

## Product datasheet for TP302136

### AlaRS (AARS) (NM\_001605) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human alanyl-tRNA synthetase (AARS), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202136 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAA  
NTQKCIRAGGKHNDLDDVVGKDVYHHTFFEMLGWSWFGDYFKELACKMALELLTQEFGIPIERLYVTYFGG  
DEAAGLEADLECKQIWQNLGLDDTKILPGNMKDNFWEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDD  
PN  
VLEIWNLVFIQYNREADGILKPLPKKSIDTGMGLERLVSVLQNKMSNYDSDLFVPHYFAIQKGTGARPYT  
GKVGAEADADGIDMAYRVLADHARTITVALADGGRPDNTGRGYVLRRLRAVRYAHEKLNASRGFFATLV  
DVVVQSLGDAFPELKKDPDMVKDIINEEEVQFLKTLRGRRIILDRKIQLGDSKTIPTGDTAWLLYDITYGF  
PVDLTGLIAEEKGLVDMGFEERKLAQLKSQKGGAGGEDLIMLDIYAIEELRARGLEVTDSPKYNH  
LDSSGSYFENTVATVMALRREKMFVEEVSTGQECGVLDKTCFYAEQGGQIYDEGYLVKVDSSSEDKTE  
FTVKNAQVRGGYVLHIGTIYGLKVGQVWLFIDEPRRRPIMSNHTATHILNFALRSVLGEADQKGSVA  
PDRLRFDFTAAGAMSTQQIKKAEIANEMIEAAKAVYTQDCPLAAAKAIQGLRAVDETYPDVVRVVSIG  
VPVSELLDDPSGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIKGIIRIVAVTGAEAQKALRKAESL  
KKCLSVMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDELRETLKSLKVMDDLDRASKADVQKR  
VLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPQTSAMLFTVDNEAGKITCLCQVPQNAA  
NRGLKASEWVQVSGGLMDGKGGGKDVSAQATGKNVGCLEALQLATSAQLRLGLDVKV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

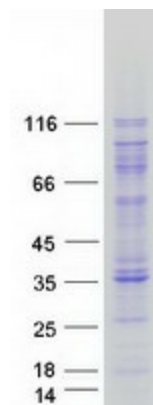
Tag:	C-Myc/DDK
Predicted MW:	106.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001596</a>
<b>Locus ID:</b>	16
<b>UniProt ID:</b>	<a href="#">P49588</a>
<b>RefSeq Size:</b>	3344
<b>Cytogenetics:</b>	16q22.1
<b>RefSeq ORF:</b>	2904
<b>Synonyms:</b>	AARS; CMT2N; DEE29; EIEE29
<b>Summary:</b>	The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthetases, of the class II enzymes. Class II tRNA synthetases 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 synthetases 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>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis

### Product images:



Coomassie blue staining of purified AARS protein (Cat# TP302136). The protein was produced from HEK293T cells transfected with AARS cDNA clone (Cat# [RC202136]) using MegaTran 2.0 (Cat# [TT210002]).