

## Product datasheet for **RG238268**

### NUDT12 (NM\_001300741) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT12 (NM_001300741) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUDT12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238268 representing NM_001300741. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTTCTGTAAGAAGTCTGAAGCAAGAAATAGTTACTCAGTTTCACTGTTCACTGCTGAAGGA
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AAAGGGAAGCAGCAGGCATTCTTTGTGCCCAAGCCGAGCTATTGCACATCAATTAATCAAACACTGG
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```



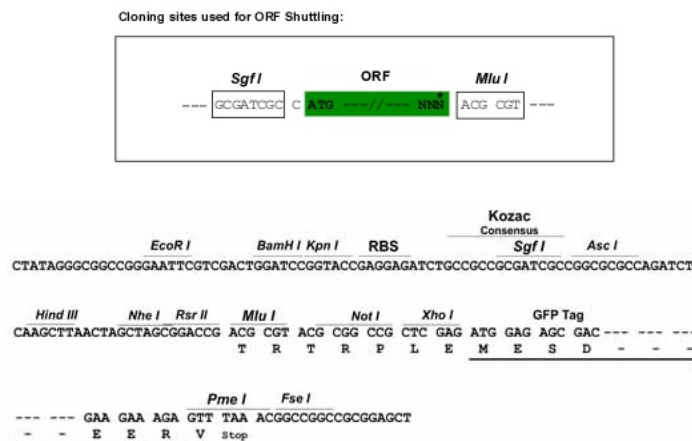
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG238268  
Blue=ORF Red=Cloning site Green=Tag(s)

MSSVKRSLKQEIVTFHCSAAEGDIAKLTGILSHSPSLLNETSENGWTALMCDRSIVNKSQRQTALDIAV  
 FWGKHIANLLATAKGGKPPWFLTNEVEECENYFSKTL LDRKSEKRNNSDWLLAKESH PATVFI LFSDL  
 NPLVTLGGNKESFQQPEVRLCQLNYTDIKDYLAQPEKITLIFLGVLEIKDKLLNYAGEVPREEDGLV  
 AWFALGIDPIAAEEFKQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSRYKFCPTCGNATKIE  
 EGGYKRLCLKEDCP SLNGVHNTSYPRVDPVIMQVIHPDGT KCLLGRQKRFPPGMFTCLAGFIEPGETI  
 ED AVRREVEEESGVKVGHVQYVACQPWPMPSSLMIGCLALAVSTEIKVDKNEIEDARWFTREQVLDVLT  
 KGKQQAFFVPPSRAIAHQLIKHWIRINPNL  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

**RefSeq:** [NM\\_001300741.2](#)

RefSeq Size: 3460 bp  
 RefSeq ORF: 1335 bp  
 Locus ID: 83594

UniProt ID: [Q9BQG2](#)

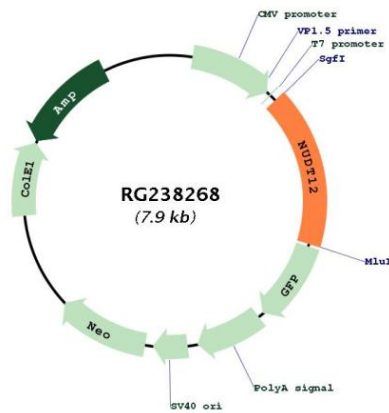
Cytogenetics: 5q21.2

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]

**Product images:**



Circular map for RG238268