

## Product datasheet for **MR208450**

### **Nags (NM\_178053) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                          |
| Product Name:             | Nags (NM_178053) Mouse Tagged ORF Clone      |
| Tag:                      | Myc-DDK                                      |
| Symbol:                   | Nags   |
| Synonyms:                 | 1700120E20Rik; AI415708; argA; RP23-398F7.13 |
| Mammalian Cell Selection: | Neomycin                                     |
| Vector:                   | pCMV6-Entry (PS100001)                       |
| E. coli Selection:        | Kanamycin (25 ug/mL)                         |



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**ORF Nucleotide Sequence:**

>MR208450 representing NM\_178053  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGACGGCGTGGGTGGCCACAGCCCTGCGGTCTGCTGCAGCGCCAGAAGGTTGCGCAGCCCGGGAG  
 GTCTGGGGGCTCACGGAGACTGAGTGGCAGCGCGCGCGGGGCAAGAGCGCCAGCCCGGGAGC  
 CCGGCTCAGCACCGCCAGGGCTCACGCAGAGGACGCCGAGGGCGCTAAGGGTCGTGTCCAGTCTCTGCG  
 GTCGAGGAGCCGTCGTGGACACCGCTTCCAACGCCCTCGAATCCCTGCGCTCCCGCCGCGAGATCAC  
 TGGTGCAGCGGGACATCCAGGCCCTTCTGAACCAAGTGTGGTCCAGCCCGGGGGAAGCACGCCACTGGCT  
 CACGCAATTCAGACCTGCTACCATTGGTGGACAAGCCCTTCGCGCTCATGGAGTTCGATGAGGAGGTG  
 ATCCGGTGCCCGCAGGCGGTATCCCGCTGGCTTTCGCGCTGGCCTTCTGCAACGCATGGACATGAAGC  
 CACTGGTGGTTCTGGGGCTGCCTACCCCAACGGCACCTTCTGGCTGTCTTCTTCTGGGAAGCTAAGGC  
 GCAGTTGCTCAGAGCTCAAGGTGCTGGTGGATGAACTAAGGCACAACGCGGCTACTGCTGTGCCCTTT  
 TTTGGCGCGGATCAGTACTGAGCGCTGCGGAGCCAGCTCCCATGCCAGCTACGGTGGCATCGTCGCGG  
 TGGAGACAGACCTGTTGCACTGGTGTCTGGAATCCAACAGCATCCCATCCTGTGCCCATTTGGGAAAC  
 GGCTGCGCGCGTTCCTGCTCCTTGAATCGCTGGAGGTGACTGCATCTCTAGCCAAGGCTTTGCAGCCC  
 ACCAAAATCATCTTCTCAATAATTCAGGCGGCCTGCGGAATAACAGTCAGAAGATCCTGAGCAACGTGA  
 ACCTGCCCCGTGACCTTGACCTTGTACCAACGCTGAGTGGTGAGCATCAAAGAGCGGCAGCAGATTCCG  
 GCTCATCGTGGACGTGCTGAGCCGCTGCCGCACTACTCCTCCGAGTCAATACAGCCGCTAGCACGCTG  
 CTCACGGAACCTTTAGTAACAAGGGCTGTGGCACCCCTGTTAAAAATGCTGAGCGGATGCTGCGAGTGC  
 GCAACTGGACAGCCTGGACCAGGGCCGCTAGTGAACCTAGTCAACGCCAGCTTCGGCAAGAAGCTCCG  
 AGAAGACTATCTGGAGTCACTGCGCCCTCGGTTGCACTCGATCTATGTCTCTGAGGGGTACAACGCGCA  
 GCCATTCTGACAGTGAACCTGTACTAGGGGGACCCATATCTGGACAAATTTGTGGTGAAGCTCCAGCC  
 GCCAGGGCCAAGTTCTGGACAGATGCTGTGGGAATGCCTTCGGAGAGACCTGCAAACGTTGTTCTGGCG  
 CTCAAGGGTCACCAATCCCATCAATCCCTGGTACTTCAAGCACAGTGACGGTAGCTTCTCCAACAAGCAG  
 TGGATCTTCTTCTGGTTCGGCTGGCCGACATCCGAGACTCTACGAACTAGTCAATCATGCCAAGGGGC  
 TGCCGGACTCTTCTGCAAACAGCTTCTGACCCAGGCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208450 representing NM\_178053  
 Red=Cloning site Green=Tags(s)

MATAWVATALRSAAAARRLRSPGGPGSSRRRLSGSARRRGAKSASPGRRRLSTARAHAEDEAGKGRVQSPA  
 VEPSWTPLEPTPLESPAPPAGRSLVQRDIQAFLNQCGASPGEARHWLTQFQTCYHSVDKPFVMEVDEEV  
 IRCPQAVSRLAFALAFALQRMKPLVVLGLPTPTAPSGCLSFWEAKAQLAQCKVLVDELRHNAATAVFP  
 FGGGSLVSAAPPHASYGGIVAVETDLLQWCLESNSIPILCPIGETAARRSVLLDSLEVTASLAKALQP  
 TKIIFLNNSGGLRNNSQKILSNVNLPADLDLVNAEWLSIKERQQIRLIVDVL SRLPHYSSAVITAASTL  
 LTELFSNKGCGTLFKNAERMLRVRNLDLSDQGRVNLVNASFGKKLREDYLESLRPRLHSIYVSEGYNAA  
 AILTVEPVLGGTPYLDKFFVSSSRQGGSGQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSDGFSNKKQ  
 WIFFWFLADIRDSYELVNHAKGLPDSFCKPASDPGS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_178053

ORF Size: 1581 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 Size: 1708 bp

RefSeq ORF: 1107 bp

Locus ID: 217214

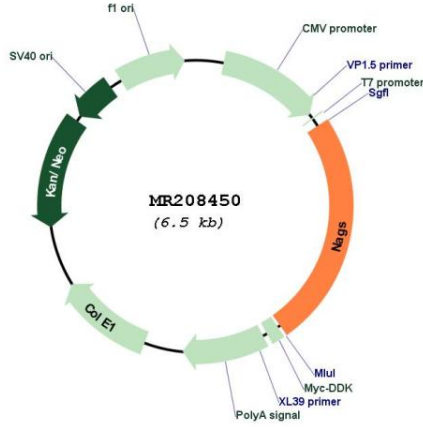
Cytogenetics: 11 D

MW: 62.6 kDa

**Gene Summary:**

Plays a role in the regulation of ureagenesis by producing the essential cofactor N-acetylglutamate (NAG), thus modulating carbamoylphosphate synthase I (CPS1) activity. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208450