

## Product datasheet for **RR212645**

### Nudt18 (NM\_001100732) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nudt18 (NM\_001100732) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nudt18  
**Synonyms:** RGD1311802  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR212645 representing NM\_001100732  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCACGGAGGGCCTGGCAGGGGCGCTGGCCACCGTGTGGGGGGAAGGGTGTCTGGTGCAGAGCT  
GTGACTCGGAGCCGGCTGGCAAGCCGCTGTTGCCCGTGCAGCTGCGGAAGAATGTCTGCTACGTGGTGTCT  
GGCCGTGTTCCCTCAACGAGCAGGATGAGGTGTTGATGATCCAGGAGGCCAAGAGAGAATGCCGGGAACA  
TGGTACCTCCCGCAGGAAGAATGGAACAGGGGAGACCATCGTGGAGGCCATGCAGCGGAGGTGAAGG  
AGGAGGCTGGGCTGCTCTGTGAGCCAGTGACACTGCTGTCTGTGGAGGAGAGGGGTGCCTCTTGGATCCG  
TTTTGTATTCCTTGTCTGACCAACAGGTGGAGTCTCAAGACTTCCAAGAATGCTGATTCTGAGTCCCTA  
CAGGCTGGCTGGTACCCACGGGTCTCCCTGCCACACCGCTTAGAGCTCATGATGTTGTGCACCTGGTAG  
AGCTAGGTGCCAATTCTGCCAACAAGCCACACCCCTCTCATTCTGCCTCAAGAGCTTCCCTGCAATAT  
GGTCTGCCAGCGGCTGGTGGCCACCTTTACAACAGTTCAGTCAGTGTGGGTGTTGGTGGGTACAGTGGGG  
ACACCTCACTTGCCCATCACTGCCTGTGGCTTTACCCCTATGGAACAAAGAGGTGGCATCAAGGTGGCCA  
TCTTGAGGCTACTACAAGAGTGTCTGACTCTGCACAGTTTGGCAGTGGAGACCAAGGGGTGCTTGGGCT  
GCAACATCTCGGCAGAGACCACGTGGATGATATCTGCCTGAATGTCTGGTACAGTGGCTTTTCGGAAC  
CCAGGAATCCAAGATGAGCCCCAAAGATTCGGGGGAAAACTACTTTTGGTGAAGGTACTGGAGGAAG  
ACTTACAAAAACAGTCTTACACAGACTCCAGGAATCTTCTGTTGTCCCCTGACCAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR212645 representing NM\_001100732  
Red=Cloning site Green=Tags(s)

MATEGLAGALATVVLGGKGLLVQSCDSEPAGKPLLVPVRLRKNVCYVVLAVFLNEQDEVLMIQEAKRECRGT  
 WYLPAGRMEPGETIVEAMQREVKEEAGLLCEPVTLLSVEERGASWIRFVFLARPTGGVLKTSKNADSESL  
 QAGWYPRVSLPTPLRAHDVVHLVELGAKFCQQATHPLILPQELPCNMVCQRLVATFTTVQSVWVLVGTVG  
 TPHLPITACGFTPMEQRGGIKVAILRLLQECLTLHSLAVETKGLLGLQHLGRDHVDGICLNVLTVVAFRN  
 PGIQDEPPKIRGENYFWWKVLEEDLQKQLLHRLQESSVPLTR

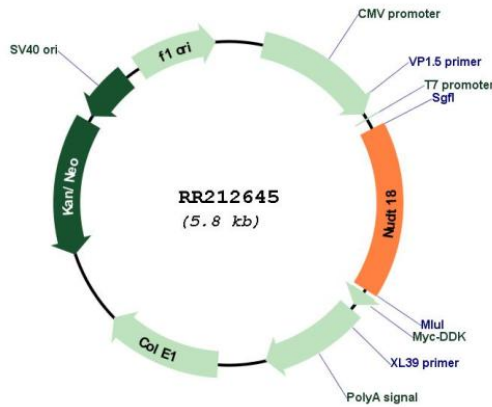
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001100732

**ORF Size:** 969 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="#">NM_001100732.1</a> , <a href="#">NP_001094202.1</a>
<b>RefSeq Size:</b>	1452 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	361068
<b>UniProt ID:</b>	<a href="#">Q641Y7</a>
<b>Cytogenetics:</b>	15p11
<b>MW:</b>	35.6 kDa
<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]