

Product datasheet for **MC212604**

Nudt15 (NM_172527) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nudt15 (NM_172527) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nudt15
Synonyms: 6530403O17; A730068G11Rik; MTH2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212604 representing NM_172527
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCTAACGCAGAGCCGAGGCGGCCAGGAGTTGGGGTCGGCGTGGTGGTCTGAGCTGCGAGC
ATCCTCGCTGCGTCCTTCTGGGAAAAGGAAAGGATCGTTGGAGCCGGCAGTTTCCAGCTTCTGGGG
CCATTTGGAATTCGGTGAGACCTGGGAAGAATGCCTCAGAGAGAAACCTGGGAAGAAGCTGGGCTTCC
CTGAAAAATGTGTGCTTTGCCTCCGTGGTAAATTCCTTTGTTGAGAAGGAGAATTACCATTATGTTACCA
TATTAATGAAAGGAGAGGTGGATATGACTCATGATTCCGGAGCCGAGGAATATGGAGCCTGAAAAGATGA
AAGTTGGGAGTGGTTCCATGGGAAGAATCCCTCCCTTAGACCAGCTTTTCTGGGCTCTCCGCTGTCTA
AAAGAGCAAGGTTATGACCCATTTAAAGAGGACCTGAACCACTGGAAGGGTACCGAGGAGAGCACCTTG
AAAGGACCACGAAGACTCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172527
Insert Size: 513 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:	<u>NM_172527.2, NP_766115.1</u>
RefSeq Size:	2592 bp
RefSeq ORF:	513 bp
Locus ID:	214254
UniProt ID:	<u>Q8BG93</u>
Cytogenetics:	14 D3
Gene Summary:	<p>May catalyze the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP (PubMed:12767940). Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives (By similarity). Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in vitro, but the specificity and efficiency towards these substrates are low. Therefore, the potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively damaged forms of nucleosides to prevent their incorporation into DNA, is unclear (PubMed:12767940). Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs (By similarity). May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in its 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>