

Recombinant Mouse Vars2 Protein, His-tagged

Cat. No. Vars2-547M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Vars2 Protein (Met1-Arg295) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Arg295
Description	Predicted to enable valine-tRNA ligase activity. Predicted to be involved in valyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Located in mitochondrion. Is expressed in several structures, including alimentary system; genitourinary system; integumental system; respiratory system; and tail. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 20. Orthologous to human VARS2 (valyl-tRNA synthetase 2, mitochondrial).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.3 kDa Accurate Molecular Mass: 39 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

 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

Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

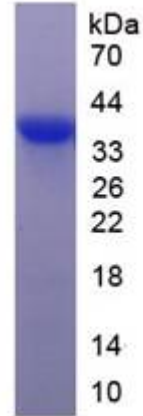
GENE INFORMATION

Gene Name	Vars2 valyl-tRNA synthetase 2, mitochondrial [Mus musculus (house mouse)]
Official Symbol	Vars2
Synonyms	Vars2; valyl-tRNA synthetase 2, mitochondrial; Vars1; Vars2l; valine--tRNA ligase, mitochondrial; valine--tRNA ligase, mitochondrial; valRS; valyl-tRNA synthetase 2, mitochondrial (putative); valyl-tRNA synthetase, mitochondrial; EC 6.1.1.9
Gene ID	68915
mRNA Refseq	NM_175137
Protein Refseq	NP_780346
UniProt ID	Q3U2A8

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