

Product datasheet for **RR209755**

Nt5c3b (NM_001007723) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nt5c3b (NM_001007723) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nt5c3b
Synonyms:	Nt5c3l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209755 representing NM_001007723 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGAGGAGGTGAGCAGCCTGATGAAGGCCACGGTCCTGATGCGGCAGCCCGGACGGGTGCAGGAAA
TCGTGAGCGCCCTTCGCAGGGCGGAGGAGACCGCCTGCAGGTGATTTCTGATTTTGACATGACCTTGAG
CAGATTTGCTTACAATGGACAGCGATGCCCTCTCCACAATATTCTGGATAACAGCAAATTATCAGT
GAGGATTGTCGAAAGAGCTCACCGAGCTTTTACCACCTATTATCCCATGAGATCGACCCACACCGGA
CCATCAAAGAGAAGCTGCCTCACATGGTGCAGTGGTGGAGCAAAGCCACAGCCTCCTGTGCCAGCAGAG
GATACAGAAGTCCAGATAGCTCAGGTGGTCCGCGAGTCCACTGCGATGCTCAGGGAGGGCTATAAGATG
TTCTTCGACACTCTACCATAACAACATTCTCTTTTCATCTTCTGCGGGCATTGGTGATATCCTGG
AAGAAATTATCCGACAGATGAAGGTGTTCCACCCCAACATCCACATTGTGTCCAACACATGATGATTTAG
TGAGGATGGTTTCTGAAAGGATTCAAGGGCCAGCTCATCCACACCTACAACAAGAACAGCTCCGTGTGT
GAGAACTCCAGTTACTTCCAGCAACTGCGGAACAAAACCAACATCATCTGCTTGGAGACTCCATAGGGG
ACCTCACTATGGCGGATGGGGTCCCTGGAGTACAGAACATTCTGAAGATCGGCTTCTGAATGACAAGGT
GGAGGAGCGGCGAGAAGCTTACATGGACTCCTATGACATTGTGTTGGAGAAGGACGAGACGCTGGACGTG
GTCAATGGGCTGCTGCAGCACATCTGCCCCAGGGGACTGTGTGGAGCTACAGGGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209755 representing NM_001007723
Red=Cloning site Green=Tags(s)

M A E E V S S L M K A T V L M R Q P G R V Q E I V S A L R R G G D R L Q V I S D F D M T L S R F A Y N G Q R C P S S H N I L D N S K I I S
 E D C R K E L T E L F H H Y P I E I D P H R T I K E K L P H M V Q W W S K A H S L L C Q Q R I Q K F Q I A Q V V G E S T A M L R E G Y K M
 F F D T L Y H N N I P L F I F S A G I G D I L E E I I R Q M K V F H P N I H I V S N Y M D F S E D G F L K G F K G Q L I H T Y N K N S S V C
 E N S S Y F Q Q L R N K T N I I L L G D S I G D L T M A D G V P G V Q N I L K I G F L N D K V E R R E R Y M D S Y D I V L E K D E T L D V
 V N G L L Q H I L R Q G D C V E L Q G S

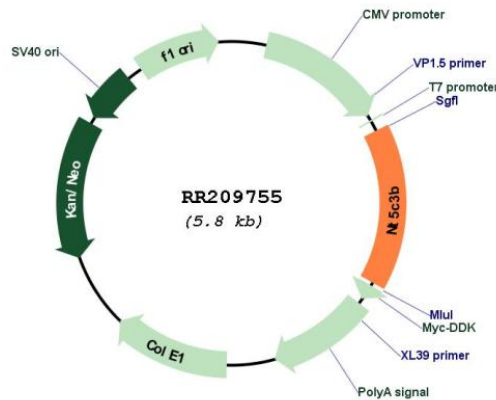
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007723

ORF Size: 900 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:	<ol style="list-style-type: none">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_001007723.2 , NP_001007724.2
RefSeq Size:	1683 bp
RefSeq ORF:	903 bp
Locus ID:	360629
UniProt ID:	Q6AYP7
Cytogenetics:	10q31
MW:	34.5 kDa
Gene Summary:	Specifically hydrolyzes 7-methylguanosine monophosphate (m(7)GMP) to 7-methylguanosine and inorganic phosphate. The specific activity for m(7)GMP may protect cells against undesired salvage of m(7)GMP and its incorporation into nucleic acids. Also has weak activity for CMP. UMP and purine nucleotides are poor substrates (By similarity).[UniProtKB/Swiss-Prot Function]