

Product datasheet for RN211670

Nudt5 (NM_001007733) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Nudt5 (NM_001007733) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Nudt5
 Synonyms: MGC94209
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >RN211670 representing NM_001007733
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGACCCAAGAACCAAAAGACTCTTCTCCCCCACCAGCAGCGCATTCTTTCAGAGGAGTTGATCT
 CAGAAGGAAAAATGGGTCAAATTTGAAAAACAACCTACATGGACCCACCGGTAAAACCTAGAACCTGGGA
 AACAGTGAAGCTTACGACCAGGAAGGGAAAATCTGCTGATGCCGTGTGAGTCATACCAGTCTGCAAAGA
 ACGCTTCATCATGAGTGCATTGCTGCTGGAAGCAGTCCGGCCCCGATGGCGGCTACTGCCTGGAGT
 TCCCAGCAGGGCTCATCGAAGACGGGAAAGCCCAGAAGCGGCTGCTCTGCGGGAGCTGGAGGAAGAGAC
 TGGCTACAAAGGTGACATTGCTGAATGCTCTCCAGCTGTGTGATGGATCCAGGCTGTCAAACCTGCACC
 ACACACGTTGTGACAGTGACCATCAATGGAGATGACGCAGGAAATGTAAGCCGAAACCCAAACCCAGGGG
 ACGGAGAGTTTGTGGAAGTGATTTCTTTACCAAAGAATGATCTGCTGACGAGACTTGACGCTCTGGGTGC
 AGAAGACCGTCTTACAGTGGACGCCAGGGTCTACGCCTATGCTCTGGCGCTGAAACATGCCAACGCCAAG
 CCCTTCGAAGTGCCCTTCTCAAATTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
 ACCN: NM_001007733
 Insert Size: 660 bp



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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).
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_001007733.1</u> , <u>NP_001007734.1</u>
RefSeq Size:	1366 bp
RefSeq ORF:	660 bp
Locus ID:	361274
UniProt ID:	<u>Q6AY63</u>
Cytogenetics:	17q12.3
Gene Summary:	Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate. In absence of diphosphate, hydrolyzes with similar activities various modified nucleoside diphosphates such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP. Can also hydrolyze other nucleotide sugars with low activity. In presence of diphosphate, mediates the synthesis of ATP in the nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate. Nuclear ATP synthesis takes place when dephosphorylated at Thr-45. Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA.[UniProtKB/Swiss-Prot Function]