

Product datasheet for **MR229497**

Aldoc (NM_001303423) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldoc (NM_001303423) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldoc
Synonyms:	AI847350; AI; Aldo3; AU040929; Scr; Scrg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229497 representing NM_001303423 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCACTCATACCCAGCTCTTTCTGCTGAGCAGAAGAAGGAGTTGTCGGATATTGCTCTACGGATCG
TGGCCCCCGCAAGGCCATTCTGGCTGCAGATGAGTCCGTAGGCAGCATGGCCAAAAGGCTGAGCCAAAT
TGGGGTGGAGAACACTGAGGAGAATCGCCGGCTGTACCGCCAGGTCCTATTCAGTGTGATGACCGTGTG
AAAAAGTGCATTGGGGGGTTCATCTTCTCCATGAGACTCTACCAGAAAGATGACAATGGTGTCCCT
TCGTCCGACCATCCAGGATAAGGGCATTCTCGTAGGCATCAAGGTTGACAAGGGTGTAGTGCCTTAGC
TGGGACCGACGGGAAACCACCACTCAAGGGCTGGATGGGCTCTTGAACGCTGTGCTCAGTATAAGAAG
GACGGTGTGATTTTGCCAAATGGCGCTGTGACTAAAAATCAGTGATCGCACACCGTCGGCACTGGCCA
TATTGGAGAATGCCAACGTGCTGGCCCGCTATGCCAGCATCTGCCAGCAGAAATGGGATCGTGCTATTGT
GGAGCCTGAGATTCTGCCTGACGGAGACCATGACCTCAAACATTGCCAGTATGTTACAGAGAAGGTCCTG
GCTGCTGTATAACAAGCCCTGAGTGACCATCATGTATACCTCGAAGGGACTCTGCTCAAGCCCAACATGG
TGACCCCTGGCCATGCCTGTCCCATCAAGTATAGCCCAGAAGAGATTGCCATGGCAACTGTCACTGCCCT
GCGTCGTACTGTGCCCCAGCTGTCCCAGGGGTGACTTTCCTGTCTGGGGTCAAGTGAAGAGGAGGCT
TCTCTCAACCTCAATGCCATCAACCGCTGCCACTTCCCAGCCCTGGCCCTCACCTTCTCTATGGGC
GTGCCCTGCAGGCATCTGCACTCAATGCCTGGAGAGGACAAAGGATAATGCTGGGCTGCTACTGAGGA
GTTTATCAAGCGGCAGAGATGAACGGGCTTGACGCCAGGGCAGATATGAAGGCAGTGGAGATGGCGGA
GCAGCAGCACAGTCCCTCTACGTCGCCAACCATGCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229497 representing NM_001303423
 Red=Cloning site Green=Tags(s)

MPHSPALSAEQKKEKLSIALRIVAPGKILAADESVGSMKRLSQIGVENTEENRRLRYRQVLFSAADDRV
 KKCIGGVIFFHETLYQKDDNGVPFVRTIQDKGILVGIKVDKGVVPLAGTDGETTTQGLDGLLERCAQYKK
 DGADFAKWRCVLKISDRTPSALAIENANVLARYASICQQNGIIVIVEPEILPDGDHDLKHCQYVTEKVL
 AAVYKALSDHHVYLEGTLKPNMVTTPGHACPIKYSPEEIAMATVTALRRVPPAVPGVTFLSGGQSEEEA
 SLNLAINRCPLPRPWALTF SYGRALQASALNAWRGQRDNAGAATEEF IKRAEMGLAAQGRYEGSGDGG
 AAAQSLYVANHAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001303423

ORF Size: 1089 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_001303423.1](#), [NP_001290352.1](#)

RefSeq Size: 2681 bp

RefSeq ORF: 1092 bp

Locus ID: 11676

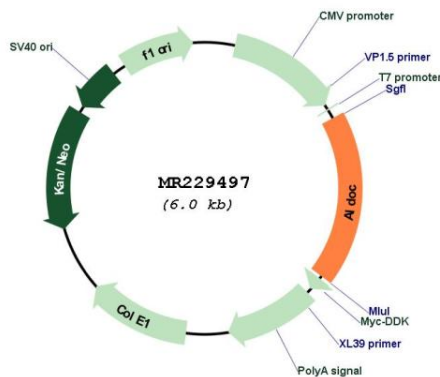
UniProt ID: [P05063](#)

Cytogenetics: 11 46.74 cM

MW: 39.3 kDa

Gene Summary: This gene encodes a member of the aldolase family of enzymes that is mainly expressed in neuronal tissues. The encoded protein is an enzyme of the glycolysis pathway, and catalyzes the conversion of fructose-1,6-bisphosphate to glyceraldehyde-3-phosphate and dihydroxyacetone phosphate. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for MR229497