

## Product datasheet for **MG217314**

### **Nt5c2 (NM\_001164365) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nt5c2 (NM_001164365) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nt5c2
Synonyms:	2010002I23Rik; cN-II; CnII; ENSMUSG00000025039; Gm9751; Gmp; Nt5b; Pnt5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG217314 representing NM\_001164365  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGACTCCGATTCCGGGCCATCCGCTGCTGTCTTCTGACCTCGAAGAGCACCAGAATTCATCCTACAA  
ATAAGATGACGACTCCTGGAGTGACCGCTTACAGAAATGCAGCAGATGTGCCTGCTAACATGGATAAGCA  
TGCCCTGAAAAAGTACCGTCGAGAAGCCTATCACCGGGTGTGTTGTAACC GAAGTTAGCCATGGAAAA  
ATAAAGTGTGGTTTTGATATGGATTATACCTAGCCGTGTACAAGTCTCCAGAATATGAATCCCTTG  
GCTTTGAGCTTACTGTGGAGAGATTAGTTTCATTGGCTATCCTCAGGAGCTGCTCAGCTTTGCATATGA  
TTCTACATTCCCTACCAGAGGACTTGTCTTTGACACGCTCTATGGAAATCTTTTGAAGTTCGATGCCTAT  
GGAAACCTCTTGGTGTGTGCACATGGATTTAATTCATAAGAGGACCAGAACTAGAGAGCAGTATCCAA  
ATAAAATTTATCCAACGAGATGACTGAAACGGTTTTACATTCTGAACACACTATTCAATCTCCAGAGAC  
CTACCTGTTGGCCTGCCTCGTAGATTTTTTACTAATTGTCCCAGATACACCAGTTGTGACACAGGATTT  
AAAGATGGGGACCTTTCATGTCCTACCGTAGCATGTTCCAGGACGTAAGAGACGAGTGGACTGGGTCC  
ATTACAAGGGCTCCCTAAGGAGAAGACGGTGAAGTCTTGAGAAGTATGTCGTCGAAGGATGGCAAGTT  
GCCGTTGCTTCTGAGCCGAAATGAAGGAAGTAGGAAAAGTGTTTCTGGCTACTAACAGTACTATAAGTAC  
ACAGATAAAAATCATGACTTACCTGTTTGGATTTCCCGCATGGCCCCAAGCCCGGGGAGCTCCACCGGCCGT  
GGCAGTCTACTTTGACCTGATTTTGGTGGATGCTCGAAACCACTCTTTTTGGAGAAGGCACAGTGTCT  
GCGTCAGGTGGACTAAAAGTGGAAAAGTGAAGTTCGACCTACACGGGCCCTGCAGCAGGGCATT  
GTCTACTCAGGGGTTTCACTGATAACAATCTGTGACCTGTTGGAGCTAAGGGCAAAGACATTTTGTTGAT  
TTGGAGATCACATTTTTGGAGACATTCTGAAGTCAAAGAAACGGCAAGGGTGGAGACTTTCTTGGTGAT  
TCCTGAGCTTGCGCAGGAGCTCCACGTCGTGACGGAAGGAGTTCACTCTTTGAAGAATCTCAAGCTTG  
GATATTTCTTGCTGAACTCTACAAGCACCTGGACAGCAGTAGCAATGAGCGCCCGGACATTAGTTCCA  
TCCAGAGACGGATTAAGAAAGTAACTCATGACATGGACATGTGCTATGGGATGATGGGAAGCCTGTTCCG  
CAGCGGCTCCCGGCAGACTCTTGGCAGCCAAGTGTGCGCTATGCAGATCTCTATGCGGCTCGTTC  
ATCAACCTGCTGTACTACCCATTCAGCTACCTCTTCCAGAGCTGCCCATGCTCCTGATGCCGCAGGATCAA  
CGGTGGAACACACGCATGTGGATATCAATGAGATGGAGTCCCCTCTCGCCACCGGAACCGCACGTCAGT  
GGATTTCAAAGACTGACTATAAGCGACACCAGCTTACAAGTCCATTAGTGAGATCAAGCCCCAAC  
CTTTCCCGCTGGCCCCCAGGAGATCACACTGCCATGATGAAGATGATGATGAAGAGGAAGAAGAGG  
AAGAA

**ACGGTACGCGGCGCTCGAG - GFP Tag - GTTAA**

**Protein Sequence:**

>MG217314 representing NM\_001164365  
Red=Cloning site Green=Tags(s)

MQLRFRAIRCLLTSKSTRIHPTNKMTTWSDDLQNAADVPANMDKHALKRYREAYHRVFVNRSLAMEK  
IKCFGDFMDYTLAVYKSPYESLGFELVERLVSIGYPQELLSFAYDSTFPTRGLVFDLYGNLLKVDAY  
GNLLVCAHGFNFIRGPETREYQPNKFIQRDDTERFYILNLFNLPETYLLACLVDFFTNCPRYTSCDGTG  
KDGDLFMSYRSMFQDVRDAVDWVHYKGSLEKVTENLEKVVVVDGKPLLLSRMKEVGKVFATNSDYKY  
TDKIMTYLDFPHGPKPGSSHQPWQSYFDLILVDARKPLFFGEGTVLRQVDTKGKLGKIGTYTGPLQHG  
VYSGSSDTICDLLGAKGKDILYIGDHIFGDILKSKKRQGWRTFLVIPELAQELHVTWTKSSLFEELQSL  
DIFLAELYKHLDSSNERPDISSIQRRIKKVTHDMDMCMYGMMSLFRSGSRQTLFASQVMRYADLYAASF  
INLLYYPFSYLFRAAHVLMPESTVEHVDINEMESPLATRNRTSVDFKDTDYKRHLTRISIEIKPPN  
LFPLAPQEIITHCHDEDDDEEEEEEE

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001164365

**ORF Size:** 1755 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.

**RefSeq:** [NM\\_001164365.2](#)

**RefSeq Size:** 3838 bp

**RefSeq ORF:** 1758 bp

**Locus ID:** 76952

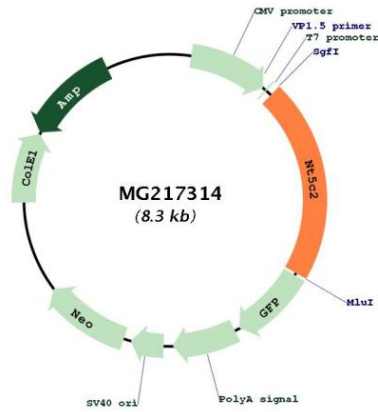
**UniProt ID:** [Q3V1L4](#)

**Cytogenetics:** 19 C3

**Gene Summary:**

May have a critical role in the maintenance of a constant composition of intracellular purine/pyrimidine nucleotides in cooperation with other nucleotidases. Preferentially hydrolyzes inosine 5'-monophosphate (IMP) and other purine nucleotides (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217314