

## Product datasheet for **RR211891**

### Aldob (NM\_012496) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aldob (NM_012496) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldob
Synonyms:	Aldo2; LIV10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211891 representing NM_012496 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTCACCGATTTCCAGCCCTCACCTCAGAGCAGAAGAAGGAGCTCTCCGAGATTGCCAGCGCATTG  
TTGCCAATGGGAAGGGTATCCTGGCTGCAGATGAGTCTGTGGCCACCATGGGAAACCGCCTACAGAGGAT  
AAAGGTGGAACACTGAAGAGAACCGAAGGCAGTTCGAGAGCTCCTTTAGTGTGGACAATTCTATC  
AGCCAGAGCATCGCGGAGTGATCCTTTCCATGAGACGCTCTACCAGAAGGACAGCCAGGAAAGCTGT  
TCAGAAACATTCTCAAGGAGAAGGGAATTGTGGTGGGCATCAAGCTGGACCAAGGAGGTGCCCCGCTTGC  
AGGAACAAACAAGAAACCACATTCAAGGGCTTGACGGCCTCTCCGAACGCTGTGCTCAGTACAAGAAA  
GACGGAGTCGACTTTGGGAAGTGGCGTGTGCTGAGGATCTCGGACCAGTGCCCTTCCAGCCTTGCTA  
TCCAAGAAAACGCCAACGCTCTGGCTCGCTACGCCAGCATCTGCCAGCAGAATGGGCTGGTACCTATTGT  
TGAGCCAGAGGTTCTTCTGATGGAGACCATGACCTAGAGCACTGCCAGTATGTTTCTGAGAAGGTCCTG  
GCTGCTGTCTACAAGGCTCTCAATGATCATCATGTTTACCTTGAGGGCACCTGCTAAAGCCAAACATGG  
TGACTGCTGGACATGCCGACCAAGAAGTACACACCTGAGCAAGTGGCTATGGCCACCGTCACGGCTCT  
CCACAGAAGTTCCTGCAGCTGTGCCTGGTATCTGCTTTTTGTCTGGAGGCATGAGTGAGGAGGATGCT  
ACACTTAACCTCAATGCTATCAACCGTTGCCCTTACCTAGGCCCTGGAAACTAAGCTTTTCATACGGCA  
GAGCCCTCCAGGCCAGTGCAATTGGCTGCCTGGGCGGCAAGGCTGCAAACAAGAAGGCAACCCAGGAAGC  
TTTCATGAAGCGGGCTGTGGCCAACTGCCAGGCAGCCCAAGGACAGTATGTTACACGGGCTCGTCAGGC  
GCTGCTTCCAGCAGTCACTCTTACAGCCTCTACACCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211891 representing NM\_012496  
 Red=Cloning site Green=Tags(s)

MAHRFPALTSEQKELSEIAQRIVANGKILAADSVGTMGNRLQRIKVENTEENRRQFRELLFSDNSI  
 SQSIGGVILFHETLYQKDSQGLFRNILKEKGI VVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKK  
 DGVDGKWRAVLRISDQCPSSLAIQENANALARYASICQQNGLVPIVEPEVLPDGDHDLHCQYVSEKVL  
 AAVYKALNDHHVYLEGTLKPNMVTAGHACTKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDA  
 TNLNLAINRCPLPRPWKLSFSYGRALQASALAAWGGKAANKKATQEA FMKRAVANCQAAQGYVHTGSSG  
 AASTQSLFTASYTY

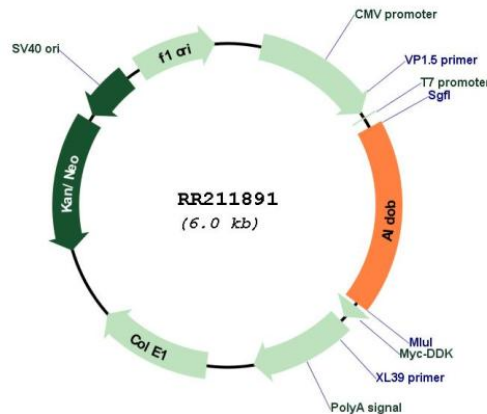
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012496

<b>ORF Size:</b>	1092 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012496.2</a> , <a href="#">NP_036628.2</a>
<b>RefSeq Size:</b>	1589 bp
<b>RefSeq ORF:</b>	1095 bp
<b>Locus ID:</b>	24190
<b>Cytogenetics:</b>	5q22
<b>MW:</b>	39.5 kDa
<b>Gene Summary:</b>	member of the aldolase enzyme family [RGD, Feb 2006]