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Product datasheet for MR228071

Nudt3 (NM_001291046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt3 (NM_001291046) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nudt3
Synonyms:	1110011B09Rik; AA960325; Dipp; Dipp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR228071 representing NM_001291046
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCGTAGGGTGCTGCTTGTGAGCAGTAGCCGCCATCCAGACCGATGGATTGTCCCCGGAGGAGGCA
TGGAGCCTGAGGAGGAGCCAAGTGTGGCAGCTGTCCGGGAAGTGTGTGAGGAGGCTGGAGTGAAAGGGAC
ACTGGGAAGACTAGTTGGAATTTTTGAGAACCAGGAGAGGAAGCACAGGACCTACGTGTATGTGCTCATC
GTCACGGAGGTGCTGGAAGACTGGGAGGACTCGGTGAACATCGGAAGGAAGAGAGAGTGGTTTAAAATAG
AAGACGCCATAAAGGTGCTGCAGTGTCACAAGCCCGTGCAGGCGTCATACTTTGAGACGTTGAGGCAAGG
CTACCCTGCCAACAACGGCACCCCTGTGGTGCCCACCACCTACTCCAGCTCCGTGTCAGGCATCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR228071 representing NM_001291046
Red=Cloning site Green=Tags(s)

MSRRVLLVSSSRHPDRWIVPGGGMEPEEEPSVAAVREVCEEAGVKGTLGRLVGIFENQERKHRTYVYVLI
VTEVLEDWEDSVNIGRKREWFKIEDAIKVLQCHKPVQASYFETLRQGYPANNGTPVVPTTYSSSVSGIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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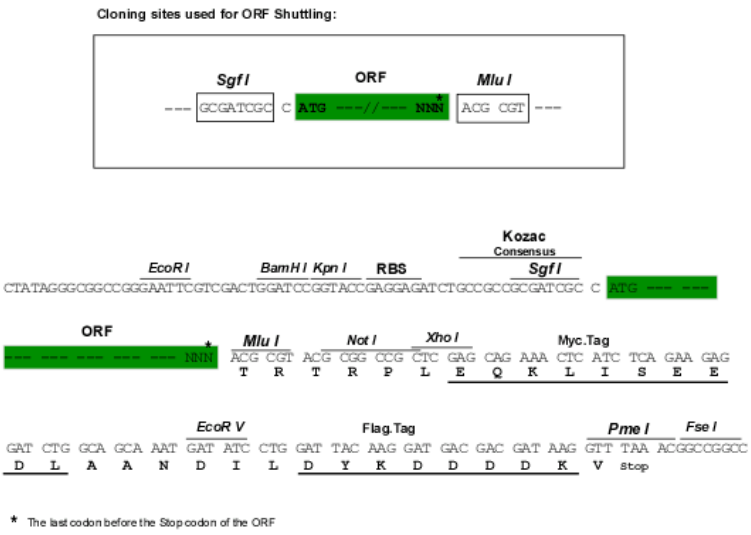
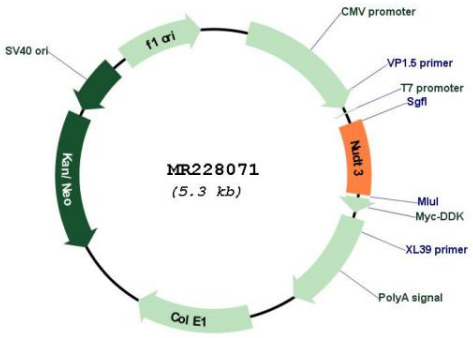
Cloning Scheme:



ACCN:	NM_001291046
ORF Size:	417 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_001291046.1, NP_001277975.1
RefSeq Size:	2188 bp

RefSeq ORF:	420 bp
Locus ID:	56409
Cytogenetics:	17 A3.3
MW:	16.2 kDa
Gene Summary:	Cleaves a beta-phosphate from the diphosphate groups in PP-InsP5 (diphosphoinositol pentakisphosphate) and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction. InsP6 (inositol hexakisphosphate) is not a substrate. Also able to catalyze the hydrolysis of dinucleoside oligophosphates, with Ap6A and Ap5A being the preferred substrates. The major reaction products are ADP and p4a from Ap6A and ADP and ATP from Ap5A. Also able to hydrolyze 5-phosphoribose 1-diphosphate (By similarity). Acts as a negative regulator of the ERK1/2 pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228071