

Product datasheet for SC116885

Aldolase C (ALDOC) (NM_005165) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldolase C (ALDOC) (NM_005165) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aldolase C
Synonyms:	ALDC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116885 sequence for NM_005165 edited (data generated by NextGen Sequencing)

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ATGCCTCACTCGTACCCAGCCCTTTCTGCTGAGCAGAAGAAGGAGTTGTCTGACATTGCC
CTGCGGATTGTAGCCCCGGGCAAAGGCATTCTGGCTGCGGATGAGTCTGTAGGCAGCATG
GCCAAGCGGCTGAGCCAAATTGGGGTGGAAAACACAGAGGAGAACCGCCGGCTGTACCGC
CAGGTCCTGTTCAGTGCTGATGACCGTGTGAAAAAGTGCATTGGAGGCGTCATTTTCTTC
CATGAGACCCTCTACCAGAAAGATGATAATGGTGTTCCTTCGTCCGAACCATCCAGGAT
AAGGGCATCGTCGTGGGCATCAAGGTTGACAAGGGTGTGGTGCCTCTAGCTGGGACTGAT
GGAGAAACCACCACTCAAGGGCTGGATGGGCTCTCAGAACGCTGTGCCAATAACAAGAAG
GATGGTGCTGACTTTGCCAAGTGGCGCTGTGTGCTGAAAATCAGTGAGCGTACACCCTCT
GCCTTGGCATTCTGGAGAACGCCAACGTGCTGGCCCGTTATGCCAGTATCTGCCAGCAG
AATGGCATTGTGCTATTGTGGAACCTGAAATATTGCCTGATGGAGACCAGACCTCAAA
CGTTGTCAGTATGTTACAGAGAAGTCTTGGCTGCTGTGTACAAGGCCCTGAGTGACCAT
CATGTATACCTGGAGGGGACCCTGCTCAAGCCCAACATGGTGACCCCGGGCCATGCCTGT
CCCATCAAGTATACCCAGAGGAGATTGCCATGGCAACTGCACTGCCCTGCGTCGCACT
GTGCCCCAGCTGTCCCAGGAGTGACCTTCTGTCTGGGGTCTCAGAGCGAAGAAGAGGCA
TCATTCAACCTCAATGCCATCAACCGCTGCCCCCTTCCCCGACCTGGGCGCTTACCTTC
TCCATGGGCGTGCCTGCAAGCCTCTGCACTCAATGCCTGGCGAGGGCAACGGGACAAT
GCTGGGCGTGCCTGAGGAGTTTCATCAAGCGGGCTGAGGTGAATGGGCTTGCAGCCAG
GGCAAGTATGAAGGCAGTGGAGAAGATGGTGGAGCAGCAGCACAGTCACTCTACATTGCC
AACCATGCCTACTGA

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Clone variation with respect to NM_005165.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005165 unedited
 NGTTCACATTTTGTATACGACTCACTATAGGGCGGCCGCAATCGGCACGAGGGCTGCAG
 CCTCATCTGTTTGC GGATCAGAACCCGAGCTGTGCTTGTGGCTGCGGCTGCTAACTGGCT
 GCGCACAGGGAGCTGTCACCATGCCTCACTCGTACCCAGCCCTTCTGCTGAGCAGAAGA
 AGGAGTTGTCTGACATTGCCCTGCGGATTGTAGCCCCGGGCAAAGGCATTCTGGCTGCGG
 ATGAGTCTGTAGGCAGCATGGCCAAGCGGCTGAGCCAAATTGGGGTGAAAAACACAGAGG
 AGAACCCCGGCTGTACCCGAGGTCCTGTTTCAGTGCTGATGACCGTGTGAAAAAGTGCA
 TTGGAGGCGTCATTTTCTTCCATGAGACCCTCTACCAGAAAGATGATAATGGTGTCCCT
 TCGTCCGAACCATCCAGGATAAGGGCATCGTCTGGGCATCAAGTTGACAAGGGTGTGG
 TGCCTCTAGTGGGACTGATGGAGAAACCACCACTCAAGGGCTGGATGGGCTCTCAGAAC
 GCTGTGCCAATAACAAGAAGGATGGTGCTGACTTTGCCAAGTGGCGCTGTGTGCTGAAAA
 TCAGTGAGCGTACACCCTCTGCACTTGCCATTCTGGAGACGCCCCAACGTGCTNNGCCCCG
 TTATGCCAGTATCTGCCAGCAGAATGGCATTGTGCCTATTGTGGAACCTGAAATATTGCC
 TGATGGAGACCACGACCTCAAACGTTGTCAGTATGTTACAGAGAAGGTCTTGGCTGCTGT
 GTCAGGCCCTGAGTGCCATCATGTATACCTGGAGGGGACCCTGCTCAGNCCCACATGGT
 GACCCCGGCCATGCCTGTCCCATCAGTATACCCAGAAGGAGATGGCATGGNCACTGTAC
 TGGCCTGCGTCGCACTGTGCCCCAGCTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005165 unedited
 GATGGCAACTCTCCAGNCCAGGAANAGCACTGGGGAGGGGTACAGGGATGCCACCCGG
 GATCTGTTAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTT
 TTTTTTGTGTTGCTACCATTTATTTGCTGTATGGTATGTAAGGCATGAGTCAGGGC
 TTCTGTACTACCCTCTGATCCCAGGAGACAGGGCAGGCAAGAAGGAGAGCCAGGGAGAA
 GCTACCTCATCATGGGAAAATTGTGGGAGCTGGAAGAGGTAGGGGAGACCCAGCCATCC
 TGTTCTGACTTCTAACAATTTCTTCTGCCCTCAGTCATGAGGGGCTCCCTATCCTCCCAT
 CCTATGGTCCCAGGTGCAGCAATNGAGAGAGGGGAAGGGAAGAGAAAGGAAGACAAGT
 TGGTGCCAGGTGAAGGCATCTCTGCTCTGCATAGCTATTTGGCCCTGGCCATGACTACAA
 GCAAAAGTGGGTGCAGATGGCTGGGCCAAGGGCTGTGGTATGGAGTGGATACTCAGTAGG
 CATGGTTGGCAATGTAAGTGACTGTGCTGCTGCTCCACCATCTTCTCCACTGCCTTCAT
 ACTTGCCTGNGCTGCAAGCCCATTACCTCAGCCCGCTTGATGAACTNCTCAGTGGCAG
 CCCCACATTGTTCCGTTGCCCTCGCCAGCATTGAGTGCANAAGCTTGCAGNCAAGCCAT
 ANGAGAAAAGCTACCCCCAGGTCGGGGGAAGGGCCANNCNTGATGCATTTGAGGNTGAA
 TGATGCTCTTCTCGNTCTGACCCAGAAAGAANNGTCACTCTGGGACAGCTGGGGCCAG
 TGCNACCCAGGCANGGACATTGCATGGCATCTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_005165

Insert Size:

1570 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_005165.2 , NP_005156.1
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]