

Recombinant Human FARS2, His-tagged

Cat. No. FARS2-28164TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human FARS2 with an N terminal His tag; 436 amino acids with the tag, predicted MWt: 50.6 kDa.
Species	Human
Source	E.coli
ProteinLength	415 amino acids
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. This gene encodes a phenylalanine-tRNA synthetase (PheRS) localized to the mitochondrion which consists of a single polypeptide chain, unlike the (alpha-beta) ₂ structure of the prokaryotic and eukaryotic cytoplasmic forms of PheRS. Structure analysis and catalytic properties indicate mitochondrial PheRSs may constitute a class of PheRS distinct from the enzymes found in prokaryotes and in the eukaryotic cytoplasm.
Conjugation	HIS
Molecular Weight	50.600kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE

 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

Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM EDTA, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMPAAECATQRAPGSVVELLGKSY PQDDHSNLTRK VLTRVGRNLHNQQHHPLWLIKERVKEHFYKQYVGRFGTPLFSVYDNLSPVTTWQN FDSLLIPADHPSRKKGDNYLNRTHMLRAHTSAHQWDL LHAGLDAFLVVG DVYRRD QIDSQHYPHFHQLEAVRLF SKHEL FAGIKDGESLQLFEQSSRSAHKQETH TMEAVKL VEFDLKQTLTRLMAHLFGDELEIRWVDCYFPFTHPSFEMEINFHGEWLEVLGCGVM EQQLVNSAGAQDRIGWAFGLGLERLAMIL YDIPDIRLFWCEDERFLKQFCVSINQK VKFQPLSKYPAVINDISFWLPSENYAENDFYDLVRTIGGDLVEKVDLIDKFVHPKTHK TSHCYRITYRHMERTLSQREVRHIHQALQEAAVQLLGVEGRF
Sequence Similarities	Belongs to the class-II aminoacyl-tRNA synthetase family. Contains 1 FDX-ACB domain.

GENE INFORMATION

Gene Name	FARS2 phenylalanyl-tRNA synthetase 2, mitochondrial [Homo sapiens]
Official Symbol	FARS2
Synonyms	FARS2; phenylalanyl-tRNA synthetase 2, mitochondrial; FARS1, phenylalanine tRNA synthetase 1 (mitochondrial); phenylalanyl-tRNA synthetase, mitochondrial; dJ236A3.1; phenylalanine tRNA ligase 2; mitochondrial;
Gene ID	10667
mRNA Refseq	NM_006567

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Protein Refseq	NP_006558
MIM	611592
Uniprot ID	O95363
Chromosome Location	6p25.1
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; Gene Expression, organism-specific biosystem;
Function	ATP binding; ligase activity; magnesium ion binding; nucleotide binding; phenylalanine-tRNA ligase activity;

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