

Product datasheet for **RR207142**

Aldh3a1 (NM_031972) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh3a1 (NM_031972) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh3a1
Synonyms:	Ahd-c; AHDC; Aldh; Aldh3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207142 representing NM_031972
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGTATCAGTGACACCGTGAAACGGGCCAGGGAGGCCTTAACTCCGGCAAGACTCGATCGCTGC
 AGTTCCGAATCCAGCAGTTGGAGGCGCTGCAGCGCATGATCAATGAGAACCTGAAAAGCATCTCTGGGGC
 GCTGGCCTCTGACCTGGCAAGAACAATGGACCTCCTACTATGAGGAAGTGCTCACGTAAGGAGGAG
 CTTGATACCACAATTAAGGAGCTCCCTGATTGGGCTGAGGATGAGCCTGTGGCCAAGACTCGCCAGACCC
 AGCAGGATGACCTCTACATCCACTCGGAGCCCTGGGTGTGGTCTTGTATAGGTGCTTGGAACTACCC
 CTTCAACCTCACCATCCAGCCATGGTGGGTGCCGTTGCTGCAGGAAACGCAGTGATCCTCAAGCCCTCA
 GAAGTGAGCGGGCACATGGCAGACCTGCTAGCGACTCATCCCTCAGTATATGGACCAGAATCTGTACC
 TAGTGGTCAAAGGGGGTGTCCCTGAAACCACGGAGCTGCTCAAAGAGAGGTTTGACCACATCATGTACAC
 TGGGAGCACAGCCGTAGGGAAGATTGTTATGGCCGCTGCCGCAAGCATCTGACTCCTGTACCCCTGGAG
 CTTGGAGGGAAAAGCCCTTGTACGTGGACAAGGACTGTGATCTAGATGTGGCTTGCAGGCGTATCGCCT
 GGGGAAAATTTATGAACAGTGGCCAGACCTGTGTGGCCCCAGACTACATCCTCTGTGACCCCTCGATTCA
 GAACCAAATCGTGGAGAAGCTCAAGAAGTCACTCAAAGATTTCTATGGGGAAGATGCTAAGCAGTCCCGT
 GATTATGGGAGGATCATCAATGACCGTCACTTCCAGCGGGTCAAAGGCCTGATTGACAACCAGAAAGTAG
 CCCATGGAGGCACTTGGGACCAGTCTCACGATACATAGCTCAAACCATCCTGGTGGATGTGGACCCCA
 GTCCCCAGTGTGCAGGAGGAGATCTTTGGCCCGGTGATGCCATTGTGTGTGTTCAAGCTTGGAGGAG
 GCCATTTCAATTTATCAACCAGCGTGAGAAGCCCTGGCACTCTATGTGTTCTCAAACAATGAGAAGGTGA
 TCAAGAAAATGATCGCAGAGACATCCAGCGGTGGAGTGACAGCCAATGACGTCATTGTTACATCACCGT
 GCCCACTTTGCCCTTGGTGTGGGGAACAGCGGCATGGGGGCTACCATGGCAAGAAAAGCTTCGAG
 ACCTTCTCCCACCGCGCTCTTGCTGGTGAAGTCTCTGTTGAATGAAGAAGCTCACAAGGCCAGGTATC
 CCCAAGCCAGCCAAGATGCCCCGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207142 representing NM_031972
 Red=Cloning site Green=Tags(s)

MSSISDVTVKRAREAFNSGKTRSLQFRIQQLEALQRMINENLKSISGALASDLGKNEWTSYEEVAHVLEE
 LDTTIKELPDWAEDEPVAKTRQTQQDDLVIHSEPLGVVLVIGAWNYPFNLTIQPMVGAVAAGNAVILKPS
 EVSGHMADLLATLIPQYMDQNLVYVVKGGVPETTELLKERFDHIMYTGSTAVGKIVMAAAAKHLTPVTE
 LGGKSPCYVDKDCDLVACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLLKSLKDFYGEDAKQSR
 DYGRIINDRHFQVRVGLIDNQKVAHGGTWDQSSRYIAPTILVDVDPQSPVMQEEIFGPVMPICVRSLEE
 AIQFINQREKPLALYVFSNNEKVIKKMIAETSSGGVTANDVIVHITVPTLPFGVGNSGMGAYHGKKSFE
 TFSHRRSCLVKSLLNEEAHKARYPPSPAKMPRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_031972.1](#), [NP_114178.1](#)

RefSeq Size: 1725 bp

RefSeq ORF: 1362 bp

Locus ID: 25375

UniProt ID: [P11883](#)

Cytogenetics: 10q22

MW: 50.3 kDa

Gene Summary: aldehyde dehydrogenase that is expressed during hepatocarcinogenesis [RGD, Feb 2006]