

## Product datasheet for **MG219504**

### Aldoa (NM\_001177307) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aldoa (NM\_001177307) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aldoa  
**Synonyms:** Aldo-1; Aldo1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219504 representing NM\_001177307  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAACGCGCAGGCCAGATGGGTCCAGCTTCAACATGACCCGCTGTCCCTGGCTCTGGCTTTTTCT  
 TTCCCCAGTTGCCAGTGAGCAACCCCACTCTGAGCTGGGCAACCCAGCAACAGACAGAGTTAGGAAA  
 GGAAGCACTGCCACCGCACCATGCCCAACCATACCCAGCACTGACCCCGAGCAGAAGAAGGAGCTG  
 TCTGACATCGCTACCGCATTGTGGCTCCGGGCAAGGCATCCTGGCTGCAGATGAGTCCACCGGAAGCA  
 TTGCCAAGCGCCTGCAGTCCATTGGCACCGAGAACACCGAGGAGAACAGGCGCTTCTACCGCCAGCTGCT  
 GCTGACTGCAGACGACCGTGTGAATCCCTGCATTGGGGGGGTGATCCTCTTCCACGAGACTGTACCAG  
 AAGGCAGATGATGGACGTCCTTCCCCAAGTTATCAAGTCCAAGGGTGGTGTGTGGGCATTAAGGTAG  
 ATAAGGGTGTGGTGCCCTGGCAGGAACCAATGGCGAGACAACCTACCCAGGGGCTGGATGGGCTGTCTGA  
 ACGCTGTGCCAGTATAAGAAGGATGGAGCCGACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAA  
 CATACTCCCTCGGCCCTGGCCATCATGGAAAATGCCAATGTTCTGGCCGTTATGCCAGCATCTGCCAGC  
 AGAATGGCATTGTACCCATTGTGGAGCCTGAAATTCTCCCTGATGGGGACCATGACTTGAAGCGTGCCA  
 GTATGTTACTGAGAAGGTCTGGCGGCTGTCTACAAGGCTCTGAGCGACCACCATGTCTATCTGGAAGGC  
 ACATTGCTGAAGCCCAACATGGTCACCCCTGGCCATGCTTGACCCAGAAATTTCCAATGAGGAGATTG  
 CCATGGCAACGGTCACAGCACTTCGTGACAGAGTGGCCCTGCTGTCACTGGGGTCACTTTCCTGTCTGG  
 AGGGCAGAGTGAGGAAGAGGCATCCATCAACCTCAATGCTATCAACAAGTGCCCCCTGCTGAAGCCATGG  
 GCCTTGACTTTCTCCTATGGTCGAGCCCTGCAGGCCTCTGCTCTAAAGGCTGGGGTGGGAAGAAGGAGA  
 ACCTGAAGGCAGCCAGGAGGAGTACATCAAGCGCCCTGGCCAACAGCCTCGTTGTCAAGGAAAGTA  
 TACCCCAAGTGGCCAGTCTGGAGCCGACGCAATCTCTCTCATCTCTAACCATGCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219504 representing NM\_001177307  
 Red=Cloning site Green=Tags(s)

MATRRPDGSSFNMTRL SLALAFSFPVASEQPHSELGNTQQQTELKKESTATGTMPPYPALTPPEQKKE  
 SDIAHRIVAPGKILAADESTGSI AKRLQSIGTENTENRRFYRQLLLTADDRVNPCIGGVILFHETLYQ  
 KADDGRFPQVIKSKGGVVGIVDKGVVPLAGTNGETTTQGLDGLSERCAQYKKGADFAKWRVCVLKIGE  
 HTPSALAIMENANVLARYASICQQNGI VIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHVYLEG  
 TLLKPNMVT PGHACTQKFSNEEIAMATVTALRRTVPPAVTGVTF LSGGQSEEEASINLNAINKCPLLKPW  
 ALTFSYGRALQASALKAWGGKKNL KAAQEEYIKRALANSLACQKYTPSGQSGAAASESLFISNHAY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001177307

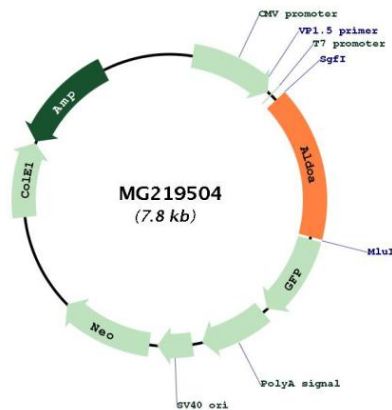
**ORF Size:** 1254 bp

**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](mailto: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.

<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>	<u>NM_001177307.1, NP_001170778.1</u>
<b>RefSeq Size:</b>	1597 bp
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	11674
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	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 MG219504