

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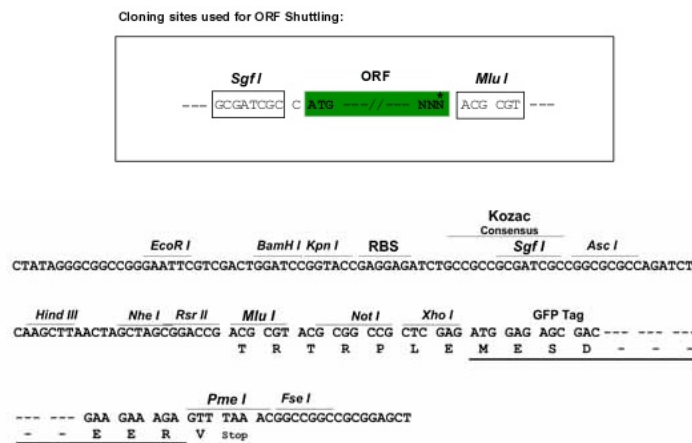
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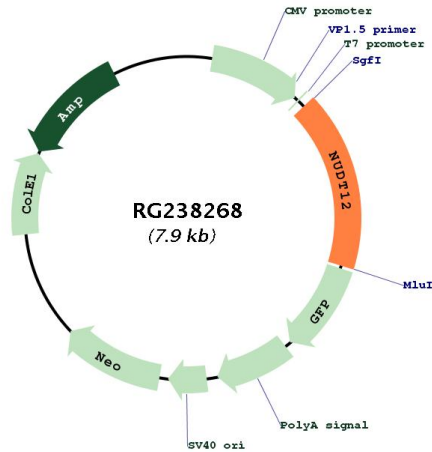
Protein Sequence: >Peptide sequence encoded by RG238268
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSVKRSLKQEIVTFHCSAAEGDIAKLTGILSHSPSLLNETSENGWTALMCDRSIVNKSQRTALDIAV
 FWGYKHIANLLATAKGGKPPWFLTNEVEECENYFSKTL LDRKSEKRNNSDWLLAKESH PATVFI LFSDL
 NPLVTLGGNKESFQQPEVRLCQLNYTDIKDYLAQPEKITLIFLGVLEIKDKLLNYAGEVPREEDGLV
 AWFALGIDPIAAEEFKQRHENCYFLHPPMPALLQLKEKEAGVVAQARSVLAWHSRYKFCPTCGNATKIE
 EGGYKRLCLKEDCPSLNGVHNTSYPRVDPVIMQVIHPDGTKCLLGRQKRFP PGMFTCLAGFIEPGETI
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 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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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).

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]