

## Product datasheet for **MR204668**

### Nudt13 (BC049948) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt13 (BC049948) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nudt13
Synonyms:	4933433B15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204668 representing BC049948 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCTGTATTGTAGAACATTTTTTCAGGAGGAAATCTTTGGGTGCTATAGGCTGCTGTCAACCTATG  
TCACTAAGGCACGATACTTATTTGAATTGAAGGAAGATGAAGAGGCCTGCAGGAAGGCTCAGAAGACAGG  
AGTGTTCCTCTTTCATGACCTGGATCCTTTGCTCCAGGCCTCAGGACATCGATACCTGGTGCCCGG  
CTTAGCCGAGCAGAGTTGGAAGGGCTGCTGGGTAAGTTCGGACAGGATTCGAAAGAATTGAAGATTCGG  
TGCTGGTTGGGTGCTCCGAGCAGCAGGAAGCATGGTTTGGATCTAGGTCTGAAGAGTGCCTCCTC  
CAGCCGTGCCTCCTTGCCGAAATCTGAAATGGAAGCAGAGCTGGGAGGTTCTTTCATCAAGCTGAGGCAG  
GCTCTTTCCAGCTGAACTCGGTGGACTCCTCCTTGTCTGTTACCGGCTCAGGCTCTTCTCCGCTGGCATG  
ACGGTCATCAGTTCTGCAGCAAAATGATCACACTGGTGTGATGGGCGCCGCTGCCTACTTGCCCGCCA  
GAGTTCCTTTCCCAAGGGTTATATTCTGCCCTGGCAGGTTTCTGTGACATAGGTGAAAGTGTGGAAGAA  
ACTGTCCATCGAGAAGTTGCGGAAGAGGTGGCCCTGGAAGTGGAAACATACAGTACTCTGCGTCCCAGC  
ACTGGCCCTTTCCAATAGCTCACTCATGATCGCTTGTACGCAACCGTGAACCCAGGACACACAGAGAT  
TCAGGTGAACTGAAGGAACTAGAGGCAGCCGCTGGTTCAGTCTTGATGAGGTGACACAGCCCTGAGG  
AGAAAGGGCTCCTTGGCTCTGCAGCCGAGTGAGGCTTCCCCTGTTGCTGCCTCCCAAGTTAGCCATTG  
CCCACCACTTGATTAAGAAGTGGGTGGAGACCGGAGCTGTTCTCCCTGGCTGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204668 representing BC049948  
Red=Cloning site Green=Tags(s)

MSLYCRTFFRRKSFSGCYRLLSTYVTKARYLFELKEDEEACRKAQKTGVFYL FHDLDPLLQASGHRYLVPR  
 LSRALEGLLGKFGQDSQRIEDSVLVGCSEQQEAWFALDLGLKSASSSRASLPKSEMEAE LGGSF IKLRQ  
 ALFQLNSVDSSLLFTAQALLRWHQGHQFC SKMITLVSDGARCLLARQSSFPKGLYSALAGFCDIGESVEE  
 TVHREVAEEVGLLEVENIQYSASQHWPFNPSSLMIACHATVKPGHTEIQVNLKELEAAAWFSLDEVTTALR  
 RKGSLALQPSEASPLLLPPKLAIAHHLIKKQWVETRSCSSLAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

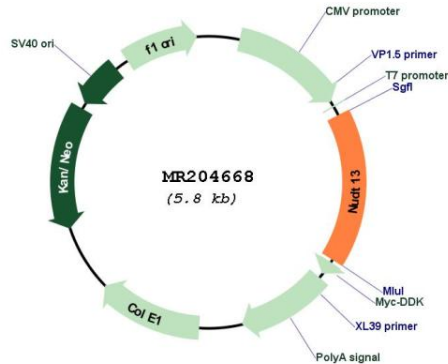
**Locus ID:** 67725

**Cytogenetics:** 14 A3

**MW:** 58.2 kDa

**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 MR204668