

## Product datasheet for **RG208717**

### NUDT10 (NM\_153183) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NUDT10 (NM\_153183) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NUDT10  
**Synonyms:** APS2; DIP3-alpha; DIP3a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208717 representing NM\_153183  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTGCAAAACCAACCAGACACGGACCTACGACCCGAGGGGTTCAAGAAGCGGGCGGCGTGCCTGT  
 GCTTCCGGAGCGAGCGCAGGACGAGGTCCTGTTAGTGAGTAGCAGCCGGTACCCGGACCGCTGGATCGT  
 GCCGGGCGGGGCATGGAGCCGAGGAGGAGCCGGCGGTGCGGCGGTCCGAGAGGTGTACGAAGAGGCG  
 GGAGTCAAGGGGAAGTTAGGCCGGCTCCTGGGCGTCTTGAACAGAACAGGACCCGAGCACAGAACGT  
 ACGTGTATGTACTGACTGTCACGGAGCTGCTGGAGGATTGGGAAGATTTCGTTAGCATTGGGAGGAAGCG  
 AGAGTGGTTCAAAGTCGAAGATGCCATCAAGGTTCTCCAGTGCCACAAGCCCGTGACGCCGAATATCTG  
 GAGAACTAAAGCTGGGCGGTTCCCAACCAATGGAACTCCATGGCCCCATCCTCGCCAGATAGCGATC  
 CC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208717 representing NM\_153183  
 Red=Cloning site Green=Tags(s)

MKCKPNQTRTYDPEGFKKRAACLCFRSEREDEVLVSSSRYPDRWIVPGGMEPEEPPGGAHVREYEEA  
 GYKGLGRLLGVFEQNQDPEHRTYVYVLVTLELLEDWEDSVSIGRKREWFVEDAIKVLQCHKPVHAEYL  
 EKLKLGSPNTNGNSMAPSSPDSDP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

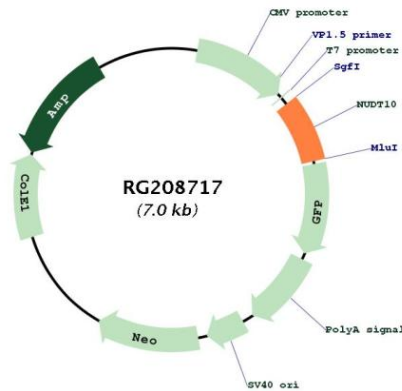

ACCN:	NM_153183
ORF Size:	492 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
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"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<a href="#">NM_153183.1</a> , <a href="#">NP_694853.1</a>
RefSeq Size:	2020 bp
RefSeq ORF:	495 bp
Locus ID:	170685

UniProt ID: [Q8NFP7](#)

Cytogenetics: Xp11.22

**Gene Summary:** This gene is a member of the nudix (nucleoside diphosphate linked moiety X)-type motif containing family. The encoded protein is a phosphohydrolase and may regulate the turnover of diphosphoinositol polyphosphates. The turnover of these high-energy diphosphoinositol polyphosphates represents a molecular switching activity with important regulatory consequences. Molecular switching by diphosphoinositol polyphosphates may contribute to the regulation of intracellular trafficking. In some populations putative prostate cancer susceptibility alleles have been identified for this gene. Alternatively spliced transcript variants, which differ only in the 5' UTR, have been found for this gene. [provided by RefSeq, Feb 2015]

## Product images:



Circular map for RG208717