

## Product datasheet for **RG228802**

### NT5C3 (NT5C3A) (NM\_001166118) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NT5C3 (NT5C3A) (NM_001166118) 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:	>RG228802 representing NM_001166118 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACTAATCAAGAGTCTGCCGTACATGTGAAAATGATGCCAGAATCCAGAAAAGTTTCAGTTCGAATCA  
AGAACCCTACAAGAGTAGAAGAAATTATCTGTGGTCTTATCAAAGGAGGAGCTGCCAACTTCAGATAAT  
AACGGACTTTGATATGACTCAGTAGATTTTCATATAAAGGGAAAAGATGCCAACATGCATAATATC  
ATTGACAACGTAAAGCTGGTTACAGATGAATGTAGAAAAAGTTATTGCAACTAAAGGAAAAATACTACG  
CTATTGAAGTTGATCCTGTTCTTACTGTAGAAGAGAAGTACCCTTATATGGTGAATGGTATACTAAATC  
ACATGGTTTGCTTGTTCAGCAAGCTTTACCAAAAGCTAAACTTAAAGAAATTGTGGCAGAATCTGACGTT  
ATGCTCAAAGAAGGATATGAGAATTTCTTTGATAAGCTCCAACAACATAGCATCCCCGTGTTTCATATTTT  
CGGCTGGAATCGGCGATGTAAGAGGAAGTATTTCGTCGAGGAGTGGTGGTATATCCCAATGTCAAAGT  
TGTGTCCAATTTTATGGATTTTGTGAACTGGGGTGCTCAAAGGATTTAAAGGAGAACTAATTCATGTA  
TTTAAACAACATGATGGTGCCTTGAGGAATACAGAATATTTCAATCAACTAAAAGACAATAGTAACATA  
TTCTTCTGGGAGACTCCAAGGAGACTTAAAGATGGCAGATGGAGTGGCCAATGTTGAGCACATTCTGAA  
AATTGGATATCTAAATGATAGAGTGGATGAGCTTTTAGAAAAGTACATGGACTCTTATGATATTGTTTTA  
GTACAAGATGAATCATTAGAAGTAGCCAACCTCTATTTTACAGAAGATTCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228802 representing NM\_001166118  
 Red=Cloning site Green=Tags(s)

MTNQESAVHVKMMPEFQKSSVRIKNPTRVEEIIICGLIKGGAAKLQIITDFDMLSRFSYKGRKRCPTCHNI  
 IDNCKLVTDECRKLLQLKEKYAIEVDPVLTVEEKYPYVWEYTKSHGLLVQQALPKAKLKEIVAESDV  
 MLKEGYENFFDKLQQHSIPVVFIFSAGIGDVL EEVIRQAGVYHPNVKVVSNFMDFDETGVLKGFKGELIHV  
 FNKHDGALRNTEYFNQLKDNSNIILLGDSQGLRMADGVANVEHILKIGYLNDRVDELLEKYMDSYDIVL  
 VQDESLEVANSILQKIL

TRTRPLE - GFP Tag - V

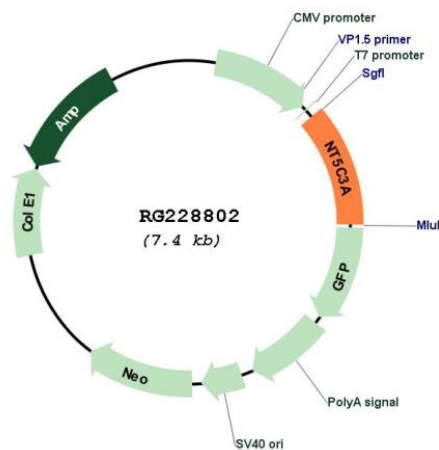
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001166118

**ORF Size:** 894 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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_001166118.2</a> , <a href="#">NP_001159590.1</a>
<b>RefSeq Size:</b>	1932 bp
<b>RefSeq ORF:</b>	858 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>	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]