

Product datasheet for **SC320177**

Stanniocalcin 2 (STC2) (NM_003714) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stanniocalcin 2 (STC2) (NM_003714) Human Untagged Clone
Tag:	Tag Free
Symbol:	Stanniocalcin 2
Synonyms:	STC-2; STCRP
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_003714.2
 CATCCCTGCCATTGCCGGGCACTCGCGGCGCTGCTAACGGCCTGGTCACATGCTCTCCGG
 AGAGCTACGGGAGGGCGCTGGGTAACTCTATCCGAGCCGCGCCGCGAGGAGGAGGGAA
 AAGGCGAGCAAAAAGGAAGAGTGGGAGGAGGAGGGGAAGCGGCGAAGGAGGAAGAGGAGG
 AGGAGGAAGAGGGGAGCACAAGGATCCAGGTCTCCGACGGGAGGTTAATACCAAGAAC
 CATGTGTGCCGAGCGGCTGGGCCAGTTCATGACCCTGGCTTTGGTGTGGCCACCTTTGA
 CCCGGCGCGGGGACCGACGCCACCAACCACCCGAGGGTCCCCAAGACAGGAGTCCCA
 GCAGAAAAGGCGCCTGTCCTGCAGAATACAGCGGAGATCCAGCACTGTTTGGTCAACGC
 TGGCGATGTGGGGTGTGGCGTGTGTTGAATGTTTCGAGAACAACCTTTGTGAGATTCGGGG
 CTTACATGGGATTTGCATGACTTTTCTGCACAACGCTGGAAAAATTTGATGCCCAGGGCAA
 GTCATTTCATAAAGACGCCTTGAATGTAAGGCCACGCTCTGCGGCACAGGTTCCGGCTG
 CATAAGCCGGAAGTGCCCGGCCATCAGGGAAATGGTGTCCAGTTGCAGCGGGAATGCTA
 CCTCAAGCAGACCTGTGCGCGGCTGCCAGGAGAACACCCGGGTGATAGTGGAGATGAT
 CCATTTCAAGGACTTGTGCTGCACGAACCTACGTGGACCTCGTGAACCTGCTGCTGAC
 CTGTGGGAGGAGGTGAAGGAGGCCATCACCCACAGCGTGCAAGTTTCAGTGTGAGCAGAA
 CTGGGGAAGCCTGTGCTCCATCTTGAGCTTCTGCACCTCGGCCATCCAGAAGCCTCCAC
 GGCSCCCCCGAGCGCCAGCCCCAGGTGGACAGAACCAAGCTCTCCAGGGCCACACCGG
 GGAAGCAGGACATCACCTCCCAGAGCCCAGCAGTAGGGAGACTGGCCGAGGTGCCAAGGG
 TGAGCGAGGTAGCAAGAGCCACCCAAACGCCATGCCCGAGGCAGAGTCGGGGCCTTGG
 GGCTCAGGGACCTTCCGGAAGCAGCGAGTGGGAAGACGAACAGTCTGAGTATTCTGATAT
 CCGGAGGTGAAATGAAAGGCCTGGCCACGAAATCTTCTCCACGCCGTCCATTTTCTTA
 TCTATGGACATTCAAAAACATTTACCATTAGAGAGGGGGGATGTCACACGCAGGATTCTG
 TGGGACTGTGGACTTCATCGAGGTGTGTTCGCGGAACGGACAGGTGAGATGGAGAC
 CCTGGGGCCGTGGGGTCTCAGGGGTGCCTGGTGAATTCTGCACTTACACGTAACAAGGG
 AGCGCGCCCGCTTATCCTCGTACCTTTGTCTTTCCATCTGTGGAGTCAGTGGGTGT
 CGGCCGCTCTGTTGTGGGGAGGTGAACCAGGGAGGGGAGGGCAAGGCAGGGCCCCAG
 AGCTGGGCCACACAGTGGGTGCTGGGCCTCGCCCCGAAGCTTCTGGTGCAGCAGCCTCTG
 GTGCTGTCTCCGCGGAAGTCAGGGCGGCTGGATTCCAGGACAGGAGTGAATGTAATAATA
 AATATCGCTTAGAATGCAGGAGAAGGGTGGAGAGGAGGCAGGGGCCGAGGGGGTCTTGG
 TGCCAAACTGAAATTCAGTTTCTTGTGTGGGCCTTGCAGTTCAGAGCTCTTGGCAGGG
 TGGAGGGAGGAGTGCATTTCTATGTGTAATTTCTGAGCCATTGTACTGTCTGGGCTGGG
 GGGGACACTGTCCAAGGAGTGGCCCTATGAGTTTATATTTAACTACTGCTTCAAATC
 TCGATTTCACTTTTTTTATTTATCCAGTTATATCTACATATCTGTGATCTAAATAAATGG
 CTTTCAACAACAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003714

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:

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_003714.2](#), [NP_003705.1](#)

RefSeq Size: 5361 bp

RefSeq ORF: 909 bp

Locus ID: 8614

UniProt ID: [O76061](#)

Cytogenetics: 5q35.2

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 encoded protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Constitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth restriction, reduced bone and skeletal muscle growth, and organomegaly. Expression of this gene is induced by estrogen and altered in some breast cancers. [provided by RefSeq, Jul 2008]