

## Product datasheet for TP323715L

### Alanyl tRNA synthetase 2 (AARS2) (NM\_020745) Human Recombinant Protein

#### Product data:

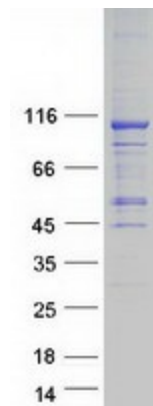
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human alanyl-tRNA synthetase 2, mitochondrial (putative) (AARS2), nuclear gene encoding mitochondrial protein, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223715 representing NM_020745 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAASVAAAARRLRRRAIRRSPAWRGLSHRPLSSEPPAAKASAVRAAFLNFFRDRHGHRLVPSASVRPRGDP            SLLFVNAGMNFQKPIFLGTVDPRSEMAGFRRVANSQKCVRAGGHHNDLEDVGRDLSHHTFFEMLGNWAFG            GEYFKEEACNMAWELLTQVYGIPEERLWISYFDGDPKAGLDPDLETRDIWLSLGVSPASRVLSFGPQENFW            EMGDTGPCGPCTEIHVDLAGGVGAPQLVELWNLVFMQHNREADGSLQLPQRHVDTGMGLERLVAVLQGK            HSTYDSDLFSPLLNAIQGCRAPPYLGRVGVADDEGRDRTAYRVVADHIRTLSVCISDGVFPGMSPPLVL            RRILRRAVRFSMEILKAPPGFLGSLVPVVETLGDAYPELQRNSAQIANLVSEDEAAFLASLERGRIID            RTLRTLGPSPDMFPAEVAWSLSLCGDLGLPLDMVELMLEEKGVQLDSAGLERLAQEEAQRARQAEPVQKQ            GLWLDVHALGELQRQGVPTDDSPKYNYSRLRPSGSYEFGTCEAQVLQLYTEDGTAVASVKGKQRCGLLLD            RTNFYAEQGGQASDRGYLVVAGQEDVLPVARAQVCGGFILHEAVAPECLRLGDQVQLHVDEAWRLGCM            KHTATHLLNWALRQTLGPGTEQQGSHLNPEQLRLDVTQTPLTPEQLRAVENTVQEAVGQDEAVYMEEVP            LALTAQVPGLRSLDEVYDPVVRVSVGVVPAHALDPASQAALQTSVELCCGTHLLRTGAVGDLVIIGDRQ            LSKGTTRELLAVTGEQAQQARELGQSLAQEVKAATERLSLGSRDVAEALRLSKDIGRLIEAVETAVMPQWQ            RRELLATVKMLQRRRANTAIRKLQMGQAAKKTQELLERHSGKPLIVDTVSAESLSVLVWVRLCEQAPST            SVLLSPQPMGKVLCAQVAQGAMPTFTAEAWALAVCSHMGGKAWGSRVVAQGTGSTTDLEAALSIAQTY            ALSQL</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	107.1 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_065796</a>
<b>Locus ID:</b>	57505
<b>UniProt ID:</b>	<a href="#">Q5J TZ9</a>
<b>RefSeq Size:</b>	4096
<b>Cytogenetics:</b>	6p21.1
<b>RefSeq ORF:</b>	2955
<b>Synonyms:</b>	AARSL; COXPD8; LKENP; MT-ALARS; MTALARS
<b>Summary:</b>	The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8. [provided by RefSeq, Dec 2011]
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis

### Product images:



Coomassie blue staining of purified AARS2 protein (Cat# [TP323715]). The protein was produced from HEK293T cells transfected with AARS2 cDNA clone (Cat# [RC223715]) using MegaTran 2.0 (Cat# [TT210002]).