

Product datasheet for SC119934

TPMT (NM_000367) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPMT (NM_000367) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPMT
Synonyms:	TPMTD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119934 sequence for NM_000367 edited (data generated by NextGen Sequencing)

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ATGGATGGTACAAGAACTTCACTTGACATTGAAGAGTACTCGGATACTGAGGTACAGAAA
AACCAAGTACTAACTCTGGAAGAATGGCAAGACAAGTGGGTGAACGGCAAGACTGCTTTT
CATCAGGAACAAGGACATCAGCTATTAAGAAGCATTTAGATACTTTCCTTAAAGGCAAG
AGTGGACTGAGGGTATTTTTCTCTTTGCGGAAAAGCGGTTGAGATGAAATGGTTTGA
GACCGGGGACACAGTGTAGTTGGTGTGGAAATCAGTGAACTTGGGATACAAGAATTTTTT
ACAGAGCAGAATCTTCTTACTCAGAAGAACCAATCACCGAAATTCCTGGAACCAAAGTA
TTAAGAGTTCTTCGGGAACATTTTATTGACTGTTGCAGTATTTTTGATCTTCCCAGG
ACAAATATTGGCAAATTTGACATGATTTGGGATAGAGGAGCATTAGTTGCCATTAATCCA
GGTGATCGCAAATGCTATGCAGATACAATGTTTTCCCTCCTGGGAAAGAAGTTTCAGTAT
CTCCTGTGTGTTCTTTCTTATGATCCAATAACATCCAGGTCCACCATTTTATGTTCCA
CATGCTGAAATTGAAAGTTGTTTGGTAAAATATGCAATATACGTTGTCTTGAGAAGGTT
GATGCTTTTGAAGAACGACATAAAAGTTGGGAATTGACTGTCTTTTTGAAAAGTTATAT
CTACTTACAGAAAAGTAA

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Clone variation with respect to NM_000367.2
474 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000367 unedited
 GTTCGGGATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGTGGAAAGCG
 GAGGCGTACCCGCCCTGGGGACGTATTGGTGGCGGAGGCAATGGCCGGCAACCAGCTG
 TAAGCGAGGCACGGAAGACATATGCTTGTGAGACAAAGGTGTCTCTGAAACTATGGATGG
 TACAAGAACTTCACTTGACATTGAAGAGTACTCGGATACTGAGGTACAGAAAAACCAAGT
 ACTAACTCTGGAAGAATGGCAAGACAAGTGGGTGAACGGCAAGACTGCTTTTCATCAGGA
 ACAAGGACATCAGCTATTAAGAAGCATTAGATACTTTCCCTTAAGGCAAGAGTGGACT
 GAGGGTATTTTTCTCTTTGCGGAAAAGCGGTTGAGATGAAATGGTTTGCAGACCGGGG
 ACACAGTGTAGTTGGTGTGGAATCAGTGAACCTGGGATACAAGAATTTTTTACAGAGCA
 GAATCTTTCTTACTCAGAAGAACCAATCACCGAAATTCCTGGAACCAAAGTATTTAAGAG
 TTCTTCGGGGAACATTTTCATTGTACTGTTGCAGTATTTTTGATCTTCCCAGGACAAATAT
 TGGCAAATTTGACATGATTTGNGATAGAGGAGCATTAGTTGCCATTAATCCAGGTGATCG
 CAAATGCTATGCAGATACAATGTTTTCCCTCCTGGGAAAGAAGTTTCAGTATCTCCTGTG
 TGTTCTTTCTTATGATCCAATAACATCCACGTCCACCATTTTATGTTCCACATGCTGA
 AATTGAAAGGTTGGTTGGTAAAATATGCAATATACGTTGCTTGGAGAAAGTTGATGCCCT
 CTGAAAGACGACATAAAAGCTGGGGAATTGACTGTCTTTTTTGAAGTATATCTACTCCA
 GCAAAGTAAATGAGCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000367 unedited
 GCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTTCTTTTGGAGACAGAGTCTTGCTC
 TGTTGCCAGGCTGGCGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCTCCTAG
 GTTCAAGTGATTCTCCTGCCTCAGCCTCCAAGCAGCTGGGATTACAGGCACGTGCCACC
 ACGCCTGGCTAATTTTTTTGTATTTTTAGTAGAGACGGGGTTGCTTTTCTATTCCAAGT
 CCAAAAGCCTATGAAGAGGGCCAGCGCAATGGCTCATACCTGTAATCCTAGCACTTTGGG
 TGGCCAAGACAGGAGGACTGCTTGAGGCCTCACGTCAAGTTCAACATCAGCGTGGGCAAC
 AAAGTGAGACCCTGTCTCTACATAAAAAGTAAAATCAAAGTCTCTGGAGAGAATTGTGTT
 GGTCCAGCTCGGGTTAGTTGTCCATTCAACCGGTGATACAGGCAGAGTTGGGGAGTCATG
 GCTTCTGAAGCCACAGTATCGACTGGGAGCAGGTCTCAGAGAAGCAAGAATCACTGTGA
 GCAAGGAGTTGCTTCAAATTAATAGCCTTACAAATCTATTAGAATACATCGATGGCAGAG
 AGCTTCTAGGGTAGAAGTTTGTACATGCAGGCCAAGGGGAAGTAAAGGGGACCCCAAACCTTGA
 ATATCTCTGGNGAGAGTACCGTAGCTTTTACCAGTGTTAAGGGGACCCCAAACCTTGA
 TTNAACACCTTNTAGCCAGCACATGTGCGTGATGCGTGACACACACGTAACCTCGTTT
 TTTATAATACACACCCATCCTTATAACATGAGCTAAANCATCTAAACCATTTTATGTTGTG
 GGTAGTACAGAGTTATAGAGGACTGTCTGATATACAAATGTTGGTAAAGAAGACTGANAA
 ATCTACCTTTTTCATAATAACAGCCTGAATCCAGCTCTAGTACATTATTTTATAGACCG
 GTGATTTAAAACGATTAATTTNANAAACAACANTNGCCNACTCAAAGAACTTAAN

Restriction Sites:

NotI-NotI

ACCN:

NM_000367

Insert Size:

2970 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:	<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_000367.2 , NP_000358.1
RefSeq Size:	3258 bp
RefSeq ORF:	738 bp
Locus ID:	7172
UniProt ID:	P51580
Cytogenetics:	6p22.3
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - other enzymes
Gene Summary:	<p>This gene encodes the enzyme that metabolizes thiopurine drugs via S-adenosyl-L-methionine as the S-methyl donor and S-adenosyl-L-homocysteine as a byproduct. Thiopurine drugs such as 6-mercaptopurine are used as chemotherapeutic agents. Genetic polymorphisms that affect this enzymatic activity are correlated with variations in sensitivity and toxicity to such drugs within individuals, causing thiopurine S-methyltransferase deficiency. Related pseudogenes have been identified on chromosomes 3, 18 and X. [provided by RefSeq, Aug 2014]</p>