

Product datasheet for **RC225820**

Thymidine Phosphorylase (TYMP) (NM_001113756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
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)



ORF Nucleotide Sequence: >RC225820 representing NM_001113756
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCCTTGATGACCCCGGGAACCGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGAAGGGAGCC
 AGGGACTTCCCGACCCTTCGCCAGAGCCCAAGCAGCTCCCGAGCTGATCCGCATGAAGCGAGACGGAGG
 CCGCCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAG
 ATCGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGG
 CCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCTGGCGCCAGCAGCTTGTGGACAAGCATT
 CACAGGGGGTGTGGGTGACAAGGTACGCTGGTCTCGCACCTGCCCTGGCGGCATGTGGCTGCAAGGTG
 CCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGATAAGCTGGAGTCTATTCTGGAT
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 CGCCGCCCCCTCGCCCTTCGCAGAGCTCGTCTGCCGCGCAGCAA

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 ACAAGGATGACGACGATAAGGTTTAA

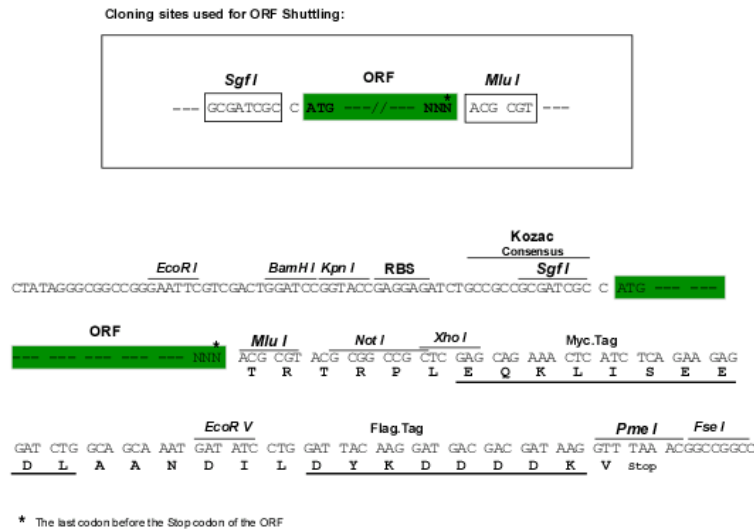
Protein Sequence: >RC225820 representing NM_001113756
 Red=Cloning site Green=Tags(s)

MAALMPGTGAPPAPGDFSGEGSQGLPDPSPPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQ
 IGAMLMAIRLRGMDLEETSVLTQALAQSGQQLWPEAWRQQLVDKHSTGGVGDVSLVLAALAACGCKV
 PMISGRGLGHTGGTLDKLEIPGFNVIQSPEQMQLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDS
 LPLITASILSKKLVEGLSALVVDVKFGAAVFPNQEQAARELAKTLVGVGASLGLRVAAALTAMDKPLGRC
 VGHAEVEEALLCMDGAGPPDLRLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQ
 GVDPLARALCSGSPAERRQLLPAREQEELLAPADGTVELVRALPLALVLHELGAQRSRAGEPLRLGVG
 AELLVDVGQRLRRGTPWLRVHRDGPALSGPQSRALQEALVSDRAPFAAPSPFAELVLPQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001113756

ORF Size: 1446 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

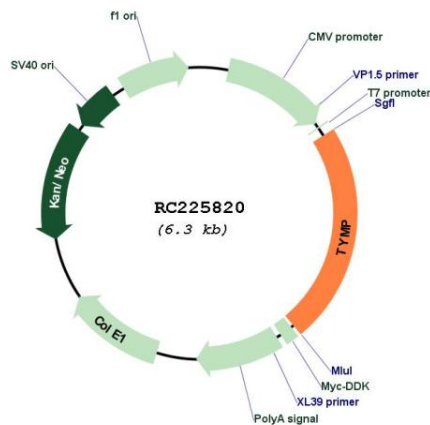
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001113756.3](#)

RefSeq Size: 1851 bp

RefSeq ORF:	1449 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 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]

Product images:



Circular map for RC225820