

## Product datasheet for **SC210950**

### SHMT1 (NM\_004169) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** SHMT1 (NM\_004169) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** SHMT1  
**Synonyms:** CSHMT; SHMT  
**ACCN:** NM\_004169  
**Insert Size:** 907 bp  
**Insert Sequence:** >SC210950 3'UTR clone of NM\_004169  
The sequence shown below is from the reference sequence of NM\_004169. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TTCCCTCTGCCTGGCCTGCCTGACTTCTAAGGAGCGGGCCACTCTGGACCCACCTGGCGCCACAGAG
GAAGCTGCCTGCCGGAGGACCCACCTGAGAGATGGATGAGCTGCTCCAAAGGGGAAGTGTGACACT
CGGGCCCTTTGAGGGGTTTCTTTTGGACTTTTTTCATGTTTTCTCACAAATCAAATTTGTTTAAAGT
CTCATTGTTAGTAATTCTGGGACAGTTATTAAGGATTTAAATTTGAACCTGGCTTTCTCACAGCTGG
ACATAATTCTAGGAAAATAAAATACTATGTCGCCACTTGGTCATAATCATTAGATGGTGGTGTAGGGC
AAAGCTGTTAGAAAGATTGTAGCGTTTTACTCTCCCTGGGCTTTCCTCCGCTTGTGCAACAGAGAGG
AAATGCCCATGTCCACAGCTTGTACACACTGCCCCCTCACTATCTTGTATCCAGTGGCATGCCAAAGG
AGAAGTGAATTAGCTTCTGAGGCTTCTGCTGTAATCAGAAGTGTATGTTAGTCAAGAGTAAACAAGAT
GCACCCAGTATGGTGGGAGGTTTTGCTGTCAGTAGCTCAAAGTATGGTGTAGAAATGGCCTCCTCCCT
CCATCCTGGGAAGTCCCAGTCCCATCCTGGTGTGAGAATCAACCAGGCTTTCCTGCTCCACCTGAGATA
ACCAACTCCCTCCGTAATCAGGAAGCCAAATGTACCTTCCCAAAGAAATTTATTTTACGTAGCTG
AAGTGCAAACATAGATGACATTTTTAATAAGCACAAATTTTTAACACAGAATGTCTACAAGA
ATTATAGCTTTAAAAAATAACAACCAATTTTATATTTCAAAAATATTTGAACTCAAATAAATTAATTT
TAAAAAGTA
ACGCGTAAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**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).



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<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_004169.5</a>
<b>Summary:</b>	This gene encodes the cytosolic form of serine hydroxymethyltransferase, a pyridoxal phosphate-containing enzyme that catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. This reaction provides one-carbon units for synthesis of methionine, thymidylate, and purines in the cytoplasm. This gene is located within the Smith-Magenis syndrome region on chromosome 17. A pseudogene of this gene is located on the short arm of chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
<b>Locus ID:</b>	6470
<b>MW:</b>	34.1