

# Recombinant Full Length Human AARS Protein, GST-tagged

**Cat. No.** AARS-757HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human AARS full-length ORF ( NP_001596.2, 1 a.a. - 968 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	968 amino acids
<b>Description</b>	The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure. [provided by RefSeq, Jul 2008]
<b>Molecular Mass</b>	133.2 kDa
<b>AA Sequence</b>	MDSTLTASEI RQRFIDFFKR NEHTYVHSSA TIPLDDPTLL FANAGMNQFK PIFLNTIDPS HPMAKLSRAA NTQK CIRAGG KHNDLDDVGK DVYHHTFFEM LGSWSFGDYF KELACKMALE LLTQEFGIPI ERLYVTYFGG DEAAGLEADL ECKQIWQNLG LDDTKILPGN MKDNFWEMGD TGPCGPCSEI HYDRIGGRDA

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AHLVNQDDPN VLEIWNLVFI QYNREADGIL KPLPKKSIDT GMGLERLVS  
 LQNKMSNYDT DLFVPYFEAI QKGTGARPYT GKVGAEDADG IDMAYRVLAD  
 HARTITVALA DGGRPDNTGR GYVLRRLRR AVRYAHEKLN ASRGFFATLV  
 DVVVQSLGDA FPELKKDPDM VKDIINEEEV QFLKTLRGR RILDRKIQSL  
 GDSKTIPGDT AWLLYDTYGF PVDLTGLIAE EKGLVVDMDG FEEERKLAQL  
 KSQKGAGGE DLIMLDIYAI EELRARGLEV TDDSPKYNH LDSSGSYVFE  
 NTVATVMALR REKMFVEEVS TGQECGVVLD KTCFYAEQGG QIYDEGYLVK  
 VDDSSDKTE FTVKNAQVRG GYVLHIGTIY GDLKVG DQVW LFIDEPRRRP  
 IMSNHTATHI LNFALRSVLG EADQKGSVA PDRLRFDFTA KGAMSTQQIK  
 KAEIANEMI EAAKAVYTQD CPLAAAKAIQ GLRAVFDETY PDPVRVVSIG  
 VPVSELLDDP SGPAGSLTSV EFCGGTHLRN SSHAGAFVIV TEEAIKGR  
 RIVAVTGAEA QKALRKAESL KKCLSVMEAK VKAQTAPNKD VQREIADLGE  
 ALATAVIPQW QKDELRETLK SLKKVMDDLD RASKADVQKR VLEKTKQFID  
 SNPNQPLVIL EMESGASAKA LNEALKLFKM HSPQTSAMLF TVDNEAGKIT  
 CLCQVPQNAA NRGLKASEWV QQVSGLMDGK GGGKDVSAQA TGKNVGCLQE  
 ALQLATSFAQ LRLGDVKN

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[AARS alanyl-tRNA synthetase \[ Homo sapiens \]](#)

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<b>Official Symbol</b>	<a href="#">AARS</a>
<b>Synonyms</b>	AARS; alanyl-tRNA synthetase; alanine--tRNA ligase, cytoplasmic; alanine tRNA ligase 1; cytoplasmic; alaRS; renal carcinoma antigen NY-REN-42; alanine tRNA ligase 1, cytoplasmic; alanyl-tRNA synthetase, cytoplasmic; CMT2N
<b>Gene ID</b>	<a href="#">16</a>
<b>mRNA Refseq</b>	<a href="#">NM_001605</a>
<b>Protein Refseq</b>	<a href="#">NP_001596</a>
<b>MIM</b>	<a href="#">601065</a>
<b>UniProt ID</b>	<a href="#">P49588</a>

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