

Product datasheet for MR205592

Aldoa (NM_007438) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldoa (NM_007438) 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:	>MR205592 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCAACCCATACCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGTCTGACATCGCTCACCGCATTG
TGGCTCCGGGCAAGGGCATCCTGGCTGCAGATGAGTCCACCGAAGCATTGCCAAGCGCTGCAGTCCAT
TGGCACCAGAACACCGAGGAGAACAGGGCCTTACCAGCAGCTGCTGCTGACTGCAGACGACCGTGTG
AATCCCTGCATTGGGGGGTGATCCTCTCCACGAGACTGTACCAGAAGGCAGATGATGGACGTCCT
TCCCCAAGTTATCAAGTCCAAGGTGGTGTGTGGGCATTAAGGTAGATAAGGGTGTGGTCCCTGGC
AGGAACCAATGGCGAGACAACCTACCCAGGGCTGGATGGCTGTCTGAACGCTGTGCCAGTATAAGAAG
GATGGAGCCGACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAACATACTCCCTCGGCCCTGGCCA
TCATGGAAAATGCCAATGTTCTGGCCGTTATGCCAGCATCTGCCAGCAGAAATGGCATTGTACCCATTGT
GGAGCCTGAAATCTCCCTGATGGGGACCATGACTTGAAGCGCTGCCAGTATGTTACTGAGAAGTCCCTG
GCGGCTGTCTACAAGGCTCTGAGCGACCACCATGTCTATCTGGAAGGCACATTGCTGAAGCCCAACATGG
TCACCCCTGGCCATGCTTGACCCAGAAATTTCCAATGAGGAGATTGCCATGGCAACGGTCACAGCACT
TCGTCGCACAGTGCCCTGCTGCTCACTGGGGTCACTTTCCTGTCTGGAGGCAGAGTGAGGAAGAGGCA
TCCATCAACCTCAATGCTATCAACAAGTGCCCTGCTGAAGCCATGGGCCTTACTTCTCTATGGTC
GAGCCCTGCAGGCCTCTGCTCTAAAGGCTGGGGTGGGAAGAAGGAGAACCTGAAGGCAGCCAGGAGGA
GTACATCAAGCGCCCTGGCCAACAGCCTCGTTGTCAAGGAAAGTATACCCCAAGTGCCAGTCTGGA
GCCGAGCCAGTGAATCTCTTCTCATCTCTAACCATGCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205592 protein sequence
 Red=Cloning site Green=Tags(s)

MPHPYPALTPEQKKELSDIAHRIVAPGKGI LADESTGSI AKRLQSIGTENTEENRRFRYQLLLADDRV
 NPCIGGVILFHETLYQKADDGRFPFQVIKSKGGVVGIVDKGVVPLAGTNGETTTQGLDGLSERCAQYKK
 DGADFAKWRCVLKIGEHTPSALAIMENANV LARYASICQQNGI VIVEPEILPDGDHDLKRCQYVTEKVL
 AAVYKALSDHHVYLEGTL LKPNM VTPGHACTQKFSNEEIAMATV TALARRTVPPAVTGVTF LSGGQSEEEA
 SINLNAINKCPLLKPWALTF SYGRALQASAL KAWGGK KENL KAAQE EYIKRALANSLACQKGYTPSGQSG
 AAASESLFISNHAY

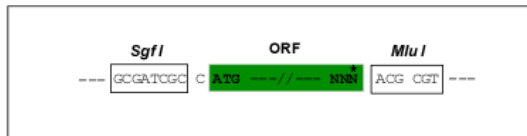
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007438

ORF Size: 1095 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_007438.4](#), [NP_031464.1](#)

RefSeq Size: 1520 bp

RefSeq ORF: 1095 bp

Locus ID: 11674

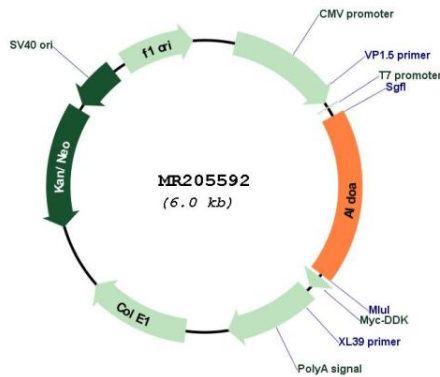
UniProt ID: [P05064](#)

Cytogenetics: 7 F3

MW: 39.4 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 MR205592