

Product datasheet for RC209918L4

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SURF1 (NM_003172) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SURF1 (NM_003172) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: SURF1

Synonyms: CMT4K; MC4DN1; SHY1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

The ORF insert of this clone is exactly the same as(RC209918). **ORF Nucleotide**

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_003172

ORF Size: 900 bp



SURF1 (NM_003172) Human Tagged Lenti ORF Clone - RC209918L4

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.

33.3 kDa

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 003172.2</u>

 RefSeq Size:
 1046 bp

 RefSeq ORF:
 903 bp

 Locus ID:
 6834

 UniProt ID:
 Q15526

Cytogenetics: 9q34.2

Domains: SURF1

MW:

Protein Families: Druggable Genome

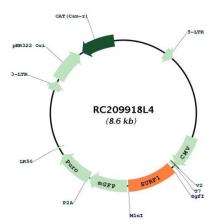
Gene Summary: This gene encodes a protein localized to the inner mitochondrial membrane and thought to

be involved in the biogenesis of the cytochrome c oxidase complex. The protein is a member of the SURF1 family, which includes the related yeast protein SHY1 and rickettsial protein RP733. The gene is located in the surfeit gene cluster, a group of very tightly linked genes that do not share sequence similarity, where it shares a bidirectional promoter with SURF2 on the opposite strand. Defects in this gene are a cause of Leigh syndrome, a severe neurological disorder that is commonly associated with systemic cytochrome c oxidase deficiency.

[provided by RefSeq, Jul 2008]



Product images:



Circular map for RC209918L4