

## Recombinant Human FARSA 293 Cell Lysate

**Cat. No.** FARSA-6326HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for phenylalanyl-tRNA synthetase, alpha subunit (FARSA) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                                                |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**
**Gene Name**

[FARSA phenylalanyl-tRNA synthetase, alpha subunit \[ Homo sapiens \]](#)

**Official Symbol**

FARSA

**Synonyms**

FARSA; phenylalanyl-tRNA synthetase, alpha subunit; FARSL, FARSLA, phenylalanine tRNA synthetase like , phenylalanyl tRNA synthetase like, alpha subunit; phenylalanine--tRNA ligase alpha subunit; CML33; phenylalanine tRNA ligase 1; alpha; cytoplasmic; pheRS; phenylalanine--tRNA ligase alpha chain; phenylalanyl-tRNA synthetase alpha chain; phenylalanine-tRNA synthetase alpha-subunit; phenylalanine tRNA ligase 1, alpha, cytoplasmic; phenylalanyl-tRNA synthetase-like, alpha subunit; phenylalanine-tRNA synthetase-like, alpha subunit; FRSA; FARSL; PheHA; FARSLA;

**Gene ID**

[2193](#)

**mRNA Refseq**

[NM\\_004461](#)

**Protein Refseq**

[NP\\_004452](#)

**MIM**

[602918](#)

**UniProt ID**

[Q9Y285](#)

**Chromosome  
Location**

19p13.2

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**Pathway**

Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;

**Function**

ATP binding; ligase activity; nucleotide binding; phenylalanine-tRNA ligase activity; protein binding; tRNA binding;

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