

## Product datasheet for **MG206878**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk1 (NM_011361) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sgk1
Synonyms:	Sg; Sgk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206878 representing NM_011361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCGTCAAAGCCGAGGCTGCTCGAAGCACCCCTACCTACTCCAGAATGAGGGGAATGGTAGCGATTC  
TCATCGCTTTTATGAAACAGAGAAGGATGGGCCTGAACGATTTTATTGAAAGATTGCCAGCAACACCTA  
TGCATGCAAACACGCTGAAGTTCAGTCCATTTTAAAAATGTCCCATCCTCAGGAGCCGGAGCTTATGAAC  
GCTAACCCCTCTCTCCGCAAGTCCCTCTCAACAAATCAACCTGGTCCGTCTCAACCCCTCACGCCA  
AACCCCTCCGACTTTCACTTCTTAAAGTATCGGAAAGGGCAGTTTTGGAAAGGTTCTTCTGGCTAGGCA  
CAAGGCAGAAGAAGTATTCTATGCAAGTCAAAGTTTTACAGAAGAAAGCCATCCTGAAGAAGAAAGAGGAG  
AAGCATATTATGTCAGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCCCTTCTGGTGGGCCTTCACT  
TCTCATTCCAGACCGCTGACAAGCTCTACTTTGTCTGGACTACATTAATGGTGGAGAGCTGTTCTACCA  
TCTCCAGAGGGAGCGCTGCTTCTGGAACCACGGGCTCGCTTCTACGCAGCTGAAATAGCCAGTGCCTG  
GGCTATCTGCACTCCCTAAACATCGTTTATAGAGACTTAAACCTGAGAATATTCTCTAGACTCCCAGG  
GGCACATCGTCTCACTGACTTTGGGCTCTGCAAAGAGAATATTGAGCATAACGGGACAACATCTACCTT  
CTGTGGCAGCCCTGAGTATCTGGCTCCTGAGGTCTCCATAAACAGCCGATGACCGGACCGTGGACTGG  
TGGTGTCTTGGGCTGTCTGTATGAGATGCTCTACGGCCTGCCCCGTTTTATAGCCGGAACACGGCTG  
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CCTGGAAGGCCTCCTGCAGAAGGACCGGACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAG  
AGTCATATTTCTCTTTAATTAAGTGGATGATCTCATCAATAAGAAGATTACACCCCATTTAACC  
CAAATGTGAGTGGGCCAGTGACCTTCGGCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCCAGCTC  
CATCGGCAGTCCCCTGACAGCATCCTTGTACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCTCGGC  
TTCTCTATGCACCTCCTGTGGATTCCTCTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206878 representing NM\_011361  
 Red=Cloning site Green=Tags(s)

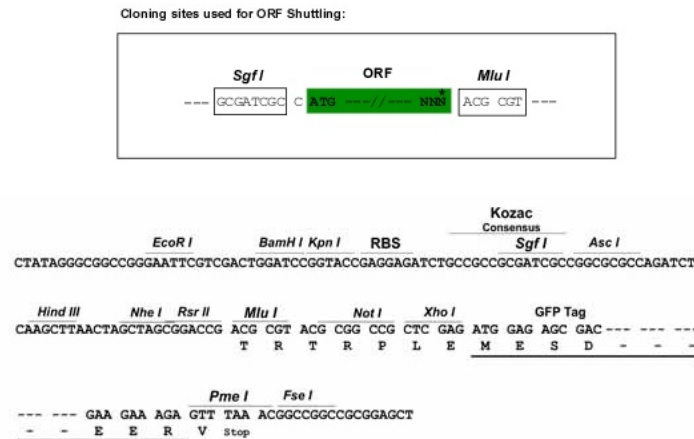
MTVKAEAAARSTLTYSRMRGMVAIIIAFMKQRRMGLNDFIQKIASNTYACKHAEVQSILKMSHPQPELMN  
 ANPSPPPSPSQINLGPSSNPFAKPSDFHFLKVIKGSFGKVLARHKAEEVFYAVKVLQKAILKKKEE  
 KHMISERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASAL  
 GYLHSLNIVYRDLKPENILLDSQGHIVL TDFGLCKENIEHNGTTSTFCGTPEYLAPEVLHKQPYDRTVDW  
 WCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLLEGLLQKDRTKRLGAKDDFMEIK  
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 FSYAPPVDSFL

TRTRPLE - GFP Tag - V

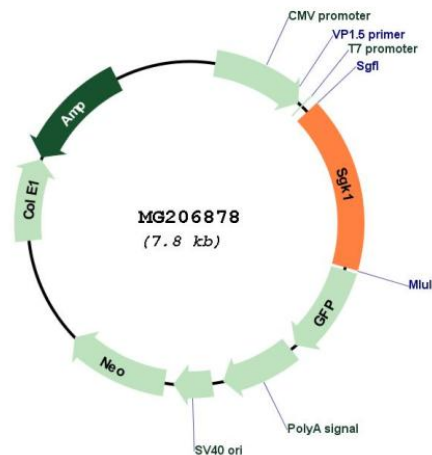
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_011361

<b>ORF Size:</b>	1293 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011361.1</a> , <a href="#">NP_035491.1</a>
<b>RefSeq Size:</b>	2429 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	20393
<b>UniProt ID:</b>	<a href="#">Q9WVC6</a>
<b>Cytogenetics:</b>	10 A3
<b>Gene Summary:</b>	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]