

## Product datasheet for **RG222818**

### NT5C3 (NT5C3A) (NM\_001002010) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NT5C3 (NT5C3A) (NM_001002010) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NT5C3A
Synonyms:	cN-III; hUMP1; NT5C3; P5'N-1; P5N-1; p36; PN-I; POMP; PSN1; UMPH; UMPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222818 representing NM_001002010 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGGCCCCGTCCATGGACCGCGCGCCGTGGCGAGGGTGGGCGCGGTAGCGAGCGCCAGCGTGTGCG  
CCCTGGTGGCGGGGGTGGTGTGCTGGCTCAGTACATATTCACCTTGAAGAGGAAGACGGGGCGGAAGACCAA  
GATCATCGAGATGATGCCAGAATCCAGAAAAGTTCAGTTCGAATCAAGAACCCTACAAGAGTAGAAGAA  
ATTATCTGTGGTCTTATCAAAGGAGGAGCTGCCAACTTCAGATAATAACGGACTTTGATATGACTCTCA  
GTAGATTTTCATATAAAGGGAAAAGATGCCAACATGTCATAATATCATTGACAAGTGAAGCTGGTTAC  
AGATGAATGTAGAAAAAGTTATTGCAACTAAAGGAAAAATATTACGCTATTGAAGTTGATCCTGTCTT  
ACTGTAGAAAGAGAAGTACCCTTATATGGTGAATGGTATACTAAATCACATGGTTTGTCTGTTCAGCAAG  
CTTTACAAAAGCTAAACTTAAAGAAATTTGGCAGAATCTGACGTTATGCTCAAAGAAGGATATGAGAA  
TTTCTTTGATAAGCTCCAACAACATAGCATCCCCGTGTTTCATATTTTCGGCTGGAATCGGCGATGACTA  
GAGGAAGTTATTCGTCAGCTGGTGTATCATCCCAATGTCAAAGTTGTGTCGAATTTTATGGATTTTG  
ATGAACTGGGGTGTCAAAGGATTTAAAGGAGAACTAATTCATGTATTTAACAAACATGATGGTGCCTT  
GAGGAATACAGAATTTTCAATCAACTAAAAGACAATAGTAACATAATTTCTTCTGGGAGACTCCCAAGGA  
GACTTAAGAATGGCAGATGGAGTGGCCAATGTTGAGCACATTCTGAAAATTGGATATCTAAATGATAGAG  
TGGATGAGCTTTTAGAAAAGTACATGGACTCTTATGATATTGTTTTAGTACAAGATGAATCATTAGAAGT  
AGCCAACCTATTTTACAGAAGATTCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222818 representing NM\_001002010  
Red=Cloning site Green=Tags(s)

MRAPSMDRAAVARVGAVASASVCALVAGVLAQYIFTLKRKTGRKTKIEMMPEFQKSSVRIKNPTRVEE  
 IICGLIKGGAALKQIITDFDMTLSRF SYGKRCPTCHNIIDNCKLVTDECRKLLQLKEKYAIEVDPVL  
 TVEEKYPYMVEWYTKSHGLLVQALPKAKLKEIVAESDVMLKEGYENFFDKLQQHSIPVIF SAGIGDVL  
 EEVIRQAGVYHPNVKVS NFMDFDETGLKGFKGELIHVFNKHDGALRNTEYFNQLKDNSNIILLGDSQG  
 DLRMADGVANVEHILKIGYLNDRVDELLEKYMDSYDIVLVQDESLEVANSILQKIL

TRTRPLE - GFP Tag - V

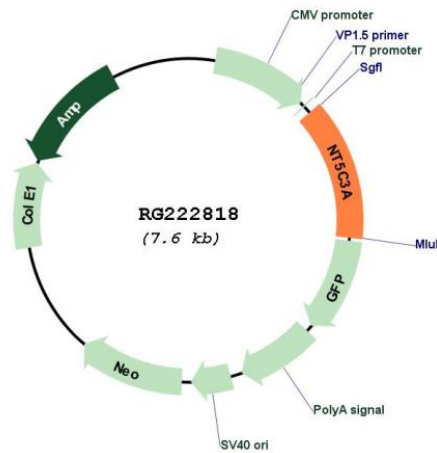
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001002010

**ORF Size:** 1008 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_001002010.2</a>
<b>RefSeq Size:</b>	1688 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	51251
<b>UniProt ID:</b>	<a href="#">Q9H0P0</a>
<b>Cytogenetics:</b>	7p14.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism
<b>Gene Summary:</b>	<p>This gene encodes a member of the 5'-nucleotidase family of enzymes that catalyze the dephosphorylation of nucleoside 5'-monophosphates. The encoded protein is the type 1 isozyme of pyrimidine 5' nucleotidase and catalyzes the dephosphorylation of pyrimidine 5' monophosphates. Mutations in this gene are a cause of hemolytic anemia due to uridine 5'-prime monophosphate hydrolase deficiency. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and pseudogenes of this gene are located on the long arm of chromosomes 3 and 4. [provided by RefSeq, Mar 2012]</p>