

## Product datasheet for MR205643

### Nudt12 (BC057657) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt12 (BC057657) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nudt12
Synonyms:	0610016O18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205643 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCTGTAAAAGAAATCCAAAAAGGAGATGATTTCTGAACTCCACAGTTCAGCCGAGAGGGAA  
ATGTCGCAAAGTTAGCAGGAATACTCAGCCATTCTCCATCTTCTCAATGAGACTTCTGAAAATGGATG  
GACTGCTTAAATGTACGCCGCCAGGAACGGGCATCCCGATGTGGTCCAGTTTCTGCTTGAGAAAGGATGT  
GACAGATCACTTGTCAATAAAGGGAGGCAAACCCCTGGATATTGCTGCATTTTGGGGTTATAGGCATA  
TAGCTAACTTGTAGCAAATGCAAAGGTGGGAAGAAGCCCTGGTTCCTAACCAATGAAGTAGACGAGTG  
TGAGAATTATTTAGCAGAACACTACTGGACCGGAGGAGTGACAAAAGAAATAATTCTGACTGGCTGCAA  
GCTAAAGAGAGCCACCCACCACAGTTTATCTCCTTTTCTCAGACTTGAACCCCTGGTTACCCTAGGTG  
GTAATAAGAAAGCTCGCAGCAGCCGGAAGTCCGGCTTGGCAGCTGAACTACCCGGATGTAAGGGTTA  
CTTGGCTCAGCCTGAGAAGATCACCTTGGTGTTCCTTGGAGTCGAGCTTGAGATGAGGAAAGGCTCACCC  
GCCAGGCCGGGAGGAGTCCAGAGGAAGAGGAGGACGGTTTGGTTGCTTGGTTTGCCTCGGTATTGAAC  
CCGGTGTCTGAGGAGTTAAGCAAAGACATGAAAATGTTATTTTCTCACCCGCAATGCCAGCTCT  
TCTGCAGTTGAAAGAAAAGGAGGCTGGGTGGTAGCTCAAGCAAGATCAGTGCTTGCCTGGCATAGTCGA  
TACAAGTTCTGCCAACCTGTGGCAGTGTACTAAAATTGAGGAAGGAGGCTACAAAAGAGTGTGTGTAC  
GAGAGACTTGCCCTAGTCTCAAGGCGTCCACAACACATCTTACCGAGAGTTGATCCAGTCGTAATTAT  
GCAGGTATCCATCCAGATGGAACCAAATGTCTTCTAGGCAGGCAAAAAGCGATTTCCCCGGGCATGTT  
ACATGTCTTGGTGGATTTATAGAGCCGGTAAGCCATACTGACTGGTTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205643 protein sequence  
Red=Cloning site Green=Tags(s)

MSSVKRNPKKEMISELHSSAAEGNVAKLAGILSHSPSLLNETSENGWTALMYAARNGHPDVVQFLLEKGC  
 DRSLVNKGRQTALDIAAFWGYRHIANLLANAKGGKPPWFLTNEVDECENYFSRTLLDRRSKRNNSDWLQ  
 AKESHPTTVYLLFSDLNPLVTLGGNKSSQQPEVRLCQLNYPDVKGYLAQPEKITLVFLGVELEMRKGGSP  
 AQAGGVPEEEEDGLVAWFALGIEPGAEEFKQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSR  
 YKFCPTCGSVTKIEEGYKRVCVRETCPQLQGVHNTSYPRVDPVIMQVIHPDGTKCLLGRQKRFPPGMF  
 TLAGFIEPGKPILTGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** BC057657

**ORF Size:** 1101 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:** [BC057657](#), [AAH57657](#)

**RefSeq Size:** 1299 bp

**RefSeq ORF:** 1103 bp

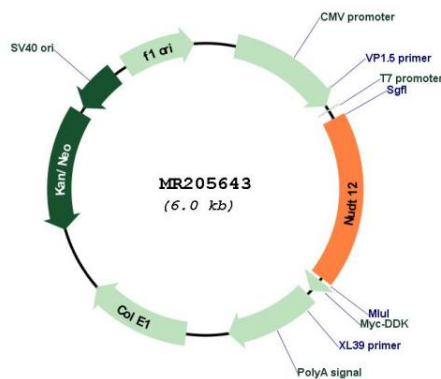
**Locus ID:** 67993

**Cytogenetics:** 17 D

**MW:** 40.8 kDa

**Gene Summary:** Hydrolyzes NAD(P)H to NMNH and AMP (2',5'-ADP), and diadenosine diphosphate to AMP. Has also activity towards NAD(P)(+), ADP-ribose and diadenosine triphosphate. May act to regulate the concentration of peroxisomal nicotinamide nucleotide cofactors required for oxidative metabolism in this organelle (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205643