

Product datasheet for PH301089

valyl tRNA synthetase (VARS) (NM_006295) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	VARS MS Standard C13 and N15-labeled recombinant protein (NP_006286)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201089
Predicted MW:	140.5 kDa
Protein Sequence:	>RC201089 protein sequence Red=Cloning site Green=Tags(s)

MSTLYVSPHPDAFPSLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTSFPPRRLPALEQPGGLWVW
GATAVAQLLWPAGLGGPGGSRAAVLVQQWVSYADTELIPAACGATLPALGLRSSAQDPQAVLGALGRALS
PLEEWLRLHTYLAGEAPTLADLAAVTALLLPFRYVLDPPARRIWNVTRWFVTCVRQPEFRAVLGEVVLY
SGARPLSHQPGPEAPALPKTAAQLKKEAKKREKLEKFQQKQKIQQQQPPGKPKPEKREKRDPGVITY
DLPTPPGEEKDVS GMPDYS PRYVEAAWYPWWEQQGFFKPEYGRPNVSAANPRGVFMMCI PPPNVTGSL
HLGHAL TNAIQDSL TRWHRMRGETTLWNP GCDHAGIATQVVVEKKL WREQGLSRHQLGREAF LQEVWKKW
EEKGDRIYHQLKKGSSLDWDRACFTMDPKLSAAVTEAFVRLHEEGIIYRSTRLVNWSCTLNSAISDIEV
DKKELTGRITLLSVPGYKEKVEFVGLVVSFAYKVGSDSDEE VVVATTRIETMLGDVAVAVHPKDTRYQHLK
GKNVIHPFLSRSLPIVDFDEFVDMDFGTGAVKITPAHDQNDYEVGQRHGLEAISIMDSRGALINVP PFLG
LPRFEARKAVLVALKERGLFRGIEDNPMV VPLCNRSKDVVEPLLRPQWYVRCGEMAQAASAAVTRGDLRI
LPEAHQRTWHAWMDNIREWCISRQLWGHRI PAYFVTVSDPAVPPGEDPDGRYWVSGRNEAEAREKAAKE
FGVSPDKISLQQDEDVLDTWFS SGLFPLSILGWPNQSEDL SVFYPGTLLLETGHDILFFWARMVMLGLKL
TGRLPFREVYLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPSEVEKAKEGQKADF
PAGIPECGTDALRFGLCAYMSQGRDINLDVNRILGYRHF CNKLWNATK FALRGLGKGFVPSPTSQPGGHE
SLVDRWIRSRLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLECLKPVLNGVDQVAEACARQTLY
TCLDVGLRLLSPFMPFVTEELFQRLPRMPQAPPSLCVTPYPEPESECSWKDPEAEAALELALSITRAVRS
LRADYNLTRIRPDCFLEVADEATGALASAVSGYVQALASAGVVAVLALGAPAPQGC AVALASDRCSIHLQ
LQGLVDPARELGKLQAKRVEAQRQAQR LRERRAASGYPVKVPLEVQE ADEAKLQQTEAELRKVDEAIALF
QKML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

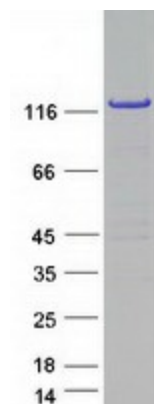
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006286
RefSeq Size:	4308
RefSeq ORF:	3792
Synonyms:	G7A; NDMSCA; VARS; VARS2
Locus ID:	7407
UniProt ID:	P26640 , A0A024RCN6
Cytogenetics:	6p21.33
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]).