

Product datasheet for MR203089

Nudt18 (BC036718) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nudt18 (BC036718) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nudt18
Synonyms:	MGC38179
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203089 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCAGGAGAAACCATCGTGGAGGCCATGCAGCGGGAGGTGAAGGAGGAGGCGGGCTGCTCTGTG
AGCCAGTGACACTGCTGTCCGTGGAGGAGAGGGCGCCTCCTGGATCCGCTTTGTGTTCTCGCTCGACC
AACAGCGGAGTTCTCAAGACTTCAAAGATGCTGATTCTGAGTCCCTCCAGGCCGGCTGGTACCCACGG
GTCTCCCTGCCACACCGCTTAGAGCCCATGATGTTCTGCACCTGGTAGAGCTAGGCGCCAAATTCTGCC
AACAAAGCCATGCACCCTCTCATTCTGCCTCAAGAGCTCCCTGCAGTGTGGTCTGCCAACGGCTGGTGAC
CACCTTACAACAGTCCAGTCCGGTGTGGGTGTTGGTGGGCACGGTGGGGACACCTCACTTGCCCATCACT
GCCTGTGGCTTTACCCCTATGGAACAAAGGGCGGCATCAAGGTGGCCATCTTGAGGCTCTACAGGAGT
GTCTGACTCTGCACAGTTTGGCAGTGGAGACCAAGGGGTGCTTGGGTGCAACACCTAGGCAGAGACCA
TGTGGATGGTGTCTGCCTGAATGTGCTGGTGACCGTGGCTTTTCGGAACCCAGGAATCCAAGACGAGCCC
CCAAAGATTCGGGGTAAAACTACTTTTGGTGAAGGTATTAGAGGAAGATTTACAAAACCTGCTTCTGT
ACAGACTCCAGGAATCTTCTGTGATCCCCCTGAGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203089 protein sequence
Red=Cloning site Green=Tags(s)

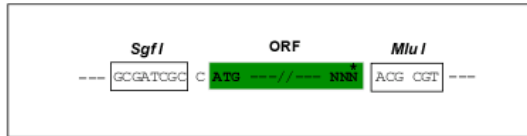
MEPGETIVEAMQREVKEEAGLLCEPVTLLSVEERGASWIRFVFLARPTGGVLKTSKADSESLQAGWYPR
 VSLPTPLRAHDVLHLVELGAKFCQQAMHPLILPQELPCSVVCQRLVTTFTTVQSVVWLVGTGTPHLPIT
 ACGFTPMEQRGGIKVAILRLLQECLTLHSLAVETKLLGLQHLGRDHVDGVCLNLVLTVAFRNPGIQDEP
 PKIRGENYFWWKVLEEDLQKLLLYRLQESSVIPLSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC036718

ORF Size: 738 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: [BC036718](#), [AAH36718](#)

RefSeq Size: 1630 bp

RefSeq ORF: 740 bp

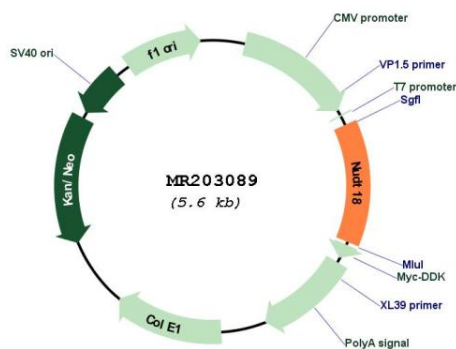
Locus ID: 213484

Cytogenetics: 14 D2

MW: 27.4 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 MR203089