

## Product datasheet for **RR205750**

### **Sgk2 (NM\_134463) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sgk2 (NM\_134463) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Sgk2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR205750 representing NM\_134463  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCCAGCCCAGTTGGAGTTCCTAGCCCCAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC  
CATCAGCCAACCCAAATGCCCGACCCACAGACTTTGATTTCTCAAAGTCATTGGCAAAGGGAAGTGG  
GAAGTCCACTACTGGCCAAGCGCAAGTCAGACGGAGCCTTCTATGCCGTGAAGGTGCTGCAGAAGAAGTCC  
ATCTTAAAAAACAAAGAGCAGAGCCACATCATGGCAGAACGCAACGTGCTACTGAAGAACGTGCCGCACC  
CCTTCTTGTGGGCTGCGCTACTCCTCCAGACCCAGAGAAGCTCTACTTTGTGCTTGACTATGTCAA  
CGGGGAGAGCTTTTCTCCATCTCCAGCGGGAACACAGGTTCTGGAGCCCCGGGCCGGTTCTACACG  
GCAGAGGTGGCAAGCGCCATCGTTATCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAA  
ACATTCTTTGGACTGCCAGGTCACGTGGTACTGACAGATTTCCGCCTTTGCAAGGAATGTGTAGAGCC  
CGAGGAGACCACATCCACCTTCTGCGGCACCCCTGAGTACTTGGCTCCAGAAGTCCCTCGTAAAGAGCCT  
TACGATCGAGCAGTCGACTGGTGGTCTTAGGGGCCGTTCTCTACGAGATGCTGCACGGCCTGCCCCCT  
TCTTCAACACAGATGTGGCCAGATGTATGAGAACATTTGCATCAGCCGCTACAGATCCCTGGAGGCCG  
GACAGTGGCTGCCTGTGACCTCCTGCAGGTCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAG  
GAAGACTTTCTCGACATAAAGAACCACATGTTCTTCAAGTCCCATAAATTGGGATGATCTGTACCACAAGA  
GGCTGACTCCACCCTTCAACCCAAACGTGGAGGGACCCGCTGACTTGAACACTTTGACCCAGAGTTCAC  
CCAGGAGGCTGTGTCCAAGTCCATTGGCTGCACCCCTGACACCATGTCCAGCAGTTCTGGGGCTCAAGT  
GCATTCCTCGGATTCTCTATGCACAGGATGATGATGACATCTTGGACTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR205750 representing NM\_134463  
Red=Cloning site Green=Tags(s)

MASSPVGVSPQPSRANGNINLGPSANPNARPTDFDLKVIKGNYGKVLAKRKS DGAFYAVKVLQKKS  
 ILKNKEQSHIMAERNVLLKNVRHPFLVGLRYSFQTPEKLYFVLDYVNGGELFFHLQREHRFLEPRARFYT  
 AEVASAIGYLHSLNIIYRDLKPENILLDCQGHVVL TDFGLCKECPVEPETTSTFCGTPEYLAPEVLRKEP  
 YDRAVDWWCLGAVLYEMLHGLPPFFNTDVAQMYENILHQPLQIPGGRTVAACDLLQGLLHKDQRQLGSK  
 EDFLDIKNHMFFSPINWDDL YHKRLTPPFNPNVEGPADLKHFDPEFTQEAVSKSIGCTPDTMSSSSGASS  
 AFLGFSYAQDDDDILD S

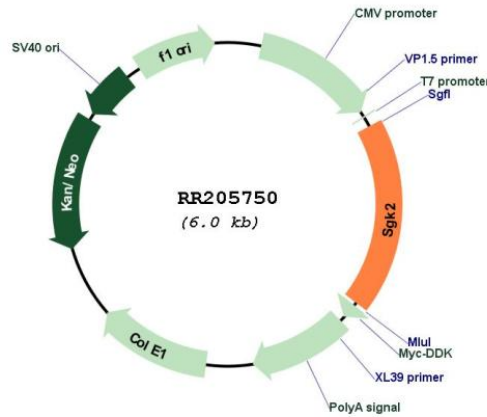
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_134463

<b>ORF Size:</b>	1101 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_134463.1</a> , <a href="#">NP_604458.1</a>
<b>RefSeq Size:</b>	2708 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	171497
<b>UniProt ID:</b>	<a href="#">Q8R4U9</a>
<b>Cytogenetics:</b>	3q42
<b>MW:</b>	41.4 kDa
<b>Gene Summary:</b>	human homolog induces activation of the epithelial sodium channel ENaC [RGD, Feb 2006]