

## Product datasheet for MC212596

### Nudt18 (NM\_153136) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nudt18 (NM\_153136) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nudt18  
**Synonyms:** BC036718  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212596 representing NM\_153136  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCACGGAGGGCCTGGCAGGGGCGCTTCCACCGTGTGGGGGAAAGGGTGTCTGGTGCAGAGCT  
 GTGACTCGGAGCCGGCTGGGAAGCCGCTGTTCCCGTGC GGCTGCGGAAGAATGTCTGCTACGTGGTGTCT  
 GGCCGTGTTCCCTCAACGAGCAGGATGAGGTGTTGATGATACAGGAGGCCAAGAGGAATGCCGGGGACA  
 TGGTACCTCCCTGCAGGAAGAATGGAACCAAGGAGAAACCATCGTGGAGGCCATGCAGCGGAGGTGAAGG  
 AGGAGGCAGGGCTGCTCTGTGAGCCAGTGACACTGCTGTCCGTGGAGGAGAGGGGCGCCTCTGGATCCG  
 CTTTGTGTTCCCTCGCTCGACCAACAGGCGGAGTCTCAAGACTTCCAAAGATGCTGATTCTGAGTCCCTC  
 CAGGCCGGCTGGTACCCACGGGTCTCCCTGCCACACCGCTTAGAGCCCATGATGTTCTGCACCTGGTAG  
 AGCTAGGCGCAAATCTGCCAACAGCCATGCACCTCTCATTCTGCCTCAAGAGCTCCCTGCAGTGT  
 GGTCTGCCAACGGCTGGTGACCCTTCACAACAGTCCAGTCCGGTGTGGGTGTTGGTGGGCACGGTGGGG  
 ACACCTCACTTGCCCATCACTGCCTGTGGCTTTACCCCTATGGAACAAAGGGGCGGCATCAAGGTGGCCA  
 TCTTGAGGCTCCTACAGGAGTGTCTGACTCTGCACAGTTTGGCAGTGGAGACCAAGGGGTGCTTGGGTT  
 GCAACACCTAGGCAGAGACCATGTGGATGGTGTCTGCCTGAATGTCTGGTACCCTGGCTTTTCGGAAC  
 CCAGGAATCCAAGACGAGCCCCAAAGATTCGGGGTAAAACACTTTTGGTGGAAAGGTATTAGAGGAAG  
 ATTTACAAAACTGCTTCTGTACAGACTCCAGGAATCTTCTGTGATCCCCCTGAGCAGATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_153136  
**Insert Size:** 972 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_153136.4</a> , <a href="#">NP_694776.2</a>
<b>RefSeq Size:</b>	3716 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	213484
<b>UniProt ID:</b>	<a href="#">Q3U2V3</a>
<b>Cytogenetics:</b>	14 D2
<b>Gene Summary:</b>	Mediates the hydrolysis of oxidized nucleoside diphosphate derivatives. Hydrolyzes 8-oxo-7,8-dihydroguanine (8-oxo-Gua)-containing deoxyribo- and ribonucleoside diphosphates to the monophosphates. Hydrolyzes 8-oxo-dGDP and 8-oxo-GDP with the same efficiencies. Hydrolyzes also 8-OH-dADP and 2-OH-dADP. Exhibited no or minimal hydrolysis activity against 8-oxo-dGTP, 8-oxo-GTP, dGTP, GTP, dGDP and GDP. Probably removes oxidized guanine nucleotides from both the DNA and RNA precursor pools (By similarity). [UniProtKB/Swiss-Prot Function]