

Recombinant Mouse Cars2 Protein, His-tagged

Cat. No. Cars2-616M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cars2 Protein (Lys318-Gly551) with His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Lys318-Gly551
Description	Predicted to enable ATP binding activity and cysteine-tRNA ligase activity. Predicted to be involved in cysteinyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Predicted to be located in mitochondrion. Predicted to be active in cytoplasm. Is expressed in metanephros. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 27. Orthologous to human CARS2 (cysteinyl-tRNA synthetase 2, mitochondrial).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.8 kDa; Accurate Molecular Mass: 30 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

 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

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, 1mM DTT, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in PBS or others.

GENE INFORMATION

Gene Name

Cars2 cysteinyl-tRNA synthetase 2 (mitochondrial)(putative) [Mus musculus (house mouse)]

Official Symbol

Cars2

Synonyms

CARS2; cysteinyl-tRNA synthetase 2 (mitochondrial)(putative); probable cysteine--tRNA ligase, mitochondrial; cysRS; cysteine--tRNA ligase; cysteinyl-tRNA synthetase 2, mitochondrial; probable cysteinyl-tRNA synthetase, mitochondrial; 2310051N18Rik; 2410044A07Rik; D530030H10Rik;

Gene ID

71941

mRNA Refseq

NM_024248

Protein Refseq

NP_077210

UniProt ID

Q8BYM8

 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