

Product datasheet for **SC111027**

Stanniocalcin 1 (STC1) (NM_003155) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Stanniocalcin 1 (STC1) (NM_003155) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Stanniocalcin 1 |
| Synonyms: | STC |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_003155, the custom clone sequence may differ by one or more nucleotides |

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ATGCTCCAAAACCTCAGCAGTGCTTCTGGTGCTGGTGATCAGTGCTTCTGCAACCCATGAGGCGGAGCAGA
ATGACTCTGTGAGCCCCAGGAAATCCCGAGTGGCGGCTCAAAAACCTCAGCTGAAGTGGTTCGTTGCCTCAA
CAGTGCTCTACAGGTCGGCTGCGGGGCTTTTGCATGCCTGGAAAACCTCCACCTGTGACACAGATGGGATG
TATGACATCTGTAATCCTTCTTGTACAGCGCTGCTAAATTTGACACTCAGGGAAAAGCATTTCGTCAAAG
AGAGCTTAAAATGCATCGCCAACGGGGTCACCTCAAGGTCTTCCTCGCCATTCCGAGGTGCTCCACTTT
CCAAAGGATGATTGCTGAGGTGCAGGAAGAGTGCTACAGCAAGCTGAATGTGTGCAGCATCGCCAAGCGG
AACCTGAAGCCATCACTGAGGTGTCAGCTGCCAATCACTTCTCCAACAGATACTATAACAGACTTG
TCCGAAGCCTGTGGAATGTGATGAAGACACAGTCAGCACAATCAGAGACAGCCTGATGGAGAAAATTGG
GCCTAACATGGCCAGCCTCTCCACATCCTGCAGACAGACCCTGTGCCAAAACACACCCACGAGCTGAC
TTCAACAGGAGACGCACCAATGAGCCGCAGAAGCTGAAAGTCCTCCTCAGGAACCTCCGAGGTGAGGAGG
ACTCTCCCTCCCACATCAAACGCACATCCCATGAGAGTGCATAA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_003155 unedited GAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCAAGAAGCAGCGACTGC AGCAGCAGCAGCAGCAGCGGGTGGCAGCAGCAGCAGCAGCGGGCGGCAGCAGCAGCAGC AGCGGAGGCACCGGTGGCAGCAGCAGCATACCAGCAACAACAACAAAAAATCCTCA TCAATCCTCACCTAAGCTTTCAGTGTATCCAGATCCACATCTTCACTCAAGCCAGGAGA GGGAAAGAGGAAAGGGGGCAGGAAAAAAAAAACCACAACCTAGCGGAAACTTCTC AGAGAATGCTCCAAAACCTCAGCAGTCTTCTGGTGTGGTGATCAGTGTCTGTCAACCC ATGAGGCGGAGCAGAATGACTCTGTGAGCCCCAGGAAATCCCGAGTGGCGGCTCAAAAAC CAGCTGAAGTGGTTCGTTGCCTCAACAGTCTCTACAGGTCGGCTGCGGGGCTTTTGCAT GCCTGGAAAACCTCACCTGTGACACAGATGGGATGTATGACATCTGTAATCCTTCTTGT ACAGCGCTGTAAATTTGACACTCAGGAAAAGCATTTCGTCAAAGAGAGCTTAAATGCA TCGCCAACGGGGTCACTNCAAGGTCTTCTCGCCTTCGGAGGTGCTCCACTTCCAAAG GATGATTGCTGAGGTGCNGAANGAGTGCTACAGCAAGCTGAATGTGTGCAGCATCGCAA GCGGACCCTGAAGCCTCACTGGAGGTGCTCCAGCTGCCATCACTTNTCAACAGATACT ATACAGACTTGTCCCAGCCTGTGGAATGTGATGAAAACACCGTCAGCCAATCAGAGAC AGCCTGATGAGAAAATGGCCTACATGGCAGNCTCTTCCAATNCTGAAAAAACCACTG GGCAAACACACCCNAGCTGACTTACAGGAGACCACCATGACCCGAGAACTGAAGTCTCT CTAGAACCCCGGGGGGAGGGGCTC</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_003155 unedited NAGCTTNGTNNAGNNGCNGTGGTGGGACNACNANNGAGCGCTTCGCGGCTAC AGGNNACGAAAAATTTATGAGAAGTCTATTAAGGCTGAAACACTCCAGGGTTATTTATAC TCTCTCAGCCCCAAGTCCCCGGACTAAAGACCTAAAGGCTGATTGACTCATTCTGATT GTATTTAATGAAAGTCTCCACCCCATCATATTAGCCAGAGAATCATGCGTCGGTGAA AGGGGACGAGNATTTTTCTGCCACTTCTAATGTCTCGTAGGCCTTATCACTGTAAGT GGTCCAAGCCATAGGGACCCCTTTTGGTTCCTGGCCTTTCAGCCGGATGTGACAGA GATCTTTCAGTATAGGTCTAAGCCAAGAGTTGCCTCTGGGCTGAGGTGGGCTGGCCGATT AACATCTTACCTGGGGTCTTCCATAGGCCTGCCGGTCCCCCTGCCTCATACAGGCC CTCCTAACTCTTGGGGTTCGCTTACCCTCCTTACTCCCTCCGCTTCTCCTCAGGGCCA TAGGGCGCCTCCCTGCGCTCCTTCTGGTGTGCCGCCCTCCTCTCCTCCTCCGTTCCGCT TTCTCGCCCGCGTCCCCCGACCCGCCCGCCCGCGCTCCCTTCTCCTGCTCTCT CCCCCCCCCCGTCTGCGCCCTCTGTTCCCGTCCCCTCCGTTTTCCCTTCTCCTCG TCGACCTCCTTACCTTTTCTATTCTTTGGGCCTCCGCCCCCTCGTCCCCCCCCGTT CCGTCCCTGACCACGACCCGTTCTGCCGCCCGCTTCTCCGGCCCTCCCTCCAACCTG CTGTTTCTCCGTCTCTATCGCCGCCGCCCGCCCGTCTGTGTTGTGTTGCGATGTGGC GGTGCGCTGCGTCTTCCCGTCCGGCATGTGCGCGCCCAACAACCAACTATAAC</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003155 |
| Insert Size: | 2660 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_003155.2](#), [NP_003146.1](#)

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]