

Product datasheet for RC202982

NUDT22 (NM_032344) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT22 (NM_032344) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUDT22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202982 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCTGAGGTGACCTTGCTGCTGCAGTGCCCTGGCGGGGGCCTGCCCCAGGAGCAGATACAGGCCG
AGCTGAGCCCCGCCCATGACCGTCGCCCCTGCCAGGTGGGGACGAGGCCATCACTGCCATCTGGGAGAC
CCGGCTAAAGGCCCAACCTGGCTCTTCGACGCCCCAAGTTCGCTGCACTCAGCCACCCTGGCGCT
ATTGGCTCTCGGGGGCCACAGCTGCTCCTGCGCCTGGGCCTTACTTCTACCGAGACTTCCTGGGCACCA
ACTGGTCCAGCTCAGCTGCCTGGCTGCGACAGCAGGGTGCCACCGACTGGGGTGACACGCAGGCCTATCT
GGCGGACCCACTGGGGGTGGGCGCTGCACTAGCCACAGCCGATGACTTCCTTGCTTCTCGCGCCGCTCC
CGGCAGGTGGCTGAGGCCCTGGGCTGGTGGACGTACCTGGTGGGCACCCTGAGCCTCAGGCCCTGTGCC
CTGGTGGCAGCCCCAGCACCAGGACCTCGCTGGGCAGCTGGTGGTACATGAACCTCTTTCCAGTGTCT
TCAGGAGATCTGTGATGAGGTGAACCTGCCGCTGCTCACCTGAGCCAGCCCCTGCTGTTGGGCATCGCC
CGAAATGAGACCAGTGTGGCCGAGCCAGTGCCGAGTTCTATGTCCAGTGACGCTGACTTCTGAGCAGG
TGAGGAAGCACTACCTGAGTGGGGGACCCGAGGCCACGAGTCTACAGGAATCTTCTTTGTGGAGACACA
GAACGTGCGGAGATTGCCCGAGACGGAGATGTGGGCTGAACCTGCCCCCTCGGCCAAAGGCGCCATCATC
CTCTACAACCGGTTTCAGGGAAGTCCCACTGGAGCGGCCCTAGGGTCCCAGCCCTACTCCCGCCGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC202982 protein sequence
 Red=Cloning site Green=Tags(s)

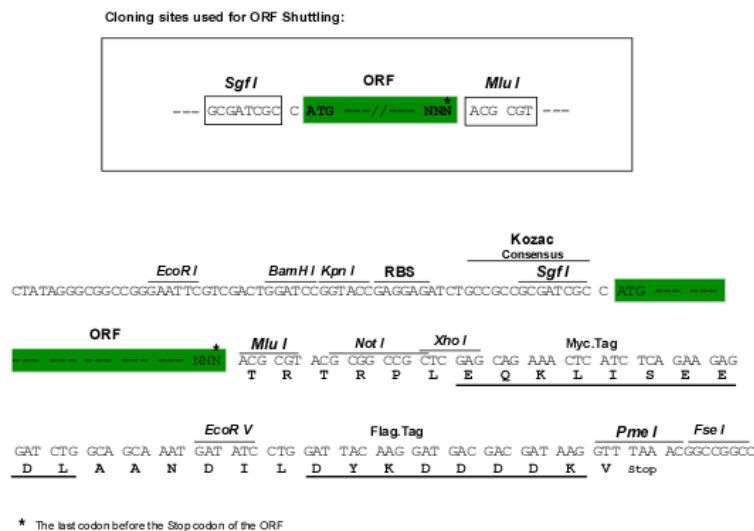
MDPEVTL LLQCPGGGLPQEIQAE LSPAHDRRLPGGDEAITAIWETRLKAQPWLF DAPKFR LHSATLAP
 IGSRG PQLLRLGLT SYRDF LGTNWSSSAWLRQQGATDWGDTQAYLADPLGVGAALATADDFLVFLRRS
 RQVAEAPGLVDVPGGHPEPQALCPGGSPQH QDLAGQLV VHEL FSSVLQEICDEVNLP LLT LSQLLLGIA
 RNETSAGRASAEFYVQCSLTSEQVRKHYL SGGPEAHESTGIFFVETQNVRRLPETEMWAE LCP SAKGAI I
 LYNRVQGSPTGAALGSPALLPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6579_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032344

ORF Size: 909 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_032344.3

RefSeq Size: 1141 bp

RefSeq ORF: 912 bp

Locus ID: 84304

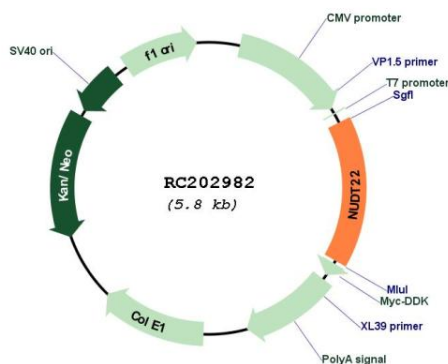
UniProt ID: Q9BRQ3

Cytogenetics: 11q13.1

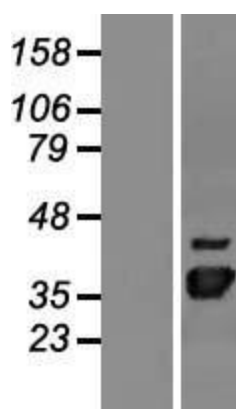
MW: 32.6 kDa

Gene Summary: Hydrolyzes UDP-glucose to glucose 1-phosphate and UMP and UDP-galactose to galactose 1-phosphate and UMP. Preferred substrate is UDP-glucose.[UniProtKB/Swiss-Prot Function]

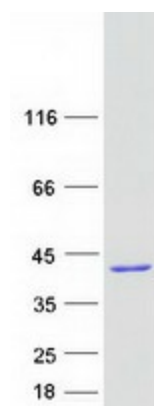
Product images:



Circular map for RC202982



Western blot validation of overexpression lysate (Cat# [LY426974]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225424] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUDT22 protein (Cat# [TP302982]). The protein was produced from HEK293T cells transfected with NUDT22 cDNA clone (Cat# RC202982) using MegaTran 2.0 (Cat# [TT210002]).