

## Product datasheet for PH311310

### VAR2 (NM\_020442) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	VAR2 MS Standard C13 and N15-labeled recombinant protein (NP_065175)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211310
Predicted MW:	118.4 kDa
Protein Sequence:	>RC211310 protein sequence Red=Cloning site Green=Tags(s)

MPHLPLASFRPPFWGLRHSRGLPRFHSVSTQSEPHGSPISRRNREAKQKRLREKQATLEAEIAGESKSPA  
ESIKAWRPKELVLYEIPTKPGEKKDVSGLPPAYSPRYVEAAWYPWWVREGFFKPEYQARLPQATGETFS  
MCIPPPNVTGSLHIGHALTVAIQDALVRWHRMGDQVLWVPGSDHAGIATQAVVEKQLWKERGVRRHLS  
REAFLEVVQWKEAKGGEICEQLRALGASLDWDRECFTMDVGSSVAVTEAFVRLYKAGLLYRNHQLVNWS  
CALRSAISDIEVENRPLPGHTQLRLPGCPTPVSFGLLSVAFPPVDGEPDAEVVVGTTRPETLPGDVAVAV  
HPDDSRVYTHLHGRQLRHPLMGQPLPLITDYAVQPHVGTGAVKVTAPAHSPADAEMGARHGLSPLNVAEDG  
TMTSLCGDWLQGLHRFVAREKIMSVLSEGLFRGLQNHMPVLPICSRSGDVIEYLLKNQWFVRCQEMGAR  
AAKAVESGALLESFHFQKNWQHFHSHIGDWCVSRQLWWGHQIPAYLVVEDHAQGEEDCWVVGSRSEAEAR  
EVAEELTGRPGAELTLERDPDLDTWFSALFPFALGWQETPDLARFYPLSLETSGLLFWVGRMV  
MLGTQLTGQLPFKLVLLHPMVRDRQGRKMSKSLGNVLDPRDIISGVEMQVLQEKLRSGNLDPAELAVAA  
AQKDFPHGIPFCGTDLRFTLCSHGVAQAGDLHLSVSEVQSCRHFCNKIWNALRFILNALGEKFPVQPAE  
ELSPSSPMDAWILSRLALAAQECERGFRTRELSLVTHALHHFWLHNLCDVYLEAVKPVLWHSRPLGPPQ  
VLFSCADLGLRLLAPLMPFLAEELWQLPPRPGCPPAPSI SVAPYPSACSLHWRQPELERRF SRVQEVV  
QVLRALQATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTLGYCGAVGLLPPGAAAPSGWAQAPLSDTA  
QVYMEQLGLVDPQIQPLLAARRYKQLKQLDSL TARTPSEGEAGTQRQQLSSLQLELSKLDKAASHLRQ  
LMDEPPAPGSP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

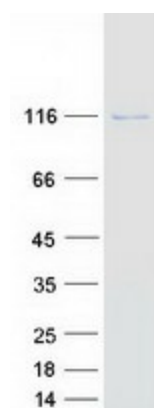
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<u>NP_065175</u>
<b>RefSeq Size:</b>	3622
<b>RefSeq ORF:</b>	3189
<b>Synonyms:</b>	COXPD20; VALRS; VARS2L; VARSL
<b>Locus ID:</b>	57176
<b>UniProt ID:</b>	<u>Q5ST30</u> , <u>B4E0K6</u> , <u>B4DG77</u>
<b>Cytogenetics:</b>	6p21.33
<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]).