

Product datasheet for **RC231342**

NT5C1B (NM_001199087) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NT5C1B (NM_001199087) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NT5C1B
Synonyms:	AIRP; CN-IB; CN1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC231342 representing NM_001199087
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCAAACATCTCTCAAACAGAAAAAAGATGAGCCTGGAATGAGGTCCTCAAAGAGAGTCTAGAAG
 CAGAAAAAAGAAAGGAATCTGACAAAACAGGAGTTCGTCTGAGCAATCAGATGAGGCGTGCAGTCAATCC
 GAATCACTCGCTGAGATGTTGCCCTTCCAGGGTCACTCGTCGTGTAGACGCTGCCTTTGTGACGCTGAG
 GGAACAGCCCTTGGCCCTGCCACACAATCGTATTTATATTACATGTGCCTGTTGTGGGAGCAGGGCC
 AGCAGATCACCATGATGAGGGTGAAGAGATCACACTACCGATTCTGGAGGGAAACCACAGACAACCTG
 GGGATCACAAGAATCATCACTGCGGAAGACAGACTCTCGAGGGTACCTTGTGCGCAGTCAATGGTCTAGA
 ATATCCCGAGCCATCCACCAAGGCTCCATCCATAGATGAGCCTAGAAGCAGGAACACCAGTGTAAAGC
 TCCCCAGCAGCTCCACGAGCTCCCGACTCCATCCACCTCCCCAAGCCTGCATGACTCCTCACCGCCGCC
 GCTGTCCGGGAGCCCTCGCTCCAGCCACCCGCTCGCCAGCTGCCCGGTGCTGGACTCGCGGCT
 CCCACGCCCCAGAGCCCGATCTGGCTCCCGGCGCAGCACAAAATGCAAGAGAATCCGGAGGCCCTGGG
 CCCAAGGCATCGTGGGAAATCCGCCAGACCCGGGACTCGCAGCCGCTGGAATATTCGCGCACGTCCCC
 CACCGAGTGGAAGTCTCCAGCCAGCGCAGGGGATCTACCCCGCTCCACCCAGCTGGACCGCAACTCT
 CTGTCCGAGCAGCAGCAGCAGCAGCGGGAGGACGAGGACGACTACGAGGCTGCCTACTGGGCATCCATGA
 GGTCGTTCTACGAGAAGAACCCGAGTGTCTCGGCCCTGGCCGCCAAACCCAAAGAACGCCATCACCAT
 TGCTCTCTCATCTGCGCGCTCTTCAACATGGTGGACGGCAGGAAAATCTACGAGCAAGAGGGTCTGGAA
 AAGTACATGGAGTATCAGCTCACCAATGAGAAGTCTATCTGATGAAACAGGACTTATTTGATATTGT
 ACTGATGACTAATAACCATGCCAAGTGGAGTGGGCTTATAAACAGCGTCAATCACTACGGCTTACTG
 ATTGACCGCTTCTGTCTGACCGGGGAAAAGACCCATTGGCTATTTGAAGGCATATCTTACCAACTGT
 ATATTGCTGCAGATTCTGAAAAAGTGAAGAGGCAATACAAGAAGGATTGCCTCTGCGACAATGTTTGA
 TGGAGCCAAAGACATGGCTTACTGTGACACTCAGCTCCGTGTAGCCTTTGATGGGGATGCTGCTCTTTC
 TCTGATGAGTCTGAACATTTTACCAAGGAGCATGGGCTCGACAAATTTCTCCAGTATGATACATTATGTG
 AAAGTAAGCCTCTTGTCTCAGGGTCCCCTAAAAGGCTTTCTGGAAGATTTAGGCAGACTGCAAAAAGAGT
 CTATGCCAAAAATGAACGGTTACTTTGCTCTATCAGGACCTACCTGGTTACAGCTAGGAGTGCAGCCAGT
 TCAGGCGCCCGTGTGCTGAAGACCTTCGACGCTGGGGTCTAGAGATAGACGAAGCTCTTTTCTTGTCTG
 GAGCCCCCAAAGTCCCATCTTGGTGAAGATCCGCCCCACATCTTCTTTGATGACCACATGTTCCACAT
 TGAAGGGGCACAGAGGTTAGGTTCCATCGCAGCTTATGGCTTATAAAAAATTCAGTAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231342 representing NM_001199087
 Red=Cloning site Green=Tags(s)

MSQTSLKQKKNPEGMRSKESLEAEKRKESDKTGVRLSNQMRAVNPNSLRCCPFQGHSSCRRLCAAE
 GTALGPCHTIRIYIHMCLLWEQQQITMMRVSRDHTTDSGGEPQTTWGSQESSLRKTDSTRGYLVRSQWSR
 ISRSPSTKAPSIDEPNRNTSAKLPSSSTSRTPSTSPSLHDSPPPLSGQPSLQPPASPQLPRSLDSRP
 PTPPEPDPGSRRTKMENPEAWAQGIVREIRQTRDSQPLEYSRTSPTWKSQSSQRRIYIPASTQLDRNS
 LSEQQQQREDEDDYEAAYWASMRSFYEKNPSCSRPWPPKPKNAITIALSSCALFNMVDGRKIYEQEGLE
 KYMEYQLTENVILTPGPAFRVKALQYVNRRLDLYPDEQDLFDIVLMTNNAHQVGVRLINSVNHVGLL
 IDRFLTGGKDPYGLKAYLTNLYIAADSEKVEAIQEGIASATMFDGAKDMAYCDTQLRVAFDGDVLF
 SDESEHFTKEHGLDKFFQYDTLCEKPLAQGPLKGFLEDLGRLLQKFFYAKNERLLCPIRTYLVARSAAAS
 SGARVLKTLRRWGLEIDEALFLAGAPKSPILVKIRPHIFFDDHMFHIEGAQRLLGSIYAAYGFNKKFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001199087

ORF Size: 1881 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_001199087.2](#)

RefSeq ORF: 1884 bp

Locus ID: 93034

UniProt ID: [Q96P26](#)

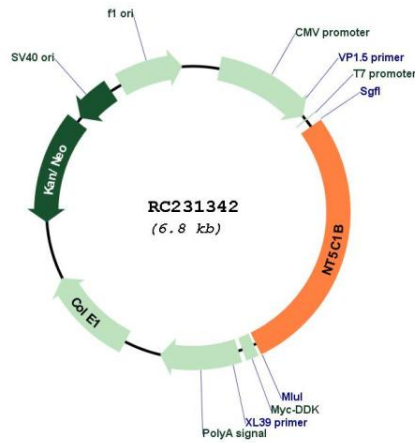
Cytogenetics: 2p24.2

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism

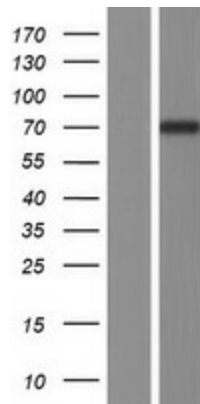
MW: 71.1 kDa

Gene Summary: Cytosolic 5-prime nucleotidases, such as NT5C1B, catalyze production of adenosine, which regulates diverse physiologic processes (Sala-Newby and Newby, 2001 [PubMed 11690631]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RC231342



Western blot validation of overexpression lysate (Cat# [LY434341]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231342 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).