

Product datasheet for RN212645

Nudt18 (NM_001100732) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nudt18 (NM_001100732) Rat Untagged Clone
Tag: Tag Free
Symbol: Nudt18
Synonyms: RGD1311802
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN212645 representing NM_001100732
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACGGAGGGCCTGGCAGGGGCGCTGGCCACCGTGTGGGGGGAAGGGTGTCTGGTGCAGAGCT
 GTGACTCGGAGCCGGCTGGCAAGCCGCTGTTGCCCGTGCAGCTGCGGAAGAATGTCTGCTACGTGGTGTCT
 GGCCGTGTTCTCAACGAGCAGGATGAGGTGTTGATGATCCAGGAGGCCAAGAGAGAATGCCGGGAACA
 TGGTACCTCCCGCAGGAAGAATGGAACAGGGGAGACCATCGTGGAGGCCATGCAGCGGAGGTGAAGG
 AGGAGGCTGGGCTGCTCTGTGAGCCAGTGACACTGCTGTCTGTGGAGGAGAGGGGTGCCTCTTGGATCCG
 TTTTGTATTCTTGTCTCGACCAACAGGTGGAGTCTCAAGACTTCCAAGAATGCTGATTCTGAGTCCCTA
 CAGGCTGGCTGGTACCCACGGGTCTCCCTGCCACACCGCTTAGAGCTCATGATGTTGTGCACCTGGTAG
 AGCTAGGTGCCAATTCTGCCAACAAGCCACACCCCTCATTCTGCCTCAAGAGCTTCCCTGCAATAT
 GGTCTGCCAGCGGCTGGTGGCCACCTTTACAACAGTTCAGTCAGTGTGGTGTGGTGGGTACAGTGGGG
 ACACCTCACTTGGCCATCACTGCCTGTGGCTTTACCCCTATGGAACAAAGAGGTGGCATCAAGGTGGCCA
 TCTTGAGGCTACTACAAGAGTGTCTGACTCTGCACAGTTTGGCAGTGGAGACCAAGGGGTGCTTGGGCT
 GCAACATCTCGGCAGAGACCACGTGGATGGTATCTGCCTGAATGTCTGGTGCAGTGGCTTTTCGGAAC
 CCAGGAATCCAAGATGAGCCCCAAAGATTTCGGGGGAAAACACTTTTGGTGGAAAGTACTGGAGGAAG
 ACTTACAAAAACAGCTTCTACACAGACTCCAGGAATCTTCTGTTGTCCCCTGACCAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001100732
Insert Size: 972 bp



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OTI Disclaimer:	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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001100732.1 , NP_001094202.1
RefSeq Size:	1452 bp
RefSeq ORF:	972 bp
Locus ID:	361068
UniProt ID:	Q641Y7
Cytogenetics:	15p11
Gene Summary:	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]