

Product datasheet for **RG204376**

NUDT18 (NM_024815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NUDT18
Synonyms:	MTH3
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204376 representing NM_024815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGGAGGGCCTGGCGGGGGCGCTGGCTTCCGTGCTGGCTGGCCAGGGGTCCAGCGTGCACAGCT
GCGACTCGGCGCCGGCGGGGAGCCGCCGGCGCCCGTGC GGCTGCGGAAGAAGTGTGTCTACGTGGTGTCT
GGCCGTGTTCTCAGCGAGCAGGATGAGGTGCTACTGATCCAGGAGGCCAAGAGGGAGTGCCGGGGGTCTG
TGGTACCTGCCTGCGGGGAGAATGGAGCCAGGGGAGACCATCGTGGAGGCGCTGCAGCGGGAGGTGAAGG
AGGAGGCGGGGCTGCACTGTGAGCCCGAGACACTGCTGTCCGTGGAGGAGCGGGGCCCTCCTGGGTCCG
CTTCGTGTTCTCGCTCGCCCCACAGGTGGAATTCTCAAGACTTCCAAGGAGGCCGATGCGGAGTCCCTG
CAGGCTGCCTGGTACCCACGGACCTCCCTGCCCACTCCGCTGCGAGCCCATGACATCCTGCACCTGGTTG
AACTAGCCGCCCAGTATCGCCAGCAAGCCAGGCACCTCTCATTCTGCCCAAGAGCTACCTGTGATCT
GGTCTGCCAGCGGCTCGTGGCTACCTTTACCAGCGCCAGACAGTGTGGGTGTTAGTGGGCACAGTGGGG
ATGCCTCACTTGCCTGTCACTGCCTGTGGCTCGACCCATGAGAGCAGAGGGGTGGCATGAAGATGGCCG
TCCTGCGGCTGCTGCAGGAGTGTCTGACCTGCACCACTTGGTGGTGGAGATCAAGGGGTTGCTTGGACT
GCAGCACCTGGGCGGAGATCACAGTGATGGCATCTGTTGAATGTGCTGGTGACCGTGGCTTTTCGGAGC
CCAGGGATCCAGGATGAACCCCCAAAAGTTCGGGGTGAGAACTTCTTTGGTGAAGGTGATGGAGGAAG
ACCTGCAAAGCCAGCTCCTCCAGCGGCTTCAGGATCTCTGTTGTCCAGTGAACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG204376 representing NM_024815
Red=Cloning site Green=Tags(s)

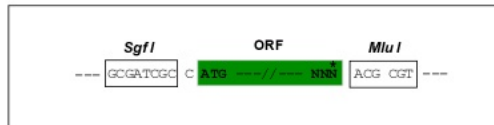
MASEGLAGALASVLAGQGSSVHSCDSAPAGEPPAPVRLRKNVCYVVLAVFLSEQDEVLLIQEAKRECRGS
WYLPAGRMPEGETIVEALQREVKEEAGLHCEPETLLSVEERGSPWVRVFLARPTGGILKTSKEADAESL
QAAWYPRTSPLPTLRAHDILHLVELAAQYRQQRHPLILPQELPCDLVCQRLVATFTSAQTVWVLVGTVG
MPHL PVTACGLDPMEQRGGMKMAVLRLLQECLTLHHLVVEIKGLLGLQHLGRDHS DGICLNVLVTVAFRS
PGIQDEPPKVRGENFSWWKVMEEQLQSLLQRLQGS SVVPVNR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024815.4](#)

RefSeq Size: 1519 bp

RefSeq ORF: 972 bp

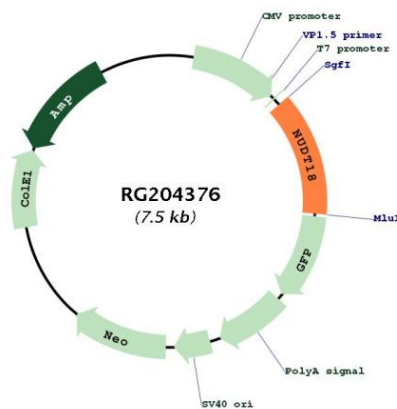
Locus ID: 79873

UniProt ID: [Q6ZVK8](#)

Cytogenetics: 8p21.3

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 RG204376