

## Product datasheet for **MR202902**

### **Naa40 (NM\_027643) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Naa40 (NM\_027643) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Naa40  
**Synonyms:** 4931433E08Rik; AU023197; Nat11; NatD  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202902 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGAAAGTCGAGCAAAGCCAAAGAGAAGAAGCAGAAACGATTGGAGGAGAGAGCGGCCATGGATG  
CTGTGTGTGCCAAAGTGGATGCTGCCAACAGGCTTGGAGACCCTCTGGAGGCATCCCAGTCTTCAAGAA  
GTATGACCGCAATGGGTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGATTGGAGCCAGCCACTGTG  
GACTGGGCCTTCGACCTGACCAAAACCAATATGCAGACGATGTATGAGCAAAGTGAAGTGGGGCTGGAAGG  
ACCGAGAAAAACGGGAGGAAATGACCGATGACCGAGCCTGGTACCTCATTGCTTGGGAAAACAGTCCAT  
CCCAGTTGCCTTTTCTCACTTCCGGTTTGATGTGGAGTGCGGGGATGAAGTCTGTACTGCTATGAAGTG  
CAGCTGGAAAGCAAGGTACGGCGGAAAGGCCTAGGGAAGTTCTCATTGATCCTGCAGCTCATGGCCA  
ACAGCACACAGATGAAGAAGGTGATGTTAACTGTTTTAAACATAATCATGGCGCCTATCAGTCTTCCG  
AGAGGCACTGCAGTTTGAATTGATGACTCTTACCCAGCATGTCTGGTTGCTGTGGGGAGGACTGTTCC  
TATGAGATTCTGAGCCGGAGGACCAAGTTCGGGACAGTCAGCACTCCACACAGGCGGCCACTGTGGTG  
GCTGTTGCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202902 protein sequence  
Red=Cloning site Green=Tags(s)

MGRKSSKAKEKKQKRLEERAAMDVCAKVDAANRLGDPLEAFPVFKKYDRNGLNVSIECKRVSGLEPATV  
 DWAFDLTKTNMQTMYEQSEWGWKDREKREEMTDDRAWYLI AWENSSIPVAFSHFRFDVECGDEVLYCYEV  
 QLESKVRKGLGKFLIQILQLMANSTQMKKVM LTVFKHNHGAYQFFREALQFEIDDSSPMSMSGCCGEDCS  
 YEILSRRTKFGDSQHSHTGGHC GGCCH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_027643

**ORF Size:** 714 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\\_027643.1](#), [NP\\_081919.1](#)

**RefSeq Size:** 3275 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 70999

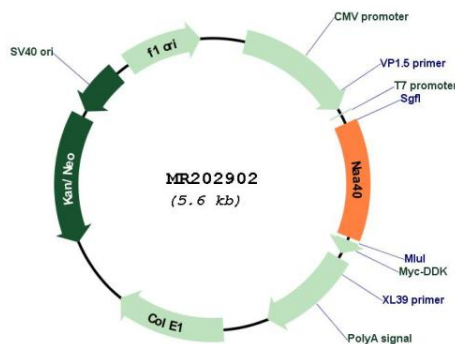
**UniProt ID:** [Q8VE10](#)

**Cytogenetics:** 19 A

**MW:** 27.2 kDa

**Gene Summary:** N-alpha-acetyltransferase that specifically mediates the acetylation of the N-terminal residues of histones H4 and H2A (By similarity). In contrast to other N-alpha-acetyltransferase, has a very specific selectivity for histones H4 and H2A N-terminus and specifically recognizes the 'Ser-Gly-Arg-Gly sequence' (By similarity). Acts as a negative regulator of apoptosis (By similarity). May play a role in hepatic lipid metabolism (PubMed:22231784).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202902