

Product datasheet for RC235865

NUDT4 (NM 001301024) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NUDT4 (NM_001301024) Human Tagged ORF Clone

Tag: Myc-DDK NUDT4 Symbol:

Synonyms: DIPP-2B; DIPP2; DIPP2alpha; DIPP2beta; HDCMB47P; NUDT4B

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC235865 representing NM_001301024 Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAACCCGAGGAGGAACCTGGCGGTGCTGCCGTGAGGGAAGTTTATGAGGAGGCTGGAGTCAAAGGAA AACTAGGCAGACTTCTGGGCATATTTGAGAACCAAGACCGAAAGCACAGAACATATGTTTATGTTCTAAC GAAGATGCTATCAAAGTTCTCCAGTGTCATAAACCTGTACATGCAGAGTATCTGGAAAAGCTAAAGCTGG

TGCACAGACCTCTGGGTTGCCATCTAGTGTAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC235865 representing NM_001301024 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MEPEEEPGGAAVREVYEEAGVKGKLGRLLGIFENODRKHRTYVYVLTVTEILEDWEDSVNIGRKREWFKV

EDAIKVLQCHKPVHAEYLEKLKLGCSPANGNSTVPSLPDNNALFVTAAQTSGLPSSVR

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



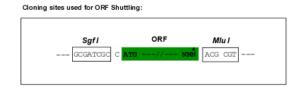
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

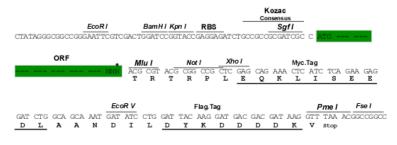
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



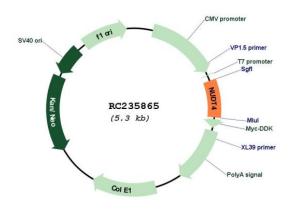
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001301024

ORF Size: 384 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



NUDT4 (NM_001301024) Human Tagged ORF Clone - RC235865

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.

RefSeq: <u>NM 001301024.2</u>

 RefSeq Size:
 4457 bp

 RefSeq ORF:
 387 bp

 Locus ID:
 11163

 UniProt ID:
 Q9NZJ9

 Cytogenetics:
 12q22

Protein Families: Druggable Genome

MW: 14.7 kDa

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]