

Product datasheet for **MR207802**

Aldh8a1 (NM_178713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh8a1 (NM_178713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh8a1
Synonyms:	Raldh4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207802 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**

ATGGCTGGAAAAAGGAACTTTTGTATGTTGGAGAAGTTTATAGGTGGGAAGTTTTTACCCTGTAACATCATATAGATTCTTACGATCCATCAACAGGGGAAGTTTATTGCAAAGTTCCAACAGTGGGAAAGAAGAGATGAAGCTGCCGTGGAGGCTGCCAGAGAGCCTTCCTGCCTGGTATCCCGGAGTCCCAGGAACGTTCTCTCGTCTGAACAGGCTGGCTGATGTAAGTGGAGCAGTCTCTGGAGGAGTTAGCTCAGGCAGAATCTAAAGACCAAGGGAAAACCCCTCACGCTGGCAAGGACCATGGACATTCTCGGTCTGTTCTGAACTCCGGTTCTTCGTTCTCCAACCTGCACCACGTATCGGAGTGCACACAGATGAGCCACCTGGGCTGTATGCATTACACCGTTCCGACCCCGTGGGAATTGCTGGTTTGTATCAGCCCTTGGAAATTTACCACTCTACCTGCTGACCTGGAAGATAGCTCCGGCCATCGCTGCTGGGAATACCGTATAGCCAAGCCAGTGAAGTACTTCTGTGACTGCTGGATGTTTTGTAACCTTTGGATAAAGCAGGTGCCACCAGGTGTGATCAACATTGTGTTTGAACA

GGGCCGAGGGTTGGTGAAGCCCTTGTGTCTCACCCGAGGTACCTTGATCTCGTCACTGGGAGCCAGCCACAGCTGAACGGATTACCCAGCTCAGTGCCCCCACTGCAAGAAGCTTCCCTGGAGCTGGGAGGCAAGAATCCTGCTATCATCTTTGAGGATGCCAACCTGGAGGAGTGTATCCCGCAACCGTTAGGTCCAGCTTTCCTAACAGGGGGAGATCGCTTTGTACCAGTAGAATCTTTGTCCAGAGAAGCATCTACAGTGAATTTCTGAAGAGTGTGGAAGCTACCAGAAAGTGGAAAGTTGGTGTTCCTTCTGACCCATCAGCCAACATGGGTGCTCTGATAAGCAAAGCACATTTGGAGAAAGTGAAGTATGTCTTGAAGCTCAGACTGAGGGTGCCCGGATTCTGTGGTGAAGGTTGGACCAGCTGAGCCTTCCACTCAGGAACCAGGCAGGCTACTTTCATGCTTCCCAGGTGATAACAGACATTAAGGATGAGTCCCGTGCATGACGGAAGAGATCTTTGGTCCAGTGTGTTGTTCCGTTTGGATAGTGAAGAGGAGTATTACGAGAGCTAACAGTGTAGATACGGGCTGGCAGCCACAGTGTGGTCCAAGGATGTGGGGCCATCCACAGGGTAGCTAAGAAGCTTCACTCGGGCTGGTCTGGACCAACTGCTGGCTCATCAGGGAGCTGAACCTGCCCTTTGGAGGGATGAAGAGCTCTGGAATAGGAAGAGAAGGAGCCAAGGACTCATATGACTTCTTTACTGAAATAAAAACCATTACCATTAATAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207802 protein sequence
 Red=Cloning site Green=Tags(s)

MAGKRELLMLENFIGGKFLPCNSYIDSYPSTGEVYCKVPNSGKEEIEAAVEAAREAFPWSSRSPQRS LVLNRLADVLEQSLEELAQAESKDQKTLTLARTMDIPRSVLNFRFFASSNLHHVSECTQMSHLGCMHYT VRTPVGIAGLISPWNPLPLYLLTWKIAPAIAGNTVIAKPEMSTSVTAWMFCKLLDKAGVPPGVINIVFGT GPRVGEALVSHPEVPLISFTGSQPTAERITQLSAPHCKKLSLELGKNPAIIFEDANLEECIPATVRSSF ANQGEICLCTSRIFVQRSIYSEFLKRFVEATRKWKVGVPSPSANMGALISKAHLEKVRSYVLKAQTEGARILCGEGVDQLSLPLRNQAGYFMLPTVITDIKDESRMTEEIFGPVTCVVPFDSEEEVITRANSVRYGLA ATVWSKDVGRVAKKLQSGLVWNTNWLIRELNL PFGGMKSSGIGREGAKDSYDFFTEIKTITIKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_178713

ORF Size: 1461 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_178713.3](#)

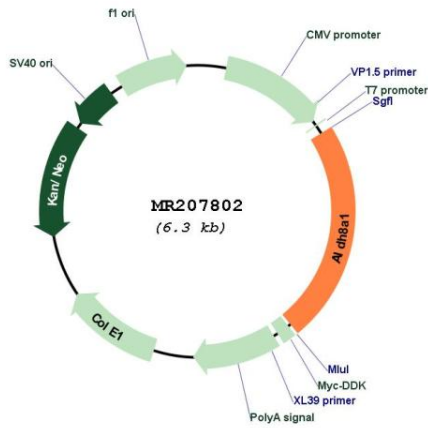
RefSeq Size: 2243 bp

RefSeq ORF: 1464 bp

Locus ID: 237320

UniProt ID: Q8BH00
 Cytogenetics: 10 A3
 MW: 53.7 kDa
 Gene Summary: Catalyzes the NAD-dependent oxidation of 2-aminomuconic semialdehyde of the kynurenine metabolic pathway in L-tryptophan degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207802