

Product datasheet for RC205010L1

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SDHC (NM_003001) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SDHC (NM_003001) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: SDHC

Synonyms: CYB560; CYBL; PGL3; QPS1; SDH3

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205010).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_003001

ORF Size: 507 bp





SDHC (NM_003001) Human Tagged Lenti ORF Clone - RC205010L1

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 003001.2</u>

 RefSeq Size:
 2858 bp

 RefSeq ORF:
 510 bp

 Locus ID:
 6391

 UniProt ID:
 Q99643

Cytogenetics: 1q23.3

Domains: Sdh cyt

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease, Citrate cycle (TCA cycle), Huntington's disease, Metabolic pathways,

Oxidative phosphorylation, Parkinson's disease

MW: 18.6 kDa

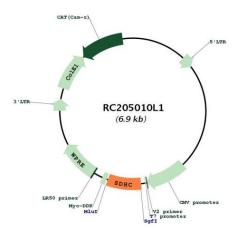
Gene Summary: This gene encodes one of four nuclear-encoded subunits that comprise succinate

dehydrogenase, also known as mitochondrial complex II, a key enzyme complex of the tricarboxylic acid cycle and aerobic respiratory chains of mitochondria. The encoded protein is one of two integral membrane proteins that anchor other subunits of the complex, which form the catalytic core, to the inner mitochondrial membrane. There are several related pseudogenes for this gene on different chromosomes. Mutations in this gene have been associated with paragangliomas. Alternatively spliced transcript variants have been

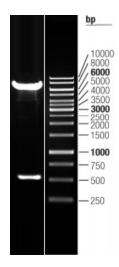
described. [provided by RefSeq, May 2013]



Product images:



Circular map for RC205010L1



Double digestion of RC205010L1 using Sgfl-Mlul