

Product datasheet for **SC119427**

NUDT2 (NM_001161) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT2 (NM_001161) 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:	>OriGene ORF within SC119427 sequence for NM_001161 edited (data generated by NextGen Sequencing) ATGGCCTTGAGAGCATGTGGCTTGATCATCTTCCGAAGATGCCTATTCCCAAAGTGGAC AACAAATGCAATTGAGTTTTTACTGCTGCAGGCATCAGATGGCATTCACTGGACTCCT CCCAAAGGCCATGTGGAACAGGAGAGGATGACTTGAAACAGCCCTGAGGGAGACCCAA GAGGAAGCAGGCATAGAAGCAGGCCAGCTGACCATTATTGAGGGTTCAAAGGGAATC AATTATGTGGCCAGGAACAAGCCTAAAACAGTCATTTACTGGCTGGCGGAGGTGAAGGAC TATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGGCTGGGGCTGGAG GAGGCCTGCCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAAGAAGGACACCAG TTTCTTTGCTCCATAGAGGCCTGA

Clone variation with respect to NM_001161.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001161 unedited
 TGTAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGCCTCCTTCTGCTTCGG
 TGGTTTGTCTTCTGAGGATCTCCAGTGTCAACAACACATGCCAGCCCTGTTTACAG
 GGAGCCCTGGAGGAGTTGGGATAGAGGCCACATTGACTGAGGGTAGTTGCCAGGGTCTG
 CAGTTATACACAAAGTCTTAGGATAAGACCATGGCCTTGAGAGCATGTGGCTTGATCAT
 CTTCCGAAGATGCCTCATTCCCAAAGTGGACAACAATGCAATTGAGTTTTACTGCTGCA
 GGATCAGATGGCATTCACTGACTCCTCCCAAAGGCCATGTGGAACAGGAGAGGA
 TGACTTGGAAACAGCCCTGAGGGAGACCCAAGAGGAAGCAGGCATAGAAGCAGGCCAGCT
 GACCATTATTGAGGGTTCAAAAGGGAACCTCAATTATGTGGCCAGGAACAAGCCTAAAAAC
 AGTCATTTACTGGCTGGCGGAGGTGAAGGACTATGACGTGGAGATCCGCCTCTCCATGA
 GCACCAAGCCTACCGCTGGCTGGGGCTGGAGGAGCCTGCCAGTTGGCTCAGTTAAGGAG
 ATGAAGGCAGCGCTCCAAGAAGGACACCAGTTTCTTTGCTCCATAGAGGCCTGAGCTGAC
 TGGAGCAGAGTCATTTGCTTAGCANGATCCTTGTGGCCTTCTAGATGAAGCCACCCTCA
 GTCAGGGAAGGTTGTGCTGGTATTTGGCTCATGACAGCCAGAGCAGATTTGTGAAATCN
 GGCTCACTCCAGNTGAGAAGCAGCAAAATCTTGGCTGGNTGGAAAAGGAGGCAAGAGTA
 AATTTAAAGGCCAGCCAANNAAGTGAACCTTGACTTATAAATAAACTCCAGCAGCTCA
 AAAAAAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001161 unedited
 CGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTGTAGCTGCTTGAGGTTTATTTATAAA
 GTACAAGGTACACTTACTGGGCTGGCCTTTTAAATTTTACTCTTTGCCTTCCTTTCC
 ACCCAGCCAAGATTTTGTCTGCTCTCACCTGGGAGTTGAGCCGATTTACAAATCTGCT
 CTTGGCTGTCATGAGCCAAATACCAGCACAACTTCCCTGGACCTGAGGGTGGCTTCATC
 TTATAAGGCCCAAGGATCCTGCTGAAGCAAATGACTCTGCTCCAGTCAGCTCAGGCCT
 CTATGGAGCAAAGAACTGGTGTCTTCTTGAGCGCTGCCTTCATCTCCTTGAAGTGAAG
 CCAACTGGCAGGCCTCCTCCAGCCCAGCCAGCGGTAGGCTTGGTGTCTATGGGAGAGGC
 GGATCTCCACGTATAGTCCTTCACCTCCGCCAGCCAGTAAATGACTGTTTTAAGCTTGT
 TCCTGGCCACATAATTGAGTTCCTTTTGAACCCCTCAATAATGGTCAGCTGGCCTGCTT
 CTATGCCTGCTTCTTCTTGGGTCTCCCTCAGGGCTGTTTCCAAGTCATCTCTCTGGTT
 CCACATGGCCTTTGGGAGGAGTCCAGTGATGAATGCCATCTGATGCCTGCAGCAGTAAAA
 ACTCAATTGCATTGTTGTCCACTTTGGGAATGATGCATCTTTCGGAGATGATCAAGCCAC
 ATGCTCTCAAGGCCATGTNCTATTCTAAAGACTTTGTGTATAACTGCAAGACCCTGGCAA
 CTACCCTCAGTCAATGTGGGCCTCTATCCCAACTCCTNCAAGGGCTCCCTGTAAACAGGNN
 CTGCATGTTGTTNGTGTGACCTGGAGACCTCANAAACAAACGCCAGCAGCANAAGGAG
 GCCTCTGCCGATTCCCGGCCGCCCTATAGGAGTCGATTACAAATNCTGACGGTCACTAA
 CGAGCTCTGCTATATGACTCCACCGTACCGCCTACCGCCATTGGTAACGG

Restriction Sites:

NotI-NotI

ACCN:

NM_001161

Insert Size:

920 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_001161.3](#), [NP_001152.1](#)

RefSeq Size: 1060 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 (1) is the full-length transcript. All four variants encode the same protein.