

## Product datasheet for RC228784L1

### Syntaxin 1a (STX1A) (NM\_001165903) Human Tagged Lenti ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Syntaxin 1a (STX1A) (NM_001165903) Human Tagged Lenti ORF Clone |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Syntaxin 1a   |
| Synonyms:                 | HPC-1; P35-1; STX1; SYN1A                                       |
| Mammalian Cell Selection: | None  |
| Vector:                   | pLenti-C-Myc-DDK (PS100064)                                     |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                      |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC228784).  |
| Restriction Sites:        | SgfI-MluI   |
| Cloning Scheme:           |   |

Cloning sites used for ORF Shuttling:



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

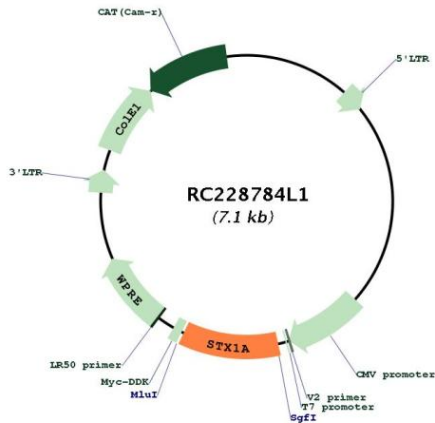
|           |              |
|-----------|--------------|
| ACCN:     | NM_001165903 |
| ORF Size: | 753 bp       |



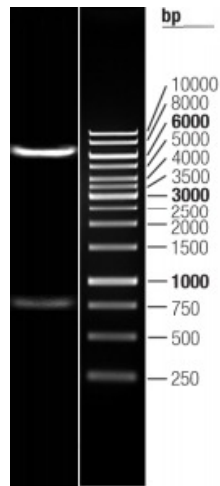
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|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences 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_001165903.1</a> , <a href="#">NP_001159375.1</a>  |
| <b>RefSeq ORF:</b>            | 756 bp   |
| <b>Locus ID:</b>              | 6804   |
| <b>UniProt ID:</b>            | <a href="#">Q16623</a>   |
| <b>Cytogenetics:</b>          | 7q11.23  |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein, Transmembrane  |
| <b>Protein Pathways:</b>      | SNARE interactions in vesicular transport  |
| <b>MW:</b>                    | 28.8 kDa   |
| <b>Gene Summary:</b>          | This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009] |

Product images:



Circular map for RC228784L1



Double digestion of RC228784L1 using SgfI and MluI