

Product datasheet for **SC111763**

NUDT4 (NM_019094) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT4 (NM_019094) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUDT4
Synonyms:	DIPP-2B; DIPP2; DIPP2alpha; DIPP2beta; HDCMB47P; NUDT4B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111763 sequence for NM_019094 edited (data generated by NextGen Sequencing) ATGATGAAGTTCAAGCCCAACCAGACGCGGACCTACGACCGCGAGGGCTTCAAGAAGCGG GCGGCGTGCCCTGTGCTTCCGGAGCGAGCAGGAGGACGAGGTGCTGCTGGTGAGTAGCAGC CGGTACCCAGACCACTGGATTGTCCAGGAGGAGGAATGGAACCCGAGGAGGAACCTGGC GGTGCTGCCGTGAGGGAAGTTTATGAGGAGGCTGGAGTCAAAGGAAAAGTAGGCAGACTT CTGGGCATATTTGAGAACCAAGACCGAAAGCACAGAACATATGTTTATGTTCTAACAGTC ACTGAAATATTAGAAGATTGGGAAGATTCTGTTAATATTGGAAGGAAGAGAGAGTGGTTC AAAGTAGAAGATGCTATCAAAGTTCTCCAGTGTCTATAACCTGTACATGCAGAGTATCTG GAAAAGCTAAAGCTGGGTTGTTCCCGAGCCAATGGAATTTCTACAGTCCCTTCCCTCCG GATAATAATGCCTTGTTTGTAAACCGCTGCACAGACCTCTGGGTTGCCATCTAGTGAAGA TAG Clone variation with respect to NM_019094.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_019094 unedited <pre> TTTGTAAATACGACTCACTATAGGGGCGGCCGGAATCGGCACGAGGCCGACCGACTAGC GCTCCCGGGCGCTCCTGCGCCCGACTCGCCCTCGCCCCACTCCCGGCGGGGTGGCGGC GGCCGGGCCCCACGGCGGGCGGCCGAGCAGCAGCAGCAGCAGGAGCCCCGCCTCTAT GATGAAGTTCAAGCCCAACCAGACGCGGACCTACGACCGCGAGGGCTTCAAGAAGCGGGC GGCGTGCCTGTGCTTCCGAGCGAGCAGGAGGACGAGGTGCTGCTGGTGAAGTAGCAGCCG GTACCCAGACCACTGGATTGTCCAGGAGGAGGAATGGAACCCGAGGAGGAACCTGGCGG TGCTGCCGTGAGGGAAGTTTATGAGGAGGCTGGAGTCAAAGGAAAACTAGGCAGACTTCT GGGCATATTTGAGCAGAACCAAGACCGAAAGCACAGAACATANTGTTTATGTTCTAACAG TCACTGAAATATTAGAAGATTGGGAAGATTCTGTTAATATTGGAAGGAAGAGAGGAGTG TTCAAAGTAGAAGATGCTATCAAAGTTCTCCAGTGTCAAAACCTGTACATGCAGAGTAT CTGGAAGCTAAGCTGGGGGTTGTTCCCGAGCCATGGAATTTCTACAGTCCCTTCCCTTC CGGATATAATGCCCTTTGTTTGAACCGCTGCAAGACCTNNTTGGGGTGGCATCTAGTG GTAGATAGAGAACTGGGGGGTAGGCCTCTCCACATGTGCAGCTATGGGGGAGAGCTN NCNNTTCTGTTNCTCGTCAAATCTGATGGACGCTGCAACTGGCTGAATTGCTGGGCAAGGT TTCAACATTTGCCTTGTTTTTCAGAGCTTCAAA </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_019094 unedited <pre> CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATTTTTTCCATTTTAT TTGATGTTTCAAATATAAAAAATCAGGATTCTTACATCAATTATCTCAAATGAGACCAT GCAAAGCAATTCAGTGTATACAACATCATTTTTCCCTTCAGTTCTGCTGCTTTATACA ACAGTGTGATTGACAGAAAATTGGATGGCATGTGCCTGGTCAGAAAATGTCATCTGTTTA CAAAATAACATCATGCAGCACAGTTTCTACTTTGTCTGCAAGTCAATTCACAAAACTAC TTATTTTCTGTTTTTATTTGGGAGGCACATGGAAGTAAAAAATTTAGCTGCCCAATTTT ATTCAACTACCCACCAAAAAAAAAAAAAAAAAAATCACAAATGACAGTCCCAACACTCTG CAAATTTTGGAGGGTTGAGATAGTAGACACTATTTGTCATACTCAGCAGAGTTAACTATT TAACAGAAATAAATCTCCCTAGGGCCTTTCTCTCATTTTGTAGACTGGGTTCCAGGAG AATCGTGAAGAACCCTCATGTAAATTTGAAGTGTGAAAATGTGTTGTTGCATTATGC AGATTTTGTCTAGTTGCATAGACTAAAGACGTTTTGCTAAATGGCACTGAAAATCCTTAC CGAGTGTCACTATTCACTCAAGTGTCTTGACCAAAGAAAATATACCACANTATTTAT AGGCTAACTTTAAAGAGATGGTTTGACGTAATACTGTACATATNTACATGTCAAATACA TAGNTCCAAGAGTTATTAATAAATTCATGCATCATTACCTTNATACCTCTAGAATATC ATGTACAGAATGGCACTCCCCACCCCCATACTTAGACAGCATTTCAGTGGAAGCAGTC TTATTACAAAACAATCAGNTCTCTGCTATGTAGTTATATTTAGGAANTTCAGAATACTGA CAAAAAATCTATTCATGAGATGAAGGCATTGGGGATTAAATGTNCTTATAAGACC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_019094
Insert Size:	3460 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:	<u>NM_019094.3, NP_061967.3</u>
RefSeq Size:	7836 bp
RefSeq ORF:	4812 bp
Locus ID:	11163
UniProt ID:	<u>Q9NZJ9</u>
Cytogenetics:	12q22
Domains:	NUDIX
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene regulates the turnover of diphosphoinositol polyphosphates. The turnover of these high-energy diphosphoinositol polyphosphates represents a molecular switching activity with important regulatory consequences. Molecular switching by diphosphoinositol polyphosphates may contribute to regulating intracellular trafficking. Several alternatively spliced transcript variants have been described, but the full-length nature of some variants has not been determined. Isoforms DIPP2alpha and DIPP2beta are distinguishable from each other solely by DIPP2beta possessing one additional amino acid due to intron boundary skidding in alternate splicing. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) uses an alternate in-frame splice site in the 5' coding region, compared to variant 2. The encoded protein is the predominant isoform (alpha), and is shorter than isoform beta. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.