

Product datasheet for **SC324585**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003155.2
 CAAGAAGCAGCGACTGCAGCAGCAGCAGCAGCAGCGGGCGGTGGCAGCAGCAGCAGCAGCG
 GCGGCAGCAGCAGCAGCAGCAGCGGAGGCACCGGTGGCAGCAGCAGCATCACCAGCAACAACA
 ACAAAAAAAAAATCCTCATCAAATCCTCACCTAAGCTTTCAGTGTATCCAGATCCACATCT
 TCACTCAAGCCAGGAGAGGGAAAAGGAAAAGGGGGCAGGAAAAAAAAAAACCAACAA
 CTTAGCGGAACTTCTCAGAGAATGCTCCAAAACCTCAGCAGTGTCTTGGTGTGGTGAT
 CAGTGTCTGCAACCCATGAGGCGGAGCAGAATGACTCTGTGAGCCCCAGGAAATCCCG
 AGTGGCGGCTCAAAACTCAGCTGAAGTGGTTCGTTGCCTCAACAGTGTCTACAGGTCCG
 CTGCGGGGCTTTTGCATGCCTGGAATACTCCACCTGTGACACAGATGGGATGTATGACAT
 CTGTAAATCCTTCTGTACAGCGCTGCTAAATTTGACACTCAGGGAAAAGCATTCTGTCAA
 AGAGAGCTTAAATGCATCGCCAACGGGGTCACTCCAAGGTCTTCTCGCCATTCGGAG
 GTGCTCCACTTCCAAAGGATGATTGCTGAGGTGCAGGAAGAGTGTACAGCAAGCTGAA
 TGTGTGCAGCATCGCAAGCGGAACCTGAAGCCATCACTGAGGTGTCCAGCTGCCCAA
 TCACTTCTCCAACAGATACTATAACAGACTTGTCCGAAGCCTGCTGGAATGTGATGAAGA
 CACAGTCAGCACAATCAGAGACAGCCTGATGGAGAAAATTGGGCCTAACATGGCCAGCCT
 CTTCCACATCCTGCAGACAGACCCTGTGCCAAACACACCCACGAGCTGACTTCAACAG
 GAGACGCACCAATGAGCCGAGAAAGCTGAAAGTCTCCTCAGGAACTCCGAGGTGAGGA
 GGACTCTCCCTCCACATCAAACGCACATCCCATGAGAGTGCATAACCAGGGAGAGGTTA
 TTCACAACCTCACAAACTAGTATCATTTTAGGGGTGTTGACACACCAGTTTTGAGTGTA
 CTGTGCCTGGTTGATTTTTTAAAGTAGTTTCTATTTTCTATCCCCCTTAAAGAAAATT
 GCATGAACTAGGCTTCTGTAATCAATATCCCAACATTCTGCAATGGCAGCATTCCCACC
 AACAAAATCCATGTGACCATTCTGCCTCTCCTCAGGAGAAAGTACCCTCTTTTACCAACT
 TCCTCTGCCATGTTTTCCCTGCTCCCCTGAGACCACCCCAAACACAAAACATTCTATG
 TAACTCTCCAGCCATTGTAATTTGAAGATGTGGATCCCTTTAGAACGGTTGCCCCAGTAG
 AGTTAGCTGATAAGGAACTTTATTTAAATGCATGTCTTAAATGCTCATAAAGATGTTAA
 ATGGAATTCGTGTATGAATCTGTGCTGGCCATGGACGAATATGAATGTACATTTGAAT
 TCTTGATCTAATGAGCTAGTGTCTTATGGTCTTGATCCTCCAATGTCTAATTTTCTTT
 CCGACACATTTACCAAATGCTTGAGCCTGGCTGTCCAACCAGACTTTGAGCCTGCATCT
 TCTTGATCTAATGAAAAACAAAAGCTAACATCTTACGTACTGTAAGTCTCAGAGCT
 TAAAAAGTATCTTAAACAATTGTCTTAAAACCAGAGAATCTTAAAGTCTAACTGTGGAAT
 ATAAATAGCTGAAAACCTAATGTACTGTACATAAATCCAGAGGACTCTGCTTAAACAAG
 CAGTATATAATAACTTTATTGCATATAGATTTAGTTTTGTAACCTAGCTTTATTTTTCTT
 TTCTGGGAATGGAATACTATCTCACTTCCAGATATCCACATAAATGCTCCTTGTGGCC
 TTTTTTAACTAAGGGGTAGAAGTAGTTTTAATTCAACATCAAACTTAAAGTGGGCC
 TGTATGAGACAGGAAAAACCAACAGGTTTATCTGAAGGACCCAGGTAAGATGTTAATCT
 CCCAGCCACCTCAACCCAGAGGCTACTCTTGACTTAGACCTATACTGAAAGATCTCTGT
 CACATCCAACCTGGAATTCAGGAACCAAAAAGAGCATCCCTATGGGCTTGGACCACTTA
 CAGTGTGATAAGGCCTACTATACATTAGGAAGTGGCAGTCTTTACTCGTCCCCTTTCAT
 CGGTGCCTGGTACTCTGGCAAATGATGATGGGGTGGGAGACTTCCATTAATCAATCAG
 GAATGAGTCAATCAGCCTTTAGGTCTTTAGTCCGGGGACTTGGGGCTGAGAGAGTATAA
 ATAACCTGGGCTGTCCAGCCTAATAGACTTCTTACATTTTTCGCTCCTGTAGCAGCT
 GCCTGCCAAAGTAGTCTGGCAGCTGGACCATCTCTGTAGGATCGTAAAAAATAGAAAA
 AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003155

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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]