

Product datasheet for **RG234250**

Thymidine Phosphorylase (TYMP) (NM_001257989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thymidine Phosphorylase (TYMP) (NM_001257989) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thymidine Phosphorylase
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:

>RG234250 representing NM_001257989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCCTTGATGACCCCGGAACCGGGCCCCACCCGCGCTGGTGACTTCTCCGGGAAGGGAGCC
 AGGGACTTCCCGACCTTCGCCAGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGG
 CCGCCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAG
 ATCGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGG
 CCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCTGGCGCCAGCAGCTTGTGGACAAGCATT
 CACAGGGGGTGTGGGTGACAAGGTGAGCTGGTCTCGCACCTGCCCTGGCGGCATGTGGCTGCAAGGTG
 CCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGATAAGCTGGAGTCTATTCTGGAT
 TCAATGTCATCCAGAGCCAGAGCAGATGCAAGTCTGCTGGACCAGGCGGGCTGCTGTATCGTGGGTCA
 GAGTGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGCCACCGTGGACAGC
 CTGCCACTCATCAGACCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTGGTGGTGGACG
 TTAAGTTCGGAGGGGCCCGCTTCCCAACCCAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGTTGG
 CGTGGGAGCCAGCCTAGGGCTTCGGGTCCGGCAGCGCTGACCGCATGGACAAGCCCTGGGTGCTGCTG
 GTGGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTGTCATGGACGGCGCAGGCCCGCCAGACTTAAGGG
 ACCTGGTCAACACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACTCAGGCCAGGGCGC
 TGCCCGGTGGCCGCGGCGCTGGACGACGGCTCGGCCCTGGCCGCTTCGAGCGGATGCTGGCGGCGCAG
 GGCGTGGATCCCGGTCTGGCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACCCCGCAGCTGCTGCCTC
 GCGCCCCGGGAGCAGGAGGAGCTGCTGGCGCCGACAGATGCCCTCTCCCGCAGGCACCGTGGAGTGGT
 CCGGGCGCTGCCGCTGGCGCTGGTGTGCACGAGCTCGGGGCCGGGCGCAGCCGCTGGGGAGCCGCTC
 CGCCTGGGGTGGGCGCAGAGCTGCTGGTGCAGCTGGGTGAGAGGCTGCGCCGTGGGACCCCTGGCTCC
 GCGTGCACCGGGACGGCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTGCAGGAGGCGCTCGTACTCTC
 CGACCGCGCGCCATTCGCCGCCCCCTCGCCCTTCGAGAGCTCGTTCTGCCGCGCAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234250 representing NM_001257989
 Red=Cloning site Green=Tags(s)

MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQ
 IGAMLMAIRLRGMDLEETSVL TQALAQSGQQLWPEAWRQQLVDKHSTGGVGDVSLV LAPALAACGCKV
 PMISGRGLGHTGGTLDKLESIPGFNVIQSPEQMQLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDS
 LPLITASILSKKLVEGLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAL TAMDKPLGRC
 VGHAEVEEALLCMDGAGPPDLRDLVTTLGGALLWL SGHAGTQAQGAARVAAALDDGSALGRFERMLAAQ
 GVDPLARALCSGSPAERRQLLPRAREQEELLAPADAPLPAGTVELVRALPLALVLHELGAGRSRAGEPL
 RLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGPQSRLQEALVLSRAPFAAPSPFAELVLPQQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001257989

ORF Size: 1461 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.

RefSeq: [NM_001257989.1](#), [NP_001244918.1](#)

RefSeq Size: 1682 bp

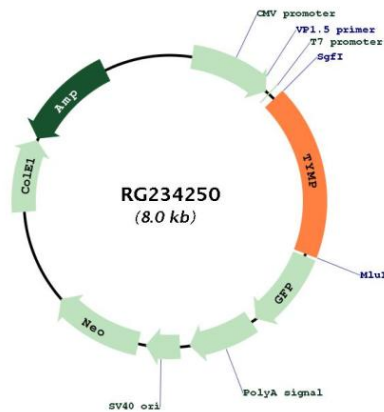
RefSeq ORF: 1464 bp

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
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 RG234250