

## Product datasheet for **RC204354**

### NT5C3L (NT5C3B) (NM\_052935) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NT5C3L (NT5C3B) (NM_052935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NT5C3L
Synonyms:	cN-IIIB; NT5C3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204354 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGGCCACGGTCCTGATGCGGCAGCCTGGCGGGTGCAGGAGATCGTGGCGCCCTCCGCAAGGGCG  
GCGGAGACCGTTACAGGTGATTCTGATTTTGACATGACCTTGAGCAGGTTTGCATATAATGAAAAGCG  
ATGCCCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGGAGTGTGCGAAAGAGCTCACA  
GCGCTCCTTACCCTATTACCAATTGAGATCGACCCACACCGGACCGTCAAGGAGAAGCTACCTCATA  
TGGTGAATGGTGGACCAAGCGCACAATCTCCTATGTCAGCAGAAGATTCAGAAGTTTCAGATAGCCCA  
GGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACCATAAC  
AACATTTCCCTTTTCATCTTTCTGCGGGCATTGGTGATCCTGGAAGAAATTATCCGACAGATGAAAG  
TGTTCCACCCCAACATCCACATCGTGTCTAACTACATGGATTTTAAATGAAGATGGTTTTCTCCAGGGATT  
TAAGGGCCAGTGATACACATACAACAAGAAGCAGCTCTGTGTGTGAGAAGTGTGGTTACTTCCAGCAA  
CTTGAGGGCAAACCAATGTCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTC  
CTGGTGTGCAGAACATTCTAAAATTGGCTTCTGAATGACAAGGTGGAGGAGCGCGGGGAGCGCTACAT  
GGACTCCTATGACATCGTGTCTGGAGAAGGACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATC  
CTGTGCCAGGGGTCCAGCTGGAGATGCAAGGCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204354 protein sequence  
Red=Cloning site Green=Tags(s)

MKATVLMRQPGRVQEIVGALRKGGDRLQVISDFDMLSRFAYNGKRCPSSYNILDNSKIISECRKELT  
 ALLHHYPIEIDPHRTVKEKLPHEVWTKAHNLLCQKIQKFQIAQVRESNAMLREGYKTFNTLYHN  
 NIPLFIFSAGIGDILEEIRQMKVFHPNIHIVSNYMDFNEDGFLQGFKGQLIHTYKNKSSVCENCYFQQ  
 LEGKTNVILLGDSIGDLTMADGVPGVQNILKIGFLNDKVEERRERYMDSYDIVLEKDETLDVVNGLLQHI  
 LCQGVQLEMQGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6722\\_b12.zip](https://cdn.origene.com/chromatograms/mk6722_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_052935

**ORF Size:** 876 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\\_052935.2](#), [NP\\_443167.2](#)

**RefSeq Size:** 1430 bp

**RefSeq ORF:** 903 bp

**Locus ID:** 115024

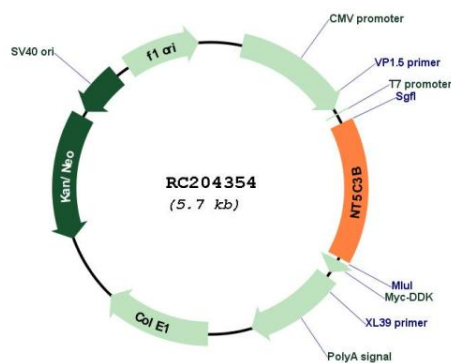
**UniProt ID:** [Q969T7](#)

**Cytogenetics:** 17q21.2

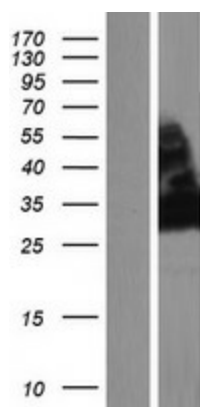
**MW:** 33.6 kDa

**Gene Summary:** Specifically hydrolyzes 7-methylguanosine monophosphate (m(7)GMP) to 7-methylguanosine and inorganic phosphate (PubMed:23223233, PubMed:24603684). The specific activity for m(7)GMP may protect cells against undesired salvage of m(7)GMP and its incorporation into nucleic acids (PubMed:23223233). Also has weak activity for CMP (PubMed:23223233, PubMed:24603684). UMP and purine nucleotides are poor substrates (PubMed:23223233). [UniProtKB/Swiss-Prot Function]

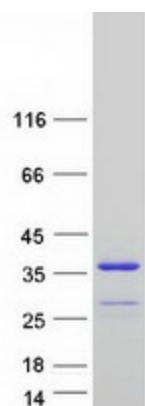
## Product images:



Circular map for RC204354



Western blot validation of overexpression lysate (Cat# [LY409391]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204354 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NT5C3B protein (Cat# [TP304354]). The protein was produced from HEK293T cells transfected with NT5C3B cDNA clone (Cat# RC204354) using MegaTran 2.0 (Cat# [TT210002]).