

Product datasheet for **MG218651**

Nt5c2 (NM_001164363) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nt5c2 (NM_001164363) 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:

>MG218651 representing NM_001164363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCGGGGTCCGGGCGGGTGC GCGGCTGCGGCGGGACCTGGCAGGACGCGAAGAATTCATCCTA
 CAAATAAGATGACGACCTCCTGGAGTGACCGCTTACAGAATGCAGCAGATGTGCCTGCTAACATGGATAA
 GCATGCCTTGAAAAAGTACCGTCGAGAAGCCTATCACCGGGTGTGGTGAACCGAAGTTTAGCCATGGAA
 AAAATAAAGTGTGGTGGTGGTATGATGGATTATACCTAGCCGTGTACAAGTCTCCAGAATATGAATCCC
 TTGGCTTTGAGCTTACTGTGGAGAGATTAGTTCCATTGGCTATCCTCAGGAGCTGCTCAGCTTTGCATA
 TGATTCTACATCCCTACCAGAGGACTTGTCTTTGACACGCTCTATGAAATCTTTGAAAGTCGATGCC
 TATGGAAACCTCTGGTGTGTGCACATGGATTTAACTTCATAAGAGGACCAGAACTAGAGAGCAGTATC
 CAAATAAATTTATCCAACGAGATGACACTGAACGGTTTTACATTCTGAACACACTATTCAATCTCCCAGA
 GACCTACCTGTTGGCCTGCCTCGTAGATTTTTTTACTAATTGTCCAGATACACCAAGTTGTGACACAGGA
 TTTAAAGATGGGACCTCTCATGTCCTACCGTAGCATGTTCCAGGACGTAAGAGACGCAGTGGACTGGG
 TCCATTACAAGGGCTCCCTTAAGGAGAAGACGGTTGAAAATCTTGAGAAGTATGTCGTCGAAGGATGGCAA
 GTTGCCGTTGCTTCTGAGCCGAATGAAGGAAGTAGGGAAGTGTCTGGCTACTAACAGTGACTATAAG
 TACACAGATAAAATCATGACTTACCTGTTTGATTTCCCGCATGGCCCAAGCCCGGGAGCTCCCACCGGC
 CGTGGCAGTCTACTTTGACCTGATTTTGGTGGATGCTCGGAAACCACTTTTTTTGGAGAAGGCACAGT
 GCTGCGTCAGGTGGACACTAAACTGAAAACTGAAAATTTGGCACCTACACGGGCCCCCTGCAGCACGGC
 ATTTGCTACTCAGGGGTTTACTGTGATACAATCTGAAGTCAAAGAAACGGCAAGGGTGGAGACTTTCTTGGT
 ATATTGGAGATCACATTTTTGGAGACATTTCTGAAGTCAAAGAAACGGCAAGGGTGGAGACTTTCTTGGT
 GATTCCTGAGCTTGCAGGAGCTCCACGCTCTGGACGGACAAGAGTTCACTCTTTGAAAGAACTTCAAAGC
 TTGGATATTTTCTGGCTGAACCTACAAGCACCTGGACAGCAGTAGCAATGAGCGCCCGGACATTAGTT
 CCATCCAGAGACGGATTAAGAAAGTAACTCATGACATGGACATGTGCTATGGGATGATGGGAAGCCTGTT
 CCGCAGCGGCTCCCGGCAGACACTCTTTGCCAGCCAAGTATGCGCTATGCAGATCTCTATGCGGCTCG
 TTCATCAACCTGCTGACTACCCATTAGCTACCTCTTCCAGAGCTGCCCATGTCTGATGCCGCACGAGT
 CAACGGTGAACACACGCATGTGGATATCAATGAGATGGAGTCCCCTCTCGCCACCCGGAACCGCACGTC
 AGTGGATTTCAAAGACACTGACTATAAGCGACACCAGCTTACAAGGTCCATTAGTGAGATCAAGCCCCC
 AACCTCTTCCCGCTGGCCCCCAGGAGATCACACTGCCATGATGAAGATGATGATGAAGAGGAAGAAG
 AGGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218651 representing NM_001164363
 Red=Cloning site Green=Tags(s)

MVPGSGPGARLRDLARTRRIHPTNKMTTSWSDRLQNAADV PANMDKHALKKYRREAYHRVFNRLAME
 KIKCFGDMDYTLAVYKSPEYESLGFELTVERLVSIGYPQELLSFAYDSTFPTRGLVFDLTYGNLLKQVDA
 YGNLLVCAHGFNFIRGPETREQYPNKF IQRDDTERFYILNLFNLPETYLLACLVDFFTNCPRYTSCDTG
 FKDGLFMSYRSMFQDVRDAVDWVHYKGSLEKTKVENLEKYVVKDGLPLLLSRMKEVGKVFATNSDYK
 YTDKIMTYLFDLPHGPKPGSSHRPWQSYFDLILVDARKPLFFGEGTVLRQVDTKTKLKIIGTYTGPLQHG
 IVYSGSSDTICDLLGAKGKDILYIGDHIFGDILKSKKRQGWRTFLVIPELAQELHWVTDKSSLFEELQS
 LDIFLAELYKHLDSNNRPDISSIQRRIKKVTHDMDMCMGSLFRSGSRQTLFASQVMRYADLYAAS
 FINLLYYPFSYLFRAAHVLMPESTVEHHTVDINEMESPLATRNRTSVDFKDDTDYKRHQLTRISEIKPP
 NLFPLAPQEITHCHDEDDDEEEEEEE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164363

ORF Size: 1758 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_001164363.2](#)

RefSeq Size: 4181 bp

RefSeq ORF: 1761 bp

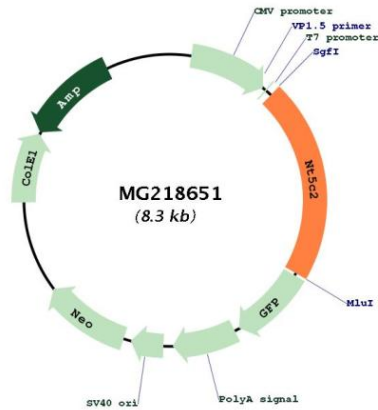
Locus ID: 76952

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 MG218651