

Product datasheet for **MC217438**

Sgk1 (NM_001161845) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk1 (NM_001161845) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgk1
Synonyms:	Sg; Sgk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217438 representing NM_001161845
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAAACAAAGACATGAATGGATTCCCGGTCAAGAAATGCTCAGCGTTCCAATTTTTTAAAGAACGGG
 TACGAAGATGGATCAAGAGCCCATGGTCAGCGTGGACAAGCATCAGAGCCCAACTTGAAGTACACTGG
 CCCTGCTGGGGTGCATCTTCCCCCTGGGGAGTCAGACTTTGAGGCCATGTGTCAATCATGCCTGGGTGAC
 CATGCTTTCCAAAGGGGATGCTCCCTCCAGAGGAGTCTGTTCTCTGGGAGATCCAACCTGGGTGTGAAG
 TGAAAGAACAATGAATCATGCCAACATCTGACCAAGCCGACCCAAGAACCTTCTGGACTAATGATGA
 TGCAGCTTTTATGAAACAGAGAAGGATGGGCTGAACGATTTTATTCAGAAGATTGCCAGCAACACCTAT
 GCATGCAACACGCTGAAGTTCAGTCCATTTTAAAAATGTCCATCTCAGGAGCCGGAGCTTATGAACG
 CTAACCCCTCTCCTCGCAAGTCCCTCTCAACAAATCAACCTGGGTCCGTCTCCAACCCCTCACGCCAA
 ACCCTCCGACTTTCACCTCTTGAAGTGTACGAAAGGGCAGTTTGGAAAGTTCTTCTGGCTAGGCAC
 AAGGCAGAAGAAGTATTCTATGCAGTCAAAGTTTTACAGAAGAAAGCCATCTGAAGAAGAAAGAGGAGA
 AGCATATTATGTCAGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCCCTTCTGGTGGCCCTCACTT
 CTCATTCCAGACCGCTGACAAGCTCTACTTTGTCTGGACTACATTAATGGTGGAGAGCTGTTCTACCAT
 CTCCAGAGGGAGCGCTGCTTCTGGAACCACGGGCTCGATTCTACGCAGCTGAAATAGCCAGTGCCTGG
 GCTATCTGCACCTCCATAACATCGTTTATAGAGACTTAAACCTGAGAATATTCTCTAGACTCCCAGGG
 GCACATCGTCCCTACTGACTTTGGGCTCTGCAAGAGAATATTGAGCATAACGGGACAACATCTACCTTC
 TGTGGCACGCCTGAGTATCTGGCTCCTGAGTCTCCATAAGCAGCCGTATGACCCGACGGTGGACTGGT
 GGTGCTTTGGGGCTGCTGTATGAGATGCTCTACGGCCTGCCCGTTTTATAGCCGGAACACGGCTGA
 GATGTACGACAATATTCTGAACAAGCCTCTCCAGTTGAAACCAAATATTACAAACTCGGCAAGGCACCTC
 CTGGAAGGCCCTCTGCAGAAGGACCGGACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAGA
 GTCATATTTTCTCTCTTAATTAAGTGGGATGATCTCATCAATAAGAAGATTACACCCCATTTAACC
 AAATGTGAGTGGGCCAGTGACCTTCGGCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCAGCTCC
 ATCGGCAGGTCCCCTGACAGCATCTTGTACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCTCGGCT
 TCTCTATGCACCTCTGTGGATTCTTCTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001161845
Insert Size: 1575 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:	<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:	<u>NM_001161845.2, NP_001155317.2</u>
RefSeq Size:	3121 bp
RefSeq ORF:	1575 bp
Locus ID:	20393
UniProt ID:	<u>Q9WVC6</u>
Cytogenetics:	10 A3
Gene Summary:	<p>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. This enzyme is activated by protein phosphorylation and degraded via the ubiquitination and proteasome pathway. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 12. [provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>