

Product datasheet for SC203380

CAD (NM 004341) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Product Name: CAD (NM_004341) Human 3' UTR Clone

Vector: pMirTarget (PS100062)

Symbol: CAD

Synonyms: CDG1Z; DEE50; EIEE50; GATD4

ACCN: NM_004341

Insert Size: 455 bp

Insert Sequence: >SC203380 3'UTR clone of NM_004341

The sequence shown below is from the reference sequence of NM_004341. The complete

sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG

TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC

TCACACTCGTGACTCTTTGGGACTCGGCAGGAGCGTGTTAA

ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA

CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: Sgfl-Mlul

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.

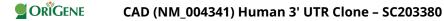
RefSeq: <u>NM 004341.5</u>



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Summary: The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to

proliferate. This gene encodes a trifunctional protein which is associated with the enzymatic

activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis:

carbamoylphosphate synthetase (CPS II), aspartate transcarbamoylase, and dihydroorotase. This protein is regulated by the mitogen-activated protein kinase (MAPK) cascade, which indicates a direct link between activation of the MAPK cascade and de novo biosynthesis of pyrimidine nucleotides. Alternative splicing results in multiple transcript variants encoding

different isoforms. [provided by RefSeq, Apr 2015]

Locus ID: 790

MW: 16.4