

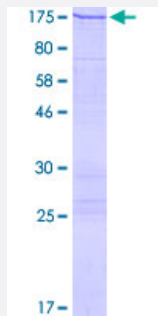
Full-Length

VARS (Human) Recombinant Protein (P01)

Catalog # H00007407-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human VARS full-length ORF (AAH12808.1, 1 a.a. - 1264 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSTLYVSPHPDAFPSLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTSFPPRLPALEQGP
GGLWVWGATAVAQLLWPAGLGGPGGSRAAVLVQQWVSADTELIPAACGATLPALGLRSSAQD
PQAVLGALGRALSPLEEWRLHTYLAGEAPTLADLAAVTALLPFRYVLDPPARRWNNVTRWV
TCVRQPEFRAVLGEVVLVYSGARPLSHQPGPEAPALPKTAAQLKKEAKKREKLEKFQQKQKIQQQ
QPPPGEKKPKPEKREKRDPGVITYDLPTPPGEKKDVSGPMPDSYSPRYVEAAWYPWWEQQGF
FKPEYGRPNVSAANPRGVFMMCIPPNVTGSLHLGHALTNAIQDSLTRWHRMRGETTLWNP
GCDHAGIATQVVVEKKLWREQGLSRHQLGREAFLEQVWKWKEEKGDRIYHQLKKLGSSLDWD
RACFTMDPKLSAAVTEAFVRLHEEGIYRSTRLVNWSCTLNSAIDIEVDKKELTGRTLLSV
PGYKEKVEFGVLVSFAYKVQGSDSDEEVVATTRIETMLGDVAVAVHPKDTRYQHLKGK
NVIHPFLSRSLPIVDFEFVDMDFGTGAVKITPAHDQNDYEVGQRHGLEAISIMDSRGALIN
VPPFGLPRFEARKAVLVALKERGLFRGIEDNPMVVPLCNRSKDVVEPLLRPQWYVRCGE
MAQAASAAVTRGDLRILPEAHQRTWHAWMDNIREWCISRQLWWGHRIPAYFVTVSDPA
VPPGEDPDGRYVWVSGRNEAEAREKAAKEFGVSPDKISLQQDEVDLDTWFSSGLFPL
SILGWPNQSEDLVSFYPGTLLETGHDILFFWVARMVMLGKLKTGRLPFREYVLHAI
VRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPSEVEKAKEGQKADFP
AGIPECGTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNATKFALRGLGKG
FVPSPTSQPGGHESLVDRWIRSRLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDV
YLECLKPVLNGVDQVAAECARQTLYTCLDVGLRLLSPFMPFVTEELFQRLPRRMPQAP
PSLCVTPYPEPSECSWKDPEAAEALALSITRAVRSRLADYNLTRIRPDCFLEVADEATG
ALASAVSGYVQALASAGVVAVLALGAPAPQGCAVALASDRCSIHLQLQLGLVDPAREL
GKLQAKRVEAQRQAQRLRERRASGYPVKVPLEVQEAEAKLQQTEAELRKVDEAIALFQKML

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)	166.9
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — VARS

Entrez GeneID	7407
GeneBank Accession#	BC012808.2
Protein Accession#	AAH12808.1
Gene Name	VARS
Gene Alias	G7A, VARS1, VARS2
Gene Description	valyl-tRNA synthetase
Omim ID	192150
Gene Ontology	Hyperlink

Gene 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]

Other Designations

valine tRNA ligase 1, cytoplasmic|valyl-tRNA synthetase 2

Pathway

- [Aminoacyl-tRNA biosynthesis](#)
- [Valine](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)