

# NUDT4 cDNA

Catalog Number: ATGD0446

## PRODUCT INFORMATION

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**Catalog number**

ATGD0446

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_061967.3

**Alternative Names**

DIPP2, DIPP2alpha, DIPP2beta, HDCMB47P

**mRNA Refseq**

NM\_019094.5

**OMIM**

609229

**Chromosome location**

12q21

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

543bp

**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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NUDT4 regulates the turnover of diphosphoinositol polyphosphates. The turnover of these high-energy diphosphoinositol polyphosphates represents a molecular switching activity with important regulatory consequences. Molecular switching by diphosphoinositol polyphosphates may contribute to regulating intracellular trafficking. Several alternatively spliced transcript variants have been described, but the full-length nature of some variants has not been determined. Isoforms DIPP2alpha and DIPP2beta are distinguishable from each other solely by DIPP2beta possessing one additional amino acid due to intron boundary skidding in alternate splicing.

## DATA

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### Sequence nucleotides

```
ATGATGAAGTTCAAGCCCAACCAGACGCGGACCTACGACCGCGAGGGCTTCAAGAAGCGGGCGGCGTGCCTGTGCTTCCG
GAGCGAGCAGGAGGACGAGGTGCTGCTGGTGAGTAGCAGCCGGTACCCAGACCAGTGGATTGTCCCAGGAGGAGGAATG
GAACCCGAGGAGGAACCTGGCGGTGCTGCCGTGAGGGAAAGTTTATGAGGAGGCTGGAGTCAAAGGAAAACCTAGGCAGAC
TTCTGGGCATATTTGAGAACCAAGACCGAAAGCACAGAACATATGTTTATGTTCTAACAGTCACTGAAATATTAGAAGATTGG
GAAGATTCTGTTAATATTGGAAGGAAGAGAGAGTGGTTCAAAGTAGAAGATGCTATCAAAGTTCTCCAGTGCATAAACCTG
TACATGCAGAGTATCTGGAAAAGCTAAAGCTGGGTTGTTCCCCAGCCAATGGAAATTCTACAGTCCCTTCCCTTCCGGATAA
TAATGCCTTGTTTGTAAACCGCTGCACAGACCTCTGGGTTGCCATCTAGTGTAAAGATAG
```

### Transaction Sequence

```
MMKFKPNQTR TYDREGFKKR AACLCFRSEQ EDEVLLVSSS RYPDQWIVPG GGMEPEEEPPGGAAVREYEE AGVKGKLGRL
LGIFENQDRK HRTYVYVLTV TEILEDWEDS VNIGRKREWFKVEDAIKVLQ CHKPVHAEYL EKLKLGCSA NGNSTVPSLP
DNNALFVTAA QTSGLPSSVR
```