

Product datasheet for **RG204100**

NUDT4 (NM_019094) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NUDT4 (NM_019094) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NUDT4
Synonyms: DIPP-2B; DIPP2; DIPP2alpha; DIPP2beta; HDCMB47P; NUDT4B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204100 representing NM_019094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGAAGTTCAAGCCCAACCAGACGCGGACCTACGACCGCGAGGGCTTCAAGAAGCGGGCGGCGTGCC
 TGTGCTTCCGAGCGAGCAGGAGGACGAGGTGCTGCTGGTGAGTAGCAGCCGTACCCAGACCACTGGAT
 TGTCCCAGGAGGAGGAATGGAACCCGAGGAGGAACCTGGCGGTGCTGCCGTGAGGGAAGTTTATGAGGAG
 GCTGGAGTCAAAGGAAAAGTCTAGGAGACTTCTGGGCATATTTGAGCAGAACCAAGACCGAAAGCACAGAA
 CATATGTTTATGTTCTAACAGTCACTGAAATATTAGAAGATTGGGAAGATTCTGTTAATATTGGAAGGAA
 GAGAGAGTGGTTCAAAGTAGAAGATGCTATCAAAGTTCTCCAGTGCATAAACCTGTACATGCAGAGTAT
 CTGGAAAAGCTAAAGCTGGGTTGTTCCCGAGCCAATGGAATTCTACAGTCCCTTCCCTTCCGGATAATA
 ATGCCTTGTGTTGTAACCGCTGCACAGACCTCTGGGTTGCCATCTAGTGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204100 representing NM_019094
 Red=Cloning site Green=Tags(s)

MMKFKPNQTRTYDREGFKKRAACLFRSEQEDEVLLVSSSRYPDQWIVPGGMEPEEEPPGGAAREVYEE
 AGVKGKLGRLGIFEQNQDRKHRTYVYVLTVTEILEDWEDSVNIGRKREWFKVEDAIKVLQCHKPVHAEY
 LEKLGKSPANGNSTVPSLPDNNALFVTAAQTSGLPSSVR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_019094

ORF Size: 543 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019094.2](#)

RefSeq Size: 4810 bp

RefSeq ORF: 543 bp

Locus ID: 11163

UniProt ID: [Q9NZJ9](#)

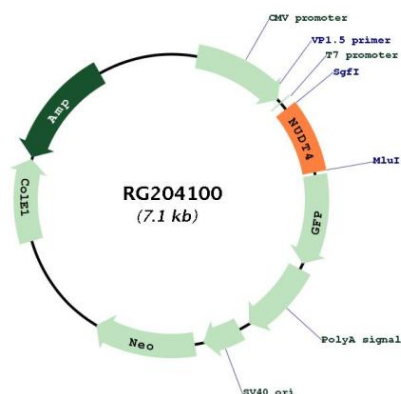
Cytogenetics: 12q22

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]

Product images:



Circular map for RG204100