

## Product datasheet for **RR214002**

### **Aldh2 (NM\_032416) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aldh2 (NM_032416) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR214002 representing NM\_032416  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCGCGCCGACTCAGCACCGCCCGCTGGGCCACGCCTGAGCCGCTGTGTCCGCCGCCCA  
 CCAGCGCGGTGCCAGCCCCAACAGCAGCCCGAGGTCTTCTGCAACCAGATCTTCATTAACAATGAGTG  
 GCATGATGCTGTAGCAAGAAAACATTCACCACCGTCAACCCCTCCACGGGGGAGGTCATCTGCCAGGTA  
 GCCGAAGGGAACAAGGAGGACGTAGACAAGGCAGTGAAGGCCGCTCAGGCAGCCTTCAGCTGGGCTCGC  
 CCTGGCGCCGATGGATGCATCTGACAGGGGCCGCTGTTGTACCGATTGGCTGATCTCATCGAACGGGA  
 CCGGACCTACCTGGCGCCTTGGAGACCCTGGACAACGGCAAGCCTTATGTCATCTCCTACCTGGTGGAT  
 TTGGACATGGTTCTGAAATGTCTCCGCTATTATGCTGGCTGGGCTGACAAGTACCACGGGAAAACATTC  
 CCATCGATGGCGACTTCTCAGCTACACCCGCCACGAGCCTGTGGGCGTGTGTGGACAGATCATTCCGTG  
 GAACTTCCCGCTCCTGATGCAAGCCTGGAAGCTGGGCCCTGCCTTGGCAACTGGAACGTTGGTGGTATG  
 AAAGTGGCCGAGCAGACCCGCTCACTGCACTCTACGTGGCCAACCTTGATCAAGGAGGCAGGCTTCCCC  
 CTGGTGTGGTCAATATTGTTCTGGATTCCGCCCTACCGCCGGGGCTGCCATCGCGTCCCACGAGGATGT  
 GGACAAAGTGGCCTTACAGGTTCCACTGAGGTTGGTACCTAATCCAGGTTGCCGCCGGGAGCAGCAAT  
 CTCAAGAGAGTAACCCTGGAAGTGGGGGAAAGAGCCCCAATATCATCATGTGACAGCCTGACATGGACT  
 GGGCTGTGGAACAGGCCACTTTGCCCTGTTCTTCAACCAGGGCCAGTGTGTTGTGCGGGCTCCCGGAC  
 CTTGCGTGCAGGAGGATGTGATGATGAATTCGTGGAACGAGTGTGGCCCGGCAAGTCTCGGGTGGT  
 GGAACCCCTTCGACAGCCGACGGAGCAGGGGCCGAGGTGGATGAGACTCAGTTAAGAAGATCCTGG  
 GCTATATCAAGTCAGACAACAAGAAGGGGCGAAGCTGCTGTGCGGTGGGGCCGCCGCGCAGACCGTGG  
 TTACTTATCCAGCCACCGTGTTCGGAGACGTCAAAGATGGCATGACCATCGCCAAGGAGGAGATCTTC  
 GGACAGTGATGCAGATCCTCAAATTCAGACCATTGAGGAGGTTGTGGGCGAGCCAATATTCCAAGT  
 ACGGGCTGGTGCCGCTGTCTTCAAAAGGACCTGGACAAGGCAATTACCTGTCCCAAGCTCTGCAGGC  
 TGGGACTGTGTGGATCAACTGCTACGATGTGTTTGGGGCCAGTCCCATTTGGTGGCTATAAGATGTGC  
 GGGAGCGGCAGGAGCTGGGCGAGTATGGCCTGCAGGCCACACGGAAGTGAAGACGGTACCCTGCAAG  
 TGCCACAGAAGAAGTCTGCCACAGAAGAAGTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214002 representing NM\_032416  
 Red=Cloning site Green=Tags(s)

MLRAALSTARRGPRLSRLLSAAATSAVPAPNQPEVFCNQIFINNEWHDAVSKKTFPTVNPSTGEVICQV  
 AEGNKEDVDKAVKAAQAAFQLGSPWRRMDASDRGRLLYRLADLIERDRTYLAALETLDNGKPYVISYLV  
 LDMVLKCLRYAGWADKYHGKTIPIIDGDFFSYTRHEPVGCGQIIPWNFPLLMQAWKLGALATGNVVM  
 KVAEQTPLTALYVANLIKEAGFPFGVVNI VPGFGPTAGAAIASHEDVDKVAFTGSTEVEGHLIQVAAGSSN  
 LKRVTLLELGGKSPNIIMSDADMWAVEQAHFALFFNQGCCAGSRTFVQEDVYDEFVRSVARAKSRV  
 GNPFDSTRTEQGPVDETQFKILGYIKSGQEGAKLLCGGAAADRGYFIQPTVFGDVKDGMTIAKEEIF  
 GPVMQILKFKTIEEVVGRANNSKYGLAAAVFTKDLKANYLSQALQAGTVWVINCVDVFGAQSPPFGGKMS  
 GSGRELGEYGLQAYTEVKTVTVPKNSCHRRT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1687\\_f11.zip](https://cdn.origene.com/chromatograms/ja1687_f11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_032416

**ORF Size:** 1557 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 Size:** 1889 bp

**RefSeq ORF:** 1560 bp

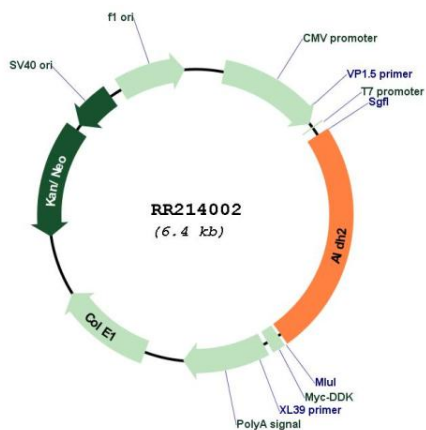
**Locus ID:** 29539

**UniProt ID:** [P11884](#)

**Cytogenetics:** 12q16

MW: 56.5 kDa

Product images:



Circular map for RR214002