

## Product datasheet for **SC205095**

### Aconitase 2 (ACO2) (NM\_001098) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** Aconitase 2 (ACO2) (NM\_001098) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** ACO2  
**Synonyms:** ACONM; HEL-S-284; ICRD; OCA8; OPA9  
**ACCN:** NM\_001098  
**Insert Size:** 391 bp  
**Insert Sequence:** >SC205095 3'UTR clone of NM\_001098

The sequence shown below is from the reference sequence of NM\_001098. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTCAACAGAATGAAGGAAGTGAACAGTGAAGGCGAGTGCCTCCCCGCCCGCCGCTGGCGTCAAGTTCA
GCTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCTTCAAGATGGTGTGACCA
GACATGCTTCCTGCTCCCGCTTAGCCACGGAGTGAAGTGGTGGTGGGGGGTTCTTAAATAA
CTTTTAGCCCCGCTCTTCTATTTTGTGTTTGGTTTCAAGTCTTAAAGCAGCTCCATGCAACTGTATTTA
TTTTTGATGACAAGACTCCCATCTAAAGTTTTTCTCTGCCTGATCATTTCATTGGTGGCTGAAGGATT
CTAGAGAACCTTTTGTCTTGAAGGAAAACAAGAATCCAAAACCA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001098.3](#)



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**Summary:** The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15 (PRSS15), also known as Lon protease, after oxidative modification. [provided by RefSeq, Jul 2008]

**Locus ID:** 50

**MW:** 14.3