

Product datasheet for **RC204376**

NUDT18 (NM_024815) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NUDT18 (NM_024815) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NUDT18
Synonyms: MTH3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204376 representing NM_024815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCTCGGAGGGCCTGGCGGGGGCGCTGGCTTCCGTGCTGGCTGGCCAGGGGTCCAGCGTGCACAGCT
GCGACTCGGCGCCGGCCGGGAGCCGCCGGCGCCCGTGC GGCTGCGGAAGAACGTGTGCTACGTGGTGCT
GGCCGTGTTCTCAGCGAGCAGGATGAGGTGCTACTGATCCAGGAGGCCAAGAGGGAGTGCCGGGGGTCG
TGGTACCTGCCTCGGGGAGAATGGAGCCAGGGGAGACCATCGTGGAGGCGCTGCAGCGGGAGGTGAAGG
AGGAGGCGGGGCTGCACTGTGAGCCGAGACACTGCTGTCCGTGGAGGAGCGGGGCCCTCTGGGTCCG
CTTCGTGTTCTCGCTCGCCCCACAGGTGGAATTCCTCAAGACTTCCAAGGAGGCCGATGCGGAGTCCCTG
CAGGCTGCCTGGTACCCACGGACCTCCCTGCCACTCCGCTGCGAGCCATGACATCCTGCACCTGGTTG
AACTAGCCGCCAGTATCGCCAGCAAGCCAGGCACCCTCTCATTCTGCCCAAGAGCTACCTGTGATCT
GGTCTGCCAGCGGCTCGTGGCTACCTTTACCAGCGCCAGACAGTGTGGGTGTTAGTGGGCACAGTGGGG
ATGCCTCACTTGCTGTCACTGCCTGTGGCCTCGACCCTATGGAGCAGAGGGGTGGCATGAAGATGGCCG
TCCTGCGGCTGCTGCAGGAGTGTCTGACCCTGCACCCTTGGTGGTGGAGATCAAGGGTGTCTGGACT
GCAGCACCTGGGCCGAGATCACAGTGTGGCATCTGTTGAATGTGCTGGTGACCGTGGCTTTTCGGAGC
CCAGGGATCCAGGATGAACCCCAAAAGTTCGGGGTGAAGTCTCTTGGTGAAGGTGATGGAGGAAG
ACCTGCAAAGCCAGCTCCTCCAGCGGCTCAGGGATCCTCTGTTGTCCCAGTGAACAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204376 representing NM_024815
 Red=Cloning site Green=Tags(s)

MASEGLAGALASVLAGQGSSVHSCDSAPAGEPPAPVRLRKNVCYVVLAVFLSEQDEVLLIQEAKRECRGS
 WYLPAGRMEPGETIVEALQREVKEEAGLHCEPETLLSVEERGPSWVRFVFLARPTGGILKTSKEADAESL
 QAAWYPRTSLPTPLRAHDILHLVELAAQYRQARHPLILPQELPCDLVCQRLVATFTSAQTVWVLVGTVG
 MPHLPVTACGLDPMEQRGGMKMAVLRLLQECLTLHHLVVEIKGLLGLQHLGRDHS DGI CLNVLTVAFRS
 PGIQDEPPKVRGENFSWWKVMEE DLQSLLQRLQGS SVVPVNR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2633_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024815

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_024815.4](#)

RefSeq Size: 1519 bp

RefSeq ORF: 972 bp

Locus ID: 79873

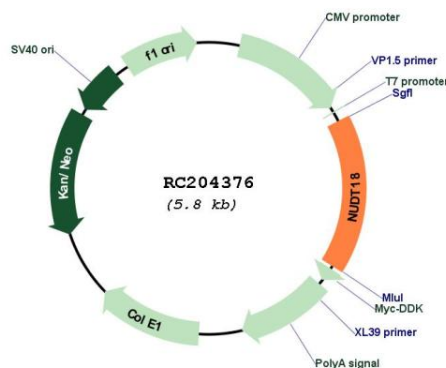
UniProt ID: [Q6ZVK8](#)

Cytogenetics: 8p21.3

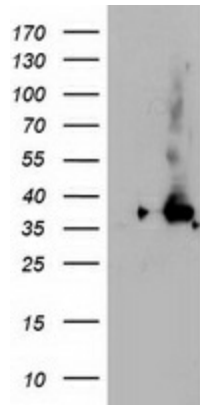
MW: 35.3 kDa

Gene Summary: The protein encoded by this gene is a member of the Nudix hydrolase family. Nudix hydrolases eliminate potentially toxic nucleotide metabolites from the cell and regulate the concentrations and availability of many different nucleotide substrates, cofactors, and signaling molecules. This protein contains a Nudix hydrolase domain and hydrolyzes oxidized forms of guanosine and deoxyguanosine diphosphates. [provided by RefSeq, Sep 2012]

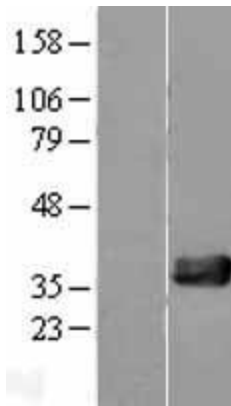
Product images:



Circular map for RC204376



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NUDT18 (Cat# RC204376, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NUDT18 (Cat# [TA503847]). Positive lysates [LY403033] (100ug) and [LC403033] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403033]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204376 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUDT18 protein (Cat# [TP304376]). The protein was produced from HEK293T cells transfected with NUDT18 cDNA clone (Cat# RC204376) using MegaTran 2.0 (Cat# [TT210002]).