

## Product datasheet for **MR207926**

### **Aldh9a1 (NM\_019993) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aldh9a1 (NM_019993) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh9a1
Synonyms:	AA139417; Abaldh; ESTM40; TMABA-DH; Tmabadh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207926 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTACTGGCACCTTCGTCGTGTCGAGCCGCTCAACTACCGCGCGGGGCCCGTGTGGAGCCGGTGG  
 ATGCTTCCGGCACGGAGAAAGCGTTCGAGCCAGCCACCGCCGAGTGATTGCCACTTTCGGTGTTCAGG  
 AGAAAAGGAAGTAAACTTGGCCGTTGAGAATGCAAAGGCTGCCTTTAAACTCTGGAGTAAGAAAAGTGGC  
 CTGGAGCGCTGCCAAGTCTCTAGAGGCTGCCGGATCATCAAGGAGCGGAAGGATGAAATTGCCACCG  
 TGGAGACCATCAACAACGGGAAGTCCATATTTGAGGCCCGCTGGATGTTGACACTTGTGGCAGTGCCT  
 GGAATACTATGCAGGGCTGGCTGCATCCATGGCAGGCGAGCACATTGAGTCCCAGGAGGGTCTTCGGC  
 TACACCGAAGAGAGCCGCTTGGGGTGTGTGTGGGGATAGGAGCATGGAATATCCCTTCAGATCGCCT  
 GTTGGAAGTCTGCTCCGGCTCTGGCTTGTGTAATGCCATGATCTTAAGCCTTCTCCCTCACGCCTGT  
 GTCTGCTCTGCTCTGGCTGAGATCTACACAAAGCGGGTGCCTCCGGGGCTTCAAGTGGTGCAA  
 GGTGGGGCTGCCACAGGCCAGTTTCTGTGTCATCATCGCGAGGTGGCCAAAATCTCTTCACCGGAAGT  
 TGCCCACTGGCGTGAAGATCATGGAGATGTCCGCTAAGGGAGTCAAGCCATTACTTTGGAAGTGGGGG  
 CAAATCTCCTCTCATCATCTTCTCAGACTGTAATATGGAGAATGCTGTGAAGGGGGCCCTGATGGCAAC  
 TTCCTCACACAAGGACAGGTCTGCTGCAATGGGACTAGAGTCTTTGTGCAAAAAGGAAATTGCTGATAAT  
 TCATAAATGAGGTTGTGAAGCAGACTCAGAAGATAAACTTGGAGACCCCTTCTGGAAGATACGAGGAT  
 GGGCCCACTCATCAACGCCCCACATCTGGAACGAGTCTCGGGTTGTCAAGTTGGCAAAGGAGCAGGGT  
 GCTACTGTGCTGTGTGGTGGAGAGGTGTATGTACCAGAGGACCCCAAATTAACATGGATATTACATGA  
 CACCTTGCAATTTAACTAATTGCAGAGACGACATGACTGTGTAAGAAGAGATCTTTGGACAGTCAT  
 GTCCATTTTAACATTTGGAAGTGAAGCCGAGTTCTAGAGCGAGCTAATGACACCACTTTTGGACTAGCA  
 GCTGGGGTCTTACCAGGGACATCCAGAGGGCACACCGGGTGGCGGTGAGCTGCAGGCTGGAACGTGCT  
 ACATTAACAATAAATGTGAGCCAGTGGAGCTGCCCTTTGGTGGCTACAAGAAGTCAAGATTTGGCAG  
 AGAGAATGGCCGTGTGACGATTGAGTACTCTCAGCTGAAGACGGTGTGTGTGGAGATGGGCGACGTG  
 GAGTCAGCCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207926 protein sequence  
 Red=Cloning site Green=Tags(s)

MSTGTFVVSQPLNRYGGARVEPVDASGTEKAFEPATGRVIATFACSGEKEVNLAVENAKAAFKLWSKKS  
 LERCQVLLAARI IKERKDEIATVETINNGKSIFEARLDVDTWCQCLEYYAGLAASMAGEHIQLPGGSFG  
 YTRREPLGVCVIGAWNYPFQIACWKSAPALACGNAMIFKPSPTFPVSALLLAEIYTKAGAPPGLFNVVQ  
 GGAATGQFLCHHREVAKISFTGSVPTGVKIMEMSAKGVKIPITLLELGGKSPLIIFSDCNMENAVKALMAN  
 FLTQGVCCNGTRVVFVQKEIADKFINVVKQTQKIKLGDPLEDTRMGPLINAPHLERVLGFVLAKEQG  
 ATVLCGGEVVYPEDPKLKHGYMTPCILTNCRDDMTCVKEEIFGPVMSILTFGTEAEVLERANDTTFGLA  
 AGVFTRDIQRAHRVAAELQAGTCYINNYVSPVELPFGGYKKSFGRENGRVTIEYYSQKTVCEVMDV  
 ESAF

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_019993

**ORF Size:** 1482 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_019993.2](#)

**RefSeq Size:** 2834 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 56752

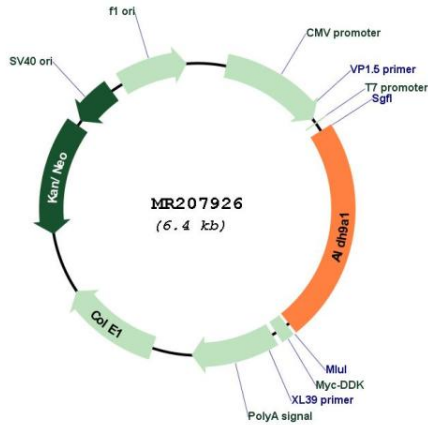
UniProt ID: [Q9JLJ2](#)

Cytogenetics: 1 H2.3

MW: 53.5 kDa

Gene Summary: Converts gamma-trimethylaminobutyraldehyde into gamma-butyrobetaine with high efficiency (in vitro). Can catalyze the irreversible oxidation of a broad range of aldehydes to the corresponding acids in an NAD-dependent reaction, but with low efficiency. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207926