

Product datasheet for RC211244L3

OriGene Technologies, Inc.

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Sodium Iodide Symporter (SLC5A5) (NM_000453) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sodium Iodide Symporter (SLC5A5) (NM 000453) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Sodium Iodide Symporter

Synonyms: NIS; TDH1

Mammalian Cell Puromycin

Selection:

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

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

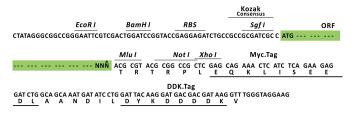
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211244).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000453

ORF Size: 1929 bp





OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

Cytogenetics:

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.

NM 000453.1 RefSeq:

RefSeq Size: 3594 bp RefSeq ORF: 1932 bp Locus ID: 6528 **UniProt ID:** Q92911

19p13.11 **Protein Families:** Druggable Genome, Transmembrane

MW: 68.7 kDa

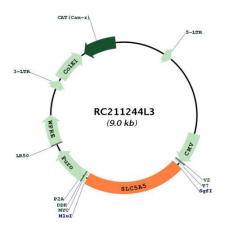
Gene Summary: This gene encodes a member of the sodium glucose cotransporter family. The encoded

> protein is responsible for the uptake of iodine in tissues such as the thyroid and lactating breast tissue. The iodine taken up by the thyroid is incorporated into the metabolic regulators triiodothyronine (T3) and tetraiodothyronine (T4). Mutations in this gene are associated with

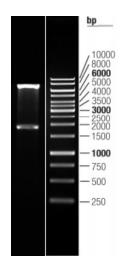
thyroid dyshormonogenesis 1.[provided by RefSeq, Sep 2009]



Product images:



Circular map for RC211244L3



Double digestion of RC211244L3 using Sgfl and Mlul