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# Product datasheet for SC332557

## Thymidine Phosphorylase (TYMP) (NM_001257989) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Thymidine Phosphorylase (TYMP) (NM_001257989) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Thymidine Phosphorylase |
| **Synonyms:** | ECGF; ECGF1; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PDECGF; TP |
| **Vector:** | pCMV6-Entry (PS100001) |
| **Fully Sequenced ORF:** | >SC332557 representing NM_001257989.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s)<br><br>ATGGCAGCCTTGATGACCCCGGGAACCGGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGGAAGGGAGC<br>CAGGGACTTCCCGACCCTTCGCCAGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGA<br>GGCCGCCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCA<br>CAGATCGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACC<br>CAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCCTGGCGCCAGCAGCTTGTGGACAAG<br>CATTCCACAGGGGGTGTGGGTGACAAGGTCAGCCTGGTCCTCGCACCTGCCCTGGCGGCATGTGGCTGC<br>AAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGATAAGCTGGAGTCTATT<br>CCTGGATTCAATGTCATCCAGAGCCCAGAGCAGATGCAAGTGCTGCTGGACCAGGCGGGCTGCTGTATC<br>GTGGGTCAGAGTGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGCCACC<br>GTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAAACTCGTGGAGGGGCTGTCCGCTCTG<br>GTGGTGGACGTTAAGTTCGGAGGGGCCGCCGTCTTCCCCAACCAGGAGCAGGCCCGGGAGCTGGCAAAG<br>ACGCTGGTTGGCGTGGGAGCCAGCCTAGGGCTTCGGGTCGCGGCAGCGCTGACCGCCATGGACAAGCCC<br>CTGGGTCGCTGCGTGGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCG<br>CCAGACTTAAGGGACCTGGTCACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACT<br>CAGGCCCAGGGCGCTGCCCGGGTGGCCGCGGCGCTGGACGACGGCTCGGCCCTTGGCCGCTTCGAGCGG<br>ATGCTGGCGGCGCAGGGCGTGGATCCCGGTCTGGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGC<br>CGGCAGCTGCTGCCTCGCGCCCGGGAGCAGGAGGAGCTGCTGGCGCCCGCAGATGCCCCTCTCCCCGCA<br>GGCACCGTGGAGCTGGTCCGGGCGCTGCCGCTGGCGCTGGTGCTGCACGAGCTCGGGGCCGGGCGCAGC<br>CGCGCTGGGGAGCCGCTCCGCCTGGGGGTGGGCGCAGAGCTGCTGGTCGACGTGGGTCAGAGGCTGCGC<br>CGTGGGACCCCCTGGCTCCGCGTGCACCGGGACGGCCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTG<br>CAGGAGGCGCTCGTACTCTCCGACCGCGCGCCATTCGCCGCCCCCTCGCCCTTCGCAGAGCTCGTTCTG<br>CCGCCGCAGCAATAA |
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001257989 |
| **Insert Size:** | 1464 bp |

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| **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). |
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **RefSeq:** | NM_001257989.1 |
| **RefSeq Size:** | 1682 bp |
| **RefSeq ORF:** | 1464 bp |
| **Locus ID:** | 1890 |
| **UniProt ID:** | P19971 |
| **Cytogenetics:** | 22q13.33 |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Bladder cancer, Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism |
| **MW:** | 50.4 kDa |
| **Gene Summary:** | 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]<br>Transcript Variant: This variant (5) uses alternate splice sites in the 5' UTR and the 3' coding region, compared to variant 1. The resulting isoform (2) has an additional segment in the C-terminal region, compared to isoform 1. It is not known whether this isoform (2) is proteolytically processed in the same manner as isoform 1. 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. |