

Product datasheet for **RG200333**

Aldolase C (ALDOC) (NM_005165) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldolase C (ALDOC) (NM_005165) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldolase C
Synonyms:	ALDC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200333 representing NM_005165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTACTCGTACCCAGCCCTTTCTGCTGAGCAGAAGAAGGAGTTGTCTGACATTGCCCTGCGGATTG
TAGCCCCGGGCAAAGGCATTCTGGCTGCGGATGAGTCTGTAGGCAGCATGGCCAAGCGGTGAGCCAAAT
TGGGGTGGAAAACACAGAGGAGAACCGCCGGCTGTACCGCCAGGTCCTGTTCACTGCTGATGACCGTGTG
AAAAAGTGCATTGGAGGGCTCATTTTCTCCATGAGACCCTCTACCAGAAAGATGATAATGGTGTCCCT
TCGTCCGAACCATCCAGGATAAGGGCATCGTCGTGGGCATCAAGGTTGACAAGGGTGTGGTGCCTTAGC
TGGGACTGATGGAGAAACCACCACTCAAGGGCTGGATGGGCTCTCAGAACGCTGTGCCCAATACAAGAAG
GATGGTGTGACTTTGCCAAGTGGCGCTGTGTGCTGAAAATCAGTGAGCGTACACCCTCTGCACTTGCCA
TTCTGGAGAACGCCAACGTGCTGGCCGTTATGCCAGTATCTGCCAGCAGAATGGCATTGTGCCTATTGT
GGAACCTGAAATATTGCCTGATGGAGACCACGACCTCAAACGTTGTCAAGTATGTTACAGAGAAGGCTTTG
GCTGCTGTGTACAAGCCCTGAGTGACCATCATGTATACCTGGAGGGGACCCTGCTCAAGCCCAACATGG
TGACCCCGGGCCATGCCTGTCCCATCAAGTATACCCAGAGGAGATTGCCATGGCAACTGCACTGCCCT
GCGTCGCACTGTGCCCCAGCTGTCCCAGGAGTGACCTTCCTGTCTGGGGTTCAGAGCGAAGAAGAGGCA
TCATTCAACCTCAATGCCATCAACCGCTGCCCTTCCCGACCCTGGGCGTTACCTTCTCCTATGGGC
GTGCCCTGCAAGCCTCTGCACTCAATGCCTGGCGAGGGCAACGGGACAATGCTGGGGCTGCCACTGAGGA
GTTTCATCAAGCGGGCTGAGGTGAATGGGCTTGACGCCAGGGCAAGTATGAAGGCAGTGGAGAAGATGGT
GGAGCAGCAGCACAGTCACTCTACATTGCCAACCATGCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200333 representing NM_005165
 Red=Cloning site Green=Tags(s)

MPHSYPALSAEQKKEKLSDIALRIVAPGKGI LAADESVGSMKRLSQIGVENTEENRRLRYRQVLFSAADDRV
 KKCIGGVIFFHETLYQKDDNGVFPVRTIQDKGIVVGKIVDKGVVPLAGTDGETTTQGLDGLSERCAQYKK
 DGADFAKWRCVLKISERTPSALAIENANVLARYASICQQNGI VIVEPEILPDGDHDLKRCQYVTEKVL
 AAVYKALSDHHVYLEGTL LKPNMVT PGHACPIKYTP EEIAMATVTALRRTVPPAVPGVTF LSGGQSEEEA
 SFNLNAINRCPLPRPWALTF SYGRALQASALNAWRGQRDNAGAATEEF IKRAEVNGLAAQKGYEGSGEDG
 GAAAQSLYIANHAY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005165

ORF Size: 1092 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_005165.3](#)

RefSeq Size: 1665 bp

RefSeq ORF: 1095 bp

Locus ID: 230

UniProt ID: [P09972](#)

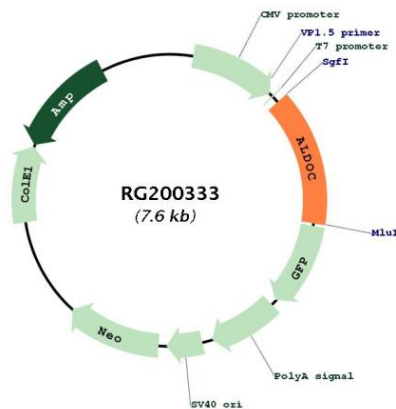
Cytogenetics: 17q11.2

Domains: glycolytic_enzy

Protein Pathways: Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

Gene Summary: This gene encodes a member of the class I fructose-biphosphate aldolase gene family. Expressed specifically in the hippocampus and Purkinje cells of the brain, the encoded protein is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1,6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehyde, respectively. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200333