

Product datasheet for **RR216618**

Sgk1 (NM_001193569) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Sgk1 (NM_001193569) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Sgk1
 Synonyms: Sgk
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR216618 representing NM_001193569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGGAGGCCCTTAAGATCCCCTTGAAAGCTTTCATGAAACAGAGAAGGATGGGCCTGAACGATT
 TTATTCAGAAGCTTGCCAACAACCTCTATGCATGCAAACACCCTGAAGTTCAATCCTATTTGAAAATCTC
 CCAACCTCAGGAGCCCGAACTTATGAACGCCAACCCCTCACTCCTCAAGTCCCTCTCAACAAATCAAC
 CTGGGTCCATCCTCAAATCCCCACGCCAACCCCTCTGACTTCCACTTCTTGAAAGTGATCGGAAAAGGCA
 GTTTTGAAAGGTTCTTCTAGCAAGGCACAAGGCAGAAGAAGCATTCTATGCCGTCAAAGTTTTGCAGAA
 GAAAGCCATCTTGAAGAAGAAGGAGGAGAAGCATATTATGTCAGAGCGCAATGTTCTGTTGAAGAATGTG
 AAGCACCTTTCTGGTGGGCCTTCACTTCTCTTCCAGACTGCTGACAACTCTACTTCGTCCTAGACT
 ACATTAATGGCGGAGAGCTGTTCTACCATCTCCAGAGGGAGCGTGCTTCTGGAACCCCGTGCTCGCTT
 CTACGCAGCTGAAATAGCCAGTGCCTTGGGTTATCTGCACTCCCTAAACATCGTTTATCGAGACTTAAAA
 CCAGAGAATATTCTCTAGACTCACAGGGACACATCGTCCTCACTGACTTTGGGCTCTGCAAGGAGAACA
 TCGAGCAATGGGACAACGTTCCACCTTCTGTGGCAGCCTGAGTATCTCGCTCCTGAGGTTCTCCATAA
 GCAGCCGTACGACCGGACAGTGGACTGGTGGTGCCTCGGGGCTGTCTTGTATGAGATGCTCTATGGCCTG
 CCTCCGTTCTACAGCCGGAACACAGCCGAGATGTATGACAATATTCTGAACAAGCCTCTCCAGCTGAAAC
 CAAATATCACCAACTCAGCAAGGCACCTGCTGGAGGGCCTCTGCAGAAGGACCGGACCAAGAGGCTGGG
 TGCCAAGGATGACTTTATGGAGATTAAGAGTCATATTTTCTTCTTTGATTAAGTGGGATGATCTCATT
 AATAAGAAGATCACGCCCCATTTAAACCAATGTGAGCGGGCCAGTGACCTTCGGCAGCTTTGATCCCG
 AGTTTACTGAGGACCGGTCCCCAGCTCCATCGGGCGATCCCCTGACAGCATCCTGTACAGCCAGTGT
 GAAAGAAGCCGCGAAGCCTTCTTGGCTTCTCCTATGCCCTCCTATGGACTCCTTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216618 representing NM_001193569
Red=Cloning site Green=Tags(s)

MREEALRSPWKAFMKQRRMGLNDFIQKLANNSYACKHPEVQSYLKISQPQEPELMNPSPPPSPSQQIN
 LGPSSNPFAKPSDFHFLKVIKGSFSGKVLARHKAEEAFYAVKVLQKKAILKKKEEKHIMSERNVLLKNV
 KHPFLVGLHFSFQTADKLYFLVDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLK
 PENILLDSQGHIVLTDGFLCKENIEHNGTSTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGL
 PPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLLEGLLQKDRTRKRLGAKDDFMEIKSHIFFSLINWDDLI
 NKKITPPFNPVSGPSDLRHFDPEFTEEPVSSIGRSPDSILVTASVKEAAEAFGLFSYAPPMSDFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

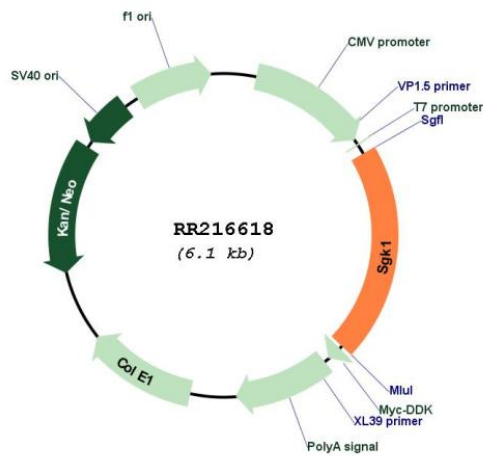
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001193569

ORF Size:	1251 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:	<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:	NM_001193569.1 , NP_001180498.1
RefSeq Size:	2493 bp
RefSeq ORF:	1254 bp
Locus ID:	29517
Cytogenetics:	1p12
MW:	47.6 kDa
Gene Summary:	may play a role in memory consolidation and spatial learning; may mediate aldosterone-induced signaling [RGD, Feb 2006]