

Product datasheet for **MR208039**

Aldh1a1 (NM_013467) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1a1 (NM_013467) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh1a1
Synonyms:	Ahd-2; Ahd2; Aldh1; Aldh1a2; E1; Raldh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208039 representing NM_013467
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTTCGCCTGCACAACCTGCAGTCCCTGCCCACTGGCCGACTTGAAGATTCAACATACCAAGATCT
 TCATAAACAAATGAATGGACAATTCACTGAGCGCAAGAAATTTCCAGTTCTTAACCCTGCAACTGAGGA
 GGTCACTCGCCACGTGGAAGAAGGGGACAGGCTGATGTTGACAAAGCTGTGAAGCTGCAAGACAGGCT
 TTCCAGATTGGCTCTCCATGGCGCACCATGGATGCTTCAGAGAGGGGCCCTGTGAACAAGCTGGCTG
 ACTTAATGGAGAGAGATCGTCTGCTGCTAGCTACAATGGAGGCACTCAATGGTGGGAAAGCTTTGCCAA
 TGCATACTGTTCGGATTTAGGAGGCTGCATAAAAGCATTAAAGTACTGTGCAGGCTGGGCTGACAAGATT
 CATGGTCAAACAATACCAAGTATGGAGACATTTCACTTACAAGACGTGAACCTATTGGAGTGTGTG
 GCCAAATCATCCCCTGGAATTTCCAATGCTCATGTTCAATTTGGAAGATAGGCCCTGCCCTTAGCTGTGG
 GAATACCGTGGTTGTCAAGCCAGCAGAGCAAACCTCTCACGGCTCTTACCTGGCATCTTTAATAAAA
 GAGGCAGGGTTTCTCCTGGCGTGGTAAACATTGTCCTGGTTATGGGCCAACTGCAGGGGAGCCATCT
 CCTCTCATGGATGTCGACAAGGTGGCCTTCACTGGATCAACACAGGTTGGCAAGTTAATCAAGGAAGC
 TGCAGGAAAAGCAATCTGAAGAGAGTACCCTGGAGCTTGGGGAAAGAGCCCTTGCAATGTGTTTGCA
 GATGCCGACTTGGACATTGCTGTTGAGTTTGCACACCATGGAGTGTGTTTATCATCAAGGCCAATGCTGTG
 TCGCAGCATCCCGGATTTTGTGAGGAGTCACTTATGATGAGTTTGTGAAAAGGAGTGTGAGCGAGC
 TAAGAAATATGTTCTTGGAAATCCTCTGACCCAGGAATAATCAAGGCCCTCAGATTGACAAGGAACAA
 CATGATAAAATACTCGATCTCATTGAGAGTGGGAAGAAAGAGGCCAACTGGAGTGTGGTGGAGGAC
 GCTGGGGAACAAGGCTCTTTGTGACCCACAGTGTCTCCAACGTGACTGATGATGCGCATTGC
 CAAAGAGGAGATATTTGACCAAGTGAACAATCATGAAGTTTAAAGTCTGTAGATGATGTGATCAAGAGA
 GCAAACAATACTACCTATGGTTTAGCAGCAGGACTCTTCACTAAAGACCTGGATAAGGCCATCACTGTG
 CATCTGCTCTGCAGGCTGGGTTGGTGTGGGTTAACTGCTATATGATGTTGTGAGCCAGTCCCCCTCGG
 TGGATTCAAGATGTCTGGAATGGAAGAGAACTGGGTGAACATGGTCTTTATGAATACACTGAGCTCAAG
 ACAGTCGCAATGAAGATATCTCAGAAGAACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208039 representing NM_013467
 Red=Cloning site Green=Tags(s)

MSSPAQPAVPAPLADLKIQHTKIFINNEWHNSVSGKKFPVLPATEEVIHVVEEGDKADVDAKAVKAARQA
 FQIGSPWRTMDASERGRLLNKLADLMERDRLLLATMEALNGGKVFANAYLSDLGGCIKALKYCAGWADKI
 HGQTIPSDGDIIFTYTRREPIGVCGQIIPWNFPMLMFIWKIGPALSCGNTVVVKPAEQTPLTALHLASLIK
 EAGFPVGVNIVPGYGPTAGAAISSHMDVDKVAFTGSTQVVKL I KEAAGKSNLKRVTLELGGKSPCIVFA
 DADLDIAVEFAHHGVFYHQGCCVAASRIFVEESVYDEFVKRSVERAKKYVLGNPLTPGINQGPQIDKEQ
 HDKILDLESKKEGAKLECGGGRWGNKGFFVQPTVFSNVTDEMRIAKEEIFGPVQQIMKFKSVDDVIKR
 ANNTTYGLAAGLFTKDLDAITVSSALQAGVVVWNCYMLLSAQCPFGGFKMSGNGRELGEHGLYEYTELK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

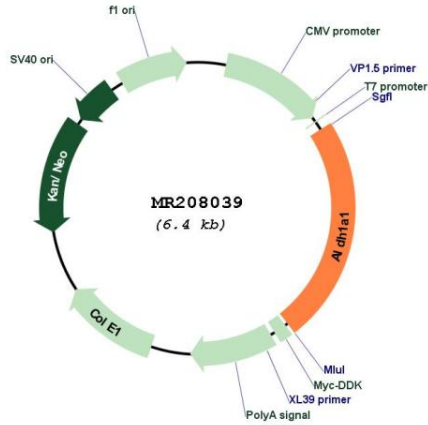
Restriction Sites:

Sgfl-MluI

MW: 54.9 kDa

Gene Summary: Can convert/oxidize retinaldehyde to retinoic acid. Binds free retinal and cellular retinol-binding protein-bound retinal (By similarity). May have a broader specificity and oxidize other aldehydes in vivo (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208039