

## Product datasheet for **MG202498**

### Nt5m (NM\_134029) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nt5m (NM_134029) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nt5m
Synonyms:	2010013E09Rik; A1846937; dNT-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202498 representing NM_134029 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCATAGGCTGCGCGGCTGCTGTGCGCGTCCCCGCGGTGCCCCGCTACGGGCCGAGCGGAGCCGGGCGA  
GCAGCCGCGCCCTGCGGGTGTGGTGGACATGGACGGCGTGTGGCGGACTTTGAGGGCGGCTTCTCCG  
GAAGTTCGCGCGGTTTCCCCGACCTGCCCTTCGTGGCGCTGGAGGACCGCGCGGCTTCTGGGTGTCG  
GAGCAGTACGGAGCTCTACAGCCTGGGTAAGCGAGAAGGCGATCAGCATCTGGGAGTCAAAGGATTCT  
TCTTTGAACTTGAGCCTCTCCCTGGAGCCGTGGAAGCTGTGAAGCAGATGGCCAATCTACAGAACACTGA  
TGCTTTCATCTGTACAAGCCCCATCAAGATGTTCAAGTACTGTCCCTATGAGAAGTATGCCTGGGTGGAG  
AAGCACTTTGGCCCTGACTTTCTGGAGCAGATTGTGTTGACCAGAGACAAGACTGTGATCTCAGCCGACC  
TTCTCATAGATGACCGGCCAGACATCACAGGGGCTGAGCCACATCCCAGCTGGGAGCACATCCTCTTTAC  
CTCCTGCCACAACCTACCACCTGCAGCTGCAGCCCCCTCGCCGAGGCTGCACTCATGGGCAGACGACTGG  
AAGGCCATCTTGACAGCAAGCGGCTCCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202498 representing NM\_134029  
 Red=Cloning site Green=Tags(s)

MHRLRGCCARPRGAPLRAERSRASSRALRVLVMDGVLADFEGGFLRKFRARFPDLPFVALEDRRGFVWS  
 EQYGRLLQPLSEKAISIWESKDFFELEPLPGAVEAVKQMANLQNTDVFICTSPIKMFKYCPYEKYAWVE  
 KHFGPDFLEQIVLTRDKTVISADLLIDRRPDITGAEPHPSWEHILFTSCHNYHLQLQPPRRRLHSWADDW  
 KAILDSKRLR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_134029

**ORF Size:** 660 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

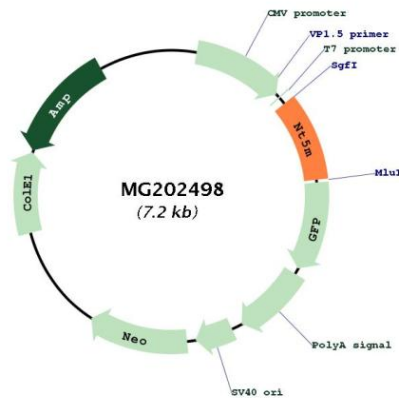
**Locus ID:** 103850

**UniProt ID:** [Q8VCE6](#)

**Cytogenetics:** 11 B1.3

**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 MG202498