

Product datasheet for **SC320621**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005165, the custom clone sequence may differ by one or more nucleotides

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ATGCCTCACTCGTACCCAGCCCTTTCTGCTGAGCAGAAGAAGGAGTTGTCTGACATTGCCCTGCGGATTG
TAGCCCCGGGCAAAGGCATTCTGGCTGCGGATGAGTCTGTAGGCAGCATGGCCAAGCGGCTGAGCCAAAT
TGGGGTGGAAAACACAGAGGAGAACCGCCGGCTGTACCGCCAGGTCTGTTCAGTGCTGATGACCGTGTG
AAAAAGTGCATTGGAGGCGTCATTTTCTCCATGAGACCCTCTACCAGAAAGATGATAATGGTGTCCCT
TCGTCCGAACCATCCAGGATAAGGGCATCGTCGTGGGCATCAAGGTTGACAAGGGTGTGGTGCCTTAGC
TGGGACTGATGGAGAAACCACCACTCAAGGGCTGGATGGGCTCTCAGAACGCTGTGCCCAATACAAGAAG
GATGGTGTGACTTTGCCAAGTGGCGTGTGTGCTGAAAATCAGTGAGCGTACACCCTTGCACTTGCCA
TTCTGGAGAACGCCAACGTGCTGGCCCGTTATGCCAGTATCTGCCAGCAGAAATGGCATTGTGCCTATTGT
GGAACCTGAAATATTGCCTGATGGAGACCACGACCTCAAACGTTGTGAGTATGTTACAGAGAAGGCTTGT
GCTGCTGTGTACAAGGCCCTGAGTGACCATCATGTATACCTGGAGGGGACCCTGCTCAAGCCCAACATGG
TGACCCCGGGCCATGCCTGTCCCATCAAGTATACCCAGAGGAGATTGCCATGGCAACTGTCACTGCCCT
GCGTCGCACTGTGCCCCAGCTGTCCCAGGAGTGACCTTCTGTCTGGGGTCTCAGAGCGAAGAAGAGGCA
TCATTCAACCTCAATGCCATCAACCGCTGCCCCCTTCCCCGACCTGGGCGCTTACCTTCTCCTATGGGC
GTGCCCTGCAAGCCTCTGCACTCAATGCCTGGCGAGGGCAACGGGACAATGCTGGGGCTGCCACTGAGGA
GTTTCATCAAGCGGGCTGAGGTGAATGGGCTTGCAGCCCAGGGCAAGTATGAAGGCAGTGGAGAAGATGGT
GGAGCAGCAGCACAGTCACTCTACATTGCCAACCATGCCTACTGA
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Restriction Sites:	Please inquire
ACCN:	NM_005165



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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]