

Product datasheet for RC205843L3

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OriGene Technologies, Inc.

FARS2 (NM_006567) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FARS2 (NM_006567) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: FARS2

Synonyms: COXPD14; FARS1; HSPC320; mtPheRS; PheRS; SPG77

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205843).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_006567

ORF Size: 1353 bp





FARS2 (NM_006567) Human Tagged Lenti ORF Clone - RC205843L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 006567.3</u>

 RefSeq Size:
 1841 bp

 RefSeq ORF:
 1356 bp

 Locus ID:
 10667

 UniProt ID:
 095363

Cytogenetics:

Domains: tRNA-synt 2d, FDX-ACB

Protein Pathways: Aminoacyl-tRNA biosynthesis

6p25.1

MW: 52.4 kDa

Gene 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]