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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
GCCGCGATCGCC

ATGCTGCGCGCCGCACTCACCACTGTCCGCCGCGGACCGCGCCTGAGCCGCCTGTTGTCCGCCGCCGCCA
CCAGCGCGGTGCCAGCCCCCAACCATCAGCCTGAGGTCTTCTGCAACCAGATCTTCATTAACAATGAGTG
GCACGACGCCGTCAGCAGGAAAACATTTCCCACCGTCAACCCTTCCACAGGGGAGGTCATCTGCCAGGTG
GCCGAAGGGAACAAGGAGGACGTAGACAAGGCAGTGAAGGCTGCTCGTGCAGCCTTCCAGCTGGGCTCGC
CCTGGCGCCGCATGGATGCATCTGACCGGGGCCGGCTGTTGTACCGATTGGCGGATCTCATTGAACGGGA
CCGGACCTACCTAGCGGCCTTGGAGACCCTGGACAACGGCAAGCCTTATGTCATCTCGTACCTGGTGGAT
TTGGACATGGTCCTGAAATGTCTCCGCTATTACGCTGGCTGGGCTGACAAGTACCATGGGAAAACCATTC
CCATCGACGGCGACTTCTTCAGCTATACCCGCCATGAGCCTGTGGGCGTGTGTGGACAGATCATTCCGTG
GAACTTCCCGCTCCTGATGCAAGCATGGAAACTGGGCCCAGCCCTGGCAACCGGGAACGTGGTGGTGATG
AAGGTGGCCGAGCAGACACCGCTCACCGCGCTCTACGTGGCCAACTTGATCAAGGAGGCAGGCTTTCCCC
CTGGCGTGGTCAATATCGTTCCCGGATTCGGCCCTACCGCCGGGGCTGCCATCGCATCCCATGAGGGTGT
GGACAAAGTGGCGTTCACAGGCTCCACGGAGGTTGGTCACCTAATCCAGGTGGCCGCCGGGAGCAGCAAC
CTCAAGAGAGTAACCCTGGAGCTGGGGGGAAAGAGTCCCAACATCATCATGTCCGACGCTGACATGGACT
GGGCTGTGGAGCAGGCCCACTTTGCCCTGTTCTTCAACCAGGGCCAGTGCTGCTGCGCAGGCTCCCGGAC
CTTCGTGCAGGAGAATGTGTATGACGAATTCGTGGAACGCAGCGTGGCTCGGGCCAAGTCTCGGGTGGTG
GGGAACCCCTTCGACAGCCGGACGGAGCAGGGGCCTCAGGTGGATGAAACTCAGTTTAAGAAGATCCTCG
GCTACATCAAATCGGGACAACAAGAAGGGGCGAAGCTGCTGTGTGGTGGGGGCGCTGCCGCGGACCGTGG
CTACTTTATCCAGCCCACCGTGTTCGGGGACGTAAAAGACGGCATGACCATTGCCAAGGAGGAGATCTTT
GGACCAGTGATGCAAATCCTCAAATTCAAGACCATCGAGGAGGTTGTGGGGCGGGCCAATGATTCTAAGT
ATGGGCTGGCAGCCGCCGTCTTCACAAAGGACCTGGATAAAGCCAATTACCTGTCCCAAGCTCTGCAGGC
TGGCACTGTGTGGATCAACTGCTACGATGTGTTTGGGGCCCAGTCTCCATTTGGGGGCTATAAGATGTCA
GGGAGTGGCAGGGAGCTGGGCGAGTATGGCCTGCAGGCGTACACAGAAGTGAAGACGGTTACTGTCAAAG
TGCCACAGAAGAACTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

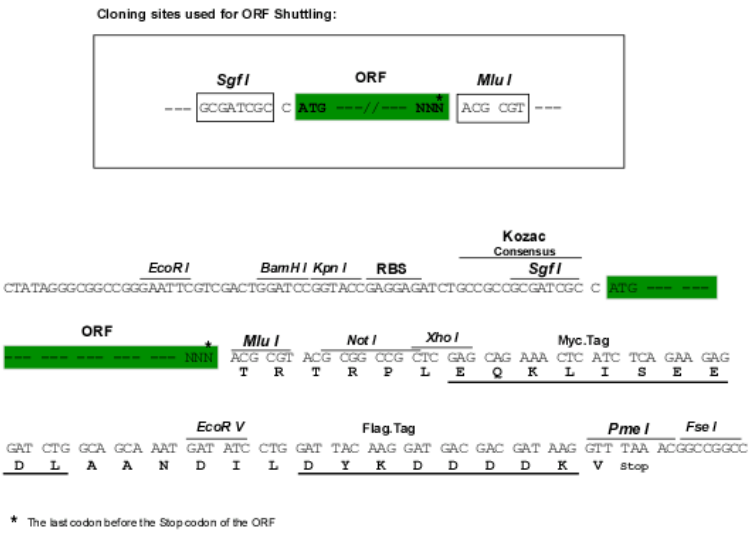
MLRAALTTVRRGPRLSRLLSAAATSAVPAPNHQPEVFCNQIFINNEWHDAVSRKTFPTVNPSTGEVICQV
AEGNKEDVDKAVKAARAAFQLGSPWRRMDASDRGRLLYRLADLIERDRTYLAALETLDNGKPYVISYLVD
LDMVLKCLRYYAGWADKYHGKTIPIDGDFFSYTRHEPVGVCGQIIPWNFPLLMQAWKLGPALATGNVVVM
KVAEQTPLTALYVANLIKEAGFPPGVVNIVPGFGPTAGAAIASHEGVDKVAFTGSTEVGHLIQVAAGSSN
LKRVTLELGGKSPNIIMSDADMDWAVEQAHFALFFNQGQCCCAGSRTFVQENVYDEFVERSVARAKSRVV
GNPFDSRTEQGPQVDETQFKKILGYIKSGQQEGAKLLCGGGAAADRGYFIQPTVFGDVKDGMTIAKEEIF
GPVMQILKFKTIEEVVGRANDSKYGLAAAVFTKDLDKANYLSQALQAGTVWINCYDVFGAQSPFGGYKMS
GSGRELGEYGLQAYTEVKTVTVKVPQKNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

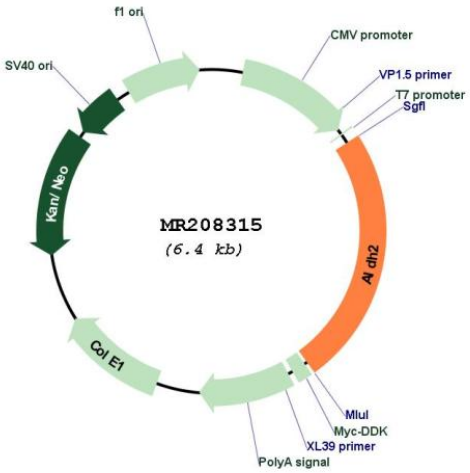
Chromatograms: https://cdn.origene.com/chromatograms/mm9074_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009656

ORF Size:	1557 bp
OTI Disclaimer:	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. 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_009656.4, NP_033786.1
RefSeq Size:	3883 bp
RefSeq ORF:	1560 bp
Locus ID:	11669
UniProt ID:	P47738
Cytogenetics:	5 F
MW:	56.5 kDa
Gene Summary:	Is capable of converting retinaldehyde to retinoic acid.[UniProtKB/Swiss-Prot Function]