

Product datasheet for MR219504

Aldoa (NM_001177307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldoa (NM_001177307) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldoa
Synonyms:	Aldo-1; Aldo1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219504 representing NM_001177307 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACGCGCAGGCCAGATGGGTCCAGCTTCAACATGACCCGCTGTCCCTGGCTCTGGCTTTTTCT
TCCCCCAGTTGCCAGTGAGCAACCCCACTCTGAGCTGGGCAACCCAGCAACAGACAGAGTTAGGAAA
GGAAAGCACTGCCACCGCACCATGCCCAACCATACCCAGCACTGACCCCGAGCAGAAGAAGGAGCTG
TCTGACATCGCTACCGCATTGTGGCTCCGGGCAAGGCATCCTGGCTGCAGATGAGTCCACCGGAAGCA
TTGCCAAGCGCCTGCAGTCCATTGGCACCGAGAACACCGAGGAGAACAGGCGCTTCTACCGCCAGCTGCT
GCTGACTGCAGACGACCGTGTGAATCCCTGCATTGGGGGGTGATCCTCTTCCACGAGACTGTACCAG
AAGGCAGATGATGGACGTCCCTTCCCCAAGTTATCAAGTCCAAGGGTGGTGTGGGCAATTAAGGTAG
ATAAGGGTGTGGTGCCCTGGCAGGAACCAATGGCGAGACAACACTACCCAGGGGCTGGATGGGCTGTCTGA
ACGCTGTGCCAGTATAAGAAGGATGGAGCCGACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAA
CATACTCCCTCGGCCCTGGCCATCATGGAAAATGCCAATGTTCTGGCCGTTATGCCAGCATCTGCCAGC
AGAATGGCATTGTACCCATTGTGGAGCCTGAAATTCTCCCTGATGGGGACCATGACTTGAAGCGTGCCA
GTATGTTACTGAGAAGGTCTGGCGCTGTCTACAAGGCTCTGAGCGACCACCATGTCTATCTGGAAGGC
ACATTGCTGAAGCCCAACATGGTCACCCCTGGCCATGCTTGACCCAGAAATTTCCAATGAGGAGATTG
CCATGGCAACGGTACAGCACTTCGTCGACAGTGCCCCCTGCTGTCACTGGGGTCACTTTCCTGTCTGG
AGGGCAGAGTGAGGAAGAGGCATCCATCAACCTCAATGCTATCAACAAGTGCCCCCTGCTGAAGCCATGG
GCCTTGACTTTCTCCTATGGTCGAGCCCTGCAGGCCTCTGCTCTAAAGGCTGGGGTGGGAAGAAGGAGA
ACCTGAAGGCAGCCAGGAGGAGTACATCAAGCGCCCTGGCCAACAGCCTCGTTGTCAAGGAAAGTA
TACCCCAAGTGGCCAGTCTGGAGCCGACGCAAGTCTCTCTCATCTCTAACCATGCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219504 representing NM_001177307
Red=Cloning site Green=Tags(s)

MATRRPDGSSFNMTRL SLALAFSFPVASEQPHSELGNTQQQTELGKESTATGTMPPHPALTPEQKKE
 SDIAHRIVAPGKILAADESTGSI AKRLQSIGTENTEENRRFYRQLLLTADDRVNPCIGGVILFHETLYQ
 KADDGRFPQVIKSKGGVVGIVKVDKGVVPLAGTNGETTTQGLDGLSERCAQYKKGADFAKWRCVLKIGE
 HTPSALAIMENANVLARYASICQQNGI VPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHVYLEG
 TLLKPNMVT PGHACTQKFSNEEIAMATVTALRRTVPPAVTGVTFLSGGQSEEEASINLNAINKCPLLKPW
 ALTFSYGRALQASALKAWGGKKNL KAAQEEYIKRALANSLACQKYTPSGQSGAAASESLFISNHAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1583_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001177307

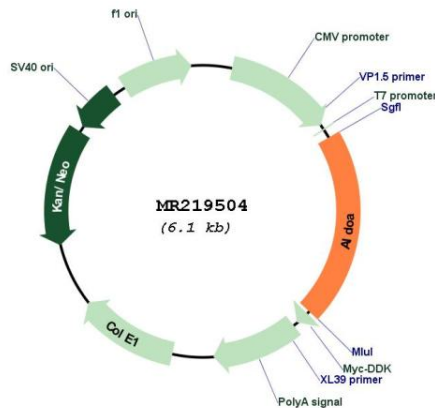
ORF Size: 1254 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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:	<u>NM_001177307.1, NP_001170778.1</u>
RefSeq Size:	1597 bp
RefSeq ORF:	1257 bp
Locus ID:	11674
Cytogenetics:	7 F3
MW:	45.6 kDa
Gene Summary:	Plays a key role in glycolysis and gluconeogenesis. In addition, may also function as scaffolding protein (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219504