

## Product datasheet for **MC200239**

### **Nudt5 (BC004571) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nudt5 (BC004571) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nudt5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC004571

```
GCGGTGGCGCCTGATTCTACGGAGACTGCAGCTTCTGCCTGATCCTTTTTCTTTCTCCTCAATCCCTT  
CCACATCCACAGTTTAGTGTAGCTTGAACCTTCCACCTGAGGACTGTGGAGGCCACAAGTCGAAATGG  
AGACCCGAGAATCCACAGAGTCTTCTCCAGGCAAGCACCTTGTTACCTCAGAGGAGTTGATCTCAGAAGG  
AAAATGGGTCAAATTTGAAAAACAACCTTATATGGATCCCACTGGTAAAACCAGAAGCTGGGAAACAGTG  
AACTTACAACCAGGAAGGGAAAATCTGCTGATGCCGTGTCGGTCATACCTGTGCTGCAAAGAACCCTGC  
ACCATGAGTGCCTCATCCTGGTGAAGCAGTTCCGGCCCCCGATGGGCAGCTACTGCCTGGAGTTCCAGC  
AGGTTTCAATCGAAGACGGAGAAAACCCAGAGGCGGCTGCTTTCGGGAGCTGGAGGAAGAACTGGCTAC  
AAAGGTGAAGTTGCGGAATGCTCTCCAGCTGTGTGCATGGATCCAGGCTTGTCAAATGCACCACACATG  
ATTTATGGAAGTGATTTCTTTACCAAAGAATGATCTGCTGACAAGACTTGACGCTTTGGGAGCAGAACA  
CACCTTACAGTGGATGCCAAGGTCTACGCTACGGTCTGGCTCTGAAACACGCCAACTCGAAGCCATTCG  
AAGTGCCCTTCTCAAATTTTAAGGCCAAGGAGGACACTGGCCATGATTTGAAATGAAACCATGCGGCC  
TTCATATTCAAGTATTCAATTAAGTTCAATGTAGGTCATAAATCAGCTTTTTTCGTAAGGACAGCACA  
GATGCATGTGGTATGGAATTATAATTACAGAGAGGATATAACCTTCATTTAAATTTGTTAAATACTCATG  
GAAATGAGTGTATAGTTAGGTATGTTAAATTTATTAACCTCACCTGGTCTAGAAGGTGAGGGTACTTCT  
CAGGAATAGACTCAAGCTCCCAATTAGGTCAGCTATTTCTACCCATAATTCCTAAATCATGTAAGG  
TCTGCAAATAGCTATTTATTAGGCTCACATTTAAAAATTAGGTTGGGTTTTGTTGTCTTGTTTTAAAGC  
AGGGTATCGCCATGTAGCCCTGGCTAGCCTGGAACCTTTTTGCAGACCAGGCTGGCTTTGAACTCCGAG  
CGATTCATCTGTCTGTCTGCCTCTCCAAAGTCTGGGAATAAAGATGTGTAGCACCACACATGGCAAG  
CAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:** RsrII-NotI  
**ACCN:** BC004571  
**Insert Size:** 657 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC004571</a></u> , <u><a href="#">AAH04571</a></u>
<b>RefSeq Size:</b>	1348 bp
<b>RefSeq ORF:</b>	657 bp
<b>Locus ID:</b>	53893
<b>Cytogenetics:</b>	2 A1
<b>Gene Summary:</b>	Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate (By similarity). 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 (PubMed:10722730). Can also hydrolyze other nucleotide sugars with low activity (PubMed:10722730). 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 (By similarity). Nuclear ATP synthesis takes place when dephosphorylated at Thr-44 (By similarity). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (By similarity). Does not play a role in U8 snoRNA decapping activity (PubMed:21070968). Binds U8 snoRNA (PubMed:21070968).[UniProtKB/Swiss-Prot Function]