

Product datasheet for **MG204668**

Nudt13 (BC049948) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt13 (BC049948) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nudt13
Synonyms:	4933433B15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204668 representing BC049948 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCTGTATTGTAGAACATTTTCAGGAGGAAATCTTTGGGTGCTATAGGCTGCTGTCAACCTATG
TCACTAAGGCACGATACTTATTTGAATTGAAGGAAGATGAAGAGGCCTGCAGGAAGGCTCAGAAGACAGG
AGTGTTCCTTACCTCTTTCATGACCTGGATCCTTTGCTCCAGGCGTCAGGACATCGATACCTGGTGCCCGG
CTTAGCCGAGCAGAGTTGGAAGGGCTGCTGGGTAAGTTCGGACAGGATTCGAAAGAATTGAAGATTCGG
TGCTGGTTGGGTGCTCCGAGCAGCAGGAAGCATGGTTTGGATCTAGGTCTGAAGAGTGCCTCCTC
CAGCCGTGCCTCCTTGCCGAAATCTGAAATGGAAGCAGAGCTGGGAGGTTCTTTCATCAAGCTGAGGCAG
GCTCTTTCCAGCTGAACTCGGTGGACTCCTCCTTGTCTGTTACCGGCTCAGGCTCTTCTCCGCTGGCATG
ACGGTCATCAGTTCTGCAGCAAAATGATCACACTGGTGTGATGGGGCCCGCTGCTACTTGCCCGCCA
GAGTTCCTTTCCCAAGGGTTATATTCTGCCCTGGCAGGTTTCTGTGACATAGGTGAAAGTGTGGAAGAA
ACTGTCCATCGAGAAGTTGCGGAAGAGGTGGCCCTGGAAGTGGAAACATACAGTACTCTGCGTCCCAGC
ACTGGCCCTTTCCCAATAGCTCACTCATGATCGCTTGTACGCAACCGTGAACCCAGGACACACAGAGAT
TCAGGTGAACTGAAGGAACTAGAGGCAGCCGCTGGTTTCAGTCTTGATGAGGTGACCACAGCCCTGAGG
AGAAAGGGCTCCTTGCTCTGCAGCCGAGTGAGGCTTCCCCTGTTGCTGCCTCCCAAGTTAGCCATTG
CCCACCACTTGATTAAGAAGTGGGTGGAGACCGGAGCTGTTCTCCCTGGCTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204668 representing BC049948
Red=Cloning site Green=Tags(s)

MSLYCRTFFRRKSFSGCYRLLSTYVTKARYLFELKEDEEACRKAQKTGVFYLFDLDPDLLQASGHRYLVPR
 LSRAELEGLLGKFGQDSQRIEDSVLVGCSEQEAWFALDLGLKSASSSRASLPKSEMAELGGSFIKLRQ
 ALFQLNSVDSSLLFTAQALLRWHQDFCSKMITLVSDGARCLLARQSSFPKGLYSALAGFCDIGESVEE
 TVHREVAEEVGLLEVENIQYSASQHWPFNPSSLMIACHATVKPGHTEIQVNLKELEAAAWFSLDEVTTALR
 RKGSLALQPSEASPLLLPPKLAIAHHLIKKQWVETRSCSSLAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC049948

ORF Size: 966 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: [BC049948.1](#)

RefSeq Size: 1587 bp

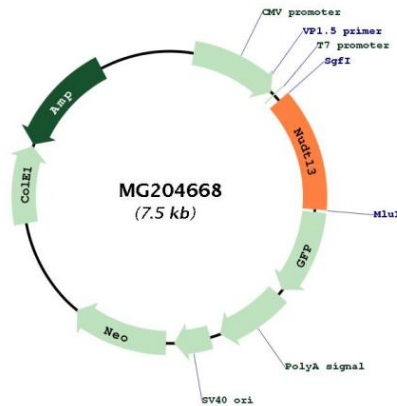
RefSeq ORF: 968 bp

Locus ID: 67725

Cytogenetics: 14 A3

Gene Summary: NAD(P)H pyrophosphatase that hydrolyzes NADH into NMNH and AMP, and NADPH into NMNH and 2',5'-ADP (PubMed:28755312). Has a marked preference for the reduced pyridine nucleotides (PubMed:28755312). Does not show activity toward NAD-capped RNAs; the NAD-cap is an atypical cap present at the 5'-end of some RNAs (PubMed:31101919). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204668