

## Product datasheet for **MG205643**

### Nudt12 (BC057657) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt12 (BC057657) 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)
ORF Nucleotide Sequence:	>MG205643 representing BC057657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCTGTTAAAAGAAATCCAAAAAGGAGATGATTTCTGAACTCCACAGTTCAGCCGAGAGGGAA  
ATGTCGCAAAGTTAGCAGGAATACTCAGCCATTCTCCATCTCTTCTCAATGAGACTTCTGAAAATGGATG  
GACTGCTTTAATGTACGCCGCCAGGAACGGGCATCCCGATGTGGTCCAGTTTCTGCTTGAGAAAGGATGT  
GACAGATCACTTGTCAATAAAGGGAGGCAAACCCGCTGGATATTGCTGCATTTTGGGGTTATAGGCATA  
TAGCTAACTTGTAGCAAATGCAAAGGTGGGAAGAAGCCCTGGTTCCTAACCAATGAAGTAGACGAGTG  
TGAGAATTATTTAGCAGAACACTACTGGACCGGAGGAGTGACAAAAGAAATAATTCTGACTGGCTGCAA  
GCTAAAGAGAGCCACCCACCACAGTTTATCTCCTTTTCTCAGACTTGAACCCCTGGTTACCCTAGGTG  
GTAATAAGAAAGCTCGCAGCAGCCGGAAGTCCGGCTTTGCCAGCTGAACTACCCGGATGTAAGGGTTA  
CTTGGCTCAGCCTGAGAAGATCACCTTGGTGTTCCTTGGAGTCGAGCTTGAGATGAGGAAAGGCTCACCC  
GCCAGGCCGGGAGGAGTCCAGAGGAAGAGGAGGACGGTTTGGTTGCTTGGTTTGGCCTCGGTATTGAAC  
CCGGTGTCTGAGGAGTTAAGCAAAGACATGAAAATGTTATTTTCTCACCCGCAATGCCAGCTCT  
TCTGCAGTTGAAAGAAAAGGAGGCTGGGTGGTAGCTCAAGCAAGATCAGTGCTTGCCTGGCATAGTCGA  
TACAAGTTCTGCCAACCTGTGGCAGTGTACTAAAATTGAGGAAGGAGGCTACAAAAGAGTGTGTGTAT  
GAGAGACTTGCCCTAGTCTCCAAGGCGTCCACAACACATCTTACCGAGAGTTGATCCAGTCGTAATTAT  
GCAGGTATCCATCCAGATGGAACCAAATGTCTTCTAGGCAGGCAAAAAGCGATTTCCCCGGGCATGTT  
ACATGTCTTGGTGGATTTATAGAGCCGGTAAGCCATACTGACTGGTTTT

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205643 representing BC057657  
 Red=Cloning site Green=Tags(s)

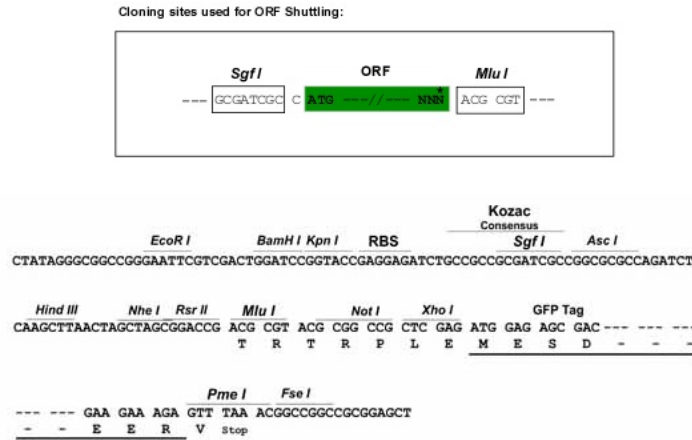
MSSVKRNPKKEMISELHSSAAEGNVAKLAGILSHSPSLLNETSENGWTALMYAARNGHDPVVQFLLEKGC  
 DRSLVNKGRQTALDIAAFWGYRHIANLLANAKGGKKPWFLTNEVDECENYFSRTLLDRRSDDRNSDWLQ  
 AKESHPTTVYLLFSDLNPLVTLGGNKSSQQPEVRLCQLNYPDVKGYLAQPEKITLVFLGVELEMRKQSP  
 AQAGGVPEEEEDGLVAWFALGIEPGAEEFKQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSR  
 YKFCPTCGSVTKIEEGYKRVCVRETCPQLQGVHNTSYPRVDPVIMQVIHPDGTKCLLGRQKRFPPGMF  
 TCLA GFIEPGKPI LTGF

TRTRPLE - GFP Tag - V

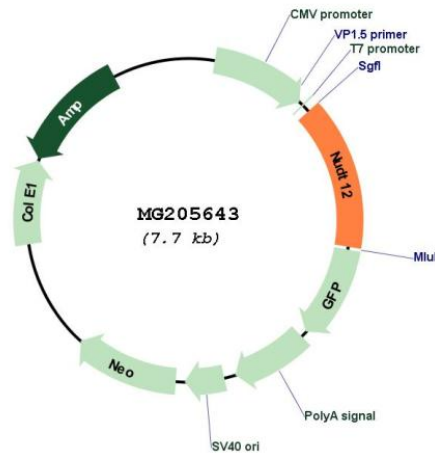
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

BC057657

<b>ORF Size:</b>	1103 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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="#">BC057657</a> , <a href="#">AAH57657</a>
<b>RefSeq Size:</b>	1299 bp
<b>RefSeq ORF:</b>	1103 bp
<b>Locus ID:</b>	67993
<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]