

Product datasheet for **RG234229**

Thymidine Phosphorylase (TYMP) (NM_001257988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thymidine Phosphorylase (TYMP) (NM_001257988) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TYMP
Synonyms:	ECGF; ECGF1; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PDECGF; TP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234229 representing NM_001257988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCTTGATGACCCCGGAACCGGGGCCACCCGCGCCTGGTGACTTCTCCGGGAAGGGAGCC
 AGGGACTTCCCGACCTTCGCCAGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGG
 CCGCCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAG
 ATCGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGG
 CCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCTGGCGCCAGCAGCTTGTGGACAAGCATT
 CACAGGGGGTGTGGGTGACAAGGTGAGCCTGGTCTCGCACCTGCCCTGGCGGCATGTGGCTGCAAGGTG
 CCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGATAAGCTGGAGTCTATTCTGGAT
 TCAATGTCATCCAGAGCCAGAGCAGATGCAAGTCTGCTGGACCAGCGGGCTGCTGTATCGTGGGTCA
 GAGTGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGCCACCGTGGACAGC
 CTGCCACTCATCAGACCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTGGTGGTGGACG
 TTAAGTTCGGAGGGGCCCGCTTCCCAACCCAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGTTGG
 CGTGGGAGCCAGCCTAGGGCTTCGGGTCCGGCAGCGCTGACCGCATGGACAAGCCCTGGGTCTGCTG
 GTGGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCGCCAGACTTAAGGG
 ACCTGGTCAACACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACCGGGGACTCAGGCCCAGGGCGC
 TGCCCGGTGGCCCGCGGCTGGACGACGGCTCGGCCCTGGCCGCTTCGAGCGGATGCTGGCGGCGCAG
 GGCGTGGATCCCGGTCTGGCCGAGCCCTGTGCTCGGAAAGTCCCGCAGAACCCGGCAGCTGCTGCCTC
 GCGCCCGGAGCAGGAGGAGCTGCTGGCGCCGAGATGGACCCGTGGAGCTGGTCCGGGCGCTCCGCT
 GGCGCTGGTCTGCACGAGCTCGGGGCCGGCGCAGCCGCGCTGGGGAGCCGCTCCGCTGGGGGTGGGC
 GCAGAGCTGCTGGTTCGAGTGGTTCAGAGGCTGCGCCGTGGGACCCCTGGCTCCGCTGACCCGGGACG
 GCCCGCGCTCAGCGGCCCGAGAGCCGCGCCCTGCAGGAGGCGCTCGTACTCTCCGACCGCGCCATT
 CGCCGCCCTCGCCCTTCGAGAGCTCGTTCTGCCGCCGAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234229 representing NM_001257988
 Red=Cloning site Green=Tags(s)

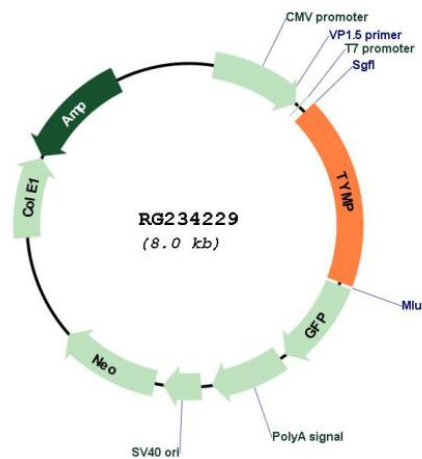
MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQ
 IGAMLMAIRLRGMDLEETSVL TQALAQSGQLEWPEAWRQQLVDKHSTGGVGDVSLVLAPALAACGCKV
 PMISGRGLGHTGGTLDKLESIPGFNVIQSPEQMQLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDS
 LPLITASILSKKLVEGLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAL TAMDKPLGRC
 VGHAEVEEALLCMDGAGPPDLRDLVTTLGGALLWL SGHAGTQAQGAARVAAALDDGSALGRFERMLAAQ
 GVDPLARALCSGSPAERRQLLPRAREQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVG
 AELLVDVGQRLRRGTPWLRVHRDGPALSGPQSRALQEALVLSRAPFAAPSPFAELVLPQQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001257988

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:	<ol style="list-style-type: none">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_001257988.1 , NP_001244917.1
RefSeq Size:	1718 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
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]