

## Product datasheet for **SC115536**

### DTYMK (NM\_012145) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DTYMK (NM_012145) Human Untagged Clone
Tag:	Tag Free
Symbol:	DTYMK
Synonyms:	CDC8; PP3731; TMPK; TYMK
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012145, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGCCCGCGCGGGGCTCTCATAGTGCTGGAGGGCGTGGACCGCGCCGGAAGAGCACGCAGAGCC
GCAAGCTGGTGAAGCGCTGTGCGCCGCGGGCCACCGCGCGAACTGCTCCGTTCCCGAAAGATCAAC
TGAAATCGGCAAATTCTGAGTTCCTACTTGCAAAGAAAAGTGACGTGGAGGATCACTCGGTGCACCTG
CTTTTTCTGCAAATCGCTGGGAACAAGTGCCGTTAATTAAGGAAAAGTTGAGCCAGGGCGTGACCCTCG
TCGTGGACAGATACGCATTTTCTGGTGTGGCCTTACCGGTGCCAAGGAGAATTTTCCCTAGATTGGT
TAAACAGCCAGACGTGGCCTTCCCAAACCGACCTGGTCTGTCTCCAGTTACAGCTGGCGGATGCT
GCCAAGCGGGGAGCGTTTGGCCATGAGCGCTATGAGAACGGGGCTTCCAGGAGCGGGCGCTCCGTTGTT
TCCACCAGCTCATGAAAGACACGACTTTGAACTGGAAGATGGTGGATGCTTCCAAAAGCATCGAAGCTGT
CCATGAGGACATCCGCGTCTCTGAGGACGCCATCCGCACTGCCACAGAGAAGCCGCTGGGGGAGCTA
TGGAAAGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_012145 unedited  
 AATTTGTATACGACTCATATAGGCGGCCGGAATTCGGCACGAGGGTCATGGCGGCCCGG  
 CGCGGGGCTCTCATAGTGTGGAGGGCGTGGACCGCGCCGGAAGAGCACGCAGAGCCGC  
 AAGCTGGTGGAAGCGCTGTGCGCCGCGGGCCACCGCGCGAACTGCTCCGGTTCCCGGAA  
 AGATCAACTGAAATCGGCAAACCTCTGAGTTCCTACTTGCAAAAGAAAAGTGACGTGGAG  
 GATCACTCGGTGCACCTGCTTTTTCTGCAAATCGTGGGAACAAGTGCCGTTAATTAAG  
 GAAAAGTTGAGCCAGGGCGTGACCCTCGTGGACAGATACGCATTTTCTGGTGTGGCC  
 TTCACCGGTGCCAAGGAGAATTTTCCCTAGATTGGTGTAAACAGCCAGACGTGGGCCTT  
 CCCAAACCCGACCTGGTCTGTCTCCAGTTACAGCTGGCGGATGCTGCCAAGCGGGGA  
 GCGTTTGGCCATGAGCGCTATGAGAACGGGGCTTCCAGGAGCGGGCGCTCCGGTGTTC  
 CACCAGCTCATGAAAGACACGACTTTGAACTGGAAGATGGTGGATGCTTCCAAAAGCATC  
 GAAGCTGTCCATGAGGACATCCGCGTGTCTCTGAGGACGCCATCCGCACTGCCACAGAG  
 AAGCCGCTGGGGAGCTATGGAAGTGACCCAAGGCTGCCACTGGAGACGCCTCTCCCTGC  
 AGTCCCCCGAGAGGTGGGAGACTCGCGGAAGCCCTGTTCCAGCGGAGTTCAGACCCAC  
 ACTTCAGAGCTCTTCCCGCAGCAGAGACTGCAGCTTGCTCTGCCCCNACTGGGTGCA  
 CTGGGGACC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_012145 unedited  
 GGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTCAGGTGTTTTTTACTAGT  
 GTCTGGAAGACATTTAGGAGAATTCCAACCTGATTACCATTTACAGTGATCACAATGAAAC  
 TGCTCAGAGTTTACTGAACTTTCAGTAAGAAAAATACAACAGAGTGCCATCAGGACAGG  
 GGAGAGGGCAGGAGACTGCTCCATCGTCTGCTCATGTCCACACTGCCAAGGTCCCACC  
 ACGGGGTCCCCAGTGCACCCAGCTCCGGGGCAGAAGAGGCAGCCTGCAGATCTCTGCT  
 GCCGGAAAGAGCTCCTGAAGTTGTGGGTCTGGACTCCGCTGGGAACAGGGCCTTCCGC  
 GAGTCTCCCACCTCTCGGGGACTGCAGGGAGAGGCGTCTCCAGTGGCAGCCTTGGGTCA  
 CTTCCATAGTCCCCAGCGCTTCTCTGTGGCAGTGGGATGGCGTCTCAGAGAGCAC  
 GCGGATGTCTCATGGACAGCTTCGATGCTTTTGGAAAGCATCCACCATCTCCAGTTCAA  
 AGTCGTGCTTTTCATGAGCTGGTGGAAACACCGGAGCGCCCGCTCCTGGAAGCCCGTT  
 CTCATAGCGCTCATGGCCAAACGCTCCCGCTTGGCAGCATCCGCCAGCTGTAACCTGGAG  
 GAACAGGACCAGTTCGGGTTTGGGAAGGCCACGCTGCTGGCTGTTTACACCAATCTAGGGA  
 AAAATTCCTTGGCACCAGTGAAGGCCACCCANAAAATGCGTATCTGTCCACGACGAGG  
 GTCACGCCCTGGCTCAACTTTCCTTTATAACGCACCTGTTCCAGCGATTGCAGAAAAACA  
 GTGCACCGATGATCCTCCACGTACTTTCTTTGAGTAGGACCCAAAGTCGCCGATTACGT  
 GATTTTCCGAAACGAACATTCGCGCGGGGCCGCGGGCCAAGCTTCCACACTGCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_012145

**Insert Size:**

1070 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

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_012145.2</a> , <a href="#">NP_036277.2</a>
<b>RefSeq Size:</b>	1066 bp
<b>RefSeq ORF:</b>	639 bp
<b>Locus ID:</b>	1841
<b>UniProt ID:</b>	<a href="#">P23919</a>
<b>Cytogenetics:</b>	2q37.3
<b>Domains:</b>	Thymidylate_kin
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Pyrimidine metabolism
<b>Gene Summary:</b>	Catalyzes the conversion of dTMP to dTDP.[UniProtKB/Swiss-Prot Function]