

## Product datasheet for **RC235877**

### NUDT4 (NM\_001301022) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product Name:             | NUDT4 (NM_001301022) Human Tagged ORF Clone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tag:                      | Myc-DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Symbol:                   | NUDT4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Synonyms:                 | DIPP-2B; DIPP2; DIPP2alpha; DIPP2beta; HDCMB47P; NUDT4B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mammalian Cell Selection: | Neomycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Vector:                   | pCMV6-Entry (PS100001)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ORF Nucleotide Sequence:  | <p>&gt;RC235877 representing NM_001301022</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC<b>CGATCGCC</b></p> <p>ATGGAACCCGAGGAGGAACCTGGCGGTGCTGCCGTGAGGGAAGTTTATGAGGAGGCTGGAGTCAAAGGAA<br/>       AACTAGGCAGACTTCTGGGCATATTTGAGCAGAACCAAGACCGAAAGCACAGAACATATGTTTATGTTCT<br/>       AACAGTCACTGAAATATTAGAAGATTGGGAAGATTCTGTTAATATTGGAAGGAAGAGAGAGTGGTTCAA<br/>       GTAGAAGATGCTATCAAAGTTCTCCAGTGCATAAACCTGTACATGCAGAGTATCTGGAAAAGCTAAAGC<br/>       TGGGTTGTTCCCGAGCAATGGAAATTCTACAGTCCCTTCCCTCCGGATAATAATGCCTTGTGTTGAAC<br/>       CGCTGCACAGACCTCTGGGTTGCCATCTAGTGAAGA</p> <p><b>ACGCGT</b>ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br/>       ACAAGGATGACGACGATAAGGTTTAA</p> |
| Protein Sequence:         | <p>&gt;RC235877 representing NM_001301022</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MEPEEPPGGAAVREYEEAGVKGLGRLLGIFEQNQDRKHRTYVYVLTVTEILEDWEDSVNIGRKREWFK<br/>       VEDAIVLQCHKPVHAEYLEKLKLGCS PANGNSTVPSLPDNNALFVTAQTSGLPSSVR</p> <p><b>TR</b>TRPLEQKLISEEDLAANDILDYKDDDDKV</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Restriction Sites:        | SgfI-MluI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |


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### Cloning Scheme:



ACCN: NM 001301022

ORF Size: 387 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\\_001301022.2](#)

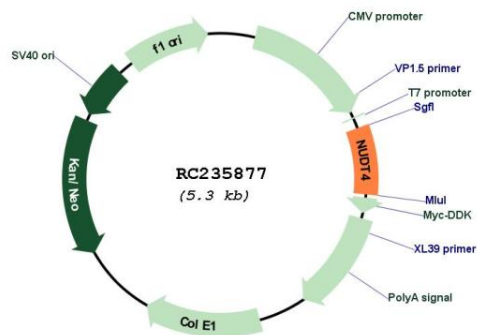
RefSeq Size: 4557 bp

RefSeq ORF: 390 bp  
 Locus ID: 11163  
 UniProt ID: [Q9NZJ9](#)  
 Cytogenetics: 12q22  
 Protein Families: Druggable Genome

MW: 14.8 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]

## Product images:



Circular map for RC235877