

## Product datasheet for **MR206878**

### **Sgk1 (NM\_011361) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sgk1 (NM_011361) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sgk1
Synonyms:	Sg; Sgk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR206878 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCGTCAAAGCCGAGGCTGCTCGAAGCACCTTACCTACTCCAGAATGAGGGGAATGGTAGCGATTC  
 TCATCGCTTTTATGAAACAGAGAAGGATGGCCTGAACGATTTTATTCAGAAGATTGCCAGCAACACCTA  
 TGCATGCAAACACGCTGAAGTTCAGTCCATTTTAAAAATGCCATCCTCAGGAGCCGGAGCTTATGAAC  
 GCTAACCCCTCTCCTCCGCCAAGTCCCTCTCAACAAATCAACCTGGGTCCGTCCTCAACCCCTCACGCCA  
 AACCCCTCCGACTTTCACTTCTTGAAGTATCGGAAAGGCGAGTTTGGAAAGGTTCTTCTGGCTAGGCA  
 CAAGGCAGAAGAAGTATTCTATGCAGTCAAAGTTTTACAGAAGAAAGCCATCCTGAAGAAGAAAGAGGAG  
 AAGCATATTATGCAGAGCGAATGTTCTGTTGAAGAATGTGAAGCACCTTTCTGGTGGGCTTCACT  
 TCTCATTCCAGACCGCTGACAAGCTCTACTTTGCTGGACTACATTAATGGTGGAGAGCTGTTCTACCA  
 TCTCCAGAGGGAGCGCTGCTTCTGGAACCACGGGCTCGTTCTACGCAGCTGAAATAGCCAGTGCCTG  
 GGTATCTGCACTCCCTAAACATCGTTTATAGAGACTTAAACCTGAGAAATTTCTCTAGACTCCCAGG  
 GGCACATCGTCTCACTGACTTTGGGCTCTGCAAAGAGAATATTGAGCATAACGGGACAACATCTACCTT  
 CTGTGGCACGCTGAGTATCTGGCTCCTGAGGCTCCATAAACAGCCGATGACCGGACGGTGGACTGG  
 TGGTGTCTGGGGCTGTCTGTATGAGATGCTCTACGGCTGCCCCGTTTTATAGCCGGAACACGGCTG  
 AGATGTACGACAATTTCTGAACAAGCCTCTCCAGTTGAAACCAATATTACAACTCGGCAAGGCACCT  
 CCTGGAAGGCTCCTGCAGAAGGACCGACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAG  
 AGTCATATTTCTCTTTAATTAAGTGGATGATCTCATCAATAAGAAGATTACCCCCATTTAACC  
 CAAATGTGAGTGGGCCAGTGACCTTCGGCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCCAGCTC  
 CATCGGCAGGTCCCTGACAGCATCTTGTACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCTCGGC  
 TTCTCCTATGCACCTCCTGTGGATTCTTCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206878 protein sequence  
 Red=Cloning site Green=Tags(s)

MTVKAEAAARSTLTYSRMRGMVAIIIAFMKQRRMGLNDFIQKIASNTYACKHAEVQSILKMSHPQEPPELMN  
 ANPSPPPSPSQIINLGPSSNPHAKPSDFHFLKVIKGSFGKVLARHKAEEVFYAVKVLQKKAAILKKKEE  
 KHIMSERNVLLKNVHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASAL  
 GYLHSLNIVYRDLKPENILLDSQGHIVLTDGLCKENIEHNGTSTFCGTPEYLAPEVLHKQPYDRTVDW  
 WCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLEGLLQKDRTKRLGAKDDFMEIK  
 SHIFFSLINWDDLINKKITPPFNPNVSGPSDLRHFDFEFTEEPVPSISGRSPDSILVTASVKEAAEAFGLG  
 FSYAPPVDSFL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011361

**ORF Size:** 1296 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\\_011361.1](#), [NM\\_011361.2](#), [NM\\_011361.3](#), [NP\\_035491.1](#)
**RefSeq Size:** 2471 bp

**RefSeq ORF:** 1296 bp

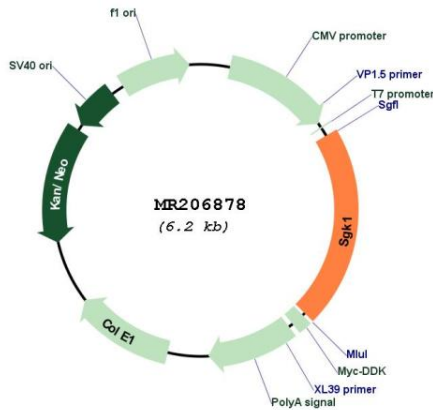
**Locus ID:** 20393

**UniProt ID:** [Q9WVC6](#)
**Cytogenetics:** 10 A3

**MW:** 48.9 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. 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]

**Product images:**



Circular map for MR206878