

## Product datasheet for **SC108939**

### NUDT2 (NM\_147172) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT2 (NM_147172) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUDT2
Synonyms:	APAH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_147172 edited ATGGCCTTGAGAGCATGTGGCTTGATCATCTTCCGAAGATGCCTATCCCAAAGTGGAC AACAAATGCAATTGAGTTTTTACTGCTGCAGGCATCAGATGGCATTCACTGGACTCCT CCCAAAGGCCATGTGGAACCAGGAGAGGATGACTTGAAACAGCCCTGAGGGAGACCCAA GAGGAAGCAGGCATAGAAGCAGGCCAGCTGACCATTATTGAGGGTTCAAAGGGAACTC AATTATGTGGCCAGGAACAAGCCTAAAACAGTCATTTACTGGCTGGCGGAGGTGAAGGAC TATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGGCTGGGGCTGGAG GAGGCCTGCCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAAGAAGGACACCAG TTTCTTTGCTCCATAGAGGCCTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_147172 unedited TCGGACCAGACCATGGCCTTGAGAGCATGTGGCTTGATCATCTTCCGAAGATGCCTCATT CCCAAAGTGGACAACAATGCAATTGAGTTTTTACTGCTGCAGGCATCAGATGGCATTCA CACTGGACTCCTCCCAAAGGCCATGTGGAACCAGGAGAGGATGACTTGAAACAGCCCTG AGGGAGACCCAAGAGGAAGCAGGCATAGAAGCAGGCCAGCTGACCATTATTGAGGGTTT AAAAGGGAACCAATTATGTGGCCAGGAACAAGCCTAAAACAGTCATTTACTGGCTGGCG GAGGTGAAGGACTATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGG CTGGGGCTGGAGGAGGCCTGCCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAA GAAGGACACCAGTTTCTTTGCTCCATAGAGGCCTGAGCTGACTGGAGCAGAGTCATTTGC TTCAGCAGGATCCTTGTGGGCCTTCTAGATGAAGCCACCCTCAGTCCAGGGAAGGGTGT GCTGGTATTTGGCTCATGACAGCCAAGAGCAGATTTGTGAAATCGGCTCAACTCCCAGGT GAGAGCAAGCANAAATCTTGGCTGGGGTGAAGGAAGGCAAAAAGAGTAAAAATAAAAAG CCAGGCCAGTAAGTGTACCCTGTACTTTATAATTAANTCAAGCAGCTCCAAANAAAAA ANNANNNNNAAAAANNANNNAAAAAANAAAAAANAAAAAANAAAAAANAAAAAANAAAAA TA
Restriction Sites:	NotI-NotI



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ACCN:	NM_147172
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:	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_147172.1</a> , <a href="#">NP_671701.1</a>
RefSeq Size:	989 bp
RefSeq ORF:	444 bp
Locus ID:	318
UniProt ID:	<a href="#">P50583</a>
Cytogenetics:	9p13.3
Domains:	NUDIX
Protein Pathways:	Purine metabolism, Pyrimidine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site on a 5' non-coding exon, compared to variant 1. All four variants encode the same protein.</p>