGAGCCAGCCACCGCCGAGAGATAGCTACTTTCAAGTGTTCGGG
 AGAAAAGGAAGTAAATTTGGCTGTTGAAAATGCAAAAGCTGCCTTTAAAACTGGAGTAAGAAAAGCGGC
 TTGGAGCGTTGTCAAGTCTCTAGAGGCTGCCCGGATAATAAGGAACGGAGGGATGAAATGGCATT
 TGGAGACCATCAACAACGGGAAGTCCATATTTGAGGCTCGCTGGATGTTGACACTTCTGGCAGTGCCT
 GGAATACTATGCAGGCCCTGGCTGCGTCCATGGCGGGAGAGCACATCCAGCTCCAGGAGGGTCTTTGGC
 TACACCAGAAGAGAACCCTTGGGGTGTGTTGGGGATAGGAGCATGGAACCTCCAGTCCAGTGGCT
 GTTGAAGTCTGCTCCGGCTTTGGCTTGTGTAATGCCATGATCTTAAGCCCTCTCCCTCACGCCTGT
 GTCTGCTCTGCTCTGGCTGAGATCTACACAAAGCCGGTGCCTAACGGCCTCTCAAGTGGTGCAA
 GGTGGGGCTGCCACAGGCCAGTTTCTGTGTGAGCATCGTGTGTCGCAAAAGTCTCTTCACTGGAAGCG
 TGCCCACTGGCATGAAGATCATGGAGATGGCCGCTAAAGGAATCAAAACCATTACTTTGGAAGTGGGGG
 CAAATCTCTCTGATCATTTTCTCTGACTGTAATATGAAGAATGCTGTGAAGGGGGCCTTGTGGCCAAC
 TTCTCACACAAGGACAGGTGTGCTGCAACGGCACTAGAGTGTGTTGTGCAAAAGGAAATTGCTGACGCAT
 TTCAAAGGAAGTTGTGAGGCAGACTCAGAGGATAAAGATTGGGGACCCACTTCTGGAAGATACAAGGAT
 GGGCCCACTCATCAATGCCCCGCACCTGGAGCGAGTCTCGGGTTTGTGAGGTCTGCAAAGGAGCAGGGT
 GCCACTGTGCTGTGTTGGAGAGCCGATGCCCGGAGGATCCTAAGTTAAAACATGGATATTACATGA
 CACCTTGCAATTTAACTAATTGCACAGATGACATGACTGTGTAAAAGAAGAGATCTTTGGCCAGTTAT
 GTCCATTCTAACATTTGAGACTGAAGCCGAGTTCTGGAGCGGGCAATGACACCACGTTTGGACTAGCA
 GCTGGGGTCTTTACCAGGGACATTACAGAGGGCGCACAGGGTGGCGGTGAGCTGCAGGCCGGAACGTGCT
 ACATTAACAATAAACGTGAGCCCGTGGAGTTGCCCTTTGGTGGATACAAGAAGTCAAGATTTGGCAG
 AGAGAACGGCCGAGTGACGATTGAGTACTATTCACAGCTGAAGACGGTGTGTGGAGATGGGGGACGTG
 GAGTCGCCTTTTAAAACAG

ACCGGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208893 representing NM_022273
 Red=Cloning site Green=Tags(s)

MSTGTFVVSQPLNYRGGARVEPVDASGTEKAFEPATGREIATFKCSGEKEVNLAVENAKAAFKIWSKKS
 LERCQVLLAARIKERRDEIAIMETINNGKSIFEARLDVDTSWQCLEYYAGLAASMAGEHIQLPGGSGF
 YTRREPLGVCLGIGAWNYPFQIACWKSAPALACGNAMIFKPSPTPVSALLLAEIYTKAGAPNGLFNVVQ
 GGAATGQFLCQHRDVAKVSFTGVSPTGMKIMEMAAGKIKPITLLELGGKSPLIIFSDCNMKNNAVKGALLAN
 FLTQGVCCNGTRVVFVQKEIADAFTEVVRQTQRIKIGDPLLEDTRMGPLINAPHLERVLGFVRSKEQG
 ATVLCGGEPYAPEDPKLKHGYMTPCILNCTDDMTCVKEEIFGPVMSILTFETEAEVLERANDTTFGLA
 AGVFRDIIQRAHRVAAELQAGTCYINNYVSPVELPFGGYKKSFGRENGRVTIEYYSQKTVCEVMDV
 ESPFENQ

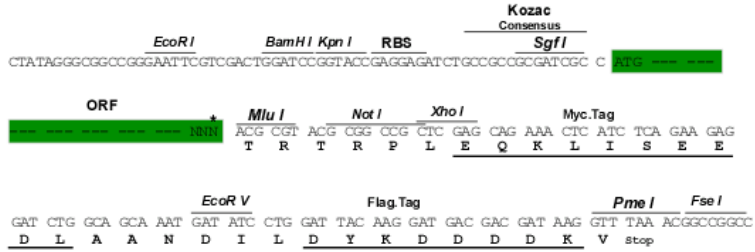
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

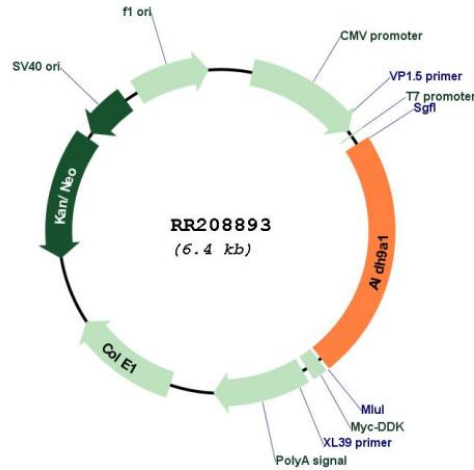
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_022273

ORF Size: 1491 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

MW: 54.1 kDa

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