

# NUDT14 cDNA

Catalog Number: ATGD0418

## PRODUCT INFORMATION

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**Catalog number**

ATGD0418

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_803877.2

**Alternative Names**

UGPP, UGPPase

**mRNA Refseq**

NM\_177533.3

**OMIM**

609219

**Chromosome location**

14q32.33

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

669bp

**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**

## NUDT14 cDNA

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NUDT14 is a UDPG pyrophosphatase that hydrolyzes UDPG to produce glucose 1-phosphate and UMP. UDP-glucose (UDPG) acts as the sugar donor in numerous glycosylation reactions, including those involved in the production of glycogen.

### DATA

#### Sequence nucleotides

```
ATGGAGCGCATCGAGGGGGCGTCCGTGGGCGCTGCGCCGCCTCACCCCTACCTGCGGCCGCTCACGCTGCATTACCGCCA
GAATGGTGCCCAGAAGTCCTGGGACTTCATGAAGACGCATGACAGCGTGACCGTTCTCTTATTCAACTCTTCTCGGAGGAG
CCTGGTGTTGGTGAAGCAGTTCGGGCCAGCTGTGTATGCGGGTGAGGTGGAGCGCCGCTTCCCAGGGTCCCTAGCAGCTG
TAGACCAGGACGGGCCTCGGGAGCTACAGCCAGCCCTGCCCGGCTCAGCGGGGGTGACAGTTGAGCTGTGTGCCGGCCT
CGTGGACCAGCCTGGGCTCTCGCTGGAGGAAGTGGCTTGCAAGGAGGCTTGGGAGGAGTGTGGCTACCACTTGGCCCCCT
CTGATCTGCGCCGGGTGCGCACATACTGGTCTGGAGTGGGACTGACTGGCTCCAGACAGACCATGTTCTACACAGAGGTGA
CAGATGCCCAGCGTAGCGGTCCAGGTGGGGGCCTGGTGGAGGAGGGTGAGCTCATTGAGGTGGTGCACCTGCCCTGGA
AGGCGCCCAGGCCTTTGCAGACGACCCGGACATCCCCAAGACCCTCGGCGTCATCTTTGGTGTCTCATGGTTCCTCAGCCA
GGTGGCCCCAACCTGGATCTCCAGTGA
```

#### Transaction Sequence

```
MERIEGASVG RCAASPYLRP LTLHYRQNGA QKSWDFMKTH DSVTVLLFNS SRRSLVLVKQ FRPAVYAGEV ERRFPGSLAA
VDQDGPRELQ PALPGSAGVT VELCAGLVDQ PGLSLEEVAC KEAWEECGYH LAPSDLRRVA TYWSGVGLTG SRQTMFYTEV
TDAQRSGPGG GLVEEGELIE VVHLPLEGAQ AFADDPDIPK TLGVIFGVSW FLSQVAPNLD LQ
```