

Product datasheet for TP301089L

valyl tRNA synthetase (VARS) (NM_006295) Human Recombinant Protein

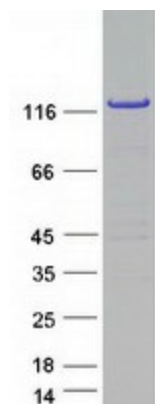
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human valyl-tRNA synthetase (VARS), nuclear gene encoding mitochondrial protein, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201089 protein sequence Red =Cloning site Green =Tags(s)
	<p>MSTLYVSPHPDAFPSLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTSFPPRLPALEQGPGLLWWW GATAVAQLLWPAGLGGPGGSRAAVLVQQWVSADTELIPAACGATLPALGLRSSAQDPQAVL GALGRALS PLEEWLRLHTYLAGEAPTLADLA AVTALLLPFRYVLDPPARRIWNVTRWFVTCVVRQPEFRAVLGEVVLY SGARPLSHQPGEAPALPKTAAQLKKEAKKREKLEKFQKQKIQQQQPPGGEKKPKPEKREKRDPGVITY DLPTPPGEEKDVSGPMPDSYSPRYVEAAWYPWWEQGGFFKPEYGRPNVSAANPRGVFMMCIPPNVTGSL HLGHALTNAIQDSLTRWHRMRGETTLWNPGCDHAGIATQVVEKKLWREQLSRHLGREAFLQEVWKWK EEKGDRIYHQLKGLGSSLDWD RACFTMDPKLSAAVTEAFVRLHEEGIYRSTRLVNWSCTLNSAISDIEV DKKELTGRTLLSVPGYKEKVEFGVLVSFAYKVQGSDSDEEWWATTRIETMLGDVAVAVHPKDTRYQHLK GKNVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQNDYEVGQRHGLEAISIMDSRGALINVPPFLG LPRFEARKAVLVALKERGLFRGIEDNPMVVPLCNRSKDVEPELLRPQWYVRCGEMAQAASA AVTRGDLRI LPEAHQRTWHAWMDNIREWCISRQLWGWGHRIPAYFVTVSDPAVPPGEDPDGRYWVSGRNEAEAREKAAKE FGVSPDKISLQQDEVDLDTWFSSGLFPLSILGWPNQSEDLSVFYPGTLLLETGHDILFFWARMVMLGLKL TGRLPFREVYLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPSEVEKAKEGQKADF PAGIPECGTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNATKFALRGLGKGFVPSPTSQPGGHE SLVDRWIRSRLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLECLKPVLNGVDQVA AEARQTLY TCLDVGLRLLSPFMPFVTEELFQRLPRRMPQAPPSLCVTPYPEPSECSWKDPEAAEALALSITRAVRS LRADYNLTRIRPDCFLEVADEATGALASAVSGYVQALASAGVVAVLALGAPAPQGC AVALASDRCSIHLQ LQGLVDPARELGKLAQRVEAQRQAQRLRERRAASGYPVKVPLEVQEAD EAKLQQTEAELRKVDEAIALF QKML</p> <p>TRTRPLEQLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	140.3 kDa



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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.
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_006286
Locus ID:	7407
UniProt ID:	P26640 , A0A024RCN6
RefSeq Size:	4308
Cytogenetics:	6p21.33
RefSeq ORF:	3792
Synonyms:	G7A; NDMSCA; VARS; VARS2
Summary:	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. The protein encoded by this gene belongs to class-I aminoacyl-tRNA synthetase family and is located in the class III region of the major histocompatibility complex. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

Product images:

Coomassie blue staining of purified VARS protein (Cat# [TP301089]). The protein was produced from HEK293T cells transfected with VARS cDNA clone (Cat# [RC201089]) using MegaTran 2.0 (Cat# [TT210002]).