

Product datasheet for MR228265

Nudt7 (NM_001290182) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nudt7 (NM_001290182) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nudt7
Synonyms: 1300007B24Rik; 2210404C19Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228265 representing NM_001290182
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGCGACCTGTGGACTCCCGGAGCCTGTCAGAAACAATCTGATAGATGATGCCAAGGCTCGCCTGA
 GAAAGTCTGATGTCGGGACCAGATATTCTCACCTGTCTCTAATAAATTCTGTCTTGTACCACTGCT
 GGCCAGAGGAGGAAAGTTGATTTGATGTTACGGTCCGCTCAGACAAGCTGAAAAGGGAACCTGGAGAA
 GTCTGCTTCCCTGGAGGAAAGAGGGACCGGTGGACACAGATGACACAGCCACTGCTCTCCGTGAAGCCC
 AGGAGGAGGTGGGGCTGCATCCCAACCAAGTGGAGGTGGTCTCTCACCTGGTGCCATACGTATTTGATGT
 AAGGACTGGCATGGGCCCTCCTGAGCTCTCAGGGGCTTCCACAAAATTCCAAACACACTGGGCACAGAG
 CCAGGAGAACTGAGTCTTGTGTGGACTCTGTTCTTTGTGAGCTCTGTGGCCCTTCTCACTCCATCCAGG
 AAGAAAGAGGGGAGCCACCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228265 representing NM_001290182
 Red=Cloning site Green=Tags(s)

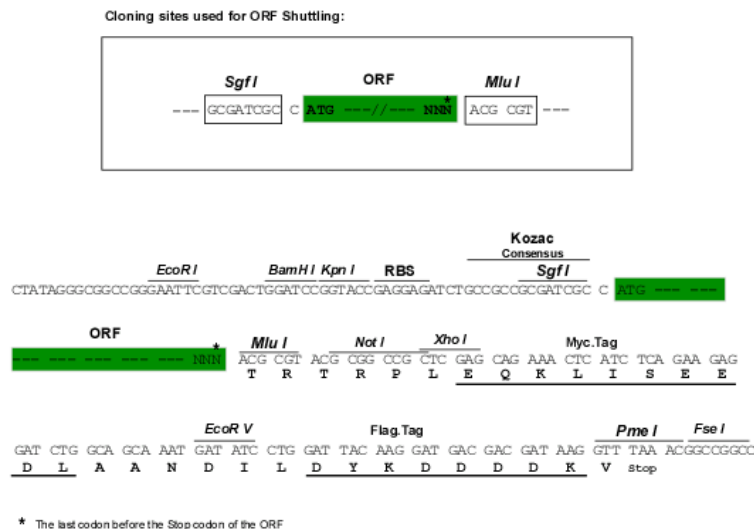
MSRPCGLPEPVRNNLIDDAKARLRKSDVGTRYSHLSSNKFSVLVPLLARGGKLYLMFTVRSCLKKREPGE
 VCFPGGKRDPVDDTATALREAQEEVGLHPHQVEVVSLLVPYVFDVRTGMGPPELSGASTKFPNTLGTE
 PGELSPCVDSVLCELCGPHSIQEERGEPPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001290182

ORF Size: 513 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_001290182.1](#), [NP_001277111.1](#)

RefSeq Size: 775 bp

RefSeq ORF: 516 bp

Locus ID: 67528

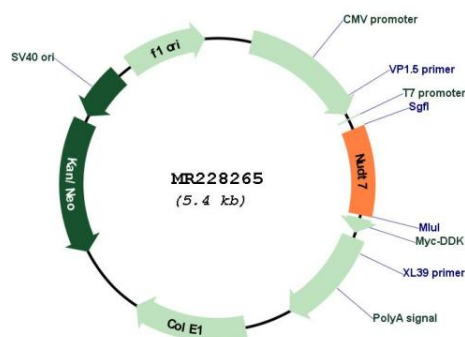
UniProt ID: [Q99P30](#)

Cytogenetics: 8 E1

MW: 19.1 kDa

Gene Summary: Coenzyme A diphosphatase which mediates the cleavage of CoA, CoA esters and oxidized CoA with similar efficiencies, yielding 3',5'-ADP and the corresponding 4'-phosphopantetheine derivative as products. CoA into 3',5'-ADP and 4'-phosphopantetheine. Has no activity toward NDP-sugars, CDP-alcohols, (deoxy)nucleoside 5'-triphosphates, nucleoside 5'-di or monophosphates, diadenosine polyphosphates, NAD, NADH, NADP, NADPH or thymidine-5'-monophospho-p-nitrophenyl ester. May be required to eliminate oxidized CoA from peroxisomes, or regulate CoA and acyl-CoA levels in this organelle in response to metabolic demand. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228265