

Product datasheet for **RR216776**

Aldh8a1 (NM_001191088) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh8a1 (NM_001191088) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh8a1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR216776 representing NM_001191088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGAAAAAGGAACTTTTGTATGTTGGAGAAGTTTATAGGTGGAAAATTTTACCCTGTAACCTCGT
 ATATAGATTCTTATGATCCGTCGACAGGGGAAGTGTACTGCAAAGTACCAAACAGTGGGAAGGAGGAGAT
 CGAAGTTGCTGTGCAGGCTGCCAGAGAGCCTTCCCGCCTGGTCATCCCGGAGTCCCAGGAACGTTCT
 CTCATCTGAACAGGGTGGCTGATGTGCTGGAGCAGTCCCTGGAGGAGTTAGCCAGGCAGAATCTAAAG
 ACCAAGGGAAAACCTCACGCTGGCAAGGACCATGGACATTCTCGGTCTGCTGAACTCCGGTCTCT
 CGTCTCTCCATCCAGCACACGTATCGGATTGCACAGAGATGAGCCACCTGGGCTGTATGCACTACACC
 GTTCGTACCCCGTGGGAATTGCTGGTTTGTATCAGCCCTTGGAAATTTACCGCTCTACCTGTTGACTGGA
 AAATAGCTCCGGCATCGCTGCTGGGAATACCGTGATAGCCAAGCCAGCGAGCTGACTTCTGTACTGCTG
 TTGGATGTTTTGAAACTCTAGATAAAGCAGGTGTGCCACCAGGTGTGATCAATGTTGTGTTCCGAACA
 GGGCCGAGGGTTGGTGAAGCCCTCGTGTCCACCCAGAGGTCCCGTGATCTCTTACGGGGAGCCAGC
 CCACAGCTGAACGGATTACCCAGCTAAGTGCCCCCACTGCAAGAAGCTCTCCCTGGAGCTAGGAGGCAA
 GAACCCTGCCATCATTTTTGAGGATGCCAACCTGGAGGAGTGATCCCAGCAACCGTGAGATCCAGCTTC
 GCCAACAGGGGGAGATCGCTTTGTACCAGCAGGATCTTTGTCCAGAGGAGCATCTATAATGAATTTT
 TGAAGAGGTTTGTGAAGCTACCAGAAAGTGGAAAGTTGGCATTCTTCCGATCCATCAGCCAACATGGG
 TGCTTTAATAAGTAAAGCACATTTTGGAGAAAGTAAAAGTTATGTAAACAAAAGCTCATGCTGAGGGTGCC
 AAGATTCTGTGTGGTGAAGGCGTGACCAGCTGAGCCTTCCACTCAGGAACCAGGCAGGCTACTTCATGC
 TTCCCACAGTGATAACGGACATTAAGGATGAGTCTGCTGCATGACAGAAGAGATCTTTGGCCCCGTGAC
 GTGCGTCGTCCTTTTGATAGCGAAGAGGAAGTATTGCAAGAGCTAACGGCGTTAAGTATGGGCTGGGG
 GCCACAGTATGGTCAAAGGATGTGGGGCCATCCACAGGGTAGCTAAGAGGCTTCAGTCAGGGCTTGCT
 GGACCAACTGCTGGCTCATCAGGGAGCTGAACCTGCCCTTCGGAGGGATGAAAAGCTCTGGAATAGGAAG
 AGAGGGAGCCAAGGACTCATATGATTTCTTACTGAAATAAAAACCATCACCATTAATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216776 representing NM_001191088
 Red=Cloning site Green=Tags(s)

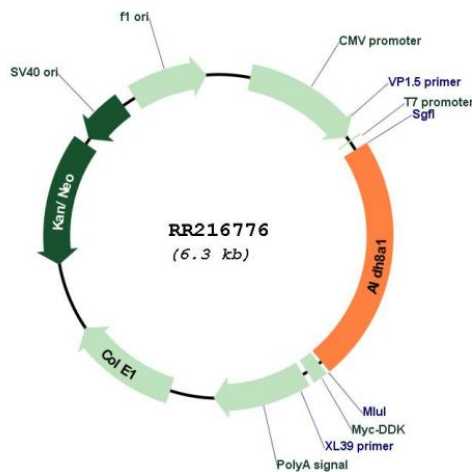
MAGKRELLMLENFIGGKFLPCNSYIDSYDPSTGEVYCKVPNSGKEEIEVAVQAAREAFPWSSRSPQERS
 LILNRVADVLEQSLEELAQAESKDQKTLTLARTMDIPRVLNFRFFASSIQHHVSDCTEMSHLGCMMHYT
 VRTPVGIAGLISPWNPLLYLLTWKIAPAIAGNTVIAKPSELTSVTAWMFCKLLDKAGVPPGVINNVFGT
 GPRVGEALVSHPEVPVISFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIIFEDANLEECIPATVRSSF
 ANQGEICLCTSRIFVQRSIYNEFLKRFVEATRKWKVGIPSDPSANMGALISKAHFGESKSYVTKAHAEGA
 KILCGEGVDQLSLPLRNQAGYFMLPTVITDIKDESCMTEEIFGPVTCVVPFDSEEEVIARANGVKYGLG
 ATVWSKDVGRVIAHRVAKRLQSGLVWVNCWLIRELNLPGGMKSSGIGREGAKDSYDFFTEIKTITIKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001191088

ORF Size: 1461 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_001191088.1](#), [NP_001178017.1](#)

RefSeq Size: 1499 bp

RefSeq ORF: 1464 bp

Locus ID: 685750

Cytogenetics: 1p12

MW: 53.4 kDa