

# NUDT1 cDNA

Catalog Number: ATGD0090

## PRODUCT INFORMATION

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**Catalog number**

ATGD0090

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_945191.1

**Alternative Names**

MTH1

**mRNA Refseq**

NM\_198953.1

**OMIM**

600312

**Chromosome location**

7p22

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

471bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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NuDT1 is an enzyme that hydrolyzes oxidized purine nucleoside triphosphates, such as 8-oxo-dGTP, 8-oxo-dATP, 2-hydroxy-dATP, and 2-hydroxy rATP, to monophosphates, thereby preventing misincorporation of 8-oxo-dGTP into DNA thus preventing A:T to C:G transversions. It is localized mainly in the cytoplasm, with some in the mitochondria, suggesting that it is involved in the sanitization of nucleotide pools both for nuclear and mitochondrial genomes. And this protein expressed at much higher levels in proliferating cells than in resting cells

## DATA

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### Sequence nucleotides

```
ATGGGCGCCT CCAGGCTCTA TACCCTGGTG CTGGTCCTGC AGCCTCAGCG AGTTCTCCTG GGCATGAAAA
AGCGAGGCTT CGGGGCCCGC CGGTGGAATG GCTTTGGGGG CAAAGTGCAA GAAGGAGAGA CCATCGAGGA
TGGGGCTAGG AGGGAGCTGC AGGAGGAGAG CGGTCTGACA GTGGACGCC C TGCACAAGGT GGGCCAGATC
GTGTTTGAGT TCGTGGGCGA GCCTGAGCTC ATGGACGTGC ATGTCTTCTG CACAGACAGC ATCCAGGGGA
CCCCCGTGGA GAGCGACGAA ATGCGCCCAT GCTGGTTCCA GCTGGATCAG ATCCCCTTCA AGGACATGTG
GCCCGACGAC AGCTACTGGT TTCCACTCCT GCTTCAGAAG AAGAAATTCC ACGGGTACTT CAAGTTCCAG
GTTCAGGACA CCATCCTGGA CTACACACTC CGCGAGGTGG ACACGGTCTA G
```

### Transaction Sequence

```
MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVV EGETIEDGAR RELQEESGLT VDALHKVGQI VFEFVGEPEL
MDVHVFTDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV
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