

## Product datasheet for **MG222776**

### **Nudt12 (NM\_026497) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nudt12 (NM_026497) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nudt12
Synonyms:	0610016O18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222776 representing NM\_026497  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTTCTGTAAAAGAAATCCAAAAAGGAGATGATTTCTGAACTCCACAGTTCAGCCGAGAGGGAA  
 ATGTCGCAAAGTTAGCAGGAATACTCAGCCATTCTCCATCTTTCTCAATGAGACTTCTGAAATGGATG  
 GACTGCTTAAATGTACGCCGCCAGGAACGGGCATCCCGATGTGGTCCAGTTTCTGCTTGAGAAAGGATG  
 GACAGATCACTTGTCAATAAAGCGAGGCAAACGCCCTGGATATTGCTGCATTTTGGGGTTATAGGCATA  
 TAGCTAATTGTTAGCAAATGCAAAGGTGGGAAGAAGCCCTGGTTCTTAACCAATGAAGTAGACGAGTG  
 TGAGAATTATTTAGCAGAACACTACTGGACCGGAGGAGTGACAAAAGAAATAATTCTGACTGGCTGCAA  
 GCTAAAGAGAGCCACCCACCACAGTTTATCTCCTTTTCTCAGACTTGAACCCCTGGTTACCCTAGGTG  
 GTAATAAAGAAAGCTCGCAGCAGCCGGAAGTCCGGCTTGGCCAGTGAACACCCGGATGTAAGGGTTA  
 CTTGGCTCAGCCTGAGAAGATCACCTTGGTGTTCCTTGGAGTTCGAGCTTGAGATGAGGAAAGGCTCACCC  
 GCCCAGCGGGGAGGAGTCCCAGAGGAAGAGGAGGACGGTTTGGTTGCTTGGTTTGGCCTCGGTATTGAAC  
 CCGGTGCTGCTGAGGAGTTAAGCAAAGACATGAAAATTGTTATTTTCTCCACCCGCCAATGCCAGCTCT  
 TCTGCAGTTGAAAGAAAAGGAGGCTGGGGTGGTAGCTCAAGCAAGATCAGTGTTCCTGGCAGTATGCGA  
 TACAAGTTCTGCCAACCTGTGGCAGTCCGACTAAAATTGAGGAAGGAGGCTACAAAAGAGTGTGTGTAC  
 GAGAGACTTGCCCTAGTCTCCAAGGCGTCCACAACACATCTTACCCGAGAGTTGATCCAGTCGTAATTAT  
 GCAGGTCATCCATCCAGATGGAACCAATGTCTTCTAGGCAGGCAAAAAGCGATCCCCCGGGCATGTTC  
 ACATGTCTTGTGGATTTATAGAGCCCGGGGAGACAATAGAAGATGCTGTGCGGAGAGAGGTGGAAGAGG  
 AAAGTGGAGTCAAAGTTGGCCATGTTCAAGTGTCTCTTGTCAACCATGGCCAATGCCCTCCTCGTTAAT  
 GATTGGCTGTTTAGCTGTGGCAGTGTCTACAGAAATTAAGTTGACAAGAATGAAATAGAGGATGCCCGA  
 TGGTTCACTAGAGAACAGGTTGTGGACGTTCTTACCAAAGGGAAGCAGCAAGCATTCTTTGTGCCACCAA  
 GCCGAGCTATCGCACATCAGTTAATCAAACACTGGGTGGGAATGAACCCCAATCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222776 representing NM\_026497  
 Red=Cloning site Green=Tags(s)

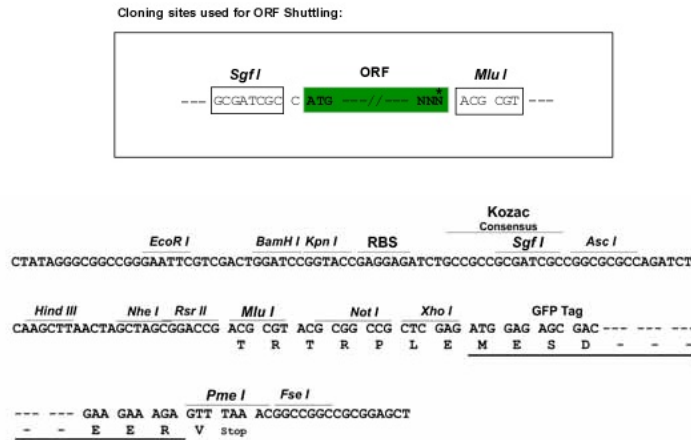
MSSVKNRPKKEMISELHSSAAEGNVAKLAGILSHSPSLLNETSENGWTALMYAARNGHPDVVQFLEKGC  
 DRSLVNKARQALDIAAFWGYRHIANLLANAKGGKPPWFLTNEVDECENYFSRTLLDRRSDKRNNSDWLQ  
 AKESHPTTVYLLFSDLNPLVTLGGNKESQQPEVRLCQLNYPDVKGylaQPEKITLVFLGVELEMRKGSP  
 AQAGGVPEEEEDGLVAWFALGIEPGAEEFKQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSR  
 YKFCPTCGSATKIEEGGYKRVCVRETCPSLQGVHNTSYPRVDPVIMQVIHPDGTCLLGRQKRFPPGMF  
 TCLA GFIEPGETIEDAVRREVEEESGVKVGHVQYVSCQPWMPSSLMIGCLAVAVSTEIKVDKNEIEDAR  
 WFTREQVVDVLTGKQQAFFVPPSRAIAHQLIKHWVGMNPNL

**TRTRPLE** - GFP Tag - V

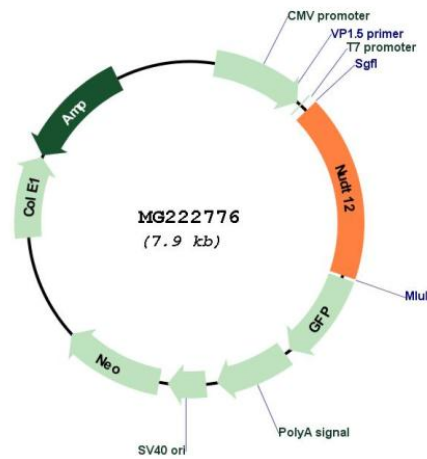
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_026497

ORF Size: 1386 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_026497.3</a>
<b>RefSeq Size:</b>	2280 bp
<b>RefSeq ORF:</b>	1389 bp
<b>Locus ID:</b>	67993
<b>UniProt ID:</b>	<a href="#">Q9DCN1</a>
<b>Cytogenetics:</b>	17 D
<b>Gene Summary:</b>	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]