

Product datasheet for **MC209390**

Sgk1 (NM_001161849) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgk1 (NM_001161849) 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: >MC209390 representing NM_001161849
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAAGAGGAGACCTTAAGATCCCCTTGAAAGCTTTTATGAAACAGAGAAGGATGGGCCTGAACGATT
TTATTCAGAAGATTGCCAGCAACACCTATGCATGCAAACAGCTGAAGTTCAGTCCATTTTGAAATGTC
CCATCCTCAGGAGCCGGAGCTTATGAACGCTAACCCTCTCCTCCGCAAGTCCCTCTCAACAAATCAAC
CTGGGTCCGTCCTCAACCCTCAGGCCAAACCCTCCGACTTTCACCTTCTTGAAAGTGATCGGAAAGGGCA
GTTTTGAAAGGTTCTTCTGGCTAGGCACAAGGCAGAAGAAGTATTCTATGCAGTCAAAGTTTTACAGAA
GAAAGCCATCCTGAAGAAGAAAGAGGAGAAGCATATTATGTCAGAGCGGAATGTTCTGTTGAAGAATGTG
AAGCACCTTTCTGGTGGGCTTCACTTCTCATTCCAGACCGCTGACAAGCTCTACTTTGTCTGGACT
ACATTAATGGTGGAGAGCTGTTCTACCATCTCCAGAGGGAGCGTGTTCCTGGAACCACGGGCTCGATT
CTACGCAGCTGAAATAGCCAGTGCCTGGGCTATCTGCACTCCCTAAACATCGTTTATAGAGACTTAAAA
CCTGAGAATATTCTCCTAGACTCCCAGGGGCACATCGTCCTCACTGACTTTGGGCTCTGCAAAGAGAATA
TTGAGCATAACGGGACAACATCTACCTTCTGTGGCAGCCTGAGTATCTGGCTCTGAGGCTCCTCCATAA
GCAGCCGTATGACCGGACGGTGGACTGGTGGTGTCTTGGGCTGTCTGTATGAGATGCTCTACGGCCTG
CCCCGTTTTATAGCCGGAACACGGCTGAGATGTACGACAATATTCTGAACAAGCCTCTCCAGTTGAAAC
CAAATATTACAACTCGCAAGGCACCTCCTGGAAGGCCTCCTGCAGAAGGACCGGACCAAGAGGCTGGG
TGCCAAGGATGACTTTATGGAGATTAAGAGTCATATTTTCTTCTTTAATTAAGTGGGATGATCTCATC
AATAAGAAGATTACACCCCATTTAACCCTAATGTGAGTGGGCCAGTGACCTTCGGCATTTCGATCCC
AGTTTACCAGGAGCCGGTCCCCAGCTCCATCGGCAGTCCCCTGACAGCATCCTGTACGGCCAGTGT
GAAGGAAGCAGCAGAAGCCTTCTCGGCTTCTCCTATGCACCTCCTGTGGATTCTTCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001161849
Insert Size:	1254 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_001161849.2</u> , <u>NP_001155321.1</u>
RefSeq Size:	2496 bp
RefSeq ORF:	1254 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 (4) differs in the 5' UTR and 5' coding sequence compared to variant 1. The resulting isoform (c) has a shorter and distinct N-terminus compared to isoform a.</p>