

Product datasheet for **RR202321**

Aldh18a1 (NM_001108524) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh18a1 (NM_001108524) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh18a1
Synonyms:	Pycs
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR202321 representing NM_001108524
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGAGACATGTGCAACGCTCCGGGCTCCAGCCCTTCAGCCAACGTCTGCTACCGTGGGTCCAGTCCA
 TAGCTCTGCCAGATCTCATCGCGTCCAGCCTTCAGCTATTAGACATGTTGTTCCCTGGAGCAACATCCC
 CTTTATCACGGTACCCCTCAGTCGTGCTCATGGCAAGCCCTTTGCCACCGAAGCGAGCTGAAGCACGCC
 AAGAGAATTGTAGTGAACTCGGCAGTGGCGTGGTGACCAGAGGAGATGAGTGTGGCCTGGCACTGGGGC
 GCCTGGCGTCTATTGTGCAACAGGTCTCGGTGCTGCAGAATCAGGGCCGAGAGATGATGCTGGTACCAG
 TGGAGCGGTGCCTTCGGCAAGCAGCGCTGCGCCACGAGATCCTTCTGTCTCAGAGCGTGGCGAAGCC
 CTGCACTCAGGACAGAACCATCTGAAGGAGATGGCAATCCAGTCTTAGAGGCCCGAGCCTGCGCAGCCG
 CTGGACAGAGTGGGCTGATGGCCTGTACGAGGCCATGTTTACACAGTACAGCATCTGTGCTGCCAGAT
 TTTGGTGACCAACCTGGATTTCCACGACGAGCAGAAGCGCAGAAATCTCAACGGCACACTACACGAGCTG
 CTTCCGGATGAACATCGTCCCATTTGTCAACACCAACGACGCCGTTGTCCCCCGAGCTGAGCCCAACAGT
 ATCTTCAGGGGGTAAATGTGATTAGCGTTAAGGACAACGATAGCCTAGCTGCCCGTCTGGCCGTGGAGAT
 GAAAACCTGACCTCCTGATTGTCTCTCAGATGTGGAAGGCCTCTTTGACAGCCCCCAGGCTCAGATGAT
 GCAAAACTCATTGATATATTCTACCCGGGAGATCAGCAGTCTGTGACATTTGGAACCAAGTCTAGAGTGG
 GCCTAGGGGGCATGGAAGCCAAGGTGAAAGCCGCCCTCTGGGCTTTGCAAGGTGGCACTTCTGTCTCAT
 TGCCAACGGAACCCCAAGGTGTCTGGCAGTCAACACAGATCGTGGAGGGAAGAAAGTTGGC
 ACCTTCTTTTTCAGAAGTAAAGCCTGTGGCCCTACGGTGGAGCAGCAGGGGGAGATGGCTCGTCTGGAG
 GGAGAATGCTGGCCACCTTAGAGCCTGAACAGAGAGCTGAAATTATCAATCATCTGGCTGACCTGTGAC
 GGACCAGCGGGAAGAGATCCTGTTAGCCAAACAAAAAGACTTGGAGGAAGCAGAGGGAAGACTTGCAGGC
 CCCTGTGAAGCGTCTCAGCCTCTCCAGTCTAAACTGAACAGCCTGGCCATCGGGCTGCGGCAGATCG
 CAGCCTCCTCAGGAGAGCGTAGGCCGTGCTGCGCCGGACTCGGATTGCCAAAACTGGAGTTAGA
 ACAAGTACTGTCCCAATAGGTGTTTTACTGGTATCTTTGAGTCTGCTCCTGACTGTCTACCCAGGTG
 GCAGCCTTGCCATTGCGAGTGGCAACGGCTTGTGCTCAAAGGCGGGAAGGAGGCTATGCACAGCAACC
 GCATTCTCACCTCCTGACCCAGGAGGCCCTCCATCCATGGAGTCAAGGAGGCCATACAGCTGGTAAA
 CACCAGAGAAGAAGTGGAGGATCTGCGCCCTGGACAAAATAATTGACCTGATCATCCCTCGAGGCTCC
 TCCAGCTGGTCCAGAGATCCAGAAAGCTGCCAAGGGGATCCCAGTATGGGCCACAGCGAAGGGATCT
 GCCACATGTACGTGGATTCTGAAGCCAGTGTGGACAAGGTCAACCGACTTGTGAGAGACTCCAAATGTGA
 GTACCCAGCTGCCTGTAACGCCCTGGAGACTTTGCTCATCCACCGAGATCTGCTGAGAACACCCCTATTT
 GACCAGATCATTGACATGCTCAGAGTGGAAACAGGTAAAAATTACGCAGGCCCAAGTTTGCCTCCTACC
 TGACCTTCAGCCCTCAGAAGTGAAGTCACTCCGGACAGAGTACGGGGACCTGGAAGTGTGCATCGAAGT
 GGTGGACAGCGTCCAGGAAGCCATTGATCACATCCATAAGTACGGCAGCTCCACACAGATGTATCGTC
 ACCGAGAACGAGAAAACAGCCGAGTTCTTCTCCAGCATGTGGACAGTGCCTGCGTGTCTGGAACGCCA
 GTACCCGCTTCTCTGATGGCTACCGATTTGGACTGGGAGCTGAAGTAGGAATCAGTACATACGAATCCA
 TGCCCGGGGACCAGTAGGACTCGAGGGATTGCTAACTACTAAGTGGTTGCTTCGAGGGCAAGACCAGTGT
 GTCTCAGACTTTCAGAGCACGGAAGGCTAAAGTATCTTCACGAGAACCTCCCTGTTCCCGAGGGCATT
 TCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202321 representing NM_001108524
 Red=Cloning site Green=Tags(s)

MLRHVQRSGLQPFSQLLPWVQSIALPRSHRVQPSAIRHVRSWSNIPFITVPLSRAHGKPF AHRSELKHA
 KRIVVVLKGSVVTRGDECGALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQA
 LHSGQNHLKEMAIIPVLEARACAAAGQSGLMAL YEAMFTQYSICAAQILVTNLDHFDEQKRRNLNGLHEL
 LRMNIVPIVNTNDVAVPPAEPNSDLQGVNVISVKDNDLSAARLAVEMKTDLLIVLSDVEGLFDSPPGSD
 AKLIDIFYPGDQQSVTFGTSRVGLGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVIDIVEGKKVG
 TFFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEII NHLADLLTDQREEILLANKKDLEEAEGRLAG
 PLLKRLSLSTSKLNSLAIGLRQIAASSQESVGRVLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQV
 AALAIASGNGLLLKGGKEAMHSNRILHLLTQEALSIHGVEAIQLVNTREEVEDLCRLDKIIDLIIPRGS
 SQLVRDIQKAAGIPVMGHSEGI CHMYVDSEASVDKVTRLVRDSKCEYPAACNALETLLIHRDLLRPLF
 DQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSRLRTEYGDLEVCIEVVDSVQEAIDHIIHKYSSHTDVIV
 TENEKTAEFFLQHVDSACVFNASTRFSDGYRFLGAEVGI STSRIHARGPVGLELLTTKWLRLRGQDHV
 VSDFSEHGRLKYLHENLPV PQRHFS

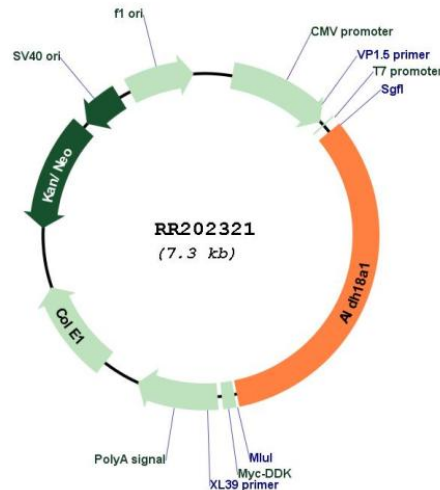
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001108524

ORF Size: 2385 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_001108524.1](#), [NP_001101994.1](#)

RefSeq Size: 3454 bp

RefSeq ORF: 2388 bp

Locus ID: 361755

Cytogenetics: 1q54

MW: 87.3 kDa