

## Product datasheet for MR225051

### Tyms (NM\_021288) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Tyms (NM\_021288) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Tyms  
 Synonyms: T; Ts  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >MR225051 representing NM\_021288  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCTGGTGGTTGGCTCCGAGCTGCAGTCCGATGCTCAGCAGCTGAGCGCGGAAGCCCCACGGCATGGAG  
 AACTCCAGTACCTGAGGCAGGTGGAGCACATTTTGCCTGCGGCTCAAGAAGGAGGACCGCACGGGCAC  
 TGGCACCTGTGGTGTTCGGCATGCAGGCACGATACAGCCTGAGAGATGAATTTCTCTGCTCACAAAC  
 AAACGAGTGTCTGGAAGGGTGTTCGGAGGAGTTGTTGTGGTTTATCAAGGGATCCACAAATGCTAAAG  
 AATTGTCTCAAAGGGAGTGAGAATCTGGGATGCCAATGGATCCCGAGATTTTCTGGACAGCTTGGGATT  
 TTCTGCCCGACAGGAAGGGGACCTGGGCCAGTTTATGGTTTCCAATGGAGGCATTTTGGAGCAGAGTAC  
 AAAGATATGGATTGAGTACTCGGGACAAGGAGTAGACCAGCTGCAAAAAGTGATTGACACCATCAAAA  
 CCAACCCTGATGACAGAAGAATCATCATGTGTGCCTGGAACCCAAAAGATCTTCCCTGATGGCACTGCC  
 TCCTTGCCATGCCCTCTGTCAAGTCTATGTGGTGAATGGGAACTGTCTTGCAGCTTTACCAGAGGTCA  
 GGAGATATGGGTCTGGGCGTGCCTTCAACATTGCCAGCTATGCTCTGCTCACCTACATGATTGCACATA  
 TCACAGGCCTGCAGCCAGGTGATTTTGTCCACACTTTGGGAGATGCACATATTTACCTGAATCATATAGA  
 GCCGCTGAAAATTCAGCTACAGCGAGAACAAGACCTTTCCCAAAGCTCAAAATCCTTCGAAAAGTTGAG  
 ACAATCGATGATTTCAAAGTTGAAGACTTTCAGATTGAAGGGTATAATCCACATCCAACGATTAATGG  
 AATGGCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225051 representing NM\_021288  
 Red=Cloning site Green=Tags(s)

MLVVGSELQSDAQQLSAEAPRHGELQYLRQVEHILRCGFKKEDRTGTGTLVFGMQARYSLRDEFPLLT  
 KRVFWKGVLEELLWFIKGSTNAKELSSKGVRIWDANGSRDFLDSLGF SARQEGDLGPVYGFQWRHFGAEY  
 KDMDSYSGQGVQLQKVIDTIKTNPDDRRRIIMCAWNPKDLPLMALPPCHALCQFYVVGELSCQLYQRS  
 GDMGLGVPFNIAASYALLTYMIAHITGLQPGDFVHTLGDAHIYLNHIEPLKIQLQREPRPFKLIKILRKVE  
 TIDDFKVEDFQIEGYNPHPTIKMEMAV

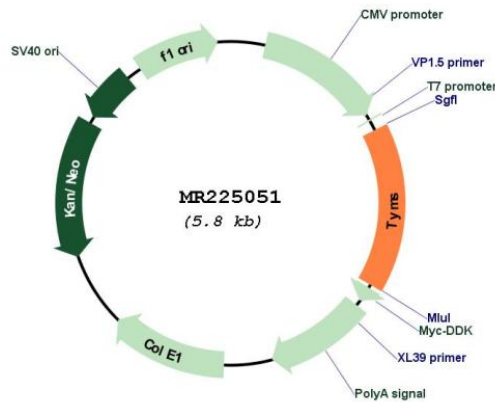
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_021288

ORF Size: 921 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021288.4</a> , <a href="#">NP_067263.1</a>
<b>RefSeq Size:</b>	3798 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	22171
<b>UniProt ID:</b>	<a href="#">P07607</a>
<b>Cytogenetics:</b>	5 15.81 cM
<b>MW:</b>	35.4 kDa
<b>Gene Summary:</b>	This gene encodes an enzyme that catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate as a cofactor. This function maintains the thymidine-5-prime monophosphate concentration critical for DNA replication and repair. The encoded enzyme is a target for cancer chemotherapeutic agents. The majority of transcripts for this gene lack a 3' UTR (PMID: 3022294, 3444407). The stop codon in these transcripts is UAA, compared to the UAG found in the genome and longer transcripts, as the polyA site is located within the stop codon (PMID: 3444407, 2157203). A related pseudogene has been identified on chromosome 10. [provided by RefSeq, Mar 2010]