

## Product datasheet for **MC210452**

### **Nudt16l1 (NM\_025839) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nudt16l1 (NM\_025839) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nudt16l1  
**Synonyms:** 1110001K21Rik; 5330437I08Rik; Sdos  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210452 representing NM\_025839  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGACCACGACGGTCCGGAGCTGAAACAGATCAGTCGGGAGGAAGCAATGCGCTTGGGGCCCGCT  
GGAGTCATTCATGCCACGCCATGCTATACGCCCAACCCGGGAGCTTTTCGGACGTATCCCCATGCC  
TTTCTCAGTGCTGATGCAGATGCGCTTCGACGGGCTGCTAGGCTTCCCGGGGTTTCGTGGACCGGCGC  
TTCTGGTCGCTGGAGGATGGCTTGAATCGGGTGC TGGCCCTGGGCTGGGCGGCCTACGCCTTACCGAAG  
CTGATTACCTGAGTTCACACCTGACTGAGGGTCCACACCGTGTGGTGGCAGATCTGTACGCACGGCAGCT  
GACATTGGAACAACGATGCTGTGGAGATCAGCGCTGTGCACTCACGGGACCACGGTCTGGAGGTCCTG  
GGCCTTGTACGGGTCCTACTGTACACACAGAAGGATCGAGTAGGCGGCTTTCCTAACTTTCTGAGCAACG  
CCTTCGTCAGCACTGCCAAATATCAACTTCTATTTGCCCTTAAGGTACTCAACATGATGCCCTCGGAAAA  
GCTGGCCGAGGCCTTGGCCTCAGCAACAGAGAAGCAGAAGAAGGCTCTAGAAAAGCTGCTCCCGCCCTCA  
TCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_025839  
**Insert Size:** 636 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_025839.4</a> , <a href="#">NP_080115.1</a>
<b>RefSeq Size:</b>	1294 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	66911
<b>UniProt ID:</b>	<a href="#">Q8VHN8</a>
<b>Cytogenetics:</b>	16 2.48 cM
<b>Gene Summary:</b>	<p>Key regulator of TP53BP1 required to stabilize TP53BP1 and regulate its recruitment to chromatin. In absence of DNA damage, interacts with the tandem Tudor-like domain of TP53BP1, masking the region that binds histone H4 dimethylated at 'Lys-20' (H4K20me2), thereby preventing TP53BP1 recruitment to chromatin and maintaining TP53BP1 localization to the nucleus. Following DNA damage, ATM-induced phosphorylation of TP53BP1 and subsequent recruitment of RIF1 leads to dissociate NUDT16L1/TIRR from TP53BP1, unmasking the tandem Tudor-like domain and allowing recruitment of TP53BP1 to DNA double strand breaks (DSBs). Binds U8 snoRNA.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>