

Product datasheet for **MC218975**

Nars (NM_001142950) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nars (NM_001142950) 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: >MC218975 representing NM_001142950
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCGGAGGTGATTAGGGGACTGCAGAGATGGTCTAGCAGAGCTGTATGTATCTGACCGAGAAG
 GAAATGACGCAACCGGGATGGAACCAAGGAGAAACCATTAAAAACAGGCCTAAAGGCTTTGATGACAGT
 TGGAAAAGAGCCATTTCCACCATTATGTGGACTCACAAAAGGAAAATGAGAGATGGGATGTTATTTCT
 AAGTCACAGATGAAGAACATTAAGATGTGGCAGAGAACAGATGAAGAACGACTCTAGGGAGAAGA
 AAGAGGCAGAAGATAACTACGAAGAGAAAAGAACCTGGAGGAAGCAAAAAAATTATTATTAATAATGA
 CCCGAGCCTGCCAGAGCCGGCCTGTGTAAGATTAGTGCATTAGAAGGATACAGAGGCCAGAGAGTGAAG
 GTGTTTGGCTGGTCCACAGGTTGCGCAGGCAAGGAAAGAATTTGATGTTTTTGGTGTTCGAGAGTGGTA
 CGGGTTATCTTCAGTGTGCTTGTGAGTACTGTGTCAGTGTACAATGGAGTAGTCTGTCCACCGA
 GAGTAGTGTGGCGGTGTACGGAACCTAACTAACTCCAAAGGGCAAACAGGCTCCAGGAGGCCATGAG
 CTGAGCTGTGACTTCTGGAACTGGTGGGGCTGGCCCCGGCTGGAGGAGCTGATAACCTGATCAACGAGG
 AGTCTGATGTGGATGTCCAGCTCAACAACCGGCACATGATGATCCGGGGAGAGAATGTCCAAAATCCT
 GAAAGCGCGCTCCATGATCACCAGGTGTTCCGGGACCACTTCTTCGACAGGGGCTACTGTGAAGTTACC
 ACTCCAACACTGGTGCAGACGCAGGTGGAAGGTGGGGCCACGCTCTTCAAGCTTGACTATTTCCGGGGAAG
 AAGCGTTTTTGACCCAGTCTCACAGTTGTACCTGGAGACCTGCCTTCCAGCCCTGGGAGATGTTTTTTG
 TATAGCCAGTCATACAGGGCCGAACAGTCCAGGACACGAAGGCACCTGGCTGAGTTCACACAGTGGAA
 GCTGAGTGTCTTCTGACCTTCGAGGACCTCCTGAACCGTTTAGAGGACCTAGTGTGTGATGTGGTGG
 ACAGAGTCTGAAGTACCAGTGGCAAGCATAGTGTATGAGCTCAACCCGAACCTTAAACCCCAAGCG
 GCCTTTCCGAGGATGAACACTCGGATGCTATTGAGTGGCTGAAGGAGCATGATGTCAAGAAAGAAGAC
 GGGACTTTCTACGAGTTTGGAGATGATATCCCGAAGCGCCTGAGAGACTGATGACAGACACCATTAATG
 AACCAATCTGTGTGCTGCTTCTGTGGAGATCAAGTCTTCTATATGCAGCGCTGCTGAGGATCC
 TCGACTTACTGAATCTGTGGACGTGTTGATGCCAACGTTGGTGGAGATTGAGGTGGCTCGATGCGCTCC
 TGGGACAGTGAGGAGATTCTCGAAGGCTATAAGAGGGAAGGGATTGACCCGCTCCTTACTACTGGTATA
 CAGATCAGAGAAAATATGGCACCTGTCTCATGGAGGGTATGGCTTGGGCTTGAACGATTTCTTAGCTG
 GATTCTGAACAGGTATCACATCCGAGATGTGTGCTGTACCCTCGATTTCTCCAGCGCTGCAGGCCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001142950
Insert Size: 1680 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001142950.1 , NP_001136422.1
RefSeq Size:	2663 bp
RefSeq ORF:	1680 bp
Locus ID:	70223
UniProt ID:	Q8BP47
Cytogenetics:	18 E1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>