

Product datasheet for **SC100286**

NUDT2 (NM_147173) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NUDT2 (NM_147173) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NUDT2 |
| Synonyms: | APAH1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_147173, the custom clone sequence may differ by one or more nucleotides |

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ATGGCCTTGAGAGCATGTGGCTTGATCATCTCCGAAGATGCCTCATTCCCAAAGTGGACAACAATGCAA  
TTGAGTTTTTACTGCTGCAGGCATCAGATGGCATTCACTACTGGACTCCTCCCAAAGGCCATGTGGAACC  
AGGAGAGGATGACTTGAAACAGCCCTGAGGGAGACCCAAGAGGAAGCAGGCATAGAAGCAGGCCAGCTG  
ACCATTATTGAGGGTTCAAAGGGAACCAATTATGTGGCCAGGAACAAGCCTAAAACAGTCATTTACT  
GGCTGGCGGAGGTGAAGGACTATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGGCT  
GGGGCTGGAGGAGCCTGCCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAAGAAGGACACCAG  
TTTCTTTGCTCCATAGAGGCCTGA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_147173 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCAAGGTCCGCCTCCTACCTC CTTCTGCTTCGGTGCCTTTGCTTCTGAGGATCTCCAGTGTCAACAACACATGCCAGC CCTGTTTTACAGGGAGCCCTGGAGGAGTTGGGATAGAGGCCACATTGACTGAGGGTAGTT GCCAGGGTCTGCAGTTATACACAAAGTCTTAGGATAAGACCATGGCCTTGAGAGCATG TGGCTTGATCATCTTCCGAAGATGCCTCATTCCCAAAGTGACAACAATGCAATTGAGTT TTTACTGCTGCAGGCATCAGATGGCATTCACTGGACTCCTCCCAAAGGCCATGTGGA ACCAGGAGAGGATGACTTGAAACAGCCCTGAGGAGACCCAAGAGGAAGCAGGCATAGA AGCAGGCCAGCTGACCATTATTGAGGGTTCAAAGGGAAGTCAATTATGTGGCCAGGAA CAAGCCTAAAACAGTCATTTACTGGCTGGCGGAGGTGAAGGACTACTGACGTGGAGATCC GCCTCTCCATGAGCACCAAGCCTACCGCTGGCTGNGGCTGGGAGGAGGCCTGCCAGTGG GCTCAGTTC AAGGAGATGAAGGCAGCGCTCCAAGAATGACACCATGTTTCTTTGCTCCAT AGAGGCCTGAGCTGACTGGAGCAGAGTCATTTGCTTCAGCAGATCCCTTTGTGGCCTTC TAAGATGAAGCACCTCAGCAGGAAAAAGGTGCGCCTGGATATTGGGCTCATGACAGCC AGAGCCAGATTTGGAAATCCGCTCACTCCCAGGTGAGAGCAGCAAAATCTGGCTGGCGG GAAAGGAAGGCAATGATTAATTTATAGCCAGCCCCGAAGGGCACCTGCGCTTATAA TTAACCC AAGCAGCTCAAAAAAAAAAAAACTGCTCTGAATGGGGCGCGGCATAGTGTT TCTGAAACACCCGTGGGATCCT</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_147173 unedited TATTCTATGNACCGCGCCGATTCTANGATCAGTTTTTTTTTTTTTTTTTTTGGAGCTGCTT GAGGTTTTATTTATAAAGTACAAGGTACACTTACTGGCCTTGGCTTTTTAATTTTACTC TTTTGCCTTCCTTCCACCCAGCCAAGATTTTGTGCTCTCACCTGGGAGTTGAGCCG ATTTACAAATCTGCTCTTGGCTGTCATGAGCCAATACCAGCACAACTTCCCTGGACC TGAGGGTGGCTTCATCTTAGAAGGCCCAAGGATCCTGCTGAAGCAAATGACTCTGCTC CAGTCAGCTCAGGCCTCTATGGAGCAAAGAACTGGTGTCTTCTTGGAGCGCTGCCTTC ATCTCCTTGAAGTGAAGCAACTGGCAGGCCTCCTCCAGCCCCAGCCAGCGGTAGGCTTGG TGCTCATGGGAGAGGCGGATCTCCACGTCATAGTCCTTACCTCCGCCAGCCAGTAAATG ACTGTTTTAGGCTTGTCTGCGCACATAATTGAGTTCCTTTTGAACCCCTCAATAATG GTCAGCTGGCCTGCTTCTATGCCTGCTTCTTGGGTCTCCCTCAGGGCTGTTTCCAAG TCATCCTCTCCTGTTCCACATGGCCTTTGGGAGGAGTCCAGTGATGAATGCCATCTGAT GCCTGCAGCAGTAAAACTCAATTGCATTGTTGTCCACTTTGGGAATGAGGCATCTTCGG AAGATGATCAAGCCACATGCTCTCAAGCCATGGTCTTATCCTAAAGACTTTGTGTATAAC TGCAGGACCTGGCCACTACCCTCAGTCAATGTGGCCTCTATCCCAACTCTCCAGGGCTC CTGTAAAAGGGCTGGCATGTGTTTGTGTGACTGAGATCCTCAAACCAACGCCCGA AACAAAGGAGGTAGGAGCCGCCCTTGTCTCTGCCGAAATCCCGCCGCC</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_147173 |
| Insert Size: | 1000 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_147173.1](#), [NP_671702.1](#)

RefSeq Size: 947 bp

RefSeq ORF: 444 bp

Locus ID: 318

UniProt ID: [P50583](#)

Cytogenetics: 9p13.3

Domains: NUDIX

Protein Pathways: Purine metabolism, Pyrimidine metabolism

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]

Transcript Variant: This variant (3) lacks a 5' non-coding exon, compared to variant 1. All four variants encode the same protein.