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# Product datasheet for MC218924

## Nars (NM_027350) Mouse Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Nars (NM_027350) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Nars |
| **Synonyms:** | 3010001M15Rik; AA960128; ASNRS; C78150 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |

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**Fully Sequenced ORF:**

>MC218924 representing NM_027350
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTCGGAGGTGATTAGGGGGACTGCAGAGATGGTTCTAGAGCTGTATGTATCTGACCGAGAAGGAA
ATGACGCAACCGGGGATGGAACCAAGGAGAAACCATTTAAAACAGGCCTAAAGGCTTTGATGACAGTTGG
AAAAGAGCCATTTCCCACCATTTATGTGGACTCACAAAAGGAAAATGAGAGATGGGATGTTATTTCTAAG
TCACAGATGAAGAACATTAAAAAGATGTGGCACAGAGAACAGATGAAGAACGACTCTAGGGAGAAGAAAG
AGGCAGAAGATAACTTACGAAGAGAAAAGAACCTGGAGGAAGCAAAAAAAATTATTATTAAAAATGACCC
GAGCCTGCCAGAGCCGGCCTGTGTAAAGATTAGTGCATTAGAAGGATACAGAGGCCAGAGAGTGAAGGTG
TTTGGCTGGGTCCACAGGTTGCGCAGGCAAGGAAAGAATTTGATGTTTTTGGTGTTGCGAGATGGTACGG
GTTATCTTCAGTGTGTCTTGTCAGATGACTTGTGTCAGTGTTACAATGGAGTAGTCCTGTCCACCGAGAG
TAGTGTGGCGGTGTACGGAACACTAAACCTAACTCCAAAGGGCAAACAGGCTCCAGGAGGCCATGAGCTG
AGCTGTGACTTCTGGGAACTGGTGGGGCTGGCCCCGGCTGGAGGAGCTGATAACCTGATCAACGAGGAGT
CTGATGTGGATGTCCAGCTCAACAACCGGCACATGATGATCCGGGGAGAGAACATGTCCAAAATCCTGAA
AGCGCGCTCCATGATCACCAGGTGTTTCCGGGACCACTTCTTCGACAGGGGCTACTGTGAAGTTACCACT
CCAACACTGGTGCAGACGCAGGTGGAAGGTGGGGCCACGCTCTTCAAGCTTGACTATTTCGGGGAAGAAG
CGTTTTTGACCCAGTCCTCACAGTTGTACCTGGAGACCTGCCTTCCAGCCCTGGGAGATGTTTTTTGTAT
AGCCCAGTCATACAGGGCCGAACAGTCCAGGACACGAAGGCACCTGGCTGAGTTCACTCACGTGGAAGCT
GAGTGTCCTTTCCTGACCTTCGAGGACCTCCTGAACCGTTTAGAGGACCTAGTGTGTGATGTGGTGGACA
GAGTCCTGAAGTCACCAGTGGCAAGCATAGTGTATGAGCTCAACCCGAACTTTAAACCCCCCAAGCGGCC
TTTCCGCAGGATGAACTACTCGGATGCTATTGAGTGGCTGAAGGAGCATGATGTCAAGAAAGAAGACGGG
ACTTTCTACGAGTTTGGAGATGATATTCCCGAAGCGCCTGAGAGACTGATGACAGACACCATTAATGAAC
CAATCCTGCTGTGTCGCTTTCCTGTGGAGATCAAGTCTTTCTATATGCAGCGCTGTCCTGAGGATCCTCG
ACTTACTGAATCTGTGGACGTGTTGATGCCCAACGTTGGTGAGATTGTAGGTGGCTCGATGCGCTCCTGG
GACAGTGAGGAGATTCTCGAAGGCTATAAGAGGGAAGGGATTGACCCCGCTCCTTACTACTGGTATACAG
ATCAGAGAAAATATGGCACCTGTCCTCATGGAGGGTATGGCTTGGGCTTGGAACGATTTCTTAGCTGGAT
TCTGAACAGGTATCACATCCGAGATGTGTGCCTGTACCCTCGATTTCTCCAGCGCTGCAGGCCATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_027350

**Insert Size:** 1677 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_027350.3, NP_081626.2 |
| **RefSeq Size:** | 2660 bp |
| **RefSeq ORF:** | 1677 bp |
| **Locus ID:** | 70223 |
| **UniProt ID:** | Q8BP47 |
| **Cytogenetics:** | 18 E1 |
| **Gene Summary:** | Catalyzes the attachment of asparagine to tRNA(Asn) in a two-step reaction: asparagine is first activated by ATP to form Asn-AMP and then transferred to the acceptor end of tRNA(Asn). In addition to its essential role in protein synthesis, acts as a signaling molecule that induces immune response in a CCR3-dependent manner.[UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (2) is 1 aa shorter than isoform 1. |

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