

Product datasheet for PH305843

FARS2 (NM_006567) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FARS2 MS Standard C13 and N15-labeled recombinant protein (NP_006558)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205843
Predicted MW:	52.4 kDa
Protein Sequence:	>RC205843 protein sequence Red=Cloning site Green=Tags(s)

MVGSALRRGAHAYVYLVS KASHISRGHQHQAWGSRPPAAECATQRAPGSVVELLGKSYQDDHSNLTRKV
LTRVGRNLHNQQHPLWLIKERVKEHFYKQYVGRFGTPLFSVYDNLSPVVTTWQNFDSLIPADHPSRKK
GDNYYLNRTHMLRAHTSAHQWDL LHAGLDAFLVVG DVYRRDQIDSQHYP IFHQLEAVRLF SKHEL FAGIK
DGESLQLFEQSSRS AHKQETH TMEAVKLVEFDL KQTLTRLMAHLFGDELEIRWVDCYFPFTHPSFEMEIN
FHGEWLEVLGCGVMEQQLVNSAGA QDRIGWAFGLGLERLAMILYDIPDIRLFWCEDERFLKQFCVSNINQ
KVKFQPLSKYPAVINDISFWLPSENYAENDFYDLVRTIGGD LVEKVDLIDKFVHPKTHKTSHCYRITYRH
MERTLSQREVRHIHQALQEAAVQLLGVEGRF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006558</u>
RefSeq Size:	1841
RefSeq ORF:	1353
Synonyms:	COXPD14; FARS1; HSPC320; mtPheRS; PheRS; SPG77



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Locus ID: 10667

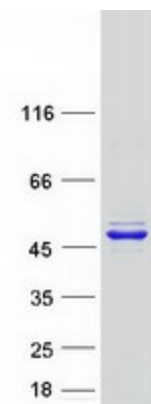
UniProt ID: [O95363](#)

Cytogenetics: 6p25.1

Summary: This gene encodes a protein that transfers phenylalanine to its cognate tRNA. This protein localizes to the mitochondrion and plays a role in mitochondrial protein translation. Mutations in this gene can cause combined oxidative phosphorylation deficiency 14 (Alpers encephalopathy). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Protein Pathways: Aminoacyl-tRNA biosynthesis

Product images:



Coomassie blue staining of purified FARS2 protein (Cat# [TP305843]). The protein was produced from HEK293T cells transfected with FARS2 cDNA clone (Cat# [RC205843]) using MegaTran 2.0 (Cat# [TT210002]).