

## Product datasheet for **RG231909**

### NT5C (NM\_001252377) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NT5C (NM\_001252377) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NT5C  
**Synonyms:** cdN; DNT; dNT-1; DNT1; HEL74; P5N2; PN-I; PN-II; UMPH2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231909 representing NM\_001252377  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGGAGCGTGCCTGCTGGTGGACATGGACGGCGTCTGGCCGACTTCGAGGCCGGCCTCCTGC  
GGGGCTCCGCCCGCTTCCCTGAGGAGCCGACGTGCCGCTGGAGCAACGCCGCGCTTCTGGCCCC  
CGAGCAGTACCGGCCCTGCGGCCGACCTGGCGGATAAAGTGGCCAGTGTGTACGAAGCCCGGGCTTT  
TTCCTGGACCTGGAGCCCATCCCGGAGCCTTGGACGCTGTGCGGGAGATGAACGACCTACCGACACGC  
AGGTCTTCATCTGCACCAGCCCTGCTGAAGTACCACCTGTGTGGGTGAGAAGGAGGAGACCCCAAG  
CTGGGAGCACATCTTGTTCACCTGCTGCCACAATCGGCACCTGGTCTGCCCCGACAAGGAGACGGCTG  
CTCTCCTGGAGTGACAACTGGAGGGAGATCTTAGATAGCAAGCGCGGAGCTGCGCAGCGGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231909 representing NM\_001252377  
Red=Cloning site Green=Tags(s)

MARSVRVLVMDGVLADFEAGLLRGFRRRFPEEPHVPLEQRRGFLAREQYRALRPDLADKVASVYEAPGF  
FLDLEPIPGALDAVREMNDLPDTQVFICTSPLLYHHCVGEKEETPSWEHILFTCCHNRHLVLPTRRRRL  
LSWSDNWREILDSKRGAAQRE

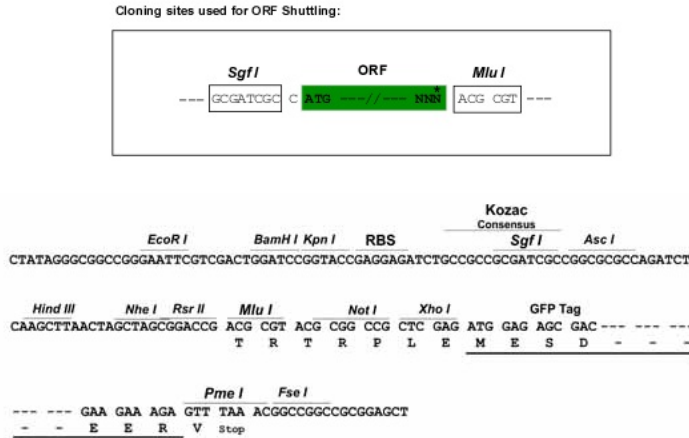
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

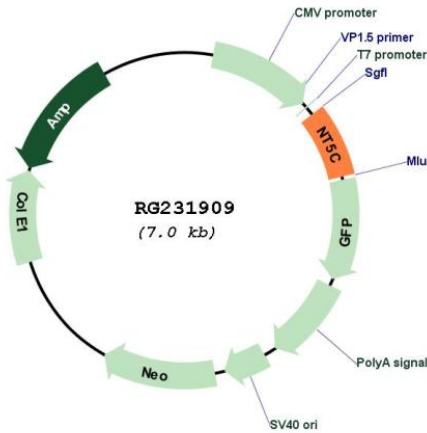


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001252377

ORF Size: 483 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.

<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>	<u>NM_001252377.1, NP_001239306.1</u>
<b>RefSeq Size:</b>	855 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	30833
<b>UniProt ID:</b>	<u>Q8TCD5</u>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism
<b>Gene Summary:</b>	This gene encodes a nucleotidase that catalyzes the dephosphorylation of the 5' deoxyribonucleotides (dNTP) and 2'(3')-dNTP and ribonucleotides, but not 5' ribonucleotides. Of the different forms of nucleotidases characterized, this enzyme is unique in its preference for 5'-dNTP. It may be one of the enzymes involved in regulating the size of dNTP pools in cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011]