

Product datasheet for **MR208873**

Nt5c2 (NM_029810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nt5c2 (NM_029810) 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:

>MR208873 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGACCTCCTGGAGTGACCGCTTACAGAATGCAGCAGATGTGCCTGCTAACATGGATAAGCATGCCT
 TGA AAAAGTACCGTCGAGAAGCCTATCACCGGGTGTGTTGTGAACCGAAGTTTAGCCATGGAAAAATAAA
 GTGTTTTGGTTTTGATATGGATTATACCCTAGCCGTGTACAAGTCTCCAGAATATGAATCCCTTGCTTT
 GAGCTTACTGTGGAGAGATTAGTTTCCATTGGCTATCCTCAGGAGCTGCTCAGCTTTGCATATGATTCTA
 CATTCCCTACCAGAGGACTTGTCTTTGACACGCTCTATGGAAATCTTTTAAAAGTCGATGCCTATGGAAA
 CCTCTTGGTGTGTGCACATGGATTTAACTTCATAAGAGGACCAGAACTAGAGAGCAGTATCCAAATAAA
 TTTATCCAACGAGATGACTGAACGGTTTTACATTCTGAACACACTATTCAATCTCCAGAGACCTACC
 TGTTGGCCTGCCTCGTAGATTTTTTTACTAATTGTCCAGATACACCAGTTGTGACACAGGATTTAAGA
 TGGGGACCTCTCATGTCTACCGTAGCATGTTCCAGGACGTAAGAGACGCAGTGGACTGGTCCATTAC
 AAGGGCTCCCTTAAGGAGAAGACGGTTGAAAATCTTGAGAAGTATGTCGTCGAAGGATGGCAAGTTGCCGT
 TGCTTCTGAGCCGAATGAAGGAAGTAGGGAAAAGTGTTCCTGGCTACTAACAGTACTATAAGTACACAGA
 TAAAATCATGACTTACCTGTTTGTATTTCCCGCATGGCCCCAAGCCCGGGAGCTCCACCGGCCGTGGCAG
 TCCTACTTTGACCTGATTTTGGTGGATGCTCGGAAACCACTCTTTTTGGAGAAGGCACAGTGTGCGTC
 AGGTGGACACTAAAACCTGGAAAACCTGAAAATGGCACCTACACGGGCCCCCTGCAGCACGGCATTGTCTA
 CTCAGGGGTTTCTGATACAATCTGTGACCTGTTGGGAGCTAAGGGCAAGACATTTTGTATATTGGA
 GATCACATTTTTGGAGACATTCTGAAGTCAAAGAAACGGCAAGGGTGGAGACTTTCTTGGTGATTCCTG
 AGCTTCCGACAGGACTCCACGTCTGGACGGACAAGAGTTCACTCTTTGAAGAACTCAAAGCTTGGATAT
 TTTCTTGGCTGAACTCTACAAGCACCTGGACAGCAGTAGCAATGAGCGCCCGGACATTAGTTCCATCCAG
 AGACGGATTAAGAAAGTAACTCATGACATGGACATGTGCTATGGGATGATGGGAAGCCTGTTCCGCAGCG
 GCTCCCGGCAGACACTCTTGGCAGCCAAGTGTGCGCTATGCAGATCTCTATGCGGCCTCGTTCATCAA
 CCTGCTGTACTACCCATTAGCTACCTCTCAGAGCTGCCATGTCTGATGCCGCACGAGTCAACGGTG
 GAACACACGCATGTGGATATCAATGAGATGGAGTCCCCTCTCGCCACCCGGAACCGCACGTCAGTGGATT
 TCAAAGACTGACTATAAGCGACACCAGCTTACAAGTCCATTAGTGAGGTCAAGCCCCCGACCTCTT
 CCCGCTGGCCCCCAGGAGATCACACACTGCCATGATGAAGATGATGATGAAGAGGAAGAAGAGGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208873 protein sequence
 Red=Cloning site Green=Tags(s)

MTTWSDDLQNAADV PANMDKHALKKYRREAYHRVFNRLAMEKIKCFGDMDYTLAVYKSPEYESLGF
 ELTVERLVISIGYPQELLSFAYDSTFPTRGLVFDLYGNLLKVDAYGNLLVCAHGFNFIRGPETREQYPNK
 FIQRDDTERFYILNLFNLPETYLLACLVDFFTNCPRYTSCDTGFKDGLFMSYRSMFQDVRDAVDVWHY
 KGSLKEKTVENLEKYVVKDGKPLLLSRMKEVGKVFVFLATNSDYKYTDKIMTYLFDPHGPKPGSSHRPWQ
 SYFDLILVDARKPLFFEGTVLRQVDTKTGKLIKGYTGPLQHGIYVSGGSDTICDLLGAKGKIDILYIG
 DHIFGDILKSKKRQGWRTFLVIPELAQELHVWTDKSSLFEELQSLDIFLAELYKHL DSSSNERPDISSIQ
 RRIKKVTHDMDMCMYGMGSLFRSGSRQTLFASQVMRYADLYAASFINLLYYPFSYLFRAAHVLMPEHSTV
 EHTHVDINEMESPLATRNRTSVDFKDTDYKRHQLTRISSEVKPPDLFPLAPQEI THCHDEDDDEEEEEEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_029810

ORF Size: 1683 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_029810.1](#), [NM_029810.2](#), [NM_029810.3](#), [NM_029810.4](#), [NP_084086.2](#)

RefSeq Size: 3769 bp

RefSeq ORF: 1683 bp

Locus ID: 76952

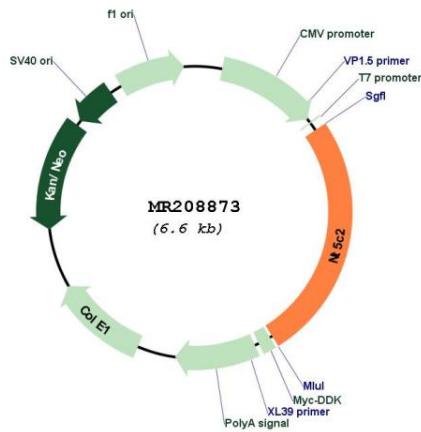
UniProt ID: [Q3V1L4](#)

Cytogenetics: 19 C3

MW: 64.8 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 MR208873