

Product datasheet for **MC217258**

Aldh1a2 (NM_009022) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1a2 (NM_009022) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh1a2
Synonyms:	Aldh1a7; AV116159; Raldh1; Raldh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217258 representing NM_009022
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTTCCAGCGAGATCGCCATGCCGGGCGAGGTGAAGGCCGACCCCGCGCTCATGGCCTCGCTGC
AGCTCCTGCCGTCGCCACGCCAACCTCGAGATCAAGTACACCAAGATCTTTATTAACAATGAATGGCA
GAACTCAGAGAGTGGGAGAGTGTCCCTGTCTGTAATCCAGCCACAGGAGAGCAAGTGTGTGAAGTTCAA
GAAGCAGACAAGGTGGATATAGACAAGGCAGTGAAGCAGCCCGCCTTGCCCTTCTCTCTTGGTTCTGTGT
GGAGAAGGATGGATGCGTCTGAAAGAGGACGTCTGTTGGACAAGCTTGACAGACTTGGTGGAAACGGGACAG
GGCAACTCTTGCAACTATGGAATCCCTAAATGGCGGTAAGCCATTCCTGCAAGCTTTTTACATCGATTTG
CAGGGAGTCATCAAACCCTGAGGTATTATGCAGGCTGGGCTGATAAAATTCACGGAATGACCATTCTGT
TAGATGGAGACTATTTACTTTTACAAGACACGAGCCATTGGAGTGTGTGGACAGATCATCCCGTGGAA
CTTCCCTCTGCTGATGTTACCTGGAAAATTGCTCCCGCATTGTCTGTGTTAACACCGTGGTCATCAA
CCCGCTGAGCAGACCCGCTCAGTGCACGTATATGGGAGCCCTCATCAAGGAGGCTGGCTTCCACCCG
GAGTCGTCAATATCCTGCCAGGGTATGGGCCAACAGCAGGGGCAGCAATCGCTTCTCACATCGGCATAGA
CAAGATTGCATTCACAGGCTCTACTGAGGTTGGAAGCTTATTCAAGAAGCAGCTGGAAGAAGTAACCTG
AAGAGAGTGACCCCTGGAACCTCGGAGGGAAGAGCCCTAATATTATTTTGCAGATGCTGACTTGGACTACG
CTGTGGAGCAGGCTCACCAGGGTGTGTTCTTCAACCAAGGCCAGTGTGCACCCGAGGGTCTCGCATCTT
TGTGGAAGAATCCATCTATGAGGAATTTGTGAAAAGAAGTGTGAAAGGGCCAAGAGGCGCATTGTGGGG
AGCCCCTTTGATCCCAACTGAGCAGGGTCTCAGATCGATAAGAAACAATAACAACAAGTCTGGAGC
TTATCCAGAGCGGTGTGGCTGAGGGCGCCAAGCTGGAGTGGGAGGCAAGGGCTGGGAAGGAAGGGCTT
CTTCATTGAGCCACCGTGTCTCCAACGTCACGTGATGACATGCGGATTGCCAAGGAGGAGATCTTTGGT
CCTGTTCAAGAAATTTTGAAGTTTAAAGACTATGGATGAAGTTATAGAAAGAGCCAATAACTCAGACTTTG
GACTTGTAGCAGCTGTCTTCACTAATGACATCAACAAGGCTCTCATGGTATCCTCCGCAATGCAAGCTGG
GACAGTTTGGATCAATTGTTACAATGCCTTAAATGCGCAGAGCCCTTTGGGGGTTCAAGATGTCTGGA
AATGGGAGAGAAATGGGTGAGTTTGGCTTACGGGAGTATTCAGAAGTAAAGACCGTGACGGTGAAGATCC
CCCAGAAGAACTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3004_d02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009022

Insert Size: 1557 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_009022.4](#), [NP_033048.2](#)

RefSeq Size: 2264 bp

RefSeq ORF: 1557 bp

Locus ID: 19378

UniProt ID: [Q62148](#)

Cytogenetics: 9 39.85 cM

Gene Summary: Converts retinaldehyde to retinoic acid (PubMed:8797830). Recognizes as substrates free retinal and cellular retinol-binding protein-bound retinal (By similarity). Lacks activity with benzaldehyde, acetaldehyde and octanal (PubMed:8797830). Displays complete lack of activity with citral (By similarity).[UniProtKB/Swiss-Prot Function]