

Product datasheet for **MR220608**

Aldh18a1 (NM_019698) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh18a1 (NM_019698) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh18a1
Synonyms:	2810433K04Rik; AI429789; Pycs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR220608 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGACACATGCACCGCTCTGGGGTCCAGCCCTTCAGGCAACGTCTTCTACCATGGGTCCAGTCCA
 TAGCTGTGCCAGATCAAATCGTGTCCAGCCCTCAGCTATTAGACATGTTGTTCTTGGAGCAACATCCC
 CTTTATCACGGTACCCCTCAGTCGTGCCACGGCAAGCCCTTTGCCACCGAAGTGAGCTGAAGCACGCC
 AAGAGAATTGTAGTAACTCGGCAGTGGCGTGGTGACCAGAGGAGATGAGTGTGGCCTGGCACTGGGAC
 GCCTGGCATCTATTGTTGAACAGGTCTCGGTGCTGCAGAATCAGGGCCGAGAGATGATGCTGGTACCAG
 TGGAGCCGTCGCCTTCGGCAAACAGCGCTGCGCCATGAGATCCTTCTGTCTCAGAGCGTGGGCAAGCC
 CTGCACTCAGGACAGAACCATCTGAAGGAGATGGCAATCCGGTCTTAGAGGCCGAGCCTGTGCAGCTG
 CTGGACAGAGTGGACTGATGGCCTGTACGAGGCCATGTTTACACAGTACAGCATCTGTGCTGCCAGAT
 CTTGGTGACCAACCTGGATTTCCACGACGAGCAGAAGCGCAGAAATCTCAACGGTACCCTCCACGAGCTG
 CTCGCGATGAACATCGTCCCATCGTCAACACAAACGATGCCGTGTCCTCCAGCCGAGCCCAACAGTG
 ATCTTCAGGGGGTAAATGTGATTAGTGTTAAGGATAATGATAGCCTGGCTGCCCGCTGGCCGTGGAGAT
 GAAAACCGACCTCTTGATTGTCCTCTCGGAGCTAGAAGGCCTCTTTGACAGCCCCCAGGCTCAGATGAT
 GCAAAGCTCATTGATATATTCTATCCGGGAGATCAGCAGTCTGTGACATTTGGAACCAAGTCTAGAGTGG
 GCCTAGGGGGCATGGAAGCCAAGGTGAAAGCCGCCCTCTGGGCTTTGCAAGGCGGGACTTCTGTGTCAT
 TGCCAACGGGACCCCAAAGGTGTCTGGGCAGTCAACACAGACATCGTGGAGGAAAGAAAGTTGGC
 ACCTTCTTTTCAAGTGAAGCCTGCTGGTCTACAGTGGAGCAGCAGGGGGAGATGGCTCGATCTGGTG
 GGAGAATGCTGGCTACCTTAGAGCCTGAACAGAGAGCTGAAATTATCAATCATCTGGCTGACCTGTGAC
 GGACCAGCGGGAAGAGATCCTGTTAGCCAACAAAAAGATTTGGAGGAGGCAGAGGGAAGACTTGCCAGC
 CCCTGCTGAAGCGCCTTAGCCTCTCCACGTCCAACTGAACAGCCTGGCCATCGGGCTGCGGCAGATCG
 CAGCCTCCTCACAAGAGAGCGTAGGCCGCTCCTGCGCCGACTCGGATTGCCAAAACTGGAGTTAGA
 ACAAGTACTGTCCCAATAGGTGTTTTACTGGTATCTTTGAGTCTCGCCCTGACTGTCTACCCAGGTG
 GCAGCCTTGCTATTGCCAGTGGCAATGGCTTGTGCTCAAAGGTGGGAAGGAGGCCGCACACAGCAACC
 GCATTCTCACCTCCTGACCCAGGAGGCCCTCCTCATCCACGGAGTCAAGGAGGCCATACAGCTGGTAAA
 CACCAGAGAAGAAGTTGAGGATCTTGCCGCTTGACAAAATAATAGATCTGATCATTCCCCGAGGCTCC
 TCCAGCTGGTCCAGAGACATCCAGAAAGCTGCCAAAGGGATCCCAGTATGGGCCACAGCGAAGGCATCT
 GCCACATGTACGTGGATTCCGAAGCCAGCGTGGACAAGGTCAACCGACTCGTCAGAGACTCTAAATGTGA
 ATACCCAGCCGCCTGTAATGCCCTGGAGACGTTGCTTATCCACCGAGATCTGCTGAGAACACCCCTATTT
 GACCAGATCATTGACATGCTCCGAGTGGAAACAGGTAAAAATTACGCAGGCCCAAGTTTGCCTCCTACC
 TGACCTTCAGCCCTCAGAAGTGAAGTCACTCCGGACGGAGTACGGGGACCTGGAAGTGTGATTGAAGT
 GGTGGACAGCGTCCAGGAAGCCATTGATCACATCCATAAGTACGGCAGCTCTCACACAGATGTCATCGTC
 ACAGAGAACGAGAAAACAGCGGAGTTCTTCTCCAGCACGTGGACAGCGCCTGTGCTTCTGGAACGCCA
 GTACTCGTCTCTGATGGTTACCGCTTTGGACTGGGAGCTGAAGTTGGAATCAGCACATCTCGAATCCA
 CGCCCCGGGACCAGTAGGACTTGAGGGATTGCTAACTACAAAGTGGTTGCTTCGAGGGCAAGACCAGTG
 GTCTCGGACTTCTCCGAGCATGGAAGCCTCAAGTATCTTCACGAGAATCTCCCTGTTCCCCAGAGAAATT
 TCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220608 protein sequence
 Red=Cloning site Green=Tags(s)

MLRHMHRSGVQPFQRLLPWVQSIAPRNSNRVQPSAIRHVRSWSNIPFITVPLSRAHGKPFahrSELKHA
 KRIVVKLGSAVVTRGDEGLALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQA
 LHSGQNHLKEMAIPLVLEARACAAAGQSGLMALYAMFTQYSICAAQILVTNLDFHDEQKRRNLNGTLHEL
 LRMNIVPIVNTNDVAVPPAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDD
 AKLIDIFYPGDQQSVTFGTKSRVGLGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVITDIVEGKKVG
 TFFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEIIINHLADLLTDQREEILLANKKDLEEAEGRLAS
 PLLKRLSLSTSKLNSLAIGLRQIAASSQESVGRVLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQV
 AALAIASGNGLLLKGGKEAAHSNRILHLLTQEALSIHGVEAIQLVNTREEVEDLCRLDKIIDLIIPRGS
 SQLVRDIQKAAGIPVMGHSEGIChMYVDSEASVDKVTRLVRDSKCEYPAACNALETLIIHRDLLRTPLF
 DQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSRLRTEYGDLEVCIEVVDSVQEAIDHIIHKYGSSTHDVIV
 TENEKTAEFFLQHVDSACVFNASTRFSDGYRFLGAEVGISTSRIHARGPVGLEGLLTTKWLRLRGQDHV
 VSDFSEHGSLKYLHENLPVQRNFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_019698

ORF Size: 2385 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_019698.2](#), [NP_062672.2](#)

RefSeq Size: 3544 bp

RefSeq ORF: 2388 bp

Locus ID: 56454

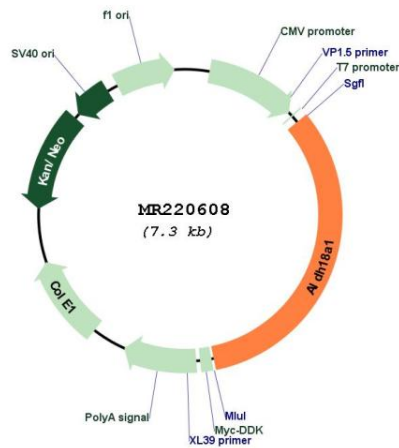
UniProt ID: [Q9Z110](#)

Cytogenetics: 19 C3

MW: 87.3 kDa

Gene Summary: Bifunctional enzyme that converts glutamate to glutamate 5-semialdehyde, an intermediate in the biosynthesis of proline, ornithine and arginine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220608