

Product datasheet for RC231833

NUDT2 (NM_001244390) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NUDT2 (NM_001244390) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NUDT2
Synonyms: APAH1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC231833 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTGAGAGCATGTGGCTTGATCATCTCCGAAGATGCCTCATTCCCAAAGTGGACAACAATGCAA
TTGAGTTTTACTGCTGCAGGCATCAGATGGCATTCACTGGACTCCTCCCAAAGGCCATGTGGAACC
AGGAGAGGATGACTTGAAACAGCCCTGAGGGAGACCCAAAGAGGAAGCAGGCATAGAAGCAGGCCAGCTG
ACCATTATTGAGGGTTCAAAGGGAATCAATTATGTGGCCAGGAACAAGCCTAAAACAGTCATTTACT
GGCTGGCGGAGGTGAAGGACTATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGGCT
GGGCTGGAGGAGCCTGCCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAAGAAGGACACCAG
TTCTTTGCTCCATAGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231833 protein sequence
Red=Cloning site Green=Tags(s)

MALRACGLIIFRRLIPKVDNNAIEFLLLQASDGIHHWTPPKGHVEPEGDDLETALRETQEEAGIEAGQL
TIIIEGFKRELNYVARNPKPTVIYWLAEVKDYDVEIRLSHEHQAYRWLGLEEACQLAQFKEMKAALQEGHQ
FLCSIEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6048_g10.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001244390

ORF Size: 441 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:
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: [NM_001244390.1](#), [NP_001231319.1](#)

RefSeq Size: 843 bp

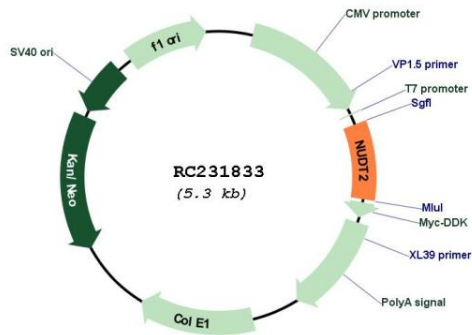
RefSeq ORF: 444 bp

Locus ID: 318

UniProt ID: [P50583](#)
 Cytogenetics: 9p13.3
 Protein Pathways: Purine metabolism, Pyrimidine metabolism
 MW: 16.8 kDa

Gene Summary: This gene encodes a member of the MutT family of nucleotide pyrophosphatases, a subset of the larger NUDIX hydrolase family. The gene product possesses a modification of the MutT sequence motif found in certain nucleotide pyrophosphatases. The enzyme asymmetrically hydrolyzes Ap4A to yield AMP and ATP and is responsible for maintaining the intracellular level of the dinucleotide Ap4A, the function of which has yet to be established. This gene may be a candidate tumor suppressor gene. Alternative splicing has been observed at this locus and four transcript variants, all encoding the same protein, have been identified. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC231833