

Product datasheet for **MR208315**

Aldh2 (NM_009656) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh2 (NM_009656) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh2
Synonyms:	Ahd-5; AHD-M1; Ahd5; ALDH-E2; ALDHI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208315 representing NM_009656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCGCGCCGCACTCACCCTGTCCGCGCGGACCGCGCCTGAGCCGCTGTGTCCGCGCCGCCA
 CCAGCGCGGTGCCAGCCCCAACCATCAGCCTGAGGTCTTCTGCAACCAGATCTTCATTAACAATGAGTG
 GCACGACGCCGTAGCAGGAAAACATTTCCACCGTCAACCCCTCCACAGGGGAGGTCATCTGCCAGGTG
 GCCGAAGGGAACAAGGAGGACGTAGACAAGGCAGTGAAGGCTGCTCGTGCAGCCTTCCAGCTGGGCTCGC
 CCTGGCGCCGATGGATGCATCTGACCGGGGCCGGCTGTTGTACCGATTGGCGGATCTCATTGAACGGGA
 CCGGACCTACCTAGCGGCCTTGGAGACCCTGGACAACGGCAAGCCTTATGTCATCTCGTACCTGGTGGAT
 TTGGACATGGTCTGAAATGTCTCCGCTATTACGCTGGCTGGGCTGACAAGTACCATGGGAAAACATTCC
 CCATCGACGGCGACTTCTCAGCTATACCCGCCATGAGCCTGTGGCGTGTGTGGACAGATCATTCCGTG
 GAACTTCCGCTCCTGATGCAAGCATGGAACTGGGCCAGCCCTGGCAACCGGGAACGTGGTGGTGATG
 AAGGTGGCCGAGCAGACCCGCTCACCGCGCTCTACGTGGCAACTTGATCAAGGAGGCAGGCTTTCCCC
 CTGGCGTGGTCAATATCGTTCCCGGATTCGGCCCTACCGCCGGGGCTGCCATCGCATCCCATGAGGGTGT
 GGACAAAGTGGCGTTCACAGGCTCCACGGAGGTTGGTACCTAATCCAGGTGGCCGCCGGGAGCAGCAAC
 CTCAAGAGAGTAACCCTGGAGCTGGGGGAAAGAGTCCCAACATCATGTCCGACGCTGACATGGACT
 GGGCTGTGGAGCAGGCCACTTTGCCCTGTTCTTCAACCAGGGCCAGTGTCTGCGCAGGCTCCCGGAC
 CTTCTGTGACGAGAAATGTGTATGACGAATTCGTGGAACGACGCGTGGCTCGGGCAAGTCTCGGGTGGT
 GGAACCCCTTCGACAGCCGACGGAGCAGGGCCCTCAGGTGGATGAAACTCAGTTAAGAAGATCTCG
 GCTACATCAAATCGGGACAACAAGAAGGGGCGAAGCTGCTGTGTGGTGGGGCGCTGCCGCGGACCGTGG
 CTACTTTATCCAGCCCACCGTGTTCGGGGACGTAAAAGACGGCATGACCATTGCCAAGGAGGAGATCTTT
 GGACAGTGATGCAAATCCTCAAATTAAGACCATCGAGGAGGTTGTGGGCGGGCCAATGATTCTAAGT
 ATGGGCTGGCAGCCGCCCTTTCACAAAGGACCTGGATAAAGCCAATTACCTGTCCCAAGCTCTGCAGGC
 TGGCACTGTGTGGATCAACTGCTACGATGTGTTTGGGGCCAGTCTCCATTTGGGGGCTATAAGATGTCA
 GGGAGTGGCAGGGAGCTGGGCGAGTATGGCCTGCAGGCGTACACAGAAGTGAAGACGGTTACTGTCAAAG
 TGCCACAGAAGAACTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208315 representing NM_009656
 Red=Cloning site Green=Tags(s)

MLRAALTTVRRGPRLSRLLSAAATSAPVAPNHQPEVFCNQIFINNEWHDAVSRKTFPTVNPSTGEVICQV
 AEGNKEDVDKAVKAARAQFLGSPWRRMDASDRGRLLYRLADLIERDRTYLAALETLDNGKPYVISYLVD
 LDMVLKCLRYAGWADKYHGKTIPIIDGDFFSYTRHEPVGVCQIIPWNFPLLMQAWKLGALATGNVVMV
 KVAEQTPLTALYVANLIEAGFPPGVVNI VPGFGPTAGAAIASHEGVDKVAFTGSTEVEGHLIQVAAGSSN
 LKRVTLELGGKSPNIIMSDADMWAVEQAHLFFFNQGCCAGSRTFVQENVYDEFVRSVARAKSRV
 GNPFDSTRTEQGPQVDETQFKKILGYIKSGQEQEGAKLLCGGAAADRGYFIQPTVFGDVKDGMTIAKEEIF
 GPVMQILKFKTIEEVVGRANDSKYGLAAAVFTKDLDKANYLSQALQAGTVWVINCVDVFGAQSPFGGYKMS
 GSGRELGEYGLQAYTEVKTVTVKVPQKNS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9074_h08.zip

Restriction Sites:

SgfI-MluI

ORF Size:	1557 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_009656.4 , NP_033786.1
RefSeq Size:	3883 bp
RefSeq ORF:	1560 bp
Locus ID:	11669
MW:	56.5 kDa
Gene Summary:	Is capable of converting retinaldehyde to retinoic acid. [UniProtKB/Swiss-Prot Function]