

Product datasheet for **SC319213**

NARS2 (NM_024678) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NARS2 (NM_024678) Human Untagged Clone
Tag:	Tag Free
Symbol:	NARS2
Synonyms:	asnRS; DFNB94; SLM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024678.3
 GAGAGGTTCTGTGGGACAGAGCTGGGAGTCTGAAGGAGAAAGCGCGCAGCCGAGGGGC
 TCTGGAGTGCCTTAGAGCAGAGCTGCGGCCGCGGAAGGGGAGCAGCTGAGAAAGGAGGGC
 CGCTGCAGGCGGGGTTTGAACCGTGGGGTCTGGGCTGCTCCC GCGGAGGGCCTGGGCGGA
 CGCGGGATGCTGGGGTCCGCTGCCTGCTGCGGTCCGTGCGCTTCTGTTCCCTCCGCCCC
 TTCCCCAAGCACAAACCTTCAGCCAACTGAGCGTGCGGGACGCTCTCGGGGCTCAGAAC
 GCGAGTGGGAGGCGATTAAAGATCCAGGGATGGATTCTGTTCTGTCCGATCCCAGAAGGAA
 GTCTTGTTCCCTGCATGTAATGATGGGTATCTTTGAAAAGCCTTCAGGTTGTTGCAGAT
 TCAGGCCTTGACAGTAGAGAATTAACCTTTGGGAGTCTGTGGAAGTACAAGGGCAGCTG
 ATAAAAAGTCCATCCAAAAGGCAAAATGTGGAAGTGAAGGCAGAAAAAATTAAGTTATT
 GGAAATTTGTGATGCCAAGGATTTCCCATCAAATATAAAGAGAGGCATCCTCTGGAGTAC
 CTGCGACAATATCCTCACTTTAGGTGTAGGACTAACGTTCTGGGTTCTATATTGAGGATT
 CGCAGTGAAGCGACAGCTGCTATTCATTCTTTCTTAAGGACAGTGGCTTTGTACATATT
 CATACTCCAATAATCACATCCAATGACTCTGAGGGAGCTGGAGAATTTTTCAACTTGAA
 CCTTCAGGCAAACTTAAGGTACCTGAGGAGAATTTCTTCAATGTTCTCTGCTTTCTAACT
 GTCTCAGGACAATTCATCTAGAAGTGATGTCAGGAGCTTTTACTCAAGTGTTCACCTTT
 GGTCGACCTTCCGAGCTGAAAATTCTCAGAGCCGGAGGCACCTGGCAGAGTTTTATATG
 ATAGAAGCAGAGATTTCTTTTGTGACAGCCTTCAAGATCTTATGCAGGTTATAGAGGAA
 CTGTTCAAGGCTACAACAATGATGGTTCTCTCAAATGTCCTGAAGATGTTGAACTCTGT
 CACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAACAACCTTT
 TTAATCATTTCTTATACTGAAGCAGTGGAGATCTTAAAGCAAGCATCCCAGAACTTACC
 TTTACCCAGAGTGGGGTGTGACCTACGGACTGAACATGAAAAGTACCTGGTGAAGCAC
 TGTGGCAACATACCTGTCTTCTGTTATTAATTATCCATTAACACTCAAGCCTTTCTACATG
 AGGGATAATGAAGATGGCCCTCAGCACACGGTTGCTGCTGTTGATCTTCTGGTTCCTGGA
 GTTGGGAACTCTTTGGAGGAGGCTCAGAGAAGAACGATACCATTTCTTAGAGGAGCGC
 TTAGCCAGATCGGGACTTACAGAAGTCTACCAATGGTATCTGGACCTTCGTGATTTGGA
 TCTGTGCCACATGGAGGTTTTGGGATGGGATTTGAACGCTACCTGCAGTGCATCTGGGT
 GTTGACAATATCAAAGATGTTATCCCTTTCCAAGGTTTCTCATTATGCCTTTTATAG
 CTGGAAGATTGGTTAAGGAAAAGCACCCCATGGCAGAGACTGCACATGATTGTGCA
 TACAGCAGAATGCATGTTTGGATTTTAGAAATGCAGATTTCAATATGTAATTGTTGTGCC
 ATAAGATATCATAGAAAAATATAAGTGGTTGTGATTTTCTTAGAAAGTTGAGGGTATTT
 CACGTAAGGATGAGCTCCCGCAAGAAGAGTACTTATAGCAAGGGGACTCTCAAATCCAT
 TACCTCAATTAAGAAATGAAGAAATGAATTAGTCTCAAAGTTTCTTTAAACTCTAAAA
 CAGAATGAGATAATGTATTTTACGTTGTCTATAATCATTAAATCACTCCCTGTGTAATTT
 GTGAGAACCATCTAGTAGCTCGAAATAAAATAATGTTGCATCTTTTCTCCCTTGCCATAT
 ACTTTGTGATAAATCCTTATCTCATTTTTCAGTACTTCATTAACATTGCAGAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_024678

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_024678.3 , NP_078954.3
RefSeq Size:	2110 bp
RefSeq ORF:	1434 bp
Locus ID:	79731
UniProt ID:	Q96I59
Cytogenetics:	11q14.1
Domains:	tRNA-synt_2, tRNA_anti
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	<p>This gene encodes a putative member of the class II family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of asparagine to tRNA molecules. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency 24 (COXPD24). [provided by RefSeq, Mar 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>