

## Product datasheet for TP311310M

### VAR2 (NM\_020442) Human Recombinant Protein

#### Product data:

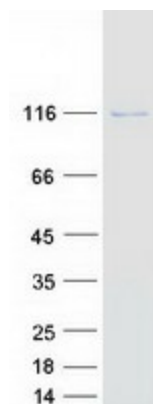
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human valyl-tRNA synthetase 2, mitochondrial (putative) (VAR2), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211310 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MPHLPLASFRPPFWGLRHSRGLPRFHSVSTQSEPHGSPISRRNREAKQKRLREKQATLEAEIAGESKSPA          ESIKAWRPKELVLYEIPTKPGEKKDVSGPLPPAYSPRYVEAAWYPWWWREGFFKPEYQARLPQATGETFS          MCIPPPNVTGSLHIGHALTVAIQDALVRWHRMRGDQVLWVPGSDHAGIATQAVVEKQLWKERGVRRELS          REAFLREVWQWKEAKGGEICEQLRALGASLDWDRECFTMDVGVSSVAVTEAFVRLYKAGLLYRNHQLVNWS          CALRSAISDIEVENRPLPGHTQLRLPGCPTPVSFGLLSVAFVVDGEPDAEVVGTTRPETLPGDVAVAV          HPDDSRYTHLHGRQLRHPLMGQPLPLITDYAVQPHVGTGAVKVTPAHSPADAEMGARHGLSPLNVIAEDG          TMTSLCGDWLQGLHRFVAREKIMSVLSERGLFRGLQNHMPVLPICRSRSGDVIEYLLKNQWFVRCQEMGAR          AAKAVESGALELSPSFHQKNWQHWFHSHIGDWCVSRQLWWGHQIPAYLVVEDHAQGEEDCWVWGRSEAEAR          EVAAELTGRPGAELTLERDPDVLDTWFSSALFPFALGWPQETPDLARFYPLSLLLETGSDLLLFWVGRMV          MLGTQLTGQLPFSKVLHMPVRDRQGRKMSKSLGNVLDPRDIISGVEMQVLQEKLRSNGNLDPAELAVAA          AQKKDFPHGIPECGTDALRFTLCSHGVSQAGDLHLSVSEVQSCRHFCNKIWNALRFILNALGEKFPQPAAE          ELSPSSPMDAWILSRALAAQECERGFRTRELSLVTHALHHFWLHNLCDVYLEAVKPVLWHSRPLGPPQ          VLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPSISVAPYPSACSLEHWRQPELERRFSRVQEVV          QVLRALQATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTLGYCGAVGLLPPGAAAPSGWAQAPLSDTA          QVYMELQGLVDPQIQLPLLAARRYKLQKQLDSLARTPSEGEAGTQRQKQLSSLQLELSKLDKAASHLRQ          LMDEPPAPGSPEL</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	118.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



[View online »](#)

<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_065175</a>
<b>Locus ID:</b>	57176
<b>UniProt ID:</b>	<a href="#">Q5ST30</a> , <a href="#">B4E0K6</a> , <a href="#">B4DG77</a>
<b>RefSeq Size:</b>	3622
<b>Cytogenetics:</b>	6p21.33
<b>RefSeq ORF:</b>	3189
<b>Synonyms:</b>	COXPD20; VALRS; VARS2L; VARSL
<b>Summary:</b>	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. [provided by RefSeq, Aug 2014]
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

### Product images:



Coomassie blue staining of purified VARS2 protein (Cat# [TP311310]). The protein was produced from HEK293T cells transfected with VARS2 cDNA clone (Cat# [RC211310]) using MegaTran 2.0 (Cat# [TT210002]).