

Product datasheet for RC200952

NUDT9 (NM_198038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT9 (NM_198038) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUDT9
Synonyms:	NUDT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200952 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTGTCTCTCTCTGGCCTTGGCCTCTGTGACTA
TCAGGTCTCGCGCTGCCGCGCATCCAGGCGTTCAGAACTCGTTTTTCATCTTCTGGTTTCATCTTAA
TACCAACGTCATGTCTGGTTCTAATGGTCCAAAGAAAATCTCACATAAAGGCTCGGACGTCTCCTTAC
CCAGGTTCAAAAGTTGAACGAAGCCAGGTTCTAATGAGAAAGTGGGCTGGCTTGTGAGTGCAAGACT
ATAAGCCTGTGGAATACACTGCAGTCTGTCTTGGCTGGACCCAGGTGGCAGATCCTCAGATCAGTGA
AAGTAATTTTTCTCCAAGTTTAAACGAAAAGGATGGGCATGTTGAGAGAAAGAGCAAGAATGGCCTGTAT
GAGATTGAAAATGGAAGCCGAGAAATCCTGCAGGACGGACTGGACTGGTGGGCCGGGGCTTTTGGGGC
GATGGGGCCAAATCACGCTGCAGATCCCATTATAACCAGATGGAAAAGGGATAGCAGTGGAAAATAAAAT
CATGCATCCTGTTTCTGGGAAGCATATCTTACAATTTGTTGCAATAAAAAGGAAAGACTGTGGAGAATGG
GCAATCCCAGGGGGGATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGGTGAGG
AAGCTCTCAACTCCTTACAGAAAACAGTGCTGAGAAGAGAGAAAATAGAGGAAAAGTTGCACAACTCTT
CAGCCAAGACCACCTAGTGATATATAAGGGATATGTTGATGATCCTCGAAACACTGATAATGCATGGATG
GAGACAGAAGCTGTGAACACCATGACGAAACAGGTGAGATAATGGATAATCTTATGCTAGAAGCTGGAG
ATGATGCTGGAAGTGAATGGGTGGACATCAATGATAAACTGAAGCTTTATGCCAGTCACTCTCAATT
CATCAAATTTGTGGCTGAGAAACGAGATGCACACTGGAGCGAGGACTCTGAAGCTGACTGCCATGCGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200952 protein sequence
Red=Cloning site Green=Tags(s)

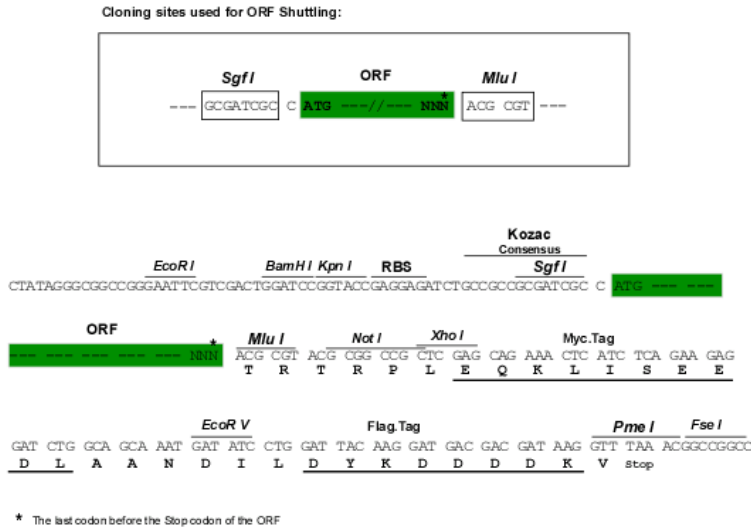
MAGRLLGKALAAVSLSLALASVTIRSSRCRGIQAFRNSFSSSWFHLNTNVMMSGNSGSKENSHNKARTSPY
 PGSKVERSQVPNEKVGWLVWQDYKPV EYTA VSLAGPRWADPQISESNFSPKFNEKDGHVERKSKNGLY
 EIENGRPRNPAGRTGLVGRGLLGRWGNHAADPIITRWKRDSNGKIMHPVSGKHILQFVAIKRKDCGEW
 AIPGGMVDPGEKISATLKREFGEEALNSLQKTSAEKREIEEKLHKLFSQDHLVIYKGYVDDPRNTDNAME
 ETEAVNYHDETGEIMDNLMLEAGDDAGKVKWVDINDKLLKYASHSQFIKLVAEKRDAHWESEADCHAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6400_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198038

ORF Size: 1053 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 Size: 2458 bp

RefSeq ORF: 903 bp

Locus ID: 53343

UniProt ID: [Q9BW91](#)

Cytogenetics: 4q22.1

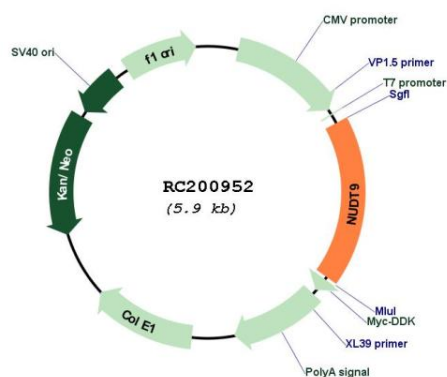
Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Purine metabolism

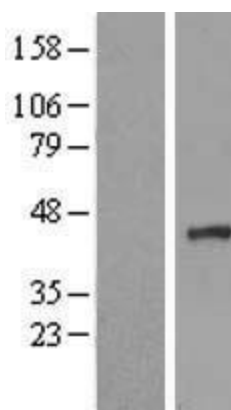
MW: 39.1 kDa

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]

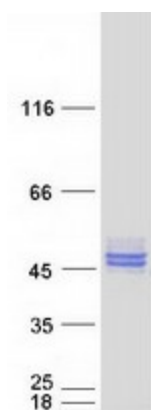
Product images:



Circular map for RC200952



Western blot validation of overexpression lysate (Cat# [LY405100]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200952 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUDT9 protein (Cat# [TP300952]). The protein was produced from HEK293T cells transfected with NUDT9 cDNA clone (Cat# RC200952) using MegaTran 2.0 (Cat# [TT210002]).