

Product datasheet for **RR216838**

Aldh5a1 (NM_022851) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh5a1 (NM_022851) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh5a1
Synonyms:	Ssadh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216838 representing NM_022851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGACCTGCTTTCTGCTGCGGAACTTCTGCGCCGCGCTCCGCGCTGCGGCCCTCCGGGCCGACTCC
 TCCGGGAGCCCGCAGGGGCCAGCGGCGCAGCTACGTCGCGGCCCGGCTGACCTCCACGCCGACTGCT
 CCGCGGGGACAGCTTTGTGGGCGCCGCTGGCTTCCAACCCCTGCCACCTTCCCTGTGTATGACCCGGCC
 AGCGGCGCAAGCTGGGCACCGTGGCCGACTGCGGGGTACCGGAGGCCGCGCTGCTGTGCGCGCCGCT
 ACGATGCCTTCAGCAGCTGAAAAGAGATCTCGGTCAAGGAGAGGAGCTCATTGCTCCGTAATGGTACGA
 CTTAATGATACAAAACAAGGACGAGCTTGCCAAGATCATAACAGCTGAGAGTGAAAGCCACTGAAAGAG
 GCCCAGGAGAGATCCTGTATTCAGCGTTTTCTGGAGTGGTTCTCAGAGGAAGCTCGCCGTGTTTATG
 GAGACATCATCTATACCTCTGCCAAAGATAAGCGAGGACTGGTCTCAAGCAGCCCGTTGGTGTGGCGTC
 CATCATCACACCGTGAATTTTCCAGTGCCATGATCACCGGAAAGTGGGGCTGCCCTGCCAGCTGGC
 TGCACTGTGGTGTAAAACCTGCTGAAGATACACCCTATTCTGCCCTGGCCCTGGCTCAGCTTGCAACC
 AGGCAGGAATCCCTCCAGGTGTCTATAATGTCATTCCCTGCTCTAGAACCAAGGCCAAGGAAGTGGGAGA
 GGTGCTGTGACTGATCCCTCGTGTCCAAAATCTCCTTACTGGCTCAACGGCAACGGGAAAGATCCTG
 CTGCATCATGCAGCAAATCTGTGAAGCGTGTCCATGGAGCTGGTGGCCCTCGCCCCATTATTGCT
 TTGACAGTGCCACGTGGACCAGGCTGTGCGAGGAGCAATGGCATCTAAATTTAGGAATGCTGGGCAGAC
 TTGCGTTTGCTCAAACAGATTCTTGGTACAACGGGATCCACGATTCCTTTGTAACGAAGTTTGACAA
 GCGATGAAGAAAAGCCTGCGTGTAGTAACGGATTTGAGGAAGGAACAACCAAGGGCCATTAATTAATG
 AGAAAGCTGTAGAAAAGGTAGAGAAGCATGTAATGACGCAGTTGCCAAAGGGGCCACGGTTGTGACAGG
 CCGGAAGCGACACCAGAGCGGAGGGAATTTCTCGAACCCACCCTGCTCAGCAACGTACCAGGGACATG
 CTCTGCATCACCGAGGAGACCTTTGGGCGCTGGCGCCAGTCATCAAGTTCGATAAAGAGGAAGAGGCTG
 TCGCCATCGCAAATGCAGCTGATGTTGGATTGGCAGGTTACTTTTACTCTCAAGACCCAGCCAGATCTG
 GAGAGTGGCGGAGCAGCTGGAGGTGGGCATGGTTGGCGTGAACGAAGGACTGATCTTTCAGTGGAGTGC
 CCTTTTGGTGGGGTGAACAGTCCGGCCTTGGGCGAGAAGGTTCCAAGTATGGCATTGACGAATATCTAG
 AGGTCAAATATGTGTATTATGGAGGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216838 representing NM_022851
 Red=Cloning site Green=Tags(s)

MATCFLLRNFAARPALRPPGRLLREPAGAQRSSVYVGGPADLHADLLRGDSFVGGRWLPTPATFPVYDPA
 SGAKLGTVADCGVPEARAAVRAAYDAFSSWKEISVKERSLLRKWYDLMIQNKDELAKIITAESGKPLKE
 AQGEILYSAFFLEWFSEEARRVYGDIIYTSAKDKRGLVLPVGVASIIITPWNFPSAMITRKVGAALAAG
 CTVVVKPAEDTPYSALALANQAGIPPGVYVNVIPCSRTKAKEVGEVLCTDPLVSKISFTGSTATGKIL
 LHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASKFRNAGQTCVCSNRFLVQRGIHDSFVTKFAE
 AMKKSRLRVNGFEEGTTQGPLINEKAVEKVEKHVNDVAVAKGATVVTGGKRHQSGGNFFPEPTLLSNVTRDM
 LCITEETFGLAPVIKFDKEEEAVAIANAADVGLAGYFYSDPAQIWRVAEQLEVGMVGVNEGLISSVEC
 PFGGVKQSGLGREGSKYGIIDEYLEVKYVCYGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_022851

ORF Size: 1569 bp

OTI Disclaimer: 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_022851.1](#), [NP_074042.1](#)

RefSeq Size: 5435 bp

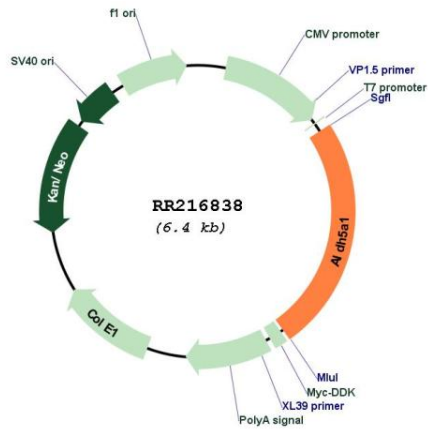
RefSeq ORF: 1572 bp

Locus ID: 291133

Cytogenetics: 17p11

MW: 56.1 kDa

Product images:



Circular map for RR216838