

## Product datasheet for RC231163L3

## OriGene Technologies, Inc.

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## Selenophosphate synthetase 1 (SEPHS1) (NM\_001195602) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Selenophosphate synthetase 1 (SEPHS1) (NM\_001195602) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

**Symbol:** Selenophosphate synthetase 1

Synonyms: SELD; SPS; SPS1

Mammalian Cell Puromycin

Selection:

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

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

ORF Nucleotide The ORF ins

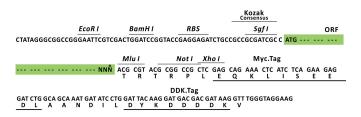
Sequence:

The ORF insert of this clone is exactly the same as(RC231163).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

ACCN: NM\_001195602

ORF Size: 975 bp





## Selenophosphate synthetase 1 (SEPHS1) (NM\_001195602) Human Tagged Lenti ORF Clone – RC231163L3

**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 001195602.1</u>, <u>NP 001182531.1</u>

 RefSeq ORF:
 978 bp

 Locus ID:
 22929

 UniProt ID:
 P49903

 Cytogenetics:
 10p13

**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Metabolic pathways, Selenoamino acid metabolism

MW: 35.7 kDa

**Gene Summary:** This gene encodes an enzyme that synthesizes selenophosphate from selenide and ATP.

Selenophosphate is the selenium donor used to synthesize selenocysteine, which is cotranslationally incorporated into selenoproteins at in-frame UGA codons. [provided by

RefSeq, Sep 2010]