

Product datasheet for **SC320151**

GARS1 (NM_002047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARS1 (NM_002047) Human Untagged Clone
Tag:	Tag Free
Symbol:	GARS1
Synonyms:	CMT2D; DSMAV; GARS; GlyRS; HMN5; HMN5A; SMAD1; SMAJI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_002047.2
 GCCGCTCCGTCGCCACCCTCTCTGGACAGCCAGGGCCGAGGCTCATGCCCTCTCCG
 GTCCAGTGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCCGCCCGGCTCT
 TAGCCCGACCCTCGCTCTGCTCCGCCGGTCCCTCAGCGCGGCCCTCGGCCCGGATCT
 CCTTGCCCGCCCGCCCTCCCGGAGCAGCATGGACGGCGCGGGGGCTGAGGAGGTGCTGG
 CACCTCTGAGGCTAGCAGTGCAGCAGGAGATCTTGTGCGAAAACTCAAAGAAGATA
 AAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTC
 TGGAAAGCAAAGGAGCTGGCGTTACAGCCAAAGATGATATTGTAGACCGAGCAAAAATGG
 AAGATACCCTGAAGAGGAGGTTTTTCTATGATCAAGCTTTTGTATTTATGGAGGTGTTA
 GTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTTTGAAGAACAATATTATTCAGACCT
 GGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCATGCTCACCC
 CTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAAATTTGCTGACTTCATGGTGAAAG
 ACGTAAAAAATGGAGAATGTTTTCGTGCTGACCATCTATAAAAGCTCATTTACAGAAAT
 TGATGTCTGATAAGAAGTGTCTGTCGAAAAGAAATCAGAAATGGAAGTGTGGCC
 AGCTTGATAACTATGGACAGCAAGAACTTGCAGGATCTTTTGTGAACTATAATGTAAAAT
 CTTCCATTACTGGAAATGATCTATCCCCTCCAGTGTCTTTAACTTAATGTTCAAGACTT
 TCATTGGGCTGGAGGAAACATGCCTGGTACTTGAGACCAGAACTGCACAGGGGATTT
 TCTTGAATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCTTTTGTGCTGCC
 AGATTGGAAATCTTTTGAAGATGAGATCTCCCCTCGATCTGGACTGATCAGAGTCAGAG
 AATTCACAATGGCAGAAATTTGAGCACTTTGTAGATCCCAGTGAGAAAGACCACCCCAAGT
 TCCAGAATGTGGCAGACCTTACCTTTATTTGTATTACAGAAAAGCCAGGTGAGCGGAC
 AGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAG
 TATTAGGCTATTTCAATTGGCCGATCTACCTCTACCTCACGAAAGTTGGAATATCTCCAG
 ATAAACTCCGCTTCCGGCAGCACATGGAGAATGAGATGGCCATTATGCCTGTGACTGTT
 GGGATGAGAATCCAAAACATCCTACGGTTGGATTGAGATTGTTGGATGTGCTGATCGTT
 CCTGTTATGACCTCTCCTGTGATGCACGAGCCACCAAAGTCCCCTTGTAGCTGAGAAAC
 CTCTGAAAGAACCCAAAACAGTCAATGTTGTTCAAGTTTGAACCCAGTAAGGGAGCAATTG
 GTAAGGCATATAAGAAGGATGCAAAACTGGTGTGAGATCTTGCCATTTGTGATGAGT
 GCTACATTACAGAAATGGAGATGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTG
 AAGGGAAAACATTTCAAGTAAACAAAAGACATGATCAATGTGAAGAGATTCAGAAAACAC
 TATATGTGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCCGCTCCCACTGAGCCAAAAC
 TGATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCT
 TCAGTTTCCCTGTGATGTTGCTCCATTCAAATGTTCCGCTCCCACTGAGCCAAAAC
 AGGAGTTCATGCCATTTGTCAAGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTC
 ACAAAGTAGACGATTCCTCTGGGTCAATCGGAAGGCGCTATGCCAGGACTGATGAGATTG
 GCGTGGCTTTTGGTGTACCAATTGACTTTGACACAGTGAACAAGACCCCCACACTGCAA
 CTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCA
 TAGTCCAAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTC
 TGTTTGAAGGGCAAGAGACTGGTAAAAAAGAGACAATCGAGGAATGAGGACAATTTTGAC
 AACTTTTGACCACTTGCCTAAAAAAGAGCAATCGAGGAATGAGGACAATTTTGAC

Restriction Sites: Please inquire

ACCN: NM_002047

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_002047.2 , NP_002038.2
RefSeq Size:	2759 bp
RefSeq ORF:	2220 bp
Locus ID:	2617
UniProt ID:	P41250
Cytogenetics:	7p14.3
Domains:	WHEP-TRS, tRNA-synt_2b, HGTP_anticodon
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	<p>This gene encodes glycyI-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)₂ dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>