

## OriGene Technologies, Inc.

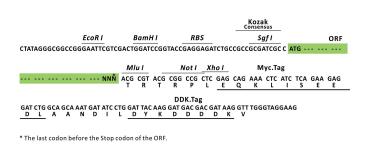
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## Product datasheet for RC200333L3

## Aldolase C (ALDOC) (NM\_005165) Human Tagged Lenti ORF Clone

## **Product data:**

| Product Type:                | Expression Plasmids                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------|
| Product Name:                | Aldolase C (ALDOC) (NM_005165) Human Tagged Lenti ORF Clone                             |
| Tag:                         | Myc-DDK                                                                                 |
| Symbol:                      | Aldolase C                                                                              |
| Synonyms:                    | ALDC                                                                                    |
| Mammalian Cell<br>Selection: | Puromycin                                                                               |
| Vector:                      | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                                                    |
| E. coli Selection:           | Chloramphenicol (34 ug/mL)                                                              |
| ORF Nucleotide<br>Sequence:  | The ORF insert of this clone is exactly the same as(RC200333).                          |
| <b>Restriction Sites:</b>    | Sgfl-Mlul                                                                               |
| Cloning Scheme:              |                                                                                         |
|                              | Cloning sites used for ORF Shuttling:                                                   |
|                              | Sgf I         ORF         Mlu I           GCG ATC GC         ATG // NNÑ         ACG CGT |



ACCN: ORF Size:

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NM\_005165

1092 bp

| Aldolase C (ALDOC) (NM_005165) Human Tagged Lenti ORF Clone – RC200333L3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. <u>More info</u>                                  |
| 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:                                                   | <ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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> |
| RefSeq:                                                                  | <u>NM 005165.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RefSeq Size:                                                             | 1665 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RefSeq ORF:                                                              | 1095 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Locus ID:                                                                | 230                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt ID:                                                              | <u>P09972</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cytogenetics:                                                            | 17q11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Domains:                                                                 | glycolytic_enzy                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protein Pathways:                                                        | Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways,<br>Pentose phosphate pathway                                                                                                                                                                                                                                                                                                                                                            |
| MW:                                                                      | 39.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Summary:                                                            | This gene encodes a member of the class I fructose-biphosphate aldolase gene family.<br>Expressed specifically in the hippocampus and Purkinje cells of the brain, the encoded<br>protein is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1,6-<br>biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either<br>glyceraldehyde-3-phosphate or glyceraldehyde, respectively. [provided by RefSeq, Jul 2008]              |

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