

## Product datasheet for **RC200333**

### 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:	Myc-DDK
Symbol:	Aldolase C
Synonyms:	ALDC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200333 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTACTCGTACCCAGCCCTTTCTGCTGAGCAGAAGAAGGAGTTGTCTGACATTGCCCTGCGGATTG  
TAGCCCCGGGCAAAGGCATTCTGGCTGCGGATGAGTCTGTAGGCAGCATGGCCAAGCGGTGAGCCAAAT  
TGGGGTGGAAAACACAGAGGAGAACCGCCGGCTGTACCGCCAGGTCTTTCAGTGCTGATGACCGTGTG  
AAAAAGTGCATTGGAGGGCTCATTTTCTCCATGAGACCCTCTACCAGAAAGATGATAATGGTGTCCCT  
TCGTCCGAACCATCCAGGATAAGGGCATCGTCGTGGGCATCAAGTTGACAAGGGTGTGGTGCCTTAGC  
TGGGACTGATGGAGAAACCACCACTCAAGGGCTGGATGGGCTCTCAGAACGCTGTGCCCAATACAAGAAG  
GATGGTGTGACTTTGCCAAGTGGCGCTGTGTGCTGAAAATCAGTGAGCGTACACCCTCTGCACTTGCCA  
TTCTGGAGAACGCCAACGTGCTGGCCGTTATGCCAGTATCTGCCAGCAGAAATGGCATTGTGCCTATTGT  
GGAACCTGAAATATTGCCTGATGGAGACCACGACCTCAAACGTTGTGAGTATGTTACAGAGAAGGTCTTG  
GCTGCTGTGTACAAGCCCTGAGTGACCATCATGTATACCTGGAGGGGACCCTGCTCAAGCCCAACATGG  
TGACCCCGGGCCATGCCTGTCCCATCAAGTATACCCAGAGGAGATTGCCATGGCAACTGTCACTGCCCT  
GCGTCGCACTGTGCCCCAGCTGTCCCAGGAGTGACCTTCCTGTCTGGGGTTCAGAGCGAAGAAGAGGCA  
TCATTCAACCTCAATGCCATCAACCGCTGCCCTTCCCCGACCCTGGGCGTTACCTTCTCCTATGGGC  
GTGCCCTGCAAGCCTCTGCACTCAATGCCTGGCGAGGGCAACGGGACAATGCTGGGGCTGCCACTGAGGA  
GTTTCATCAAGCGGGCTGAGGTGAATGGGCTTGACGCCAGGGCAAGTATGAAGGCAGTGGAGAAGATGGT  
GGAGCAGCAGCAGTCACTCTACATTGCCAACCATGCCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC200333 protein sequence  
Red=Cloning site Green=Tags(s)

MPHSYPALSAEQKKE LSDIALRIVAPGKGI LAADSVGSMKRLSQIGVENTEENRRLYRQVLF SADDRV  
 KKCIGGVIFFHETLYQKDDNGVPFVRTIQDKGIVVGIVDKGVVPLAGTDGETTTQGLDGLSERCAQYKK  
 DGADFAKWRCVLKISERTPSALAI LENANVLARYASICQQNGI VIVEPEILPDGDHDLKRCQYVTEKVL  
 AAVYKALSDHHVYLEGTL LKPNMVT PGHACPIKYTP EEIAMATVTALRRTPP VAVPGVTFLSGGQSEEEA  
 SFNLNAINRCPLPRPWALTF SYGRALQASALNAWRGQRDNAGAATEEF IKRAEVNGLAAQKGYEGSGEDG  
 GAAAQSLYIANHAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6053\\_c09.zip](https://cdn.origene.com/chromatograms/mk6053_c09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_005165

**ORF Size:** 1092 bp

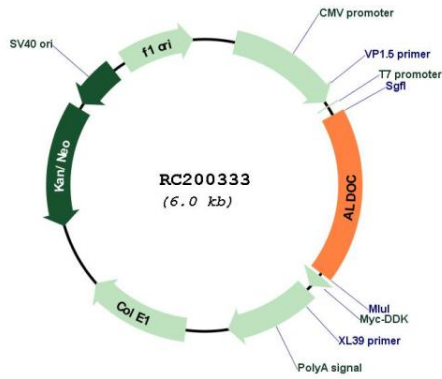
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

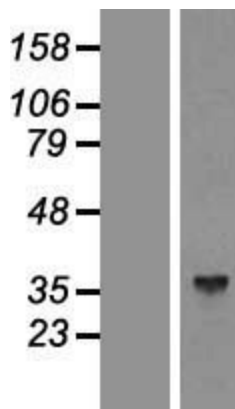
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_005165.3</a>
<b>RefSeq Size:</b>	1665 bp
<b>RefSeq ORF:</b>	1095 bp
<b>Locus ID:</b>	230
<b>UniProt ID:</b>	<a href="#">P09972</a>
<b>Cytogenetics:</b>	17q11.2
<b>Domains:</b>	glycolytic_enzy
<b>Protein Pathways:</b>	Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway
<b>MW:</b>	39.5 kDa
<b>Gene Summary:</b>	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]

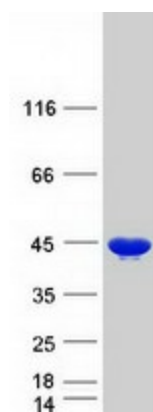
Product images:



Circular map for RC200333



Western blot validation of overexpression lysate (Cat# [LY417475]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200333 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ALDOC protein (Cat# [TP300333]). The protein was produced from HEK293T cells transfected with ALDOC cDNA clone (Cat# RC200333) using MegaTran 2.0 (Cat# [TT210002]).