

Product datasheet for **RC200087**

NARS1 (NM_004539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NARS1 (NM_004539) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NARS1
Synonyms:	ASNRS; NARS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200087 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGA
 AACCATTTAAAACAGGTCTAAAGCTTTGATGACAGTAGGGAAAAGAACCATTTCCCTACCATTACGTAGA
 TTCACAAAAAGAAAATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAGAACATTAAGATGTGG
 CATAGGGAACAAATGAAGAGTGAATCCCGGAAAAAGAGGCAGAAGATAGTTTACGAAGAGAAAAGA
 ACCTGGAAGAAGCAAAGAAGATTACCATTAATAATGATCCAAGTCTCCAGAGCCAAAATGTGTGAAGAT
 TGGTGCCTTAGAAGGATATAGAGGCCAAAGAGTAAAGGTGTTGGCTGGTCCACAGGCTGCGCAGGCAA
 GGAAGAATTTAATGTTTCTGGTGTGCGAGATGGTACAGTTATCTTCAGTGTCTTGGCGGATGAGT
 TGTGTCAGTGCTACAATGGAGTTCTCTTGTCCACGGAGAGCAGTGTTCAGTGTATGGAATGCTAAATCT
 TACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAGTTGTGACTTCTGGAACTAATTGGTTG
 GCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGTTGATGTCCAGCTCAACAACAGAC
 ACATGATGATCCGAGGAGAAAACATGTCCAAAATCCTAAAAGCACGATCCATGGTCACCAGGTGCTTTAG
 AGATCACTTCTTTGATAGGGGACTATGAAGTTACTCCTCCAACATTAGTGAAACACAAGTAGAAGGT
 GGTGCCACACTCTTCAAGCTTACTATTTTGGGAAGAGGCATTTTACTCAATCCTCTCAGTTGACT
 TGGAGACCTGCCTCCAGCCCTGGGAGATGTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTCCAG
 AACACGAAGGCACCTGGCTGAGTACACTCACGTGGAAGCTGAGTGCCTTTCCTGACTTTTGACGACCTC
 CTGAACCGGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACTGCAGGGAGCATAG
 TGCATGAGCTCAACCCGAACCTTTCAGCCCCCAACGGCCTTTCAAACGGATGAACATTCAGATGCTAT
 CGTTTGGCTAAAAGAACATGATGTAAGAAAGAAGATGGAACCTTCTATGAATTTGGAGAAGATATCCCA
 GAAGCTCCTGAGAGACTGATGACAGACACCATTAAATGAACCAATCTTGTGTGCGATTTCTGTGGAGA
 TCAAGTCTTCTACATGCAGCGATGTCCTGAGGATTCCCGTCTTACTGAATCTGTCGACGTGTTGATGCC
 CAATGTTGGTGAAGTTGTGGGAGGCTCAATGCGTATCTTTGATAGTGAAGAAATACTGGCAGGTTATAAA
 AGGGAAGGATTGACCCACTCCCTATTACTGGTATACGGATCAGAGAAAATACGGTACATGTCCCATG
 GAGGATATGGCTTGGCTTGGAACGATTCTAACGTGGATTCTGAATAGGTATCACATCCGAGACGTGTG
 CTTATACCCTCGATTTGCCAGCGTTGCACGCCA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200087 protein sequence
 Red=Cloning site Green=Tags(s)

MVLAELYVSDREGSDATGDGTKEKPFKTLKALMTVGKEPFPTIYVDSQKENERWNVISKSQLKNIKMMW
 HREQMSESREKKEAEDSLRREKNLEEAKKIKITKNDPSLPEPKVKIGALEGYRGQRVKVFGWVHRLRRQ
 GKMLMFLVLRDGTGYLQCVLADELQCYNGVLLSTESSVAVYGMLNLTPKQKQAPGGHELSCDFWELIGL
 APAGGADNLINEESDQVQLNRRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYEYVTPPTLVQTVQVEG
 GATLFLKLDYFGEEAFLTQSSQLYLETCLPALGDVFCIAQSYRAEQSRTRRHLAEYTHVEAECPFLLTFDDL
 LNRLLEDLVCDVVDRIKSPAGSIVHELNPVFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYFEGEDIP
 EAPERLMTDTINEPILLCRFPVEIKSFYMQRPCEDSRLTESVDVLMNVGEIVGGSMRIFDSEEILAGYK
 REGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLTWILNRYHIRDVCLYPRFVQRCTP

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6617_f06.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_004539

ORF Size: 1644 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_004539.4](#)

RefSeq Size: 2868 bp

RefSeq ORF: 1647 bp

Locus ID: 4677

UniProt ID: [O43776](#)

Cytogenetics: 18q21.31

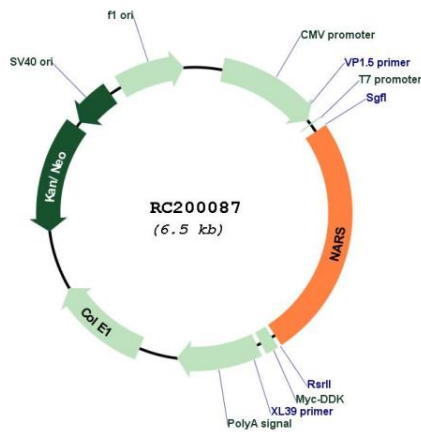
Domains: tRNA-synt_2, tRNA_anti

Protein Pathways: Aminoacyl-tRNA biosynthesis

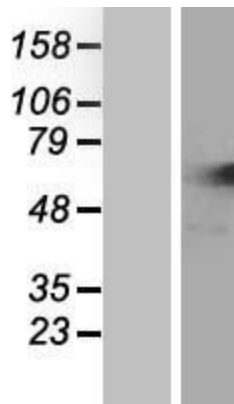
MW: 62.9 kDa

Gene Summary: Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase is localized to the cytoplasm and belongs to the class II family of tRNA synthetases. The N-terminal domain represents the signature sequence for the eukaryotic asparaginyl-tRNA synthetases. [provided by RefSeq, Jul 2008]

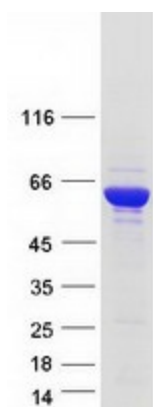
Product images:



Circular map for RC200087



Western blot validation of overexpression lysate (Cat# [LY417931]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200087 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NARS protein (Cat# [TP300087]). The protein was produced from HEK293T cells transfected with NARS cDNA clone (Cat# RC200087) using MegaTran 2.0 (Cat# [TT210002]).