

Product datasheet for RC209066L3

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SUOX (NM_000456) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SUOX (NM_000456) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Mammalian Cell Puromycin

Selection:

Vector:

Symbol:

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

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

SUOX

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC209066).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000456

ORF Size: 1635 bp



SUOX (NM_000456) Human Tagged Lenti ORF Clone - RC209066L3

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 000456.2, NP 000447.2</u>

 RefSeq Size:
 2564 bp

 RefSeq ORF:
 1638 bp

 Locus ID:
 6821

 UniProt ID:
 P51687

Cytogenetics: 12q13.2

Domains: oxidored_molyb, heme_1, Mo-co_dimer

Protein Families: Druggable Genome
Protein Pathways: Sulfur metabolism

MW: 60.3 kDa

Gene Summary: Sulfite oxidase is a homodimeric protein localized to the intermembrane space of

mitochondria. Each subunit contains a heme domain and a molybdopterin-binding domain. The enzyme catalyzes the oxidation of sulfite to sulfate, the final reaction in the oxidative degradation of the sulfur amino acids cysteine and methionine. Sulfite oxidase deficiency results in neurological abnormalities which are often fatal at an early age. Alternative splicing results in multiple transcript variants encoding identical proteins. [provided by RefSeq, Jul

2008]