

## Product datasheet for **RC207737**

### NT5M (NM\_020201) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NT5M (NM\_020201) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NT5M  
**Synonyms:** dNT-2; dNT2; mdN  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC207737 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATCCGGCTGGGCGGCTGGTGTGCGCGCGGCTCTGCAGCGCGCGGTTCCCGCGGGCGCGCGGG  
 CGGCGGGCGGGCTGGGCTGGCGGGAGGCCGCGCCCTACGGGTGCTGGTGGACATGGACGGCGTCTGGC  
 TGACTTCGAGGGCGGATTCCTCAGGAAGTTCGCGCGCGCTTCCCGACCAGCCCTTCATCGCGCTGGAG  
 GACCGGCGCGGCTTCTGGGTGTCGGAGCAGTACGGCCGCCTGCGCCAGGGCTGAGCGAGAAGGCCATCA  
 GCATTTGGGAGTCAAAGAATTTCTTTTTGAAGTTGAGCCTCTGCCAGGGGCCGTGGAAGCTGTCAAGGA  
 GATGGCCAGCCTACAAAACACTGACGTCTTCATCTGCACAAGCCCATCAAGATGTTCAAGTACTGTCCC  
 TATGAGAAGTATGCCTGGGTGGAGAAGTACTTTGGCCCTGACTTTCTGGAGCAGATTGTGCTGACCAGAG  
 ACAAGACCGTGGTCTCTGCTGACCTTCTCATAGACGACCGGCCGGACATCACAGGGGCCGAGCCAACCC  
 CAGCTGGGAGCATGTCTCTTCACTGCCTGCCACAACCAGCACCTGCAGCTGCAGCCCCCGCCGAGG  
 CTGCACTCGTGGGCGGACGACTGGAAGGCCATTCTGGACAGCAAGCGGCCCTGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC207737 protein sequence  
Red=Cloning site Green=Tags(s)

MIRLGGWCARRLCSAAVPAGRRGAAGGLGLAGGRALRVLVMDGVLADFEGGFLRKFRARFPDQPFIALE  
 DRRGFVWSEYGRRLRPLSEKAISIWESKNFFFLEPLGAVEAVKEMASLQNTDVFICTSPIKMFKYCP  
 YEKYAWVEKYFGPDFLEQIVLTRDKTVVSADLLIDDRPDITGAEPTPSWEHVLFTACHNQLQLQPPRRR  
 LHSWADDWKAILDSKRPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6267\\_f08.zip](https://cdn.origene.com/chromatograms/mk6267_f08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020201

**ORF Size:** 684 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\\_020201.4](#)

**RefSeq Size:** 1633 bp

**RefSeq ORF:** 687 bp

**Locus ID:** 56953

**UniProt ID:** [Q9NPB1](#)

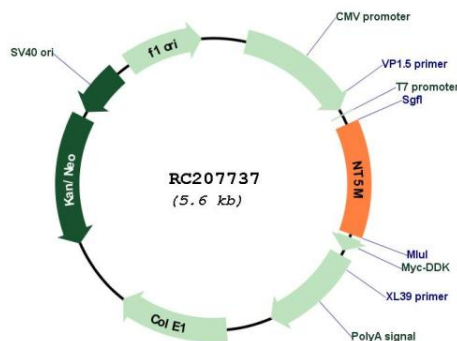
**Cytogenetics:** 17p11.2

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

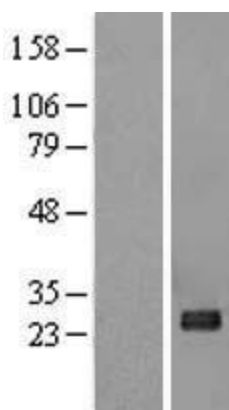
**MW:** 25.9 kDa

**Gene Summary:** This gene encodes a 5' nucleotidase that localizes to the mitochondrial matrix. This enzyme dephosphorylates the 5'- and 2'(3')-phosphates of uracil and thymine deoxyribonucleotides. The gene is located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jul 2008]

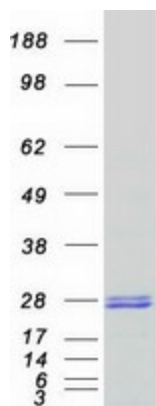
## Product images:



Circular map for RC207737



Western blot validation of overexpression lysate (Cat# [LY412623]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207737 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NT5M protein (Cat# [TP307737]). The protein was produced from HEK293T cells transfected with NT5M cDNA clone (Cat# RC207737) using MegaTran 2.0 (Cat# [TT210002]).