

Product datasheet for **TP302852M**

GARS1 (NM_002047) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glycyl-tRNA synthetase (GARS), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202852 protein sequence Red =Cloning site Green =Tags(s)

MPSRPVLLRGARAALLLLPPRLLARPSLLLRSLAASCAPISLPAAASRSSMDGAGAEVLAFLRLA
VRQQDLVRKLIKEDKAPQVDVDKAVAELKARKRVLEAKELALQPKDDIVDRKMDTLKRRFFYDQAFAI
YGGVSGLYDFGPVGCALKNNIIQTRWQHFIQEEQILEIDCTMLTPEPVLKTSGHVDFKADFMVKDVKNGE
CFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQLADLFVNYNVKSPITGNDLSPVSNL
MFKTFIGPGGNMPGYLRPETAQGIPLNFKRLLFEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAE
IEHFVDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKV
GISPDKLRFQRHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPK
TVNVVQFEPKGAIGKAYKDAKLVMYLAICDECYITEMEMLLNEKGEFTIETEGKTFQLTKDMINVKR
FQKTLVVEEVPNVIEPSFGLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQEFMPF
VKELSEALTRHGVSHKVDDSSGSIGRRYARTDEIGVAFGVTIDFDTVNKTPHTATLDRDRSMRQIRAEIS
ELPSIVQDLANGNITWADVEARYPLFEGQETGKKETIEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

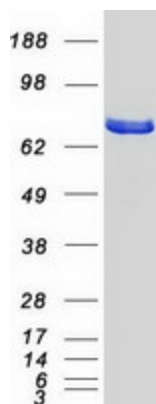
Tag:	C-Myc/DDK
Predicted MW:	83 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002038
Locus ID:	2617
UniProt ID:	P41250 , A0A090N8G0
RefSeq Size:	2759
Cytogenetics:	7p14.3
RefSeq ORF:	2217
Synonyms:	CMT2D; DSMAV; GARS; GlyRS; HMN5; HMN5A; SMAD1; SMAJ1
Summary:	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]
Protein Pathways:	Aminoacyl-tRNA biosynthesis

Product images:



Coomassie blue staining of purified GARS protein (Cat# [TP302852]). The protein was produced from HEK293T cells transfected with GARS cDNA clone (Cat# [RC202852]) using MegaTran 2.0 (Cat# [TT210002]).