

## Product datasheet for RC204480L4

### Syntrophin alpha 1 (SNTA1) (NM\_003098) Human Tagged Lenti ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Syntrophin alpha 1 (SNTA1) (NM_003098) Human Tagged Lenti ORF Clone |
| Tag:                      | mGFP  |
| Symbol:                   | Syntrophin alpha 1  |
| Synonyms:                 | dj1187J4.5; LQT12; SNT1; TACIP1                                     |
| Mammalian Cell Selection: | Puromycin   |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)                                   |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC204480).      |
| Restriction Sites:        | SgfI-RsrII  |
| Cloning Scheme:           |   |

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

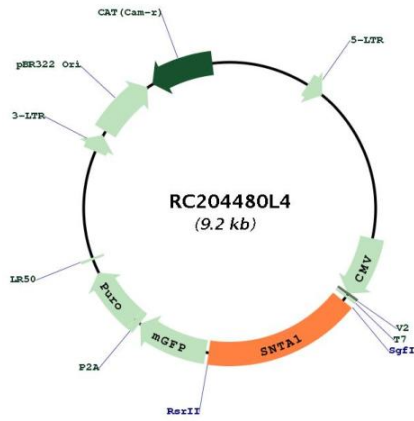
|           |           |
|-----------|-----------|
| ACCN:     | NM_003098 |
| ORF Size: | 1515 bp   |



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|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_003098.2</a>   |
| <b>RefSeq Size:</b>           | 2345 bp   |
| <b>RefSeq ORF:</b>            | 1518 bp   |
| <b>Locus ID:</b>              | 6640  |
| <b>UniProt ID:</b>            | <a href="#">Q13424</a>  |
| <b>Cytogenetics:</b>          | 20q11.21  |
| <b>Domains:</b>               | PDZ, PH   |
| <b>MW:</b>                    | 53.9 kDa  |
| <b>Gene Summary:</b>          | Syntrophins are cytoplasmic peripheral membrane scaffold proteins that are components of the dystrophin-associated protein complex. This gene is a member of the syntrophin gene family and encodes the most common syntrophin isoform found in cardiac tissues. The N-terminal PDZ domain of this syntrophin protein interacts with the C-terminus of the pore-forming alpha subunit (SCN5A) of the cardiac sodium channel Nav1.5. This protein also associates cardiac sodium channels with the nitric oxide synthase-PMCA4b (plasma membrane Ca-ATPase subtype 4b) complex in cardiomyocytes. This gene is a susceptibility locus for Long-QT syndrome (LQT) - an inherited disorder associated with sudden cardiac death from arrhythmia - and sudden infant death syndrome (SIDS). This protein also associates with dystrophin and dystrophin-related proteins at the neuromuscular junction and alters intracellular calcium ion levels in muscle tissue. [provided by RefSeq, Jan 2013] |

Product images:



Circular map for RC204480L4