

Recombinant Human VARS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VARS-1120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VARS MS Standard C13 and N15-labeled recombinant protein (NP_006286) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	140.5 kDa
AA Sequence	MSTLYVSPHPDAFPSLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTSFPPPR LPALQGGPGLWVWGATAVAQLLWPAGLGGPGGSRAAVLVQQWVSYADTELIPAA CGATLPALGLRSSAQDPQAVLGALGRALSPLEEWLRLHTYLAGEAPTLADLAAVTAL LLPFRYVLDPPARRIWNVTRWFVTCVRQPEFRAVLGEVVLVYSGARPLSHQPGPEA PALPKTAAQLKKEAKKREKLEKFQQKQKIQQQPPPGEEKPKPEKREKRDPGVITY DLPTPPGEKKDVSGMPDYSYSPRYVEAAWYPWWEQQGFFKPEYGRPNVSAANPR GVFMMCIPPPNVTGSLHLGHALTNAIQDSLTRWHRMRGETTLWNP GCDHAGIATQV

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VVEKKLWREQGLSRHQLGREAFLEQEVWKWKEEKGDRIYHQLKKGSSLDWDRACF
 TMDPKLSAAVTEAFVRLHEEGIIYRSTRLVNWSCTLNSAISDIEVDKKELTGRTLLSVP
 GYKEKVEFGVLVSFAYKVQGSDESDEEVVATTRIETMLGDVAVAVHPKDTRYQHLK
 GKNVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQNDYEVGQRHGLEAISIMDSR
 GALINVPPPFLGLPRFEARKAVLVALKERGLFRGIEDNPMVVPLCNRSKDVVEPLLRP
 QWYVRCGEMAQAASAATRGRDLRILPEAHQRTWHAWMDNIREWCISRQLWWGHR
 IPAYFVTVSDPAVPPGEDPDGRYWVSGRNEAEAREKAAKEFGVSPDKISLQQDEDV
 LDTWFSSGLFPLSILGWPNQSEDLSVFYPGTLLLETGHDILFFWARMVMLGLKLTGR
 LPFREYVLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPSEVEK
 AKEGQKADFPAGIPECGTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNAT
 KFALRGLGKGFVPSPTSQPGGHESLVDRWIRSRLTEAVRLSNQGFQAYDFPAVTTA
 QYSFWLYELCDVYLECLKPVLNGVDQVAAECARQTLTYCLDVGLRLLSPFMPFVTE
 ELFQRLPRRMPQAPPSLCVTPYPEPSECSWKDPEAEAALELALSITRAVRSLRADYN
 LTRIRPDCFLEVADEATGALASAVSGYVQALASAGVVAVLALGAPAPQGCAVALASD
 RCSIHLQLQGLVDPARELGKLQAKRVEAQRQAQRLRERRAASGYPVKVPLEVQEAD
 EAKLQQTEAELRKVDEAIALFQKMLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

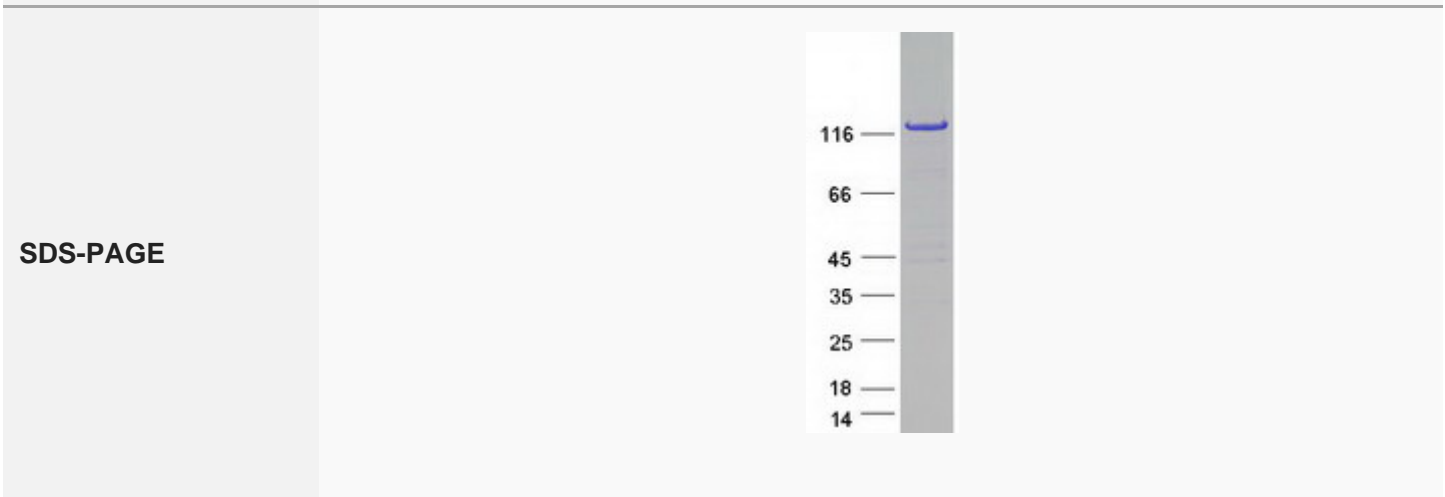
GENE INFORMATION

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Gene Name	VARS valyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	VARS
Synonyms	VARS; valyl-tRNA synthetase; valyl tRNA synthetase 2, VARS2; valine--tRNA ligase; valine tRNA ligase 1; cytoplasmic; valRS; protein G7a; valyl-tRNA synthetase 2; valine tRNA ligase 1, cytoplasmic; G7A; VARS1; VARS2;
Gene ID	7407
mRNA Refseq	NM_006295
Protein Refseq	NP_006286
MIM	192150
UniProt ID	P26640



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