

## Product datasheet for **RG200952**

### NUDT9 (NM\_198038) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT9 (NM_198038) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUDT9
Synonyms:	NUDT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200952 representing NM_198038 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTGTCTCTCTCTGGCCTTGGCCTCTGTGACTA  
TCAGGTCTCGCGCTGCCGCGGCATCCAGGCGTTCAGAACTCGTTTTTCATCTTCTGGTTTCATCTTAA  
TACCAACGTCATGTCTGGTTCTAATGGTCCAAAGAAAATCTCACATAAAGGCTCGGACGTCTCCTTAC  
CCAGGTTCAAAAGTTGAACGAAGCCAGGTTCTAATGAGAAAGTGGGCTGGCTTGTGAGTGCAAGACT  
ATAAGCCTGTGGAATACACTGCAGTCTGTCTTGGCTGGACCCAGGTGGCAGATCCTCAGATCAGTGA  
AAGTAATTTTTCTCCAAGTTTAAAGAAAAGGATGGGCATGTTGAGAGAAAGAGCAAGAATGGCCTGTAT  
GAGATTGAAAATGGAAGACCGAGAAATCCTGCAGGACGGACTGGACTGGTGGGCCGGGGCTTTTGGGGC  
GATGGGGCCCAATCACGCTGCAGATCCCATTATAACCAGATGGAAAAGGGATAGCAGTGGAAAATAAAT  
CATGCATCCTGTTTCTGGGAAGCATATCTTACAATTTGTTGCAATAAAAAGGAAAGACTGTGGAGAATGG  
GCAATCCCAGGGGGGATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGGTGAAG  
AAGCTCTCAACTCCTTACAGAAAACAGTGCTGAGAAGAGAGAAAATAGAGGAAAAGTTGCACAACTCTT  
CAGCCAAGACCACCTAGTGATATATAAGGGATATGTTGATGATCCTCGAAACACTGATAATGCATGGATG  
GAGACAGAAGCTGTGAACCTACCATGACGAAACAGGTGAGATAATGGATAATCTTATGCTAGAAGCTGGAG  
ATGATGCTGAAAAGTGAATGGGTGGACATCAATGATAAACTGAAGCTTTATGCCAGTCACTCTCAATT  
CATCAAACTTGTGGCTGAGAAACGAGATGCACACTGGAGCGAGGACTCTGAAGCTGACTGCCATGCGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200952 representing NM\_198038  
Red=Cloning site Green=Tags(s)

MAGRLLGKALAAVSLSLALASVTIRSSRCRGIQAFRNSFSSSWFHLNTNVMSGNSGSKENSHNKARTSPY  
 PGSKVERSQVPNEKVGWLVWQDYKPV EYTA VSVLAGPRWADPQISESNFSPKFNEKDGHVERKSKNGLY  
 EIENGRPRNPAGRTGLVGRGLLGRWGNHAADPIITRWKRDSSGNKIMHPVSGKHILQFVAIKRKDCGEW  
 AIPGGMVDPGEKISATLKREFGEEALNSLQKTSAEKREIEEKLHKLFSQDHLVIYKGYVDDPRNTDNAME  
 ETEAVNYHDETGEIMDNLMLEAGDDAGVKWVDINDKLLKYASHSQFIKLVAEKRDAHWESEADCHAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198038

**ORF Size:** 1050 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.

**RefSeq:** [NM\\_198038.1](#), [NP\\_932155.1](#)

**RefSeq Size:** 1379 bp

**RefSeq ORF:** 903 bp

**Locus ID:** 53343

**UniProt ID:** [Q9BW91](#)

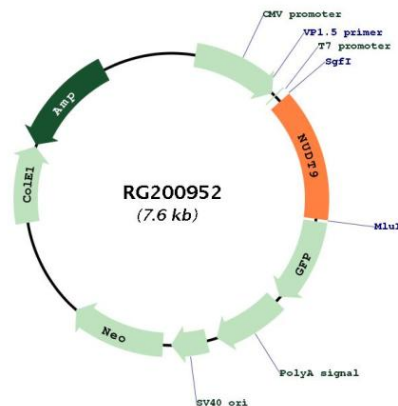
**Cytogenetics:** 4q22.1

**Protein Families:** Druggable Genome, Ion Channels: Other

**Protein Pathways:** Purine metabolism

**Gene Summary:** The protein encoded by this gene belongs to the Nudix hydrolase family. Nudix boxes are found in a family of diverse enzymes that catalyze the hydrolysis of nucleoside diphosphate derivatives. This enzyme is an ADP-ribose pyrophosphatase that catalyzes the hydrolysis of ADP-ribose to AMP and ribose-5-P. It requires divalent metal ions and an intact Nudix motif for enzymatic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

## Product images:



Circular map for RG200952