

## Product datasheet for **SC318905**

### Thymidine Phosphorylase (TYMP) (NM\_001113755) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thymidine Phosphorylase (TYMP) (NM_001113755) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thymidine Phosphorylase
Synonyms:	ECGF; ECGF1; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PDECGF; TP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC318905 representing NM\_001113755.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAGCCTTGATGACCCCGGGAACCGGGGCCACCCCGCCCTGGTGACTTCTCCGGGAAGGGAGC
CAGGGACTTCCCAGCCCTTCGCCAGAGCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGA
GGCCGCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCA
CAGATCGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACC
CAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCCTGGGCCAGCAGCTTGTGGACAAG
CATTCCACAGGGGGTGTGGGTGACAAGGTGAGCCTGGTCTCGCACCTGCCCTGGCGGCATGTGGCTGC
AAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGATAAGCTGGAGTCTATT
CCTGGATTCAATGTCATCCAGAGCCAGAGCAGATGCAAGTGTCTGGACCAGGCGGGCTGCTGTATC
GTGGGTGACAGTGTGAGCAGCTGGTTCCTGCGGACGGAATCTATATGCAGCCAGAGATGTGACAGCCACC
GTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTG
GTGGTGGACGTTAAGTTCGGAGGGGCCGCGCTTCCCAACCAGGAGCAGGCCCGGGAGCTGGCAAAG
ACGCTGGTTGGCGTGGGAGCCAGCCTAGGGCTTCGGGTGCGGCGAGCGCTGACCGCCATGGACAAGCCC
CTGGGTGCTGCGTGGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCG
CCAGACTTAAGGGACCTGGTCAACACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACT
CAGGCCAGGGGCGCTGCCCGGTGGCCGCGGCGCTGGACGACGGCTCGGCCCTTGCCCGCTTCGAGCGG
ATGCTGGCGGCGCAGGGCGTGGATCCCGGTCTGGCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGC
CGGCAGCTGCTGCCTCGCGCCCGGAGCAGGAGGAGCTGCTGGCGCCCGCAGATGGCACCTGGAGCTG
TCCCGGGCGCTGCCGCTGGCGCTGGTGTGTCACGAGCTCGGGGCCGGGCGCAGCCGCGCTGGGGAGCG
CTCCGCTGGGGGTGGGCGCAGAGCTGCTGGTGCAGCTGGGTGAGAGGCTGCGCCGTGGACCCCTGG
CTCCGCTGACCGGGACGGCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTGCAGGAGGCGCTCGTA
CTCTCCGACCGCGGCCATTCGCCGCCCTCGCCCTTCGCAGAGCTCGTTCTGCCCGCGCAGAATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001113755

**Insert Size:** 1449 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001113755.2</a>
<b>RefSeq Size:</b>	1679 bp
<b>RefSeq ORF:</b>	1449 bp
<b>Locus ID:</b>	1890
<b>UniProt ID:</b>	<a href="#">P19971</a>
<b>Cytogenetics:</b>	22q13.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Bladder cancer, Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism
<b>MW:</b>	50 kDa
<b>Gene Summary:</b>	<p>This gene encodes an angiogenic factor which promotes angiogenesis in vivo and stimulates the in vitro growth of a variety of endothelial cells. It has a highly restricted target cell specificity acting only on endothelial cells. Mutations in this gene have been associated with mitochondrial neurogastrointestinal encephalomyopathy. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Apr 2012]</p> <p>Transcript Variant: This variant (1) and variants 2, 3 and 4 encode the same isoform (1).</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>