

Product datasheet for **SC110958**

NARS1 (NM_004539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NARS1 (NM_004539) Human Untagged Clone
Tag:	Tag Free
Symbol:	NARS1
Synonyms:	ASNRS; NARS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110958 sequence for NM_004539 edited (data generated by NextGen Sequencing)

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ATGGTGTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGA
ACCAAGGAGAAACCATTTAAAACAGGTCTAAAGGCTTTGATGACAGTAGGGAAAGAACCA
TTTCTACCATTTACGTAGATTCACAAAAAGAAAATGAGAGGTGGAATGTTATTTCTAAA
TCACAGTTGAAGAACATTAAGAAAGATGTGGCATAGGGAACAAATGAAGAGTGAATCCCGG
GAAAAGAAGAGGCAGAAAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAGAAG
ATTACCATTAAAAATGATCCAAGTCTCCCAGAGCCAAAATGTGTGAAGATTGGTGCCTTA
GAAGGATATAGAGGCCAAAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAA
GGAAAAGATTTAATGTTTCTGGTGTGCGAGATGGTACAGGTTATCTTCAGTGTGCTTG
GCGGATGAGTTGTGTCAGTGTACAATGGAGTTCTTTGTCCACGGAGAGCAGTGTGCA
GTGTATGGAATGCTAAATCTTACCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTG
AGTTGTGACTTCTGGAACTAATTGGGTGGCCCTGCTGGAGGAGCTGACAACCTGATC
AATGAGGAGTCTGACGTTGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAA
AACATGTCCAAAATCCTAAAAGCAGATCCATGGTCACCAGGTGCTTTAGAGATCACTTC
TTTGATAGGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAACACAAGTAGAAGGT
GGTGCCCACTCTTCAAGCTTGACTATTTTGGGGAAGAGGCATTTTGTACTCAATCCTCT
CAGTTGTACTTGGAGACCTGCCTCCCAGCCCTGGGAGATGTTTTTGTATTGCTCAGTCA
TACCGGGCAGAGCAGTCCAGAACACGAAGGCACCTGGCTGAGTACACTCACGTGGAAGCT
GAGTGTCTTTCTGACTTTTGGACCTCCTGAACCGGTTGGAGGACTTGGTTTGTGAT
GTGGTAGATCGAATTTGAAGTACCTGCAGGGAGCATAGTGCATGAGCTCAACCCGAAC
TTTCAGCCCCCAACCGCCTTTCAAACGGATGAACTATTGATGCTATCGTTTGGCTA
AAAGAACATGATGTAAGAAAGAAGATGGAACCTTCTATGAATTTGGAGAAGATATCCCA
GAAGCTCCTGAGAGACTGATGACAGACACCATTAAATGAACCAATCTTGCTGTGCGATTT
CCTGTGGAGATCAAGTCTTCTACATGCAGCGATGCCTGAGGATTCCCCTTACTGAA
TCTGTGCGAGTGTGATGCCAATGTTGGTGGAGATTGTGGGAGGCTCAATGCGTATCTTT
GATAGTGAAGAAATACTGGCAGGTTATAAAAGGGAAGGGATTGACCCCACTCCCTATTAC
TGGTATACGGATCAGAGAAAATACGGTACATGTCCCATGGAGGATATGGCTTGGGCTTG
GAACGATTCTTAACGTGGATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCT
CGATTTGTCCAGCGTTGCACGCCATAA
    
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Clone variation with respect to NM_004539.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004539 unedited
CGTGNCGCNCATTTTGTCAATACCGACNCACTTATAGGGCGGCCGCGATTCCGCACGAGG
TGGAGGTGACCAGGGCCACTGCAGGCATGGTGTAGCAGAGCTGTACGTCTCTGACCGAG
AGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAAACCATTTAAAACAGGTCTAAAGG
CTTTGATGACAGTAGGGAAAGAACCATTTCTACCATTTACGTAGATTCAAAAAAGAAA
ATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAAGAACATTAAGAAAGATGTGGCATA
GGGAACAAATGAAGAGTGAATCCCGGAAAAGAAAAGAGGCAAGATAGTTTACGAAGAG
AAAAGAACCTGGAAGAAGCAAAGAAGATTACCATTAATAATGATCCAAGTCTCCCAGAGC
CAAAATGTGTGAAGATTGGTGCCTTAGAAGGATATAGAGGCCAAAGAGTAAAGGTGTTT
GCTGGGTCCACAGGCTGCGCAGGCAAGGAAAGAATTTAATGTTTCTGGTGTGCGAGATG
GTACAGGTTATCTTCAGTGTGCTTGGCGGATGAGTTGTGTGAGTGTACAATGGAGTTC
TCTTGTCCACGGAGAGCAGTGTGTCAGTGTATGGAATGCTAAATCCTTACCCAAAGGGC
AAGCAGGCTCCAGGTGGCCATGAGCTGAGTTGTGACTTCTGGGAACATAATGGGTTGGCC
CCTGCTGGAGGAGCTGACCACCTGATCAATGANGAGTCTGACGTTGATGTCCAGCTCCAC
AACAGACACATGATGATCCGAGGAGAAAACATGTCCAAATCCTAAAAGCAGATCCATGG
TCACNCAGTGCTTTAGAGACACTTCTTTGATAGGGGTACTATGAAGNTACTCCTCCACACA
TTAGTGCAAACCCAGGTANAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004539 unedited TCGGCGATGGGCCTTCCAGGGCCGGNANAGGCACTGGGGNGGGGTCACAGGGATGCCA CCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTT TTTTTTTTTTAACGTTAGCAATATCTACTAAATTTAGTAGTACTTAATTTACATATAT ACATCATAAAAAAGATAAAATAATTGCAAAAGCATGAACAAATGTGACAAAGAGATGTTT AGCTTTAAGAAAATTAAGCCAGCAAAGAGTTTTTACGGGGTGTTTCATTTATTGACTGCTG GGAATACAGCCTATTGAGAATACATGACATGCATTTGGGGGAGAAATCACTAAATCTGA AATGAAGCCATTAGTAAGCCTGCTGTGAGTTAATAAGGTAGCACAGATTAGATCTAAGG ACATGGGTGGGGCAACTCAAACAGCCACTCACAATTGTTATTAAGATTCCAGCTACAAT TTCTTTTGAACCTATTTATTCTTAATTAATTAAGGAAATACCAGGAAAGAGGGAAAATCA ATCTGCCTCTTTACCTAAATTAATGCTAAGAGGGATACTGTGAATCACTAANAACTCT CCCCAAAATTATGTTCTTACTTCAAATCCTTTAGGGCATTCTATTTTTACAAATCTTCA ATTTCTATGCCCTCAGATTATTANCAGCTAAGCCGAGGTAGAAAAGATTAATAACTGATA CAAAGGCTATTCTTTGATTCTAGGGGTTACTGCTGATTAACCCGGGGTCTAAAGGAGC AGATTTTATACGAATTGGCCATTTCTCCCCAGAAATTTGGTTTAATCCATGAGCGNA AAATAATCAAGAATTCAGGTACCTTAAAGGAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_004539
Insert Size:	2770 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).
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_004539.2 , NP_004530.1
RefSeq Size:	2714 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

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]