

Product datasheet for SC118899

Thymidine Phosphorylase (TYMP) (NM_001953) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thymidine Phosphorylase (TYMP) (NM_001953) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thymidine Phosphorylase
Synonyms:	ECGF; ECGF1; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PDECGF; TP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001953, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCCTTGATGACCCCGGGAACCGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGAAGGGAGCC
AGGGACTTCCCGACCTTCGCCAGAGCCCAAGCAGCTCCCGAGCTGATCCGCATGAAGCGAGACGGAGG
CCGCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAG
ATCGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGG
CCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCTGGCCGACAGCAGCTTGTGGACAAGCATT
CACAGGGGTGTGGGTGACAAGGTGAGCCTGGTCTCGCACCTGCCCTGGCGGCATGTGGCTGCAAGGTG
CCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGATAAGCTGGAGTCTATTCTGGAT
TCAATGTCATCCAGAGCCAGAGCAGATGCAAGTCTGCTGGACCAGCGGGCTGCTGTATCGTGGGTCA
GAGTGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGCCACCGTGGACAGC
CTGCCACTCATCAGCCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTGGTGGTGGACG
TTAAGTTCGGAGGGGCGCCGCTTCCCAACAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGTTGG
CGTGGGAGCCAGCCTAGGGCTTCGGGTGCGGCGAGCGCTGACCGCATGGACAAGCCCTGGGTGCTGC
GTGGGCCACGCCCTGGAGGTGGAGGAGCGCTGCTGTCATGGACGGCGCAGGCCCGCCAGACTTAAGGG
ACCTGGTCACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACCGGGGACTCAGGCCAGGGCGC
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GGCTGGATCCCGGTCTGGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGCCGCGAGCTGCTGCCTC
GCGCCCGGAGCAGGAGGAGCTGCTGGCCCGCAGATGGCACCGTGGAGCTGGTCCGGGCGCTGCCGCT
GGCGTGGTGTGCACGAGCTCGGGGCCGGGCGCAGCCGCTGGGAGCCGCTCCGCTGGGGGTGGG
GCAGAGCTGCTGGTCGACGTGGTTCAGAGGCTGCGCCGTGGGACCCCTGGCTCCGCTGACCGGGGACG
GCCCGCGCTCAGCGGCCCGAGAGCCGCGCCCTGCAGGAGGCGCTCGTACTCTCCGACCGCGGCCATT
CGCCGCCCTCGCCCTCGCAGAGCTCGTCTGCGCCCGCAGCAATAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001953 unedited
 GGGNCGGACACGCCAATTCGGCACGAGGGCGAACCCCTGAACCCTACGGTCCCGACCCGCG
 GGGCAGGCCGGGTACCTGGGCTGGGATCCGGAGCAAGCGGGCAGGGCAGCGCCCTAAGC
 AGGCATCCCCGCAGGCCCGGAGCGATGGCAGCCTTGATGACCCCGGGAACCGGGGCCCA
 CCCGCGCTGGTACTTCTCCGGGAAGGGAGCCAGGGACTTCCCGACCCTTCGCCAGAG
 CCCAAGCAGCTCCCGAGCTGATCCGCATGAAGCGAGATGGAGGCCGCTGAGCGAAGCG
 GACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAGATCGGG
 GCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACC
 CAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGCCCTGGCGCCAGCAGCTT
 GTGGACAAGCATTCCACAGGGGGTGTGGGTGACAAGGTCAGCCTGGTCTCGCACCTGCC
 CTGGCGGCATGTGGCTGCAAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGA
 GGCACCTTGATAAGCTGGAGTCTATTCTGGATTCAATGTCATCCAGAGCCCAGAGCAG
 ATGCAAGTGTCTGGACCAGCGGGCTGCTGTATCGTGGGTGAGTGTGAGCAGCTGGTT
 CCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGCCACCGTGGACAGCCTGCCA
 CTCATCACAGCCTCCATTCTCAGTAAGAAACTCGTGGAGGGGCTGTCCGCTCTGGTGGT
 GACGTTAAGTTTCGAAGGCCGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001953 unedited
 ATGGCCGCGGCCCATCTANAGTCGGTTTTTTTTTTTTTTTTTTTTTCGCGGCAAAGGAGCTT
 TATTGCTCGCGCGCAGAACGAGCTCTGCGAAGGGCGAGGGGGCGGCGAATGGCGCGCG
 TCGGAGAGTACGAGCGCCTCTGCAGGGCGCGGCTCTGCGGGCCGCTGAGCGGGGGCCG
 TCCCGGTGCACGCGGAGCCAGGGGGTCCCACGGCGCAGCCTCTGTCCCACGTGACCAGC
 AGCTCTGCGCCACCCCCAGGCGGAGCGGCTCCCAGCGCGGCTGCGCCCGCCCGGAGC
 TCGTGCAGCACCAGCGCCAGCGGACGCGCCGGACCAGCTCCACGGTGCCATCTGCGGGC
 GCCAGCAGCTCCTCTGCTCCCGGGCGCGAGGCAGCAGCTGCCGGCGTTCTGCGGGACTT
 CCCGAGCACAGGGCTCGGCCAGACCGGGATCCACGCCCTGCGCCGCCAGCATCCGCTCG
 AAGCGGCCAAGGGCCAGCCGCTCTCCAGCGCCGCGGGCACCCGGGCAGCGCCCTGAACC
 TGAGTCCCCGCGGTCCGCTCAGCCAAACACGCTCCCTCCCACCGTGGCAACCACCCCC
 TTAACCTGCGCGGCCCTGCCCGCCACTCCACCACACCCCTCCTTCCACCTCTGCTC
 GCCCGGCCACACACCCCCACCCCTGCGGCTCTCTGTTTCTGCGCGCCACGACCCACCT
 TCCCTCGCCCCATCCCCATACCCTCGACTCCACCCACAACCATCCAGCCACCTCCTCT
 TCATCCTCCCGTTTTGCCACACTACCTCCAACCCCACTCCTCCCTCCACCCCCCATCA
 CACCCCTCCACCTACTCTATTCCCTCCTCCTCCCGGATTCCGACTGCCAGTCTAGAC
 CTCACCCCTCCGCTCCACATTCCCTCCCTCTCATCAACAAC

Restriction Sites:

ECORI-NOT

ACCN:

NM_001953

Insert Size:

1660 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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_001953.2](#), [NP_001944.1](#)

RefSeq Size: 1600 bp

RefSeq ORF: 1449 bp

Locus ID: 1890

UniProt ID: [P19971](#)

Cytogenetics: 22q13.33

Domains: Glycos_trans_3N

Protein Families: Druggable Genome

Protein Pathways: Bladder cancer, Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

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]
Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR, compared to variant 1. Variants 1, 2, 3 and 4 encode the same 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.