

Product datasheet for RC204101

SGK2 (NM_170693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK2 (NM_170693) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGK2
Synonyms:	dj138B7.2; H-SGK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204101 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCTAGCCAGCTGGGACCCCAAGTCCACAGCCCTCCAGGGCCAATGGGAACATCAACCTGGGGC
CTTCAGCCAAACCAAATGCCAGCCACGGACTTCGACTTCCTCAAAGTCATCGGCAAAGGGAACTACGG
GAAGGTCTACTGGCCAAGCGCAAGTCTGATGGGGCGTCTATGCAGTGAAGGTACTACAGAAAAAGTCC
ATCTTAAAGAAGAAAGAGCAGAGCCACATCATGGCAGAGCGCAGTGTGCTTCTGAAGAACGTGCGGCACC
CCTTCTCGTGGCCTGCGCTACTCCTCCAGACACCTGAGAAGCTCTACTTCGTGCTCGACTATGTCAA
CGGGGGAGAGCTTCTTCCACCTGCAGCGGGAGCGCGGTTCTGGAGCCCCGGGCCAGGTTCTACGCT
GCTGAGGTGGCCAGCGCCATTGGCTACCTGCACTCCCTCAACATCATTTACAGGGATCTGAAACCAGAGA
ACATTCTTTGGACTGCCAGGGACACGTGGTGTGACGGATTTTGGCCTCTGCAAGGAAGGTGTAGAGCC
TGAAGACACCACATCCACATTCTGTGGTACCCCTGAGTACTTGGCACCTGAAGTGCTTCGGAAAGAGCCT
TATGATCGAGCAGTGGACTGGTGGTGTGGGGCAGTCTCTACGAGATGCTCCATGGCCTGCCGCCCT
TCTACAGCCAAGATGTATCCAGATGTATGAGAACATTCTGCACCAGCCGCTACAGATCCCCGGAGGCCG
GACAGTGGCCGCTGTGACCTCCTGCAAAGCCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAA
GCAGATTTCTTGAGATTAAGAACCATGTATTCTCAGCCCCATAAACTGGGATGACCTGTACCACAAGA
GGCTAACTCCACCCTCAACCCAAATGTGACAGGACCTGCTGACTTGAAGCATTGACCCAGAGTTTAC
CCAGGAAGCTGTGTCCAAGTCCATTGGCTGTACCCTGACACTGTGGCCAGCAGCTCTGGGGCTCAAGT
GCATTCCTGGGATTTTCTATGCGCCAGAGGATGATGACATCTTGGATTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC204101 protein sequence
Red=Cloning site Green=Tags(s)

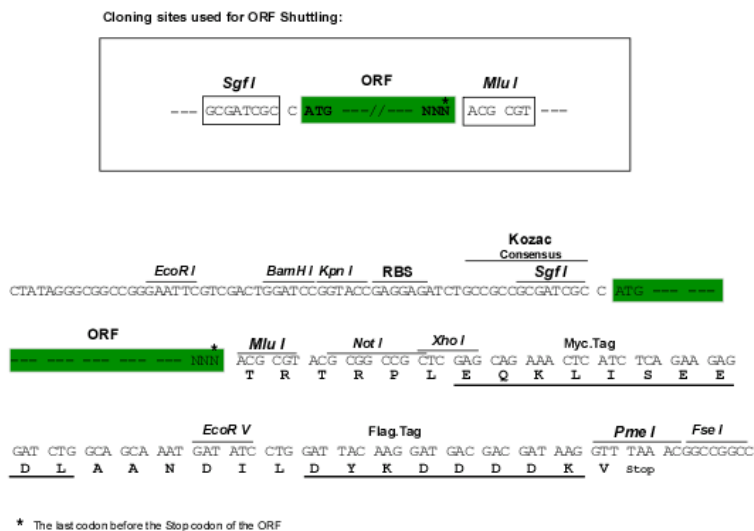
MNSSPAGTPSPQPSRANGNINLGPSANPNAQPTDFDLKVIKGNYGKVLAKKRSDGAFYAVKVLQKKS
 ILKKKEQSHIMAERSVLLKNVRHPFLVGLRYSFQTPEKLYFVLDYVNGGELFFHLQRERRFLEPRARFYA
 AEVASAIGYLHSLNIIYRDLKPENILLDCQGHVVL TDFGLCKEGVEPEDTTSTFCGTPEYLAPEVLRKEP
 YDRAVDWWCLGAVLYEMLHGLPPFYSDVVSQMYENILHQPLQIPGGRTVAACDLLQSLHDKDQRQLGSK
 ADLFLEIKNHVFFSPINWDDL YHKRLTPPFNPNVTGPADLKHFDPFTQEA VSKSIGCTPDTVASSSGASS
 AFLGFSYAPEDDDILDLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk6247_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_170693

ORF Size: 1101 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_170693.3](#)

RefSeq Size: 1913 bp

RefSeq ORF: 1104 bp

Locus ID: 10110

UniProt ID: [Q9HBY8](#)

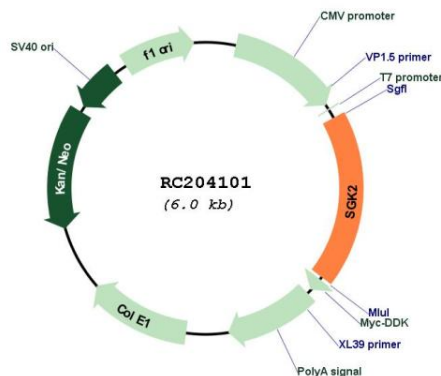
Cytogenetics: 20q13.12

Protein Families: Druggable Genome, Protein Kinase

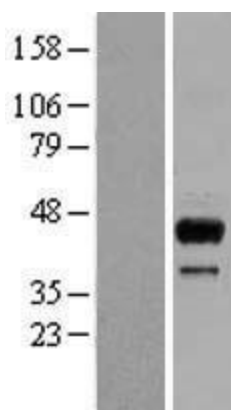
MW: 41.2 kDa

Gene Summary: This gene encodes a serine/threonine protein kinase. Although this gene product is similar to serum- and glucocorticoid-induced protein kinase (SGK), this gene is not induced by serum or glucocorticoids. This gene is induced in response to signals that activate phosphatidylinositol 3-kinase, which is also true for SGK. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010]

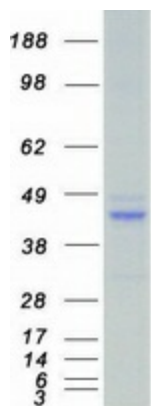
Product images:



Circular map for RC204101



Western blot validation of overexpression lysate (Cat# [LY406797]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204101 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SGK2 protein (Cat# [TP304101]). The protein was produced from HEK293T cells transfected with SGK2 cDNA clone (Cat# RC204101) using MegaTran 2.0 (Cat# [TT210002]).