

Product datasheet for **SC116597**

SGK1 (NM_005627) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK1 (NM_005627) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGK1
Synonyms:	SGK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005627 edited
 ATGACGGTGAAAAGTCTGAGGCTGCTAAGGGCACCCCTCACTTACTCCAGGATGAGGGGCATG
 GTGGCAATTCTCATCGCTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTCAG
 AAGATTGCCAATAACTCCTATGCATGCAAAACACCCTGAAGTTCAGTCCATCTTGAAGATC
 TCCCAACCTCAGGAGCCTGAGCTTATGAATGCCAACCCCTTCTCCTCCACCAAGTCTTCT
 CAGCAAATCAACCTTGGCCCGTCTCAATCCTCATGCTAAACCATCTGACTTTCACTTC
 TTGAAAGTGATCGGAAAGGGCAGTTTTGGAAAGTTCTTCTAGCAAGACACAAGGCAGAA
 GAAGTGTCTATGCAGTCAAAGTTTTACAGAAGAAAGCAATCCTGAAAAAGAAAGAGGAG
 AAGCATATTATGTCGGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCCCTTCTGGTG
 GGCCTTCACTTCTTTCCAGACTGCTGACAAATTGTACTTTGCTCCTAGACTACATTAAT
 GGTGGAGAGTTGTTCTACCATCTCCAGAGGGAACGCTGCTTCTGGAACACGGGCTCGT
 TTCTATGCTGCTGAAATAGCCAGTGCCTTGGGCTACCTGCATTCACTGAACATCGTTTAT
 AGAGACTTAAAACCAGAGAATATTTTGCTAGATTCACAGGGACACATTGTCCTTACTGAC
 TTCGGACTCTGCAAGGAGAACATTGAACACAACAGCACACATCCACCTTCTGTGGCAGC
 CCGGAGTATCTCGCACCTGAGGTGCTTCATAAGCAGCCTTATGACAGGACTGTGGACTGG
 TGGTGCCTGGGAGCTGTCTTGTATGAGATGCTGTATGGCTGCCGCTTTTTATAGCCGA
 AACACAGCTGAAATGTACGACAACATTCTGAACAAGCCTCTCCAGCTGAAACCAATATT
 ACAAAATCCGCAAGACACCTCCTGGAGGGCCTCCTGCAGAAGGACAGGACAAAAGCGGCTC
 GGGGCCAAGGATGACTTCATGGAGATTAAGAGTCATGTCTTCTCCTTAATTAAGTGG
 GATGATCTCATTAAATAAGAAGATTACTCCCCTTTTAACCCAAAATGTGAGTGGGCCCAAC
 GACCTACGGCACTTTGACCCCGAGTTTACCGAAGAGCCTGTCCCAACTCCATTGGCAAG
 TCCCCTGACAGCGTCTCGTCACAGCCAGCGTCAAGGAAGCTGCCGAGGCTTCTAGGC
 TTTTCTATGCGCCTCCACGGACTCTTCTCTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005627 unedited
 ATCTTGATTTGTAACCGACTTCTATAGCGGCACGCGAATTCGCACGAGGCCGAGCCGG
 TCTTTGAGCGCTAACGTCTTTCTGTCTCCCCGCGGTGGTGATGACGGTGAAAAGTGAAGC
 TGCTAAGGGCACCTCACTTACTCCAGGATGAGGGGCATGGTGGCAATTCATCGCTTT
 CATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTGAGAAGATTGCCAATAACTCCTA
 TGCATGCAAACACCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGGAGCCTGA
 GCTTATGAATGCCAACCTTCTCCTCCACCAAGTCTTCTCAGCAAATCAACCTTGGCC
 GTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACCTTCTTGAAGTGATCGGAAAGGG
 CAGTTTTGGAAAGTTCTTCTAGCAAGACACAAGGCAGAGAAGTGTCTATGCAGTCAA
 AGTTTTACAGAAGAAAGCAATCCTGAAAAAGAAAGAGGAGAAGCATATTATGTCGGAGCG
 GAATGTTCTGTTGAAGAAATGTGAAGCACCTTTCTGGTGGCCTTCACTTCTCTTTCCA
 GACTGCTGACAAATTGACTTTGCTAGACTACATTAATGGTGGAGAGTTGTTCTACCA
 TCTCCAGAGGGAACGCTGCTTCTGGAACCACGGGCTCGTTTCTATGCTGCTGANATAGC
 CAGTGCCTTGAGTACCTGCATTCACTGAACATCGTTTATAGAGACTTANACCAGAGAAT
 ATNTTGCTAGATTACAGGGACACATTGTCCTACTGACTTNCGACTCTGCAAGGAGAACA
 TTTGACACAACAGCACAACATCCACCTTCTGTGGCAGCCGGAGTATCTCGCACCTGAAG
 TGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005627 unedited
 TTCGTTTTGTACCGCGCCCGCAATCTAGCATCGAGTTTTTTTTTTTTTTTTTTTTAAATAT
 TTTTCAAGGTTTTATTGCAAACCAAAATCAGTTTATCACACACAAAAAAGTTGTGTGAT
 GGGATGAGGGAAGGATTGTACGTATTATAACCATGTTAATTACAGTACATTAATAAGTGTG
 GTTTACATTACAATAAGCCTGTAAGTTTAAATATACTAGTGTATAACCCAATGTACAG
 ACGTTCTTTATACAATACATAAATTATCAGGAATGCAAAAAAAAAAACATAAATAATGC
 CCATTTTACAGGTGACATTTTAAACAATGAAAAACCAACGGCTCTGACTGACAACTGG
 GGCATTGGTCCATAAAAACCTTTCTAAAAATAGAAATATTTGTAGCAGTAATGCTTTCT
 TTAAGCATCTGAATACGAGTCATTGCAAGACATTTCAATAAATTTTAGTTATTAACCG
 TATCTTACAAAAAGTCTACACATAAATTTATCTTCCAAATATGGAAGAAAACAACAATG
 TCCCACGTTGTAGTGTCTGCAAGTGTAAACATTGATGCTTATAACAAAATCCATCTGTGA
 TCAGGCATACCACACTCACACGACGTTTACACAGCATATTCACAAGGGAAAAATAAGAA
 CTGAAACACTGCGATAGGAAAAGTTTTGGAGCTAACACATCTCTTTCAGACAATGCACAT
 TTCATATTATTTGTAATTAAGCAAGACAGATCTGCCAGAAGACCTTTTTAGAACAGC
 GTCCCGCTTTCTAACAAAATTCCTGGCTTCCGTTTAAAGCCGCACTCCTACCGCTTGCTT
 TAGAGATAGCCCCAGTTGTGAAGGAAGATTAATAAATGAACACTTNTTGAGCTCATTGAGG
 AGATGCGCTTTCCAAAACCTTCCAGCGACAGGTGGAATAAAAATGCTAACTTTCAAN

Restriction Sites:

NotI-NotI

ACCN:

NM_005627

Insert Size:

2560 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_005627.2](#), [NP_005618.2](#)

RefSeq Size: 2386 bp

RefSeq ORF: 1296 bp

Locus ID: 6446

UniProt ID: [O00141](#)

Cytogenetics: 6q23.2

Domains: pkinase, S_TK_X, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]

Transcript Variant: This variant (1) represents the predominant transcript and encodes the shortest isoform (1).