

Product datasheet for **RC238268**

NUDT12 (NM_001300741) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NUDT12 (NM_001300741) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NUDT12
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC238268 representing NM_001300741
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCTGTAAAAAGAAGTCTGAAGCAAGAAATAGTTACTCAGTTTCACTGTTCACTGCTGAAGGAG
ATATTGCCAAGTTAACAGGAATACTCAGTCATTCTCCATCTCTTCTCAATGAAACTTCTGAAAAATGGCTG
GACTGCTTTAATGTGTGACAGATCAATTGTCAATAAATCAAGGCAGACTGCACTGGACATTGCTGTATT
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ATGAAGTGGAAAGATGTGAAAATTTATTTAGCAAAACACTACTGGACCGAAAAAGTAAAAAGAGAAATAA
TTCTGACTGGCTGCTAGCTAAAGAAAGCCATCCAGCCACAGTTTTTATTCTTTTCTCAGATTTAAATCCC
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CAGATATAAAGGATTATTTGGCCAGCCTGAGAAGATCACCTTGATTTTTCTGGAGTAGAACTGAAAT
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TGCTTGCCACAGTCGATACAAGTTTGGCCAACCTGTGGAAATGCAACTAAAATTGAAGAAGGTGGCTAT
AAGAGATTATGTTTAAAAAGAAGACTGTCTAGTCTCAATGGCGTCCATAATACCTCATACCCAAGAGTTG
ATCCAGTAGTAATCATGCAAGTTATTATCCAGATGGGACCAAATGCCTTTTAGGCAGGCAGAAAAGATT
TCCCCAGGCATGTTTACTTGCCTTGTGGATTATTAGCCTGGAGAGACAATAGAAGATGCTGTTAGG
AGAGAAGTAGAAGAGGAAAGTGGAGTCAAAGTTGGCCATGTTCAAGTATGTTGCTTGTCAACCATGGCCAA
TGCTTCTCCTTAATGATTGGTTGCTTAGCTCTAGCAGTGTCTACAGAAATTAAGTTGACAAGAATGA
AATAGAGGATGCCCGCTGGTTCACTAGAGAACAGGTCTGGATGTTCTGACCAAAGGGAAGCAGCAGGCA
TTCTTTGTGCCACCAAGCCGAGCTATTGCATCAATTAATCAAACACTGGATTAGAATAAATCCTAATC
TC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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MSSVKRSLKQEIVTFHCSAAEGDIAKL TGILSHSPSLLNETSENGWTALMCDRSIVNKSQRTALDIAVF
 WGYKHIANLLATAKGGKPPWFLTNEVEECENYFSKTLDRKSEKRNSDWLLAKESHPTVFI LFSDLNP
 LVTLLGKNKESFQQPEVRLCQLNYTDIKDYLAQPEKITLIFLGVLEIKDKLLNYAGEVPREEEDGLVAWF
 ALGIDPIAAEEFKQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSRYKFCPTCGNATKIEEGGY
 KRLCLKEDCPSLNGVHNTSYPRVDPVIMQVIHPDGTCLLGRQKRFPMPMFTCLAGFIEPGETIEDAVR
 REVEEESGVKGVHVQYVACQPWPMPSSLMIGCLALAVSTEIKVDKNEIEDARWFTREQVLDVLTGKGQQA
 FFVPPSRAIAHQLIKHWIRINPNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

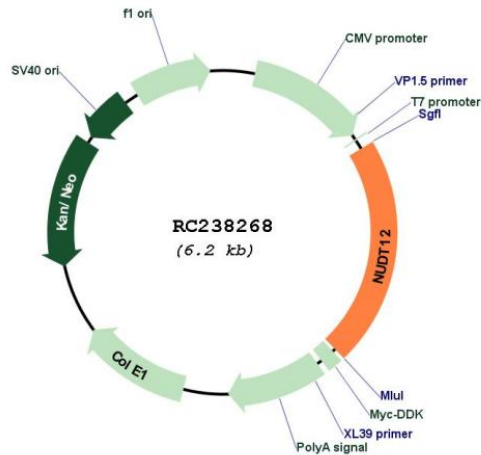
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001300741
ORF Size:	1332 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:	<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:	NM_001300741.2
RefSeq Size:	3460 bp
RefSeq ORF:	1335 bp
Locus ID:	83594
UniProt ID:	Q9BQG2
Cytogenetics:	5q21.2
Protein Pathways:	Nicotinate and nicotinamide metabolism
MW:	50.5 kDa
Gene Summary:	Nucleotides are involved in numerous biochemical reactions and pathways within the cell as substrates, cofactors, and effectors. Nudix hydrolases, such as NUDT12, regulate the concentrations of individual nucleotides and of nucleotide ratios in response to changing circumstances (Abdelraheim et al., 2003 [PubMed 12790796]).[supplied by OMIM, Mar 2008]