

Product datasheet for **RR200828**

Aldoc (NM_012497) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldoc (NM_012497) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldoc
Synonyms:	ALDCAA; F16dip7; RATALDCAA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200828 representing NM_012497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCACTCATACCCAGCCCTTTCTGCTGAGCAGAAGAAGGAGTTGTCGGATATTGCTCTGAGGATTG
TGGCCCCAGGCAAGGCCATTCTGGCTGCAGATGAGTCCGTGGGCAGCATGGCCAAAAGGCTGAGCCAAAT
TGGGGTAGAGAACTGAGGAGAATCGCCGACTGTACCGCAGGTCTGTTCACTGCTGATGACCGTGTG
AAAAAGTGCATTGGGGGGTTCATCTTCTCCACGAGACTCTACCAGAAAGATGACAATGGTGTCCCT
TTGTCCGCACCATCCAGGAGAAGGCCATTCTCGTAGGCATCAAGGTTGACAAGGGTGTAGTGCCTTAGC
TGGGACTGATGGAGAAACCACCACTCAAGGGCTGGATGGACTCTTGAACGCTGTGCTCAGTATAAGAAG
GACGGTGTGATTTTGCCAAATGGCGCTGTGTGCTGAAAATCAGTGATCGCACACCCCTCGCACTGGCCA
TACTGGAGAATGCCAATGTGCTGGCCCGCTATGCCAGCATCTGCCAGCAGAAATGGTATCGTGCCATCGT
GGAGCCTGAGATCCTGCCTGATGGAGACCATGACCTCAAACGTTGCCAGTTTGTACAGAGAAGGTCCTG
GCTGCTGTGTACAAGGCCTTGAGTGATCATCACGTATACCTGGAAGGGACTCTCCTCAAGCCCAACATGG
TGACCCCTGGCCATGCCTGTCCCATCAAATATAGCCCAGAAGAGATCGCCATGGCAACTGTCACTGCCCT
GCGTCGAACTGTGCCCCAGCTGTCCCAGGGGTGACTTTCCTGTCTGGGGTCAAGTGAAGAGGAGGCA
TCACTCAACCTCAATGCCATCAACCGATGCTCACTTCCCAGCCCTGGCCCTCACCTTCTCTACGGAC
GTGCCCTGCAGGCATCTGCACTCAGTGCCTGGAGAGGACAAAGGATAATGCTGGGGCTGCTACTGAGGA
GTTTATCAAGCGGGCCGAGATGAACGGGCTTGAGCCAGGGCAAATATGAAGGCAGTGGAGATGGTGA
GCAGCAGCACAGTCCCTCTACGTGGCCAACCATGCCTACGCAGCAGCACAGTCCCTCTACGTGGCCAACC
ATGCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200828 representing NM_012497
Red=Cloning site Green=Tags(s)

MPHSPALSAEQKKEKSDIALRIVAPGKGI LADES VGSMAKRLSQIGVENTEENRRLYRQVLF SADDRV
 KKCIGGVIFFHETLYQKDDNGVPFVRTIQEKGILVGIKVDKGVVPLAGTDGETTTQGLDGLLERCAQYKK
 DGADFAKWRCVLKISDRTPSALAIENANV LARYASICQQNGI VIVEPEILPDGDHDLKRCQFVTEKVL
 AAVYKALSDHHVYLEGTL LKPNM VTPGHACPIKYSPEEIAMATV TALARRTVPPAVPGVTFLSGGQSEEEA
 SLNLNAINRCSLPRPWALTF SYGRALQASALSAWRGQRDNAGAATEEF IKRAEMNGLAAQKYEGSGDGG
 AAAQSLYVANHAYAAAQSLYVANHAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1615_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_012497

ORF Size: 1128 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq Size: 1581 bp

RefSeq ORF: 1092 bp

Locus ID: 24191

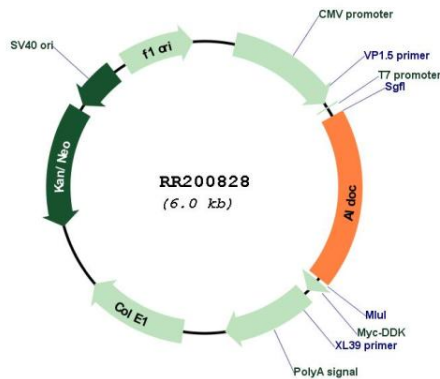
UniProt ID: [P09117](#)

Cytogenetics: 10q25

MW: 39.3 kDa

Gene Summary: brain-specific member of the aldolase enzyme family; may play a role in neurogenesis [RGD, Feb 2006]

Product images:



Circular map for RR200828