

Product datasheet for **RC237901**

SGK1 (NM_001291995) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SGK1 (NM_001291995) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SGK1
Synonyms: SGK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237901 representing NM_001291995
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGGTGAAAACACTGAGGCTGCTAAGGGCACCTCACTACTCCAGGATGAGGGGCATGGTGGCAATTC
TCATCGCTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATTCAGAAGATTGCCAATAACTCCTA
TGCATGCAAACACCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGGAGCTGAGCTTATGAAT
GCCAACCTTCTCCTCCACCAAGTCCTTCTCAGCAAATCAACCTTGGCCGTCGTCGAATCCTCATGCTA
AACCATCTGACTTTCACTTCTTGAAGTGATCGGAAAGGGCAGTTTTGGAAAGGTTCTTCTAGCAAGACA
CAAGGCAGAAGAAGTGTCTATGCAGTCAAAGTTTTACAGAAGAAAGCAATCCTGAAAAAGAAAGAGTTG
TTTACCATCTCCAGAGGGAACGCTGCTTCTGGAACACGGGCTCGTTTCTATGCTGCTGAAATAGCCA
GTGCTTGGGCTACCTGCATTCCTGAACATCGTTTATAGAGACTTAAAACAGAGAATATTTTGTAGA
TTCACAGGGACACATTGCTTACTGACTTCGGACTCTGCAAGGAGAACATTGAACACAACAGCACACA
TCCACCTTCTGTGGCAGCCGGAGTATCTCGCACCTGAGGTGCTTCATAAGCAGCCTTATGACAGGACTG
TGGACTGGTGGTGCCTGGGAGCTGTCTGTATGAGATGCTGTATGGCCTGCCGCTTTTTATAGCCGAAA
CACAGCTGAAATGTACGACAACATTCTGAACAAGCCTCTCCAGCTGAAACCAAATATTACAAATCCGCA
AGACACCTCCTGGAGGGCCTCCTGCAGAAGGACAGGACAAGCGGCTCGGGGCAAGGATGACTTCATGG
AGATTAAGAGTCATGTCTTCTTCTCCTTAATTAAGTGGGATGATCTCATTAAAGAAGATTACTCCCC
TTTTAACCCAAATGTGAGTGGGCCAACGACCTACGGCACTTTGACCCCGAGTTTACCGAAGAGCCTGTC
CCCAACTCATTGGCAAGTCCCCTGACAGCGTCTCGTCACAGCCAGCGTCAAGGAAGCTGCCGAGGCTT
TCCTAGGCTTTTCTATGCGCTCCACGGACTTTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC237901 representing NM_001291995
Red=Cloning site Green=Tags(s)

MTVKTEAAKGTLYSRMRGMVAIIAFMKQRRMGLNDFIQKIANNYACKHPEVQSILKISQPQPELMN
 ANPSPPPSPSQINLGPSSNPHAKPSDFHFLKVIKGSFGKVLARHKAEEVFYAVKVLQKKAIIKKKEL
 FYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILDSQGHIVLTDGFLCKENIEHNSTT
 STFCTGPEYLAPEVLHKQPYDRTVDWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSA
 RHLLLEGLLQKDRTKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPVSGPNDLRHFDPEFTEEPV
 PNSIGKSPDSVLVTASVKEAAEAFLGFSYAPPTDSFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

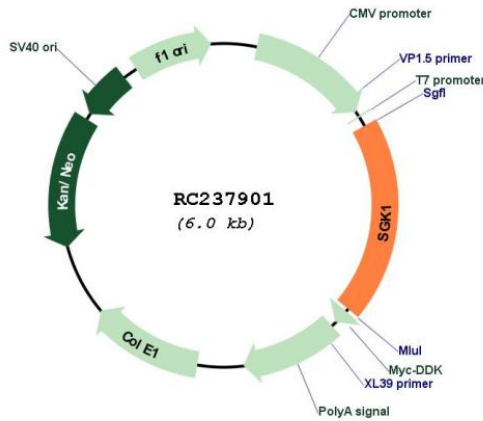
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291995

ORF Size:	1161 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:	<ol style="list-style-type: none">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_001291995.2
RefSeq Size:	2282 bp
RefSeq ORF:	1164 bp
Locus ID:	6446
UniProt ID:	O00141
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	44.3 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]