

Product datasheet for **RG206573**

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:	TurboGFP
Symbol:	Stanniocalcin 1
Synonyms:	STC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206573 representing NM_003155 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCAAAACCTCAGCAGTGTCTCTGGTGTGGTGATCAGTGTCTCTGCAACCCATGAGGCGGAGCAGA
ATGACTCTGTGAGCCCCAGGAAATCCCAGTGGCGGCTCAAAAACCTCAGCTGAAGTGGTTCGTTGCCTCAA
CAGTGTCTACAGGTCGGCTGCGGGCTTTTGCATGCCTGGAAAACCTCCACCTGTGACACAGATGGGATG
TATGACATCTGTAATCCTTCTTGTACAGCGCTGCTAAATTTGACTCAGGGAAAAGCATTTCGTCAAAG
AGAGCTTAAAATGCATCGCCAACGGGGTCACTCCAAGTCTTCTCGCCATTTCGGAGGTGCTCCACTTT
CCAAGGATGATTGCTGAGGTGCAGGAAGAGTGTACAGCAAGCTGAATGTGTGCAGCATCGCCAAGCGG
AACCTGAAGCCATCACTGAGGTCTCCAGCTGCCAATCACTTCTCAAACAGATACTATAACAGACTTG
TCCGAAGCCTGTGGAATGTGATGAAGACACAGTCAGCACAATCAGAGACAGCCTGATGGAGAAAATTGG
GCCTAACATGGCCAGCCTCTCCACATCCTGCAGACAGACCAGTGTGCCAAACACACCCACGAGCTGAC
TTCAACAGGAGACGCACCAATGAGCCGCAGAAGCTGAAAGTCTCCTCCTCAGGAACCTCCGAGGTGAGGAGG
ACTCTCCTCCACATCAAACGCACATCCCATGAGAGTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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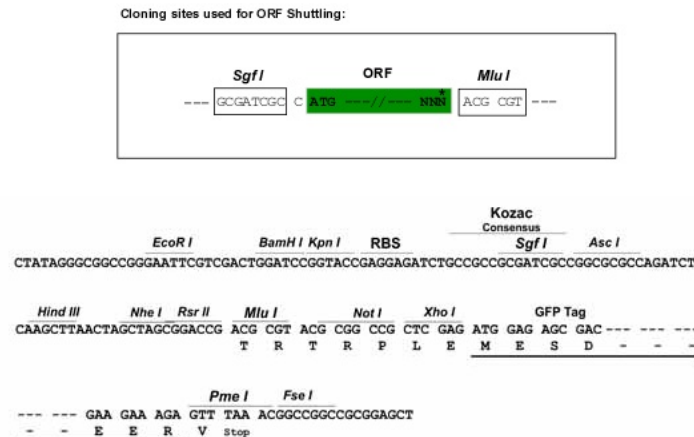
Protein Sequence: >RG206573 representing NM_003155
 Red=Cloning site Green=Tags(s)

MLQNSAVLLVLVISASATHEAEQNDSVSPRKSrvAAQNSAEVVRCLNSALQVGGAFACLENSTCDTDGM
 YDICKSFLYSAAKFDTQGKAFVKESLKCiangvtSKVFLAIRRCSTFQRMIAEVQEECYSKLNVCsIAKR
 NPEAITeVVQLPNHFSNRYYNRLVRSLLCEDEDTVSTIRDslMEKIGPNMASLFHILQTDHCAQTHPRAD
 FNRRRTNEPQKLKVLRLNLRGEEDSPSHIKRTSHEsA

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_003155.3](#)

RefSeq Size: 3897 bp

RefSeq ORF: 744 bp

Locus ID: 6781

UniProt ID: [P52823](#)

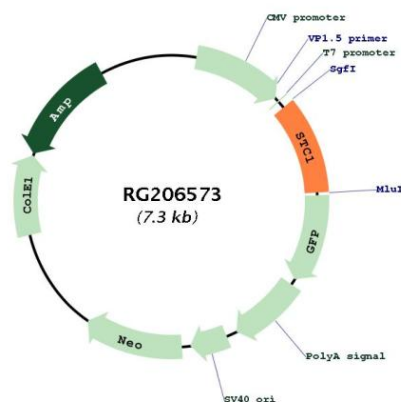
Cytogenetics: 8p21.2

Domains: Stanniocalcin

Protein Families: Druggable Genome, Secreted Protein

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 RG206573