

Product datasheet for **RG204101**

SGK2 (NM_170693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK2 (NM_170693) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGK2
Synonyms:	dj138B7.2; H-SGK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204101 representing NM_170693 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCTAGCCCAGCTGGGACCCCAAGTCCACAGCCCTCCAGGGCCAATGGGAACATCAACCTGGGGC
CTTCAGCCAAACCAAATGCCAGCCACGGACTTCGACTTCCTCAAAGTCATCGGCAAAGGGAACACGG
GAAGGTCCTACTGGCCAAGCGCAAGTCTGATGGGGCGTCTATGCAGTGAAGGTACTACAGAAAAAGTCC
ATCTTAAAGAAGAAAGAGCAGAGCCACATCATGGCAGAGCGCAGTGTGCTTCTGAAGAACGTGCGGCACC
CCTTCCTCGTGGCCTGCGCTACTCCTCCAGACACCTGAGAAGCTCTACTTCGTGCTCGACTATGTCAA
CGGGGGAGAGCTTCTTCCACCTGCAGCGGGAGCGCCGGTTCCTGGAGCCCCGGGCCAGTTCTACGCT
GCTGAGGTGGCCAGCGCCATTGGCTACCTGCACTCCCTCAACATCATTTACAGGGATCTGAAACCAGAGA
ACATTCTTTGGACTGCCAGGGACACGTGGTGTGACGGATTTTGGCCTCTGCAAGGAAGGTGTAGAGCC
TGAAGACACCACATCCACATTCTGTGGTACCCCTGAGTACTTGGCACCTGAAGTGCTTCGGAAAGAGCCT
TATGATCGAGCAGTGGACTGGTGGTGTGGGGCAGTCTCTACGAGATGCTCCATGGCCTGCCGCCCT
TCTACAGCCAAGATGTATCCAGATGTATGAGAACATTCTGCACCAGCCGCTACAGATCCCCGGAGGCCG
GACAGTGGCCCGCTGTGACCTCCTGCAAAGCCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAA
GCAGATTTCTTGAGATTAAGAACCATGTATTCTCAGCCCCATAAACTGGGATGACCTGTACCACAAGA
GGCTAACTCCACCCTCAACCCAAATGTGACAGGACCTGCTGACTTGAAGCATTGACCCAGAGTTTAC
CCAGGAAGCTGTGTCCAAGTCCATTGGCTGTACCCTGACACTGTGGCCAGCAGCTCTGGGGCCTCAAGT
GCATTCCTGGGATTTTCTATGCGCCAGAGGATGATGACATCTTGGATTGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204101 representing NM_170693
 Red=Cloning site Green=Tags(s)

MNSSPAGTPSPQPSRANGNINLGPSANPNAQPTDFDFLKVIGKGNYGKVLAKRKSDFYAVKVLQKKS
 ILKKKEQSHIMAERSVLLKNVRHPFLVGLRYSFQTPEKLYFVLDYVNGGELFFHLQRERRFLEPRARFYA
 AEVASAIGYLHSLNIIYRDLKPENILLDCQGHVVLDFGLCKEGVEPEDTTSTFCGTPEYLAPEVLRKEP
 YDRAVDWWCLGAVLYEMLHGLPPFYSDVVSQMYENILHQPLQIPGGRTVAACDLLQSLHDKDQRQLGSK
 ADFLEIKNHVFFSPINWDDL YHKRLTPPFNPNVTGPADLKHFDPEFTQEAVSKSIGCTPDTVASSSGASS
 AFLGFSYAPEDDDILD C

TRTRPLE - GFP Tag - V

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: 1862 bp

RefSeq ORF: 1104 bp

Locus ID: 10110

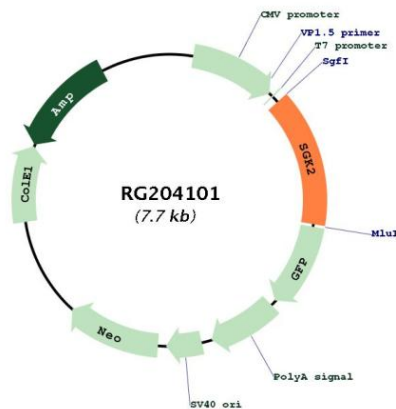
UniProt ID: [Q9HBY8](#)

Cytogenetics: 20q13.12

Protein Families: Druggable Genome, Protein Kinase

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 RG204101