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Product datasheet for RC206573

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

Product data:

Product Type:	Expression Plasmids
Product Name:	Stanniocalcin 1 (STC1) (NM_003155) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stanniocalcin 1
Synonyms:	STC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206573 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCCAAAACTCAGCAGTGCTTCTGGTGCTGGTGATCAGTGCTTCTGCAACCCATGAGGCGGAGCAGA
ATGACTCTGTGAGCCCCAGGAAATCCCGAGTGGCGGCTCAAAACTCAGCTGAAGTGGTTCGTTGCCTCAA
CAGTGCTCTACAGGTCGGCTGCGGGGCTTTTGCATGCCTGGAAAACTCCACCTGTGACACAGATGGGATG
TATGACATCTGTAAATCCTTCTTGTACAGCGCTGCTAAATTTGACACTCAGGGAAAAGCATTCGTCAAAG
AGAGCTTAAAATGCATCGCCAACGGGGTCACCTCCAAGGTCTTCCTCGCCATTCGGAGGTGCTCCACTTT
CCAAAGGATGATTGCTGAGGTGCAGGAAGAGTGCTACAGCAAGCTGAATGTGTGCAGCATCGCCAAGCGG
AACCCTGAAGCCATCACTGAGGTCGTCCAGCTGCCCAATCACTTCTCCAACAGATACTATAACAGACTTG
TCCGAAGCCTGCTGGAATGTGATGAAGACACAGTCAGCACAATCAGAGACAGCCTGATGGAGAAAATTGG
GCCTAACATGGCCAGCCTCTTCCACATCCTGCAGACAGACCACTGTGCCCAAACACACCCACGAGCTGAC
TTCAACAGGAGACGCACCAATGAGCCGCAGAAGCTGAAAGTCCTCCTCAGGAACCTCCGAGGTGAGGAGG
ACTCTCCCTCCCACATCAAACGCACATCCCATGAGAGTGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206573 protein sequence
Red=Cloning site Green=Tags(s)

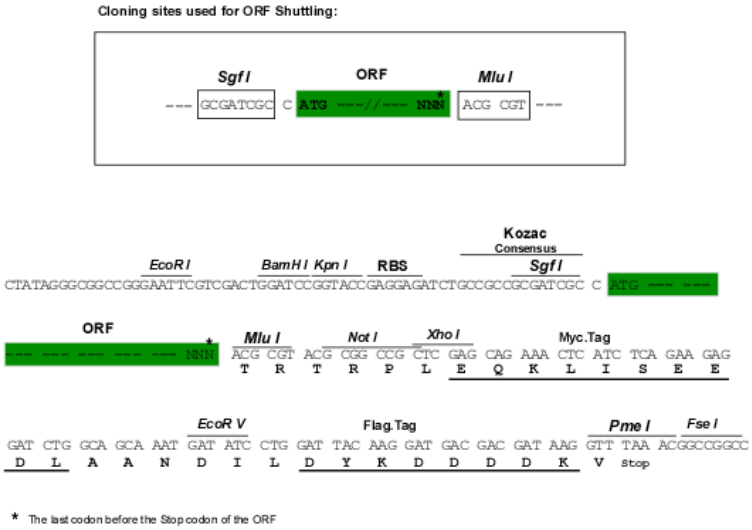
MLQNSAVLLVLVISASATHEAEQNDSVSPRKSRVAAQNSAEVVRCLNSALQVGCGAFACLENSTCDTDGM
YDICKSFLYSAAKFDTQGKAFVKESLKCIANGVTSKVFLAIRRCSTFQRMIAEVQEECYSKLNVCSIAKR
NPEAITEVVQLPNHFSNRYYNRLVRSLLECDEDTVSTIRDSLMEKIGPNMASLFHILQTDHCAQTHPRAD
FNRRRTNEPQKLKVLLRNLRGEEDSPSHIKRTSHESA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6017_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003155

ORF Size: 741 bp

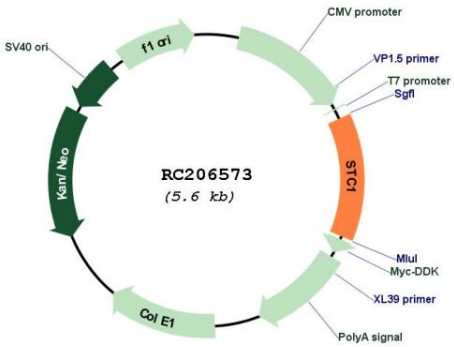
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

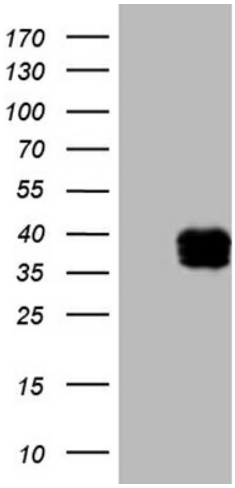
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003155.3
RefSeq Size:	3897 bp
RefSeq ORF:	744 bp
Locus ID:	6781
UniProt ID:	P52823
Cytogenetics:	8p21.2
Domains:	Stanniocalcin
Protein Families:	Druggable Genome, Secreted Protein
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]

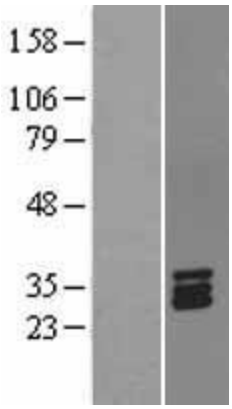
Product images:



Circular map for RC206573



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY STC1 (Cat# RC206573, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-STC1 (Cat# [TA810025])(1:2000). Positive lysates [LY401098] (100ug) and [LC401098] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206573 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).