

Product datasheet for **MR202498**

Nt5m (NM_134029) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nt5m (NM_134029) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nt5m
Synonyms: 2010013E09Rik; A1846937; dNT-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202498 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATAGGCTGCGCGGCTGCTGTGCGCGTCCCCGCGGTGCCCGCTACGGGCCGAGCGGAGCCGGGCGA
GCAGCCGCGCCCTGCGGGTGTGGTGGACATGGACGGCGTGTGGCGGACTTTGAGGGCGGCTTCTCCG
GAAGTTCCGCGCGGTTTCCCCGACCTGCCCTTCGTGGCGCTGGAGGACCGCGCGGCTTCTGGGTGTCG
GAGCAGTACGGACGTCTACAGCCTGGGTAAGCGAGAAGGCGATCAGCATCTGGGAGTCAAAGGATTCT
TCTTTGAACCTTGGCCTCTCCCTGGAGCCGTGGAAGCTGTGAAGCAGATGGCCAATCTACAGAACACTGA
TGCTTTCATCTGTACAAGCCCCATCAAGATGTTCAAGTACTGTCCCTATGAGAAGTATGCCTGGGTGGAG
AAGCACTTTGGCCCTGACTTTCTGGAGCAGATTGTGTTGACCAGAGACAAGACTGTGATCTCAGCCGACC
TTCTCATAGATGACCGGCCAGACATCACAGGGGCTGAGCCACATCCCAGCTGGGAGCACATCCTCTTTAC
CTCCTGCCACAACCTACCACCTGCAGCTGCAGCCCCCTCGCCGAGGCTGCACTCATGGGCAGACGACTGG
AAGGCCATCTTGGACAGCAAGCGGCTCCGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202498 protein sequence
Red=Cloning site Green=Tags(s)

MHRLRGCCARPRGAPLRAERSRASSRALRVLVDM DGV LADFE GGF L R KFRARFPDL PFVALED RRGFWVS
 EQYGR LQPGLSEK AISIWESKDF FFELEPLGAVEAVKQMANLQNTDVF ICTSPIKMFKYCPYEKYAWVE
 KHFGPDFLEQIVLTRDKTVISADLLIDDRPDITGAEPHPSWEHILFTSCHNYHLQLQPPRRRLHSWADDW
 KAILDSKRLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134029

ORF Size: 663 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_134029.1](#)

RefSeq Size: 1306 bp

RefSeq ORF: 663 bp

Locus ID: 103850

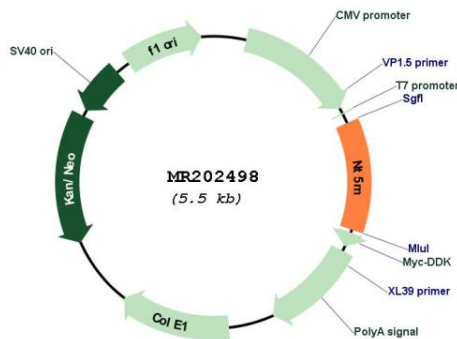
UniProt ID: [Q8VCE6](#)

Cytogenetics: 11 B1.3

MW: 25.6 kDa

Gene Summary: Dephosphorylates specifically the 5' and 2'(3')-phosphates of uracil and thymine deoxyribonucleotides, and so protects mitochondrial DNA replication from excess dTTP. Has only marginal activity towards dIMP and dGMP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202498