

## Recombinant Mouse Cars Protein, His&GST-tagged

**Cat. No.** Cars-615M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Cars Protein (Ala2-Leu249) with His&GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Ala2-Leu249                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Predicted to enable several functions, including ATP binding activity; cysteine-tRNA ligase activity; and protein homodimerization activity. Predicted to be involved in cysteinyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Predicted to be located in cytosol. Predicted to be active in cytoplasm. Is expressed in several structures, including alimentary system; genitourinary system; integumental system; nervous system; and sensory organ. Orthologous to human CARS1 (cysteinyl-tRNA synthetase 1). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 58.6 kDa; Accurate Molecular Mass: 59 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cars cysteinyl-tRNA synthetase [ <i>Mus musculus</i> (house mouse) ]                                                     |
| <b>Official Symbol</b> | Cars                                                                                                                     |
| <b>Synonyms</b>        | CARS; cysteinyl-tRNA synthetase; cysteine--tRNA ligase, cytoplasmic; cysRS; cysteinyl-tRNA synthetase, cytoplasmic; CA3; |
| <b>Gene ID</b>         | 27267                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_001252593                                                                                                             |
| <b>Protein Refseq</b>  | NP_001239522                                                                                                             |
| <b>UniProt ID</b>      | Q9ER72                                                                                                                   |

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