

Product datasheet for TP323715

Alanyl tRNA synthetase 2 (AARS2) (NM_020745) Human Recombinant Protein

Product data:

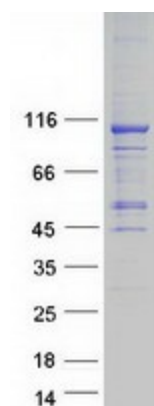
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human alanyl-tRNA synthetase 2, mitochondrial (putative) (AARS2), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223715 representing NM_020745 Red =Cloning site Green =Tags(s)
	<p>MAASVAAAARRLRRRAIRRSPAWRGLSHRPLSSEPPAAKASAVRAAFLNFFRDRHGHRLVPSASVRPRGDP SLLFVNAGMNFQKPIFLGTVDPRSEMAGFRRVANSQKCVRAGGHHNDLEDVGRDLSHHTFFEMLGNWAFG GEYFKEEACNMAWELLTQVYGIPEERLWISYFDGDPKAGLDPDLETRDIWLSLGVSPASRVLSFGPQENFW EMGDTGPCGPCTEIHVDLAGGVGAPQLVELWNLVFMQHNREADGSLQLPQRHVDTGMGLERLVAVLQGK HSTYDSDLFSPLLNAIQGCRAPPYLGRVGVADDEGRDRTAYRVVADHIRTLSVCISDGVFPGMSPPLVL RRILRRAVRFSMEILKAPPGFLGSLVPVVETLGDAYPELQRNSAQIANLVSEDEAAFLASLERGRIID RTLRTLGPSPDMFPAEVAWSLSLCGDLGLPLDMVELMLEEKGVQLDSAGLERLAQEEAQRARQAEPVQKQ GLWLDVHALGELQRQGVPTDDSPKYNYSRLRPSGSYEFGTCEAQVLQLYTEDGTAVASVKGKQRCGLLLD RTNFYAEQGGQASDRGYLVVAGQEDVLPVARAQVCGGFILHEAVAPECLRLGDQVQLHVDEAWRLGCM KHTATHLLNWALRQTLGPGTEQQGSHLNPEQLRLDVTQTPLTPEQLRAVENTVQEAVGQDEAVYMEEVP LALTAQVPGLRSLDEVYDPVVRVSVGVPVAHALDPASQAALQTSVELCCGTHLLRTGAVGDLVIIGDRQ LSKGTTLLAVTGEQAQQARELGQSLAQEVKAATERLSLGSRDVAEALRLSKDIGRLIEAVETAVMPQWQ RRELLATVKMLQRRRANTAIRKLQMGQAAKKTQELLERHSGKPLIVDTVSAESLSVLVWVRLCEQAPST SVLLLSPPQPMGKVLCAQVAQGAMPTFTAEAWALAVCSHMGGKAWGSRVVAQGTGSTTDLEAALSIAQTY ALSQL</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</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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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.
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_065796
Locus ID:	57505
UniProt ID:	Q5J TZ9
RefSeq Size:	4096
Cytogenetics:	6p21.1
RefSeq ORF:	2955
Synonyms:	AARSL; COXPD8; LKENP; MT-ALARS; MTALARS
Summary:	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]
Protein Pathways:	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]).