

Product datasheet for **RC226711**

SGK1 (NM_001143677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK1 (NM_001143677) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGK1
Synonyms:	SGK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226711 representing NM_001143677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCATCTCAGAGTTCAGCTTATCAGAGGCATGTAGCAGGAGGCTTATTCCAGCCATAACTGGGCTC
 TACCTCCAGCCTCCAGAAGTAATCCCCAACCTGCATATCCTTGGGCAACCCGAAGAATGAAAGAAGAAGC
 TATAAAACCCCTTTGAAAGCTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTCAGAAGATT
 GCCAATAACTCCTATGCATGCAACACCCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGGAGC
 CTGAGCTTATGAATGCCAACCTTCTCCTCCACCAAGTCTTCTCAGCAAATCAACCTTGGCCCGTCGTC
 CAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAAGTGATCGAAAGGGCAGTTTTGAAAGGTT
 CTTCTAGCAAGACACAAGGCAGAAGAAGTGTCTATGCAGTCAAAGTTTTACAGAAGAAAGCAATCCTGA
 AAAAGAAAGAGGAGAAGCATATTATGTCGGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCTTTCT
 GGTGGGCTTCACTTCTTTCCAGACTGCTGACAAATTGTACTTTGCTAGACTACATTAATGGTGGA
 GAGTTGTTCTACCATCTCCAGAGGGAACGCTGCTTCTGGAACACGGGCTCGTTTTCTATGCTGCTGAAA
 TAGCCAGTGCCTTGGGCTACCTGCATTCAGTGAACATCGTTTATAGAGACTTAAAACCAGAGAATATTTT
 GCTAGATTCACAGGGACACATTGCTTACTGACTTCGGACTCTGCAAGGAGAACATTGAACACAACAGC
 ACAACATCCACCTTCTGTGGCAGCCGGAGTATCTCGACCTGAGGTGCTTCATAAGCAGCCTTATGACA
 GGACTGTGGACTGGTGGTGCCTGGGAGCTGTCTTGATAGAGATGCTGTATGGCCTGCCGCTTTTTATAG
 CCGAAACACAGCTGAAATGTACGACAACATTCTGAACAAGCCTCTCCAGCTGAAACCAAATTACAAAT
 TCCGCAAGACACCTCCTGGAGGGCTCCTGCAGAAGGACAGGACAAGCGGCTCGGGCCAAGGATGACT
 TCATGGAGATTAAGAGTCATGTCTTCTTCTCTTAATTAAGTGGGATGATCTCATTAAATAAGAAGATTAC
 TCCCCCTTTAAACCCAAATGTGAGTGGGCCCAACGACCTACGGCACTTTGACCCCGAGTTTACCGAAGAG
 CCTGTCCCAACTCCATTGGCAAGTCCCCTGACAGCGTCTCGTACAGCCAGCGTCAAGGAAGCTGCCG
 AGGCTTCTTAGGCTTTTCTATGCGCCTCCACGGACTTTTCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226711 representing NM_001143677
 Red=Cloning site Green=Tags(s)

MSSQSSSLSEACSRAYSSHNWALPPASRSNPQPAYPWATRRMKEEAIKPPLKAFMKQRRMGLNDFIQKI
 ANNSYACKHPEVQSILKISQPQPELMNANPSPPPSPSQINLGPSSNPYKPSDFHFLKVIKGSFGKV
 LLARHKAEVVFYAVKVLQKKAILKKKEEKHIMSERVLLKNVHPFLVGLHFSFQTADKLYFVLDYINGG
 ELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDGFLCKENIEHNS
 TTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITN
 SARHLLLEGLLQKDRTKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFPNPVSGPNDLRHFDPEFTTE
 PVPNSIGKSPDSVLVTASVKEAAEAFGLFSYAPPTDSFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001143677

ORF Size: 1377 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.

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_001143677.2](#)

RefSeq ORF: 1380 bp

Locus ID: 6446

UniProt ID: [O00141](#)

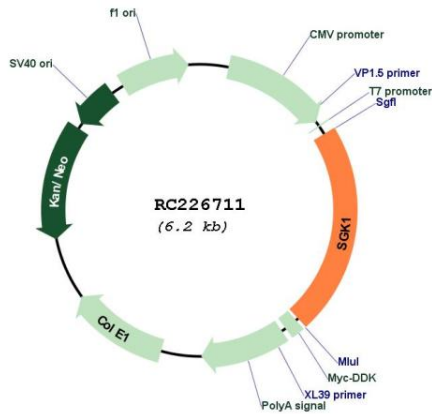
Cytogenetics: 6q23.2

Protein Families: Druggable Genome, Protein Kinase

MW: 51.9 kDa

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]

Product images:



Circular map for RC226711