

## Product datasheet for **SC216661**

### CTPS2 (NM\_019857) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	CTPS2 (NM_019857) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CTPS2
Synonyms:	GATD5B
ACCN:	NM_019857
Insert Size:	1848 bp



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**Insert Sequence:** >SC216661 3'UTR clone of NM\_019857  
The sequence shown below is from the reference sequence of NM\_019857. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCAAGGATAGCTGAGTTGGAAATAAGCTGAATGAATACATGACTGGGAATAATGGGGACTGCCTGTGA
GGCCTCTGAAATAATTGAAGCAAGATGAAGGAACTATCTGAAGAAATCACTACACTCTTAGAGAATCC
CTCTGTTCTCCAGCAAACATGGGATGTAAGCCTCACAGGGAATCTGATAATACATACTTCTGTCAACC
AGAACCAGAGGGGTAGTTTTCTTTCCCTCCAGAGGCAGCCTTTGGTACTTAAAAATCTGTAGCTGAT
TAAATTTTCCCAACAACCTCACTGGGGAGAAAGTGTGTTTCATGTTTTGTCCAGCGGATCAGGATGTTA
GGATGACGAGCAAGAGTCCAGGTCCTGTGCCTTTGCTGTGTTGATGAAAAGGATGGCAGGGAACATG
CTGTAAGTAATTTGAGTAAGAAAATGAGTCAGTGTGTTACCTGGAACCTCAGCCACAGATTTGTGTGTG
GTCCAAGATCATTGCAGTTTCTCACCTGTTTATTTCTGGTAAAAGTAAAATTGAATAGGTCCAAGAC
TTGGGGGTGGCAAGTAAGGCTTTGCCTCAGGCACAAAATTAAGGGGGCTCCAAAAAAGCTCAGGAATCA
AGATCAGCAATACAGTCTGAGTATCCCTTATGTGAAATGCTTGGGGCTAGAAGTGTGTTTGAATTTGAGA
TTTTGGAATATTTGCATATACATGCGATATCTTGGGGATGAGACTCAAGACTAAACATGAAATTCATTT
ATGCTTCATATACACCTATATACATAGCCTAAAGGTAATTTGATACAATATTTTAAATAATTTGTGC
ATGAAACAAAGTTTCGACTGCATTTTACTGTGATTTCTGGCATGAGATCAGTTATGGAATTTCCACT
TCTAGCGTCATGTTGGCATTTCAGAAATTTGAAATTTGGAGCATTGTTGGATTTTTCAGATTAGGGATGC
TCAACCTGTATATATATTTTTAATCGACGTGAAATTCACGTAACATAGAATTAACCATTTTGAAGTGA
ACAATTTGGTTGCATTCAGTGTGTTGAGCAACCACCCTTTAACTATTTCCAAAAACATTTTCATCAC
TCCAAAAATAAATGCCTGTACACACTAGCAGTCACTCCCTATCTTCCCTCCACCTGTCCGCTGGCAACC
ACTGATCTCCTTTTTATTCTGTGGCTTTTTCTATTCTGGATATTTTCATATAAGTGGAAATACACAATA
TATGTGCTTTTTGTGTCTGGCTTCTTCTGAGACAGTAGGAAGGGGGCTTGGCTTTGGCTCACCCCA
CTAGAGCATTTTTTCATGCATTCCTGATCACAAAACCCATACTACTACCTCATTGACACCATACT
GCTAACCTCGAGGCTTTAGTCATACAAAGAAAATGGCCTTTCTGTATTGTTCTTCTGTGCTCTCATAAT
GCTTAACCATGTCTTTACTTAAACAATCCAGGAACTGGCCTTAGGAGATCCAAATAGGGAACCAAGA
TTGCAGAGTGTCCATCTTGGGAGGGAATGCTGAATAATTAATTGATTTACAGCCTTGTGCGGCTGGC
CAGACCACCAGGTGGCCATTACTCGAGATGATCATCACAAACCAGATGATGCTAACCTATATCCTCTAC
CCTTCGCGTGCTTTGTCTGGGAAGTCTTTTGGCCCATGTGAGTTTCTATTGCATTGAGAGCCCAAGAG
CCCTGGTCAGTCAGGCTTCCATTTAGCATGGCGTTTGCAAGGTTTACCCATGTTGTAGCATGTGTGAG
AATTTTCATTCCTTCTATGGCTGAATAAAATCCATTGTATGAATATACCAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
```

**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\\_019857.5](#)

**Summary:**

The protein encoded by this gene catalyzes the formation of CTP from UTP with the concomitant deamination of glutamine to glutamate. This protein is the rate-limiting enzyme in the synthesis of cytosine nucleotides, which play an important role in various metabolic processes and provide the precursors necessary for the synthesis of RNA and DNA. Cancer cells that exhibit increased cell proliferation also exhibit an increased activity of this encoded protein. Thus, this protein is an attractive target for selective chemotherapy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

**Locus ID:**

56474

**MW:**

70.1