

Product datasheet for RC206573L1

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Stanniocalcin 1 (STC1) (NM_003155) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Stanniocalcin 1 (STC1) (NM_003155) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Stanniocalcin 1

Synonyms: STC

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(RC206573).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_003155

ORF Size: 741 bp





Stanniocalcin 1 (STC1) (NM_003155) Human Tagged Lenti ORF Clone - RC206573L1

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 003155.2</u>

 RefSeq Size:
 3897 bp

 RefSeq ORF:
 744 bp

 Locus ID:
 6781

 UniProt ID:
 P52823

Cytogenetics: 8p21.2

Domains:

Protein Families: Druggable Genome, Secreted Protein

Stanniocalcin

MW: 27.6 kDa

Gene Summary: This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety

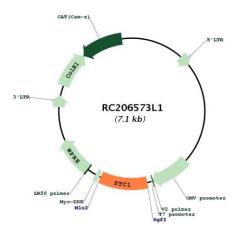
of tissues and may have autocrine or paracrine functions. The gene contains a 5' UTR rich in CAG trinucleotide repeats. The encoded protein contains 11 conserved cysteine residues and is phosphorylated by protein kinase C exclusively on its serine residues. The protein may play

a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Overexpression of human stanniocalcin 1 in mice produces high serum phosphate levels, dwarfism, and increased metabolic rate. This gene has altered expression in hepatocellular, ovarian, and breast

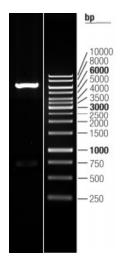
cancers. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC206573L1



Double digestion of RC206573L1 using Sgfl and Mlul $\,$