

## Product datasheet for **TP300537M**

### Stanniocalcin 2 (STC2) (NM\_003714) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human stanniocalcin 2 (STC2), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC200537 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MCAERLGQFMTLALVLATFDPARGTDATNPPEGPQDRSSQKGRLSLQNTAEIQHCLVNAGDVGCGVFEC  
FENNSCEIRGLHGICMTFLHNAGKFDAQGKSFIDALKCKAHALRHRFGCISRKCPAIREMVSQIQRECY  
LKHDLCAAAQENTRVIVEMIHFKDLLLHEPYVDLVNLLLTCGEEVKEAITHSVQVQCEQNWGSLCSILSF  
CTSAIQKPPTAPPERQPQVDRTKLSRAHHGEAGHHLPEPSSRETGRGAKGERGSKSHPNAHARGRVGGLG  
AQGPGSGSSEWEDEQSEYSDIRR

**TR**TRPLE**QKLISEEDLAANDILDYKDDDDK**V

**Tag:** C-Myc/DDK

**Predicted MW:** 30.6 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_003705](#)

**Locus ID:** 8614



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UniProt ID: [O76061](#)

RefSeq Size: 5361

Cytogenetics: 5q35.2

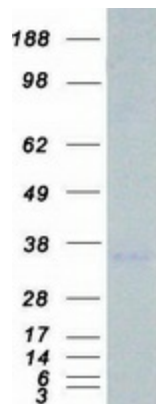
RefSeq ORF: 906

Synonyms: STC-2; STCRP

**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]

**Protein Families:** Druggable Genome, Secreted Protein

### Product images:



Coomassie blue staining of purified STC2 protein (Cat# [TP300537]). The protein was produced from HEK293T cells transfected with STC2 cDNA clone (Cat# [RC200537]) using MegaTran 2.0 (Cat# [TT210002]).