

Recombinant Human VARS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VARS2-5251H Lot. No. (See product label)

SPECIFICATION

Product Overview	VARS2 MS Standard C13 and N15-labeled recombinant protein (NP_065175) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a mitochondrial aminoacyl-tRNA synthetase, which catalyzes the attachment of valine to tRNA(Val) for mitochondrial translation. Mutations in this gene cause combined oxidative phosphorylation deficiency-20, and are also associated with early-onset mitochondrial encephalopathies. Alternative splicing of this gene results in multiple transcript variants.
Molecular Mass	118.4 kDa
AA Sequence	<p>MPHLPLASFRPPFWGLRHSRGLPRFHSVSTQSEPHGSPISRRNREAKQKRLREKQ ATLEAEIAGESKSPAESIKAWRPKELVLYEIPTKPGEKKDVSGPLPPAYSPRYVEAA WYPWWVREGFFKPEYQARLPQATGETFSMCIPPNVTGSLHIGHALTVAIQDALVR WHRMRGDQVLWVPGSDHAGIATQAVVEKQLWKERGVRRHELSTREAFLEWVQW KEAKGGEICEQLRALGASLDWDRECFTMDVGSSVAVTEAFVRLYKAGLLYRNHQLV NWSALRSAISDIEVENRPLPGHTQLRLPGCPTPVSFGLLFSVAFPVDGEPDAEVVV GTTRPETLPGDVAVAVHPDDSRYPYTHLHGRQLRHPLMGQPLPLITDYAVQPHVGTGA VKVTPAHSPADAEMGARHGLSPLNVIAEDGTMTSLCGDWLQGLHRFVAREKIMSVL</p>

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

SERGLFRGLQNHPMVLPICSRSGDVIEYLLKNQWFVRCQEMGARAAKAVESGALEL
 SPSFHQKNWQHWFHSHIGDWCVSRQLWVGHWQIPAYLVVEDHAQGEEDCWVVGSR
 EAEAREVAAELTGRPGAELTLERDPDVLDTWFSSALFPFSALGWPQETPDLARFYP
 LSLEETGSDLLLFWVGRMVMLGTQLTGQLPFSKVLHHPMVRDRQGRKMSKSLGNVL
 DPRDIISGVEMQVLQEKLRSGLNDPAELAIVAAAQKKDFPHGIPECGTDALRFTLCSH
 GVQAGDLHLSVSEVQSCRHFCNKIWNALRFILNALGEKFVPQPAEELSPSSPMDAWI
 LSRLALAAQECERGFLTRELSLVTHALHHFWLHNLCDVYLEAVKPVLWHSRPLGP
 PQVLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPSISVAPYPSACSLEHW
 RQPELERRFSRVQEVVQVLRALQATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLG
 TLGYCGAVGLLPPGAAAPSGWAQAPLSDTAQVYMELQGLVDPQIQLPLLAARRYKL
 QKQLDSLTPSEGEAGTQRQQKLSSLQLELSKLDKAASHLRQLMDEPPAPGSPE
 LTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Gene Name [VAR2](#) *valyl-tRNA synthetase 2, mitochondrial* [*Homo sapiens (human)*]

Official Symbol [VAR2](#)

Synonyms VAR2; valyl-tRNA synthetase 2, mitochondrial; VALRS; VARSL; VAR2L;

 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

COXPD20; valine--tRNA ligase, mitochondrial; valine tRNA ligase 2, mitochondrial (putative); valyl-tRNA synthetase like; EC 6.1.1.9

Gene ID 57176

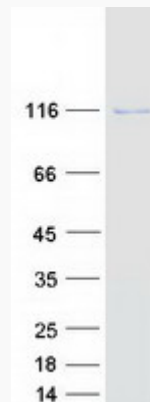
mRNA Refseq NM_020442

Protein Refseq NP_065175

MIM 612802

UniProt ID Q5ST30

SDS-PAGE



 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