

Product datasheet for **MR218651**

Nt5c2 (NM_001164363) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nt5c2 (NM_001164363) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nt5c2
Synonyms:	2010002I23Rik; cN-II; CnII; ENSMUSG00000025039; Gm9751; Gmp; Nt5b; Pnt5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218651 representing NM_001164363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCGGGGTCCGGGCGGGTGC GCGGCTGCGGCGGGACCTGGCAGGACGCGAAGAATTCATCCTA
 CAAATAAGATGACGACCTCCTGGAGTGACCGCTTACAGAATGCAGCAGATGTGCCTGCTAACATGGATAA
 GCATGCCTTGAAAAAGTACCGTCGAGAAGCCTATCACCGGGTGTGGTGAACCGAAGTTTAGCCATGGAA
 AAAATAAAGTGTGGTGGTGGTATGATGATTATACCTAGCCGTGTACAAGTCTCCAGAATATGAATCCC
 TTGGCTTTGAGCTTACTGTGGAGAGATTAGTTCCATTGGCTATCCTCAGGAGCTGCTCAGCTTTGCATA
 TGATTCTACATCCCTACCAGAGGACTTGTCTTTGACACGCTCTATGAAATCTTTGAAAGTCGATGCC
 TATGGAAACCTCTGGTGTGTGCACATGGATTTAACTTCATAAGAGGACCAGAACTAGAGAGCAGTATC
 CAAATAAATTTATCCAACGAGATGACACTGAACGGTTTTACATTCTGAACACACTATTCAATCTCCCAGA
 GACCTACCTGTTGGCCTGCCTCGTAGATTTTTTTACTAATTGTCCAGATACACCAGTTGTGACACAGGA
 TTTAAAGATGGGACCTCTTCATGTCCTACCGTAGCATGTTCCAGGACGTAAAGAGACGCAGTGGACTGGG
 TCCATTACAAGGGCTCCCTTAAGGAGAAGACGGTTGAAAATCTTGAGAAGTATGTCGTCGAAGGATGGCAA
 GTTGCCGTTGCTTCTGAGCCGAATGAAGGAAGTAGGAAAAGTGTCTGGCTACTAACAGTGACTATAAG
 TACACAGATAAAATCATGACTTACCTGTTTGATTTCCCGCATGGCCCAAGCCCGGGAGCTCCCACCGGC
 CGTGGCAGTCTACTTTGACCTGATTTTGGTGGATGCTCGGAAACCACTCTTTTTGGAGAAGGCACAGT
 GCTGCGTCAGGTGGACACTAAACTGAAAACTGAAAATTTGGCACCTACACGGGCCCCCTGCAGCACGGC
 ATTTGCTACTCAGGGGTTTATCTGATAACAATCTGACCTGTTGGGAGCTAAGGGCAAAGACATTTTGT
 ATATTGGAGATCACATTTTTGGAGACATTTCTGAAGTCAAAGAAACGGCAAGGGTGGAGACTTTCTTGGT
 GATTCCTGAGCTTGCGCAGGAGCTCCACGTCTGGACGGACAAGAGTTCACCTCTTTGAAAGAACTTCAAAGC
 TTGGATATTTTCTGGCTGAACCTACAAGCACCTGGACAGCAGTAGCAATGAGCGCCCGGACATTAGTT
 CCATCCAGAGACGGATTAAGAAAGTAACTCATGACATGGACATGTGCTATGGGATGATGGGAAGCCTGTT
 CCGCAGCGGCTCCCGGCAGACACTCTTTGCCAGCCAAGTATGCGCTATGCAGATCTCTATGCGGCCTCG
 TTCATCAACCTGCTGTACTACCCATTACGCTACCTCTTCAGAGCTGCCCATGTCTGATGCCGCACGAGT
 CAACGGTGAACACACGCATGTGGATATCAATGAGATGGAGTCCCCTCTCGCCACCCGGAACCGCACGTC
 AGTGGATTTCAAAGACACTGACTATAAGCGACACCAGCTTACAAGGTCCATTAGTGAGATCAAGCCCCC
 AACCTCTTCCCGCTGGCCCCCAGGAGATCACACACTGCCATGATGAAGATGATGATGAAGAGGAAGAAG
 AGGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218651 representing NM_001164363
 Red=Cloning site Green=Tags(s)

MVPGSGPGARLRDLARTRRIHPTNKMTTWSDRLQNAADV PANMDKHALKKYRREAYHRVFNRS LAME
 KIKCFGDMDYTLAVYKSPEYESLGFELTVERLVSIGYPQELLSFAYDSTFPTRGLVFDTLYGNLLK VDA
 YGNLLVCAHG FNFIRGPETREQYPNKF IQRDDTERFYILN TLFNLPETYLLACLVDFFTNCPRYTSCDTG
 FKDGDLFMSYRSMFQDVRDAVDWVHYKSLKEKTVENLEKYVVKDGKLP LLLSRMKEVGVFLATNSDYK
 YTDKIMTYLFD FPHGPKPGSSHRPWQSYFDLILVDARKPLFFGEGTVLRQVDTKTGKLIKIGTYTGPLQH G
 IVYSGSSDTICDLLGAKGKDILYIGDHIFGDILKSKKRQGWRTFLVIPELAQELHWVTDKSSLFEELQS
 LDIFLAELYKHL DSSSNERPDISSIQRRIKKVTHDMDMCYGMMSLFRSGSRQTLFASQVMRYADLYAAS
 FINLLYYPFSYL FRAAHVLPHESTVEHETHVDINEMESPLATRNRTSVDFKDDTDYKRHLTRTSISEIKPP
 NLFPLAPQEITHCHDEDDDEEEEEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

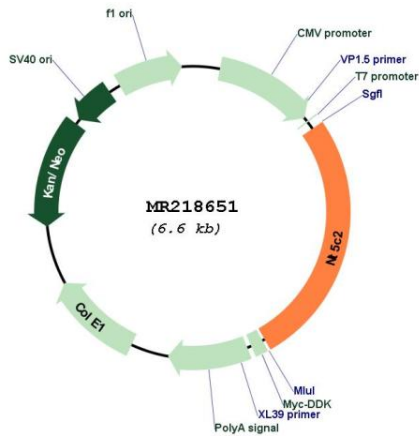
UniProt ID: [Q3V1L4](#)

Cytogenetics: 19 C3

MW: 68.2 kDa

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 MR218651