

Product datasheet for MR218249

Nudt18 (NM_153136) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Nudt18 (NM_153136) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Nudt18
 Synonyms: BC036718
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR218249 representing NM_153136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACGGAGGGCCTGGCAGGGGCGCTTGCCACCGTGCTGGGGGAAAGGGTTGCTGGTGCAGAGCT
 GTGACTCGGAGCCGGCTGGGAAGCCGCTGTTCCCGTGCGGCTGCGGAAGAATGTCTGCTACGTGGTGCT
 GGCCGTGTTCTCAACGAGCAGGATGAGGTGTTGATGATACAGGAGGCCAAGAGGGAATGCCGGGGACA
 TGGTACCTCCCTGCAGGAAGAATGGAACCAGGAGAAACCATCGTGGAGGCCATGCAGCGGGAGGTGAAGG
 AGGAGGCAGGGCTGCTCTGTGAGCCAGTGACACTGCTGTCCGTGGAGGAGAGGGGCGCCTCTGGATCCG
 CTTTGTGTTCTCGCTCGACCAACAGGCGGAGTTCTCAAGACTTCAAAGATGCTGATTCTGAGTCCCTC
 CAGGCCGGCTGGTACCCACGGGTCTCCCTGCCACACCGTTAGAGCCATGATGTTCTGCACCTGGTAG
 AGCTAGGCGCAAATCTGCCAACAAGCCATGCACCTCTCATTCTGCCTCAAGAGCTCCCTGCAGTGT
 GGTCTGCCAACGGCTGGTGACCACCTTCAACAGTCCAGTCCGGTGTGGGTGTTGGTGGGCACGGTGGGG
 ACACCTCACTTGCCCATCACTGCCTGTGGCTTTACCCCTATGGAACAAAGGGGCGGCATCAAGGTGGCCA
 TCTTGAGGCTCCTACAGGAGTGTCTGACTCTGCACAGTTTGGCAGTGGAGACCAAGGGTTGCTTGGGT
 GCAACACCTAGGCAGAGACCATGTGGATGGTGTCTGCCTGAATGTCTGGTGACCGTGGCTTTTCGGAAC
 CCAGGAATCCAAGACGAGCCCCAAAGATTCGGGGTGAACACTACTTTTGGTGAAGGATATTAGAGGAAG
 ATTTACAAAACCTGCTTCTGTACAGACTCCAGGAATCTTCTGTGATCCCCCTGAGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218249 representing NM_153136
 Red=Cloning site Green=Tags(s)

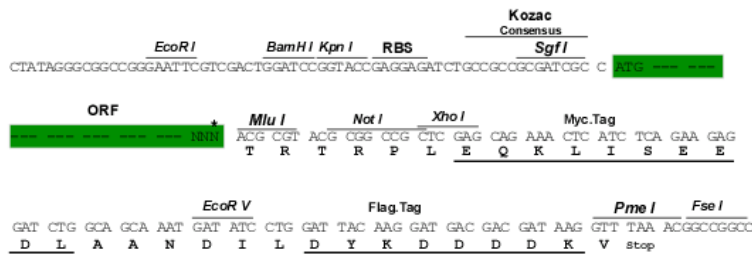
MATEGLAGALATVVGKGLLVQSCDSEPAGKPLFPVRLRKNVCYVVLAVFLNEQDEVLMIQEAKRECRGT
 WYLPAGRMEPGETIVEAMQREVKEEAGLLCEPVTLLSVEERGASWIRFVFLARPTGGVLKTSKDADSESL
 QAGWYPRVSLPTPLRAHDVHLHLVELGAKFCQQAMHPLILPQELPCSVVCQRLVTTFTTVQSVWVLVGTVG
 TPHLPITACGFTPMEQRGGIKVAILRLLQECLTLHSLAVETKGLLGLQHLGRDHVDGVCLNVLVTVAFRN
 PGIQDEPPKIRGENYFWWKVLEEDLQKLLLYRLQESSVIPLSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_153136

ORF Size: 969 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_153136.5](#)

RefSeq Size: 3716 bp

RefSeq ORF: 972 bp

Locus ID: 213484

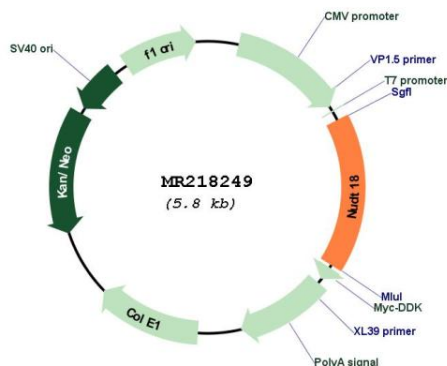
UniProt ID: [Q3U2V3](#)

Cytogenetics: 14 D2

MW: 36.1 kDa

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]

Product images:



Circular map for MR218249