

Product datasheet for **RR216691**

Sgk1 (NM_001193568) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk1 (NM_001193568) 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



[View online »](#)

ORF Nucleotide Sequence:

>RR216691 representing NM_001193568
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGAGATGCAGGGCGCGCTGGCTCGGGCTCGGCTCGAGTCCCTGCTCCGGCCCCGCCACAAAAGC
 GAGTGGAGGCGCAGAAAAGGAGCGAGTCCGTCCTGCTAAGCGGACTGGCTTTCATGAAACAGAGAAGGAT
 GGGCCTGAACGATTTTATTTCAGAAGCTTCCCAACAACCTCCTATGCATGCAAAACACCTGAAGTTCATCC
 TATTTGAAAATCTCCCAACCTCAGGAGCCCGAACTTATGAACGCCAACCCCTCACCTCCTCCAAGTCCCT
 CTCAACAAATCAACCTGGGTCCATCCTCAAATCCCACGCCAACCCCTGACTTCCACTTCTTGAAAGT
 GATCGGAAAAGGCAGTTTTGGAAAGGTTCTTAGCAAGGCACAAGGCAGAAGAAGCATTCTATGCCGTC
 AAAGTTTTGCAGAAGAAAGCCATCTTGAAGAAGAAGGAGGAGAAGCATATTATGTCAGAGCGCAATGTTCC
 TGTTGAAGAATGTGAAGCACCTTCTGGTGGCCTTCACTTCTTTCCAGACTGCTGACAAAACCTCTA
 CTTTCGCTCCTAGACTACATTAATGGCGGAGAGCTGTTCTACCATCTCCAGAGGGAGCGCTGCTTCCGGAA
 CCCCGTGCCTCGCTTCTACGCAGCTGAAATAGCCAGTGCCTTGGGTATCTGCACTCCCTAAACATCGTTT
 ATCGAGACTTAAAACAGAGAATATTCTCTAGACTCACAGGGACACATCGTCTCACTGACTTTGGGCT
 CTGCAAGGAGAACATCGAGCACAATGGGACAACGTCCACCTTCTGTGGCAGCGCTGAGTATCTCGCTCCT
 GAGGTTCTCCATAAGCAGCCGTACGACCGGACAGTGGACTGGTGGTGCCTCGGGGCTGTCTTGATGAGA
 TGCTCTATGGCCTGCCTCCGTTCTACAGCCGGAACACAGCCGAGATGTATGACAATATTGAAACAGCC
 TCTCCAGCTGAAACCAATATCACCAACTCAGCAAGGCACCTGCTGGAGGGCCTCCTGCAGAAGGACCGG
 ACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAGAGTCATATTTCTCTTTGATTAAC
 GGGATGATCTCATTAAATAAGAAGATCACGCCCCATTTAACCCAAATGTGAGCGGGCCAGTGACCTTCG
 GCACTTTGATCCCGAGTTTACTGAGGAGCCGGTCCCAGCTCCATCGGGCGATCCCTGACAGCATCCTT
 GTCACAGCCAGTGTGAAAGAAGCCGCGAAGCCTTCTTGCTTCTCTATGCCCTCCTATGGACTCCT
 TCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216691 representing NM_001193568
 Red=Cloning site Green=Tags(s)

MGEMQGALARARLESLLRPRHKKRVEAQKRSESVLLSGLAFMKQRRMGLNDFIQKLANNSYACKHPEVQS
 YLKISQPQPELMNANPSPSPSQQINLGPSSNPHAKPSDFHFLKVIKGSFGKVLARHKAEEAFYAV
 KVLQKKAILKKKEEKHIMSERVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFL
 PRARFYAAEIASALGYLHSLNIVYRDLKPENILDSQGHIVLTDGFLCKENIEHNGTTSTFCGTPEYLAP
 EVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLLEGLLQKDR
 TKRLGAKDDFMEIKSHIFFSLINWDDLINKKITPPFNPVSGPSDLRHFDPFTEEPVSSIGRSPDSIL
 VTASVKEAAEAFLGFSYAPPMSDFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

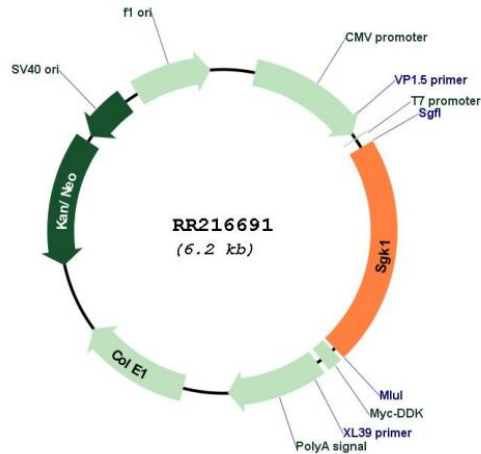
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001193568

ORF Size: 1335 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_001193568.1](#), [NP_001180497.1](#)

RefSeq Size: 2555 bp

RefSeq ORF: 1338 bp

Locus ID: 29517

Cytogenetics: 1p12

MW: 50.6 kDa

Gene Summary: may play a role in memory consolidation and spatial learning; may mediate aldosterone-induced signaling [RGD, Feb 2006]