

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	MSTLYVSPHPDAFP SLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTSFPPPR LPALQGGPGLWVWGATAVAQLLWPAGLGPGGSRAAVLVQQWVSADTELIPAA CGATLPALGLRSSAQDPQAVLGALGRALSPLEEWLRLHTYLAGEAPTLADLAAVTAL LLPFRYVLDPPARRIWNVTRWFVTCVRQPEFRAVLGEVLYSGARPLSHQPGPEA PALPKTAAQLKKEAKKREKLEKFQQKQKIQQQQPPPGEEKPKPEKREKRDPGVITY DLPTPPGEKKDVSGMPDSSPRYVEAAWYPWWEQQGFFKPEYGRPNVSAANPR GVFMMCIPPPNVTGSLHLGHALTNAIQDSLTRWHRMRGETTLWNPGCDHAGIATQV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VVEKKLWREQGLSRHQLGREAFLEQVWKWKEEKGDRIYHQLKKLGSSLDWDRACF
 TMDPKLSAAVTEAFVRLHEEGIIYRSTRLVNWSCITLNSAISDIEVDKKELTGRTLLSVP
 GYKEKVEFGVLVSFAYKVQGSDESDEEVVVATTRIETMLGDVAVAVHPKDTRYQHLK
 GKNVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQNDYEVGQRHGLEAISIMDSR
 GALINVPPPFLGLPRFEARKAVLVALKERGLFRGIEDNPMVVPLCNRSKDVVEPLLRP
 QWYVRCGEMAQAASAAVTRGDLRILPEAHQRTWHAWMDNIREWCISRQLWWGHR
 IPAYFVTVSDPAVPPGEDPDGRYWVSGRNEAEAREKAAKEFGVSPDKISLQQDEDV
 LDTWFSSGLFPLSILGWPNQSEDLSVFYPGTLLTGHDLFFWARMVMLGLKLTGR
 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	VAR5 valyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	VAR5
Synonyms	VAR5; valyl-tRNA synthetase; valyl tRNA synthetase 2, VAR52; valine--tRNA ligase; valine tRNA ligase 1; cytoplasmic; valRS; protein G7a; valyl-tRNA synthetase 2; valine tRNA ligase 1, cytoplasmic; G7A; VAR51; VAR52;
Gene ID	7407
mRNA Refseq	NM_006295
Protein Refseq	NP_006286
MIM	192150
UniProt ID	P26640
SDS-PAGE	