

Product datasheet for MR201593

Nudt4 (NM_027722) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nudt4 (NM_027722) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nudt4
Synonyms: 4933436C10Rik; DIPP2; DIPP2alpha; DIPP2beta; HDCMB47P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201593 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTTCAAGCCCAACCAGACGCGGACGTACGACCGCGAGGGCTTCAAGAAGAGGGCGGCCTGCCTGT
 GCTTCCGACGAGCAGGAGGACGAGGTGCTGCTGGTGTAGTACGAGTCCGTACCCAGACCAATGGATTGT
 CCCAGGAGGAGGGATGGAGCCGGAGGAGGAGCCTGGCGGTGCTGTGTGAGGGAAGTGTATGAAGAGGCT
 GGAGTCAAAGGAAAAGTGGCAGACTCCTGGGAATATTTGAGAATCAAGACCGGAAGCACAGAACATATG
 TTTATGTTCTGACCGTCACTGAAATATTGGAAGACTGGGAAGACTCCGTGAATATAGGAAGGAAGAGAGA
 GTGGTTCAAAGTAGAAGATGCAATCAAGTTCTTCAGTGTATAAGCCTGTCCACGAGAGTATCTGGAA
 AACTAAAGCTGGGCTGTTCTCCGACCAATGGAATTCCTCGGTCCCTCCCTCCAGATAACAATGCCT
 TGTTTGTGACTGTGCGCCGCCCTCTGGGGTGCCATCCAGTATAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201593 protein sequence
 Red=Cloning site Green=Tags(s)

MKFKPNQTRTYDREGFKKRAACLFRSEQEDEVLLVSSSRYPDQWIVPGGMEPEEPEGGAAVREYEEA
 GVKGLGRLGLIFENQDRKHRTYVYVLTVTEILEDWEDSVNIGRKREWFVEDAIKVLQCHKPVHAEYLE
 KLKLGCSPTNGNSSVPSLPDNNALFVTAAPPSGVPSSIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:

ACCN: NM_027722

ORF Size: 540 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.

RefSeq: [NM_027722.1](#), [NM_027722.2](#), [NM_027722.3](#), [NM_027722.4](#), [NP_081998.2](#)
RefSeq Size: 3231 bp

RefSeq ORF: 540 bp

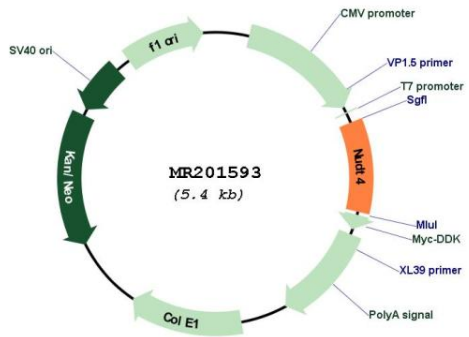
Locus ID: 71207

UniProt ID: [Q8R2U6](#)
Cytogenetics: 10 C2

MW: 20.2 kDa

Gene Summary: Cleaves a beta-phosphate from the diphosphate groups in PP-InsP5 (diphosphoinositol pentakisphosphate), PP-InsP4 and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction. Also able to catalyze the hydrolysis of dinucleoside oligophosphate Ap6A, but not Ap5A. The major reaction products are ADP and p4a from Ap6A. Also able to hydrolyze 5-phosphoribose 1-diphosphate (By similarity). Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201593