

## Product datasheet for **RG232285**

### **NARS2 (NM\_001243251) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NARS2 (NM\_001243251) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NARS2  
**Synonyms:** asnRS; DFNB94; SLM5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232285 representing NM\_001243251  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGGAGCTTTTACTCAAGTGTTTACCTTTGGTCCGACCTTCGAGCTGAAAATTCTCAGAGCCGGA  
GGCACCTGGCAGAGTTTTATATGATAGAAGCAGAGATTTCTTTTGTGACAGCCTCAAGATCTTATGCA  
GGTTATAGAGGAAGTGTCAAGGCTACAACAATGATGGTTCTCTCAAAATGTCCTGAAGATGTTGAAGT  
TGTCACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAACAATTTTTAATCA  
TTTCTTACTGAAGCAGTGGAGATCTTAAAGCAAGCATCCAGAATTCACCTTTACCCAGAGTGGGG  
TGCTGACCTACGGACTGAACATGAAAAGTACCTGGTGAAGCACTGTGGCAACATACCTGTCTTCGTTATT  
AATTATCCATTAACACTCAAGCCTTTCTACATGAGGGATAATGAAGATGGCCCTCAGCACACGGTTGCTG  
CTGTTGATCTTCTGGTTCCTGGAGTTGGGGAAGCTTTGGAGGAGGCCTCAGAGAAGAACGATACCATTT  
CTTAGAGGAGCGCTTAGCCAGATCGGGACTTACAGAAGTCTACCAATGGTATCTGGACCTTCGTCGATTT  
GGATCTGTGCCACATGGAGGTTTGGGATGGGATTTGAACGCTACCTGCAGTGCATCTTGGGTGTTGACA  
ATATCAAAGATGTTATCCCTTTCCCAAGGTTTCCTCATTATGCCTTTTA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG232285 representing NM\_001243251  
Red=Cloning site Green=Tags(s)

MSGAFTQVFTFGPTFRAENSQSRRLAEFYMIEAEISFVDSLQQLMQVIEELFKATTMMVLSKCPEDVEL  
 CHKFIAPGQKDRLEHMLKNNFLIISYTEAVEILKQASQNFFTPEWGADLRTEHEKYLVKHCGNIPVFI  
 NYPLTLKPFYMRDNEGPQHTVAAVDLLVPGVGELFGGLREERYHFLEERLARSGLTEVYQWYLDLRRF  
 GSVPHGGFGMGFERYLQCILGVDNIKDVIPFRPHSCLL

TRTRPLE - GFP Tag - V

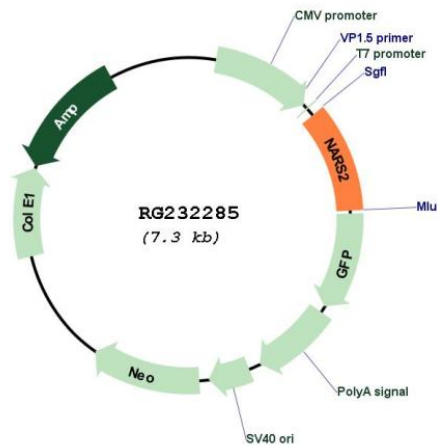
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001243251

**ORF Size:** 750 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001243251.1</a> , <a href="#">NP_001230180.1</a>
<b>RefSeq Size:</b>	2038 bp
<b>RefSeq ORF:</b>	753 bp
<b>Locus ID:</b>	79731
<b>UniProt ID:</b>	<a href="#">Q96I59</a>
<b>Cytogenetics:</b>	11q14.1
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis
<b>Gene Summary:</b>	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]