

Product datasheet for **MC209388**

Sgk1 (NM_001161847) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgk1 (NM_001161847) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sgk1
Synonyms: Sg; Sgk
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209388 representing NM_001161847
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAACAGAGAAGGATGGGCCTGAACGATTTTATTCAGAAGATTGCCAGCAACACCTATGCATGCAAAC
 ACGCTGAAGTTTCAGTCCATTTTGAAAATGTCCCATCCTCAGGAGCCGGAGCTTATGAACGCTAACCCCTC
 TCCTCCGCCAAGTCCCTCTCAACAAATCAACCTGGGTCCGTCTCCAACCCTCACGCCAAACCCTCCGAC
 TTTCACCTCTTCAAAGTGATCGGAAAGGGCAGTTTTGAAAGGTTCTTCTGGCTAGGCACAAGGCAGAAG
 AAGTATTCATGCAGTCAAAGTTTTACAGAAGAAAGCCATCCTGAAGAAGAAAGAGGAGAAGCATATTAT
 GTCAGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCCCTTTCCTGGTGGGCCTTCACTTCTCATTCCAG
 ACCGCTGACAAGCTCTACTTTGCTGGACTACATTAATGGTGGAGAGCTGTTCTACCATCTCCAGAGGG
 AGCGCTGCTTCTGGAACCACGGGCTCGATTCTACGCAGCTGAAATAGCCAGTGCCTGGGCTATCTGCA
 CTCCTAAACATCGTTTATAGAGACTTAAAACCTGAGAATATTCCTAGACTCCCAGGGGCACATCGTC
 CTCACTGACTTTGGGCTCTGCAAAGAGAATATTGAGCATAACGGGACAACATCTACCTTCTGTGGCACGC
 CTGAGTATCTGGCTCCTGAGGTCTCCATAAGCAGCCGTATGACCGGACGGTGGATGGTGGTGTCTTGG
 GGCTGTCCTGTATGAGATGCTCTACGGCCTGCCCCGTTTTATAGCCGGAACACGGCTGAGATGTACGAC
 AATATTCTGAACAAGCCTCTCCAGTTGAAACCAATATTACAAACTCGGCAAGGCACCTCTGAAAGGCC
 TCCTGCAGAAGGACCGACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAGAGTCATATTTT
 CTTCTCTTTAATTAAGTGGGATGATCTCATCAATAAGAAGATTACACCCCATTTAACCCAAATGTGAGT
 GGGCCAGTGACCTTCGGCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCAGCTCCATCGGCAGGT
 CCCCTGACAGCATCCTTGTACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCTCGGCTTCTCCTATGC
 ACCTCCTGTGGATTCCTCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001161847
Insert Size:	1215 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001161847.2</u> , <u>NP_001155319.1</u>
RefSeq Size:	2622 bp
RefSeq ORF:	1215 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 (2) differs in the 5' UTR and 5' coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Both variants 2 and 3 encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>