*h*SGK1 VersaClone cDNA

Catalog Number: RDC2003

Specifications:

Gene:	*h*SGK1
Accession:	NP_005618
Insert size:	1309bp
Concentration:	10µg at 0.2µg/µL

*h*SGK1 cDNA Plasmid

SGK1 serum/glucocorticoid regulated kinase 1 [*Homo sapiens* (human)]

Also known as: SGK

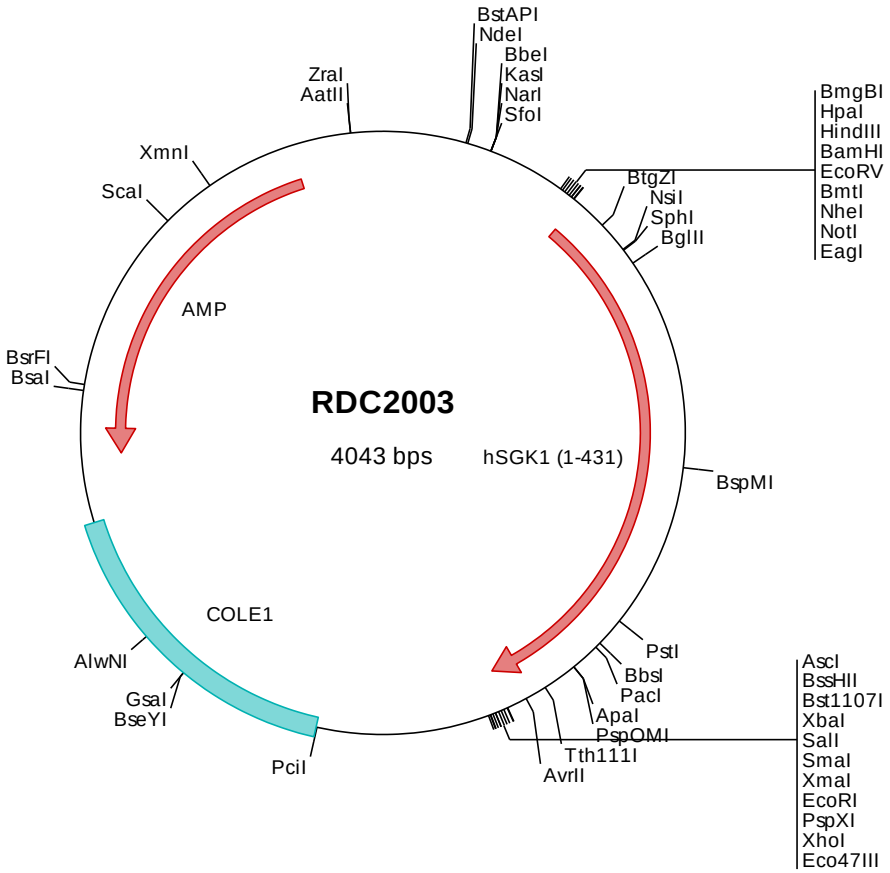
Summary:
SGK1 is a serine/threonine protein kinase that plays an important role in cellular stress response. It activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of SGK1 may contribute to conditions such as hypertension and diabetic nephropathy. Alternatively spliced transcripts encoding different proteins have been described.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC2003 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgacggtga aaactgaggc tgctaagggc accctcactt actccaggat
 501  gaggggcatg gtggcaattc tcatcgcttt catgaagcag aggaggatgg gtctgaacga ctttattcag aagattgcca ataactccta tgcatgcaaa
 601  caccctgaag ttcagtccat cttgaagatc tcccaacctc aggagcctga gcttatgaat gccaaccctt ctcctccacc aagtccttct cagcaaatca
 701  accttggccc gtcgtccaat cctcatgcta aaccatctga ctttcacttc ttgaaagtga tcggaaaggg cagttttgga aaggttcttc tagcaagaca
 801  caaggcagaa gaagtgttct atgcagtcaa agttttacag aagaaagcaa tcctgaaaaa gaaagaggag aagcatatta tgtcggagcg gaatgttctg
 901  ttgaagaatg tgaagcaccc tttcctggtg ggccttcact tctctttcca gactgctgac aaattgtact ttgtcctaga ctacattaat ggtggagagt
1001  tgttctacca tctccagagg gaacgctgct tcctggaacc acgggctcgt ttctatgctg ctgaaatagc cagtgccttg ggctacctgc attcactgaa
1101  catcgtttat agagacttaa aaccagagaa tattttgcta gattcacagg gacacattgt ccttactgac ttcggactct gcaaggagaa cattgaacac
1201  aacagcacaa catccacctt ctgtggcacg ccggagtatc tcgcacctga ggtgcttcat aagcagcctt atgacaggac tgtggactgg tggtgcctgg
1301  gagctgtctt gtatgagatg ctgtatggcc tgccgccttt ttatagccga aacacagctg aaatgtacga caacattctg aacaagcctc tccagctgaa
1401  accaaatatt acaaattccg caagacacct cctggagggc ctcctgcaga aggacaggac aaagcggctc ggggccaagg atgacttcat ggagattaag
1501  agtcatgtct tcttctcctt aattaactgg gatgatctca ttaataagaa gattactccc cctttaacc caaatgtgag tgggcccaac gacctacggc
1601  actttgaccc cgagtttacc gaagagcctg tccccaactc cattggcaag tcccctgaca gcgtcctcgt cacagccagc gtcaaggaag ctgccgaggc
1701  tttcctaggc ttttcctatg cgcctcccac ggactctttc ctctaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt
1801  ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa
1901  gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa
2001  tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt
2101  atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt
2201  aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac
2301  tataaagata ccaggcgttt cccccctggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac cggatacctg tccgcctttc tcccttcggg
2401  aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaaccccc cgttcagccc
2501  gaccgctgcg ccttatccgg taactatcgt cttgagtcca acccggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag
2601  cgaggtatgt aggcggtgct acagagttct tgaagtggtg gcctaactac ggctacacta gaaggacagt atttggtatc tgcgctctgc tgaagccagt
2701  taccttcgga aaaagagttg gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggttttttt gtttgcaagc agcagattac gcgcagaaaa
2801  aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa
2901  ggatcttcac ctagatcctt ttaaattaaa aatgaagttt taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag
3001  tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc
3101  cccagtgctg caatgatacc gcgagaccca cgctcaccgg ctccagattt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggtcctg
3201  caactttatc cgcctccatc cagtctatta attgttgccg ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc aacgttgttg ccattgctac
3301  aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa
3401  gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca ctcatggtta tggcagcact gcataattct cttactgtca
3501  tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgctcttgcc cggcgtcaat
3601  acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga
3701  tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg
3801  caaaaaaggg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg
3901  atacatattt gaatgtattt agaaaaataa acaaataggg gttccgcgca catttccccg aaaagtgcca cctgacgtct aagaaaccat tattatcatg
4001  acattaacct ataaaaatag gcgtatcacg aggccctttc gtc
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> RDC2003 Translated Insert Sequence

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101  lkvigkgsfg kvllarhkae evfyavkvlq kkailkkkee khimsernvl lknvkhpflv glhfsfqtad klyfvldyin ggelfyhlqr ercfleprar
201  fyaaeiasal gylhslnivy rdlkpenill dsqghivltd fglckenieh nsttstfcgt peylapevlh kqpydrtvdw wclgavlyem lyglppfysr
301  ntaemydnil nkplqlkpni tnsarhlleg llqkdrtkrl gakddfmeik shvffslinw ddlinkkitp pfnpnvsgpn dlrhfdpeft eepvpnsigk
401  spdsvlvtas vkeaaeaflg fsyapptdsf l
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