

Product datasheet for **SC322238**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for SC322238
 GGTCTTTGAGCGCTAACGTCCTTTCTGTCTCCCCGCGGTGGTGATGACGGTGAAAACCTGAG
 GCTGCTAAGGGCACCCCTCACTTACTCCAGGATGAGGGGCATGGTGGCAATTCTCATCGCT
 TTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTCAGAAGATTGCCAATAACTCC
 TATGCATGCAAACACCCTGAAGTTCAGTCCATCTTGAAGATCTCCAACCTCAGGAGCCT
 GAGCTTATGAATGCCAACCCCTTCTCTCCACCAAGTCTTCTCAGCAAATCAACCTTGGC
 CCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACCTTCTTGAAGTGTATCGGAAAG
 GGCAGTTTTGGAAAGTTCTTCTAGCAAGACACAAGGCAGAAGAAGTGTCTATGCAGTC
 AAAGTTTTACAGAAGAAAGCAATCCTGAAAAAGAAAGAGAGAAGCATATTATGTCGGAG
 CGGAATGTTCTGTGAAGAATGTGAAGCACCCCTTCTGGTGGGCCTTCACTTCTCTTTC
 CAGACTGCTGACAAATTGACTTTGTCCTAGACTACATTAATGGTGGAGAGTTGTTCTAC
 CATCTCCAGAGGGAACGCTGCTTCTGGAACCACGGGCTCGTTTTCTATGCTGCTGAAATA
 GCCAGTGCCTGGGCTACCTGCATTCACTGAACATCGTTTATAGAGACTTAAAACCAGAG
 AATATTTTGTAGATTACAGGGACACATTGCCTTACTGACTTCGGACTCTGCAAGGAG
 AACATTGAACACAACAGCACAAACATCCACCTTCTGTGGCAGCCGGAGTATCTCGCACCT
 GAGGTGCTTCATAAGCAGCCTTATGACAGGACTGTGGACTGGTGGTGCCTGGGAGCTGTC
 TTGTATGAGATGCTGTATGGCCTGCCGCCTTTTTATAGCCGAAACACAGCTGAAATGTAC
 GACAACATTCTGAACAAGCCTCTCCAGCTGAAACCAAATATTACAAATCCGCAAGACAC
 CTCCTGGAGGGCCTCCTGCAGAAGGACAGGACAAGCGGCTCGGGGCCAAGGATGACTTC
 ATGGAGATTAAGAGTCATGTCTTCTTCTCTTAATTAAGTGGGATGATCTCATTAAATAAG
 AAGATTACTCCCCTTTTAAACCAAATGTGAGTGGGCCAACGACCTACGGCACTTTGAC
 CCCGAGTTTACGAAGAGCCTGTCCCAACTCCATTGGCAAGTCCCCTGACAGCGTCTCC
 GTCACAGCCAGCGTCAAGGAAGCTGCCGAGGCTTCTAGGCTTTTCTATGCGCCTCCC
 ACGGACTCTTCTCTGAACCTGTTAGGGCTTGGTTTTAAAGGATTTTTATGTGTGTTTT
 CGAATGTTTTAGTTAGCCTTTTGGTGGAGCCGACGCTGACAGGACATCTTACAAGAGAA
 TTTGCACATCTCTGGAAGCTTAGCAATCTTATTGCACACTGTTTCGCTGGAAGCTTTTTGA
 AGAGCACATTCTCCTCAGTGAGCTCATGAGTTTTTATTTTTATTCTTCTTCCAACGTG
 GTGCTATCTCTGAAACGAGCGTTAGAGTGCCGCCTTAGACGGAGGCAGGAGTTTCGTTAG
 AAAGCGGACGCTGTTCTAAAAAAGGTCTCCTGCAGATCTGTCTGGGCTGTGATGACGAAT
 ATTATGAAATGTGCCTTTTCTGAAGAGATTGTGTTAGCTCCAAAGCTTTTCTATCGCAG
 TGTTTTAGTTCTTTATTTTCCCTTGTGGATATGCTGTGTGAACCGTCGTGTGAGTGTGGT
 ATGCCTGATCACAGATGGATTTTGTATAAGCATCAATGTGACACTTGCAGGACACTACA
 ACGTGGGACATTGTTGTTTTCTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTTT
 GTAAGATACGGTTAATAACTAAAATTTATTGAAATGGTCTTGCAATGACTCGTATTACAGA
 TGCTTAAAGAAAGCATTGCTGCTACAAATTTCTATTTTTAGAAAGGGTTTTTATGGAC
 CAATGCCCCAGTTGTCAGTCAGAGCCGTTGGTGTTTTTTTCATTGTTTAAAAATGTCACCTGT
 AAAATGGGCATTATTTATGTTTTTTTTTGCATTCTGATAATTGTATGTATTGTATAAA
 GAACGCTGTACATTGGGTTATAACACTAGTATATTTAACTTACAGGCTTATTTGTAAT
 GTAACCACCATTTTAAATGTAAGTAAATTAACATGGTTATAATACGTACAATCCTTCCCT
 CATCCCATCACACAACCTTTTTTGTGTGTGATAAACTGATTTTTGGTTTTGCAATAAAACCT
 TGAATAATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005627

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](#)

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_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).