

## Product datasheet for **RG226913**

### **SGK1 (NM\_001143678) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SGK1 (NM_001143678) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGK1
Synonyms:	SGK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226913 representing NM\_001143678  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGGAGATGCAGGGCGCGCTGGCCAGAGCCCGGCTCGAGTCCCTGCTGCGGCCCCGCCACAAAAGA  
 GGGCCGAGGCGCAGAAAAGGAGCGAGTCCCTTCTGCTGAGCGGACTGGCTTTCATGAAGCAGAGGAGGAT  
 GGGTCTGAACGACTTTATTTCAGAAGATTGCCAATAACTCCTATGCATGCAAACACCTGAAGTTCAGTCC  
 ATCTTGAAGATCTCCCAACCTCAGGAGCCTGAGCTTATGAATGCCAACCTTCTCCTCCACCAAGTCCCT  
 CTCAGCAAATCAACCTTGGCCCGTCTGCAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAAAGT  
 GATCGGAAAGGGCAGTTTTGAAAGGTTCTTAGCAAGACACAAGGCAGAAGAAGTGTCTATGCAGTC  
 AAAGTTTTACAGAAGAAAGCAATCCTGAAAAGAAAGAGGAGAAGCATATTATGTCGGAGCGGAATGTT  
 TGTTGAAGAATGTGAAGCACCTTCTGGTGGCCTTCACTTCTTTCCAGACTGCTGACAAATTGTA  
 CTTTGTCTAGACTACATTAATGGTGGAGATTGTTCTACCATCTCCAGAGGGAACGCTGCTTCTGGAA  
 CCACGGGCTCGTTTCTATGCTGCTGAAATAGCCAGTGCCTTGGGCTACCTGCATTCACTGAACATCGTTT  
 ATAGAGACTTAAAACCAGAGAATATTTTGTAGATTACAGGGACACATTGTCCTTACTGACTTCGGACT  
 CTGCAAGGAGAACATTGAACACAACAGCACAAATCCACCTTCTGTGGCAGCGCGGAGTATCTCGCACCT  
 GAGGTGCTTCATAAGCAGCCTTATGACAGGACTGTGGACTGGTGGTGCCTGGGAGCTGTCTTGTATGAGA  
 TGCTGTATGGCCTGCCGCTTTTTATAGCCGAAACACAGCTGAAATGTACGACAACATTCTGAACAAGCC  
 TCTCCAGCTGAAACCAATATTACAAATCCGCAAGACACCTCCTGGAGGGCCTCCTGCAGAAGGACAGG  
 ACAAGCGGCTCGGGCCAAGGATGACTTCATGGAGATTAAGAGTCATGTCTTCTCCTTAATTAAC  
 GGGATGATCTCATTAAATAAGAAGATTACTCCCCTTTTAACCAAAATGTGAGTGGGCGCAACGACCTACG  
 GCACTTTGACCCGAGTTTACCGAAGAGCCTGTCCCAACTCCATTGGCAAGTCCCTGACAGCGTCTC  
 GTCACAGCCAGCGTCAAGGAAGTGCCGAGGCTTCTAGGCTTTTCTATGCGCCTCCACGGACTCTT  
 TCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226913 representing NM\_001143678  
 Red=Cloning site Green=Tags(s)

MGEMQGALARARLESLLRPRHKKRAEAQKRSEFLLSGLAFMKQRRMGLNDFIQKIANNYSYACKHPEVQS  
 ILKISQPQEPELMNPSPPPSPSQINLGPSSNPHAKPSDFHFLKVIKGSFGKVLLARHKAEEVFYAV  
 KVLQKKAIIKKKEEKHIMSERVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLE  
 PRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDGFLCKENIEHNSTTSTFCGTPEYLAP  
 EVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQKPNITNSARHLLLEGLLQKDR  
 TKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPVSGPNDLRHFDFEFTPEEVPVNSIGKSPDSVL  
 VTASVKEAAEAFLGFSYAPPTDSFL

**TRTRPLE** - GFP Tag - V

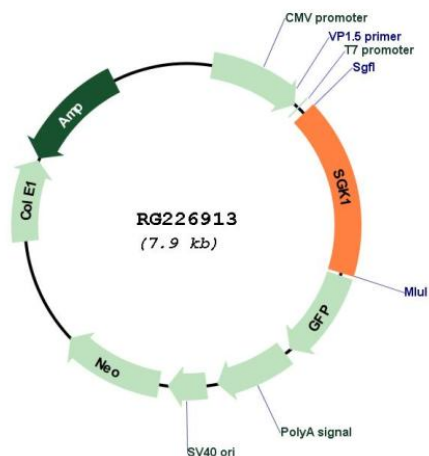
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001143678

ORF Size: 1335 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001143678.2</a>
<b>RefSeq Size:</b>	2638 bp
<b>RefSeq ORF:</b>	1338 bp
<b>Locus ID:</b>	6446
<b>UniProt ID:</b>	<a href="#">O00141</a>
<b>Cytogenetics:</b>	6q23.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009]