NUDT1 cDNA

Catalog Number: ATGD0090

PRODUCT INFORMATION

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

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

Sequence nucleotides

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

Transaction Sequence

MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVQ EGETIEDGAR RELQEESGLT VDALHKVGQI VFEFVGEPEL
MDVHVFCTDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV