

Product datasheet for **MG202870**

Nudt7 (BC069843) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt7 (BC069843) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nudt7
Synonyms:	1300007B24Rik; 2210404C19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202870 representing BC069843 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCGACCTTGTGGACTCCCGGAGCCTGTCAGAAACAATCTGATAGATGATGCCAAGGCTCGCCTGA
GAAAGTCTGATGTCGGGACCAGATATTCTCACCTGTCTCTAATAAATTCTGTCTTGTACCACTGCT
GGCCAGAGGAGGAAAGTTGATTTGATGTTACGGTCCGCTCAGACAAGCTGAAAAGGGAACCTGGAGAA
GTCTGCTTCCCTGGAGGAAAGAGGGACCCGGTGGACACAGATGACACAGCCACTGCTCTCCGTGAAGCCC
AGGAGGAGGTGGGCTGCATCCCAACCAAGTGGAGGTGGTCTCTCACCTGGTGCCATACGTATTTGATAA
TGATGCACTGGTAACCCCGTAGTGGGTTTTCTAGACCACAACCTCCAGGCCCAACCTAATGCTGATGAA
GTGAAGGAAGTCTTCTTTGTGCCTTTGGACTATTTCTCCATCCCAAGTCTACTACCAGAAGCAAATCA
CACAGTCTGGCCGTGATTTATCATGCATTGCTTCGAGTACAAAGACCCTGAGACTGGTGTGAACACTCT
AATCCAGGGAATGACCTCAAACTGGCTGTGTTGGTGGCCTTAATTATTTTGAACAAAGTCCTGCCTTC
AAGATTGATTTTGATCTCCATGACCTGATACCGTCTTGTGAAAGGACCTTCCTTTGGAGATATCTTTAA
GCAAGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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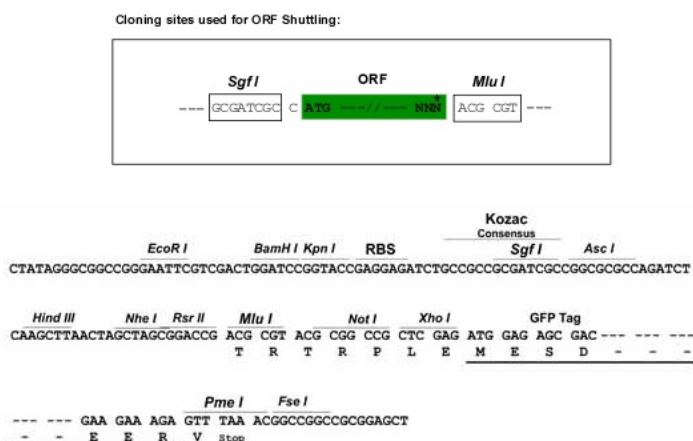
Protein Sequence: >MG202870 representing BC069843
Red=Cloning site Green=Tags(s)

MSRRCGLPEPVRNRLIDDAKARLRKSDVGTRYSHLSSNKFSVLVPLLARGGKLYLMFTVRSDKLKREPGE
VCFPGGKRDPVDTDDTATALREAQEEVGLHPHQVEVVSHLVPYVFDNDALVTPVVGFLDHNFAQQPNAD
VKEVFFVPLDYFLHPQVYQKQITQSGRDFIMHCFEYKDPETGVNYLIQGMTSKLAVLVALIILEQSPAF
KIDEDIHDIIPSCERTEIWRYSLSKI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: BC069843

ORF Size: 708 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: [BC069843](#), [AAH69843](#)

RefSeq Size: 1069 bp

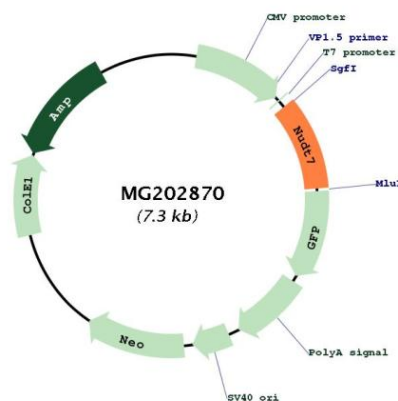
RefSeq ORF: 710 bp

Locus ID: 67528

Cytogenetics: 8 E1

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 MG202870