

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RG200537

### Stanniocalcin 2 (STC2) (NM\_003714) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stanniocalcin 2 (STC2) (NM_003714) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stanniocalcin 2
Synonyms:	STC-2; STCRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RG200537 representing NM_003714 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTGTGCCGAGCGGCTGGGCCAGTTCATGACCCTGGCTTTGGTGTTGGCCACCTTTGACCCGGCGCGGG GGACCGACGCCACCAACCCACCCGAGGGTCCCCCAAGACAGGAGCTCCCAGCAGAAAGGCCGCCTGTCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 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).

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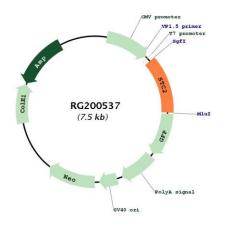
Stanniocalcin 2 (STC2) (NM_003714) Human Tagged ORF Clone – RG200537	
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 003714.2, NP 003705.1</u>
RefSeq Size:	5361 bp
RefSeq ORF:	909 bp
Locus ID:	8614
UniProt ID:	<u>076061</u>
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

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]

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## **Product images:**



Circular map for RG200537

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