

Product datasheet for SC112300

NUDT9 (NM_024047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT9 (NM_024047) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUDT9
Synonyms:	NUDT10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112300 sequence for NM_024047 edited (data generated by NextGen Sequencing)

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ATGGCGGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTGTCTCTCTCTGGCCTTGGCC
TCTGTGACTATCAGGTCCTCGCGCTGCCGCGCATCCAGCGTTTCAAGAACTCGTTTTCA
TCTTCTGGTTTCATCTTAATACCAACGCATGTCTGGTTCTAATGGTTCCAAAGAAAAT
TCTCACAATAAGGCTCGGACGTCTCCTTACCCAGGTTCAAAGTTGAACGAAGCCAGGTT
CCTAATGAGAAAGTGGGCTGGCTTGTGAGTGGCAAGACTATAAGCCTGTGGAATACACT
GCAGTCTGTCTTGGCTGGACCCAGGTGGCAGATCCTCAGATCAGTAAAAGTAAATTTT
TCTCCCAAGTTTAAACGAAAAGGATGGGCATGTTGAGAGAAAGAGCAAGAATGGCCTGTAT
GAGATTGAAAATGGAAGACCGAGAAATCCTGCAGGACGGACTGGACTGGTGGCCGGGGG
CTTTTGGGGCGATGGGGCCAAATCACGCTGCAGATCCCATTATAACCAGATGAAAAGG
GATAGCAGTGGAATAAAATCATGCATCCTGTTTCTGGGAAGCATATCTTACAATTTGTT
GCAATAAAAAGGAAAGACTGTGGAGAATGGGCAATCCCAGGGGGGATGGTGGATCCAGGA
GAGAAGATTAGTGCCCACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAG
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CACCTAGTGATATATAAGGGATATGTTGATGATCCTCGAAACACTGATAATGCATGGATG
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GAAGCTGGAGATGATGCTGAAAAAGTAAATGGGTGGACATCAATGATAAACTGAAGCTT
TATGCCAGTCACTCTCAATTCATAAACTTGTGGCTGAGAAACGAGATGCACACTGGAGC
GAGGACTCTGAAGCTGACTGCCATGCGTTGTAG

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Clone variation with respect to NM_024047.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024047 unedited
CACATTATGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGCCTCGTGCCGAA
TTCCGGCACGAGGATTTATAGATAGGCACAGCTACTCCCGTTTCGGGAACCCAACGGCAGAC
AGGTCCTAGTGCCCATCAGATACCCGCGCCGGGACTCGGAGCTGTGGGTGTGGGGAGG
CGGAGGCACCAACTAAGAGCGACCTAGCATCGCAAAGCCGCCCTCGGGCGCTCATGGCG
GGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTCTCTCTCTCTGGCCTTGGCCTCTGTG
ACTATCAGGTCCTCGCGCTGCCGCGGCATCCAGGCGTTCAGAACTCGTTTTTCATCTTCT
TGGTTTCATCTTAATACCAACGTATGTCTGGTTCTAATGGTTCCAAAGAAAATTCTCAC
AATAAGGCTCGGACGTCTCCTTACCCAGGTTCAAAGTTGAACGAAGCCAGGTTCTAAT
GAGAAAGTGGGCTGGCTTGTGAGTGGCAAGACTATAAGCCTGTGGAATACACTGCAGTC
TCTGTCTTGGCTGGACCCAGGTGGGCAGATCCTCAGATCAGTGAAGTAATTTTTCTCCC
AAGTTTAAACGAAAAGGATGGGCATGTTGAGAGAAAGAGCAAGAATGGCCTGTATGAGATT
GAAAATGGAAGACCGAGAAATCCTGCANGACGGACTGGACTGGTGGGCCGGGGCTTTTG
GGCGATGGGGCCAAATCACGCTGCAGATCCCATTANTACCAGATGGGAAAGGGATAGC
AGTGGAAAATAAATCATGCATCCTGTTTCTGGGGAGCATATCTTACATTNTNNGTGCCAT
AAAGGAAAGACTGTGGAGAAATGGCAATCCCAGGNGGATGGTGGATCCAGNAGAGAAGA
TAGTGCCCACTTGAAAGAGATTGGTGAGGAGCTCTCACTCCTACAGAAACAGTGCTGA
AAGAGAAAATAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024047 unedited
GATCCTTTACAANATTTATCCTTTTTCTGNNTATGATTCTTCAAGNAGCTTAGTTGTTTA
AATTTAATTTAAGCCATGCTTAAATCGAATACATACAAAATATGATTACTTATATTCCTT
TTGACCAAGAGCTGAAAATTTGTGTTCCAGTTCATCTTACTCATGTTATTCTGATGCG
AAACACTCTAAATGCAAATGTTTTGAAAGTAAATAGGCCAAGTGGCCTACCCTGCCCTT
TTTATAGTATAAATCTGTGATACTGCCTTCTTTTCAGTATATGCTCCTCTGTGGGCCTT
TGGCTTACACGGAGACCATCAGCTACAACGCATGGCAGTCAGCTTCCAGAGTCCCTCGCTCC
AGTGTGCATCTCGTTTCTCAGCCACAAGTTTGATGAATTGAGAGTGACTGGCATAAAGCT
TCAGTTTATCATTGATGTCCACCATTTCACTTTCCAGCATCATCTCCAGCTTCTAGCA
TAAGATTATCCATTATCTCACCTGTTTCGTCATGGTAGTTCACAGCTTCTGTCTCCATCC
ATGCATTATCAGTGTTCGAGGATCATCAACATATCCCTTATATATCACTAGTGGTCTT
GGCTGAAGAGTGTGCAACTTTTCCTCTATTTCTCTCTTCTCAGCACTGGTTTTTCTGTA
AGGAGTTGAGAGCTTCTCACCAAATTCTNTTCAGTGTGGCACTAATCTTCTCTCCTG
GATCCACCATCCCCCTGGGATTGCCATTCTCCACAGTCTTTCCTTTNTATTGNACAN
ATTGTAAGATATGCTTCCGAGAACAGGATGCATGATTNTATTTCCACTGTATCCCTTTT
CCATCTGGTTATAATGGGATCTGCAGCGTGATTTGGGCCNATCGNCCAAAAGCCCCGG
NCCACCAGTCCAGTCCGTCCTGCAGGATTA

Restriction Sites:

NotI-NotI

ACCN:

NM_024047

Insert Size:

1650 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">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_024047.3 , NP_076952.1
RefSeq Size:	1716 bp
RefSeq ORF:	1053 bp
Locus ID:	53343
UniProt ID:	Q9BW91
Cytogenetics:	4q22.1
Domains:	NUDIX
Protein Families:	Druggable Genome, Ion Channels: Other
Protein Pathways:	Purine metabolism
Gene Summary:	<p>The protein encoded by this gene belongs to the Nudix hydrolase family. Nudix boxes are found in a family of diverse enzymes that catalyze the hydrolysis of nucleoside diphosphate derivatives. This enzyme is an ADP-ribose pyrophosphatase that catalyzes the hydrolysis of ADP-ribose to AMP and ribose-5-P. It requires divalent metal ions and an intact Nudix motif for enzymatic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (1, also known as NUDT9 alpha) represents the predominant transcript, and encodes the longest isoform (a). This isoform is localized in the mitochondria (PMID:12427752).</p>