

## Product datasheet for SC207009

### Thymidylate Synthase (TYMS) (NM\_001071) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Thymidylate Synthase (TYMS) (NM_001071) Human 3' UTR Clone
Symbol:	Thymidylate Synthase
Synonyms:	HST422; TMS; TS
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001071
Insert Size:	611 bp
Insert Sequence:	>SC207009 3'UTR clone of NM_001071 The sequence shown below is from the reference sequence of NM_001071. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCAACATATAAAATGGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTCGAAGGATATTGTCAGTCTTT
AGGGGTTGGGCTGGATGCCGAGGTAAGTTCTTTTTGCTCTAAAAGAAAAGGAACTAGGTCAAAAAT
CTGTCCGTGACCTATCAGTTATTAATTTTTAAGGATGTTGCCACTGGCAAATGTAAGTGTGCCAGTTCT
TTCCATAATAAAAGGCTTTGAGTAACTCACTGAGGGTATCTGACAATGCTGAGGTTATGAACAAAGTG
AGGAGAATGAAATGTATGTGCTTAGCAAAAACATGTATGTGCATTTCAATCCCACGTAATATAAAG
AAGGTTGGTGAATTTACAAGCTATTTTTGGAATATTTTTAGAATATTTAAGAATTTACAAGCTATT
CCCTCAAATCTGAGGGAGCTGAGTAACACCATCGATCATGATGTAGAGTGTGGTTATGAACCTTTAAAGT
TATAGTTGTTTTATATGTTGCTATAATAAAGAAGTGTCTGCATTCCGTCACGCTTTGTTCACTCTGTA
CTGCCACTTATCTGCTCAGTTCCTTCTAAAATAGATTAAGAAGTCTCCTTAAGTAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites:	Sgfl-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_001071.4</a>
<b>Summary:</b>	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using, 10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occurring antisense transcript, mitochondrial enolase superfamily member 1 (GeneID:55556), vary inversely when cell-growth progresses from late-log to plateau phase. Polymorphisms in this gene may be associated with etiology of neoplasia, including breast cancer, and response to chemotherapy. [provided by RefSeq, Aug 2017]
<b>Locus ID:</b>	7298
<b>MW:</b>	23.2