

Product datasheet for **MC204305**

Nudt1 (NM_008637) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nudt1 (NM_008637) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nudt1
Synonyms: Mth1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC021940
 CGGACGCGTCCGCCACGCGTCCGCCGCCCGGGAACTTTGGCTGGGGCGGAAGGACCCAGGAGAGCA
 TGAGCACCTCCAGGCTTTATACCCTTGTGCTAGTGCTACAGCCTCAGCGAGTTCTCCTGGGCATGAAGAA
 GAGGGGCTTTGGTGTGCGCGCTGGAATGGCTTCGGGGGCAAGGTGCAGGAAGGAGAGACCATTGAGGAT
 GGGGCTAAGAGAGAGCTGCTGGAAGAAAGTGGTCTGAGCGTGGATACACTGCACAAGGTAGGCCACATCT
 CGTTTGAATTTGTGGCTCCCCTGAGCTGATGGACGTGCATATCTTCTCGGCTGACCATGTGCACGGGAC
 GCCCACAGAGAGTGAAGAAATGCGCCCTCAGTGGTTCCAAGTGGACCAGATCCCCTTTGGCGACATGTGG
 CCGGATGACAGCTACTGGTTCCCACTCTGCTTCCAGAGAAGAAGTTCTGTGGGCACTTCAAGTTCCAGG
 ATCAGGACACGATCCTCAGTTACTCGTGCAGAGGTGGACTCATTCTAATACAGAACTCTGGCTGGTTC
 TGGCCACTCAGGATGCTACACAGCCGAAGCTGTCGGACCAAGGGCACAAGCAGGGGCTGGTATTTTCTG
 TGTGCGAGGGGTTGGGGTTGAAATGTGAAATGTCACCAATACACCAATGTTTGAATCTTCTGTCCCCACA
 TACTGGTCTGTTTTAGAAAGTTGTGGCACCTTTAAGAGCCAGAGCCCTGCTGGTGGAACTGAGTCACTG
 GGGATCGGAGAATGGAGGATGGGCCTTGTCTTATAGGTGAGCACCCTTACTGTCTGCTCACACTCCGGC
 TACTGTGTGAGATTTCCACGATGGACTGTGTCCCCAGATGGATGAGCTGAAATAAACCGTTGTCTCTCT
 AA

Restriction Sites: RsrII-NotI

ACCN: NM_008637

Insert Size: 471 bp

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).



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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:	BC021940 , AAH21940
RefSeq Size:	975 bp
RefSeq ORF:	471 bp
Locus ID:	17766
UniProt ID:	P53368
Cytogenetics:	5 G2
Gene Summary:	<p>Antimutagenic (PubMed:11572992). Plays a redundant role in sanitizing oxidized nucleotide pools, such as 8-oxo-dGTP pools (PubMed:29281266). Acts as a sanitizing enzyme for oxidized nucleotide pools, thus suppressing cell dysfunction and death induced by oxidative stress. Hydrolyzes 8-oxo-dGTP, 8-oxo-dATP and 2-OH-dATP, thus preventing misincorporation of oxidized purine nucleoside triphosphates into DNA and subsequently preventing A:T to C:G and G:C to T:A transversions. Able to hydrolyze also the corresponding ribonucleotides, 2-OH-ATP, 8-oxo-GTP and 8-oxo-ATP (By similarity). Does not play a role in U8 snoRNA decapping activity (PubMed:21070968). Binds U8 snoRNA (PubMed:21070968).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript. All four variants encode the same protein.</p>