

Product datasheet for **MC204307**

Tpmt (NM_016785) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tpmt (NM_016785) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tpmt
Synonyms: AW106912
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC021598

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GGCACTGGAGACCAACCTCAGAGACAAAAATTGTCTACAACCCGTGGATGGTACCATGTCCCTTGATA
TGAAAGAGCACCTGATGCTGAGGTACAAAAGAACCAAGTACTAACCTGGAAGACTGGAAGAGAAGTG
GGTGACCCGTCACATCTCATTCCATCAGGAGCAAGGGCATCAGCTATTAAGAAGCATTTGGATACATTT
CTTAAAGGCCAGAGTGGACTGCGAGTGTTTTTCCCTCTGTGGAAAAGCCATTGAGATGAAATGGTTCG
CAGATCGGGGCCACACTGTAGTTGGTGTGGAAATCAGTAAAATGGGATTCGGGAATTTTTGCAGAAC
GAATCTTTCTACACAGAAGAACCCTCGCGAAATTGCTGGAGCCAAAGTATTTAAGAGTCTTCAGGG
AGCATTTCCTTACTGCTGCAGCATATTTGATCTTCTAGAGCAAACATTGGCAAGTTTGACAGGATTT
GGGATAGAGGAGCATTAGTGGCTATCAATCCAGGCGATCATGATCGCTATGCAGATATAACTGTCCCT
ACTGAGAAAAGAGTTTCAGTACCTCGTGGCTGTCTTTCTTATGATCCAACAAAACACGCAGGCCACCA
TTTTATGTTCCATCTGCTGAACCTAAAAGTTATTTGGTACAAAATGCAGCATGCAATGCCTTGAAGAGG
TAGACGCTTTGGAAGAAAGGCATAAAGCCTGGGGTCTTGACTACCTTTTTGAAAAATGTATCTCCTTAC
AGAGAAGTAAAACCGCCTGGTAGTGGAGCACACCTTTTATCTCAGCAGGCTAGCCTGGTCTACCAAGTGA
GTTCCAAGACAGCCAGAGAGACCCTATCTGAAAAACCAATAGAAAACCAACCAACCAACCAACCAACCA
CCCAATCAATCCCTGTATGAGTTTTTTGAACAATAAAAATTATGTTGAGGGTAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: RsrII-NotI

ACCN: NM_016785

Insert Size: 723 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).



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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:	<u>BC021598</u> , <u>AAH21598</u>
RefSeq Size:	1006 bp
RefSeq ORF:	723 bp
Locus ID:	22017
UniProt ID:	<u>O55060</u>
Cytogenetics:	13 24.5 cM
Gene Summary:	Catalyzes the S-methylation of thiopurine drugs such as 6-mercaptopurine (also called mercaptopurine, 6-MP or its brand name Purinethol) using S-adenosyl-L-methionine as the methyl donor (PubMed:18484748). TPMT activity modulates the cytotoxic effects of thiopurine prodrugs. A natural substrate for this enzyme has yet to be identified. [UniProtKB/Swiss-Prot Function]