

## Product datasheet for **SC110120**

### SGK2 (NM\_170693) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SGK2 (NM\_170693) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SGK2  
**Synonyms:** dj138B7.2; H-SGK2  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_170693 edited

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GGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTG
TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGACAAGTCAGGATTGTGCC
TCCAGTCAGAAGGACCATGAAGAGAGAGAAGAGGGCAGAGCCGTGCATGGGGCTGCTCCC
CAGGACCTGAGCAGGAACCTGGAGTTTTTCAGAGCTGCCTGATCATTGCTACAGAATGAAC
TCTAGCCCAGCTGGGACCCCAAGTCCACAGCCCTCCAGGGCCAATGGGAACATCAACCTG
GGGCCTTCAGCCAACCCAAATGCCAGCCACGGACTTCGACTTCCTCAAAGTCATCGGC
AAAGGGAACACGGGAAGGTCTACTGGCCAAGCGCAAGTCTGATGGGGCTTCTATGCA
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GAGCGCAGTGTGCTTCTGAAGAAGTGGCGCACCCCTTCCTCGTGGGCCTGCGCTACTCC
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GAGAACATTCTCTTGGACTGCCAGGGACACGTGGTGTGACGGATTTTGGCCTCTGCAAG
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CCTGAAGTGCTTCGAAAAGAGCCTTATGATCGAGCAGTGGACTGGTGGTCTTGGGGCA
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GACCTCTGCAAAGCCTTCTCCACAAGGACCAGAGGCAGCGCTGGGCTCCAAAGCAGAC
TTTCTTGAGATTAAGAACCATGTATTCTTCAGCCCCATAAACTGGGATGACCTGTACCAC
AAGAGGCTAACTCCACCTTCAACCCAAATGTGACAGGACCTGCTGACTTGAAGCATTTT
GACCCAGAGTTCACCCAGGAAGCTGTGTCCAAGTCCATTGGCTGTACCCCTGACACTGTG
GCCAGCAGCTCTGGGCCTCAAGTGCATTCCTGGGATTTTCTTATGCGCCAGAGGATGAT
GACATCTTGGATTGCTAGAAGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_170693 unedited</p> <pre>GGGTCACATTTGTATACGACTCATATAGGCGGCCGCAATTCGAACCAGGACAAGTCAGG ATTGTGCTCCAGTCAGAAGGACCATGAAGAGAGAGAAGAGGGCAGAGCCGTGCATGGGG CTGCTCCCAGGACCTGAGCAGGAACCTGGAGTTTTTCAGAGCTGCCTGATCATTGCTACA GAATGAACTCTAGCCCAGCTGGGACCCCAAGTCCACAGCCCTCCAGGGCCAATGGGAACA TCAACCTGGGGCCTTCAGCCAACCCAAATGCCAGCCCACGGACTTCGACTTCCTCAAAG TCATCGGCAAAGGGAACACGGGAAGTCTACTGGCCAAGCGCAAGTCTGATGGGGCGT TCTATGCAGTGAAGGTACTACAGAAAAAGTCCATCTTAAAGAAGAAAGAGCAGAGCCACA TCATGGCAGAGCGCAGTGTGCTTCTGAAGAACGTGCGGCACCCCTTCTCGTGGGCCTGC GCTACTCCTTCCAGACACCTGAGAAGCTCTACTTCGTGCTCGACTATGTCAACGGGGGAG AGCTCTTCTTCCACCTGCAGCGGGAGCGCCGGTCTGGAGCCCCGGGCCAGTTCTACG CTGCTGAGGTGGCCAGCGCCATTGGCTACCTGCACTCCCTCAACATCATTTACAGGGATC TGA AAC CAGAGA A C A T T C T T G G A C T G C C A G G G A C A C G T G G T G C T G A C G G A T T T G G C C T C T G C A G G G A A G T G T A G A G C C T G A A G A A C C A C A T C C A C A T T C T G T G T A C C C T G A G T A C T T G G C A C T G A A G T G C T T C C G A A A G A G C C T T A T G A T C G A G C A G T G G A C T G G T G G T G C T T G G G G C A G T C C T C T A C G A G A T G C T C C A T G G N C T G C C G C C C T C T A C A G C C A A G A T G T A T C C C A G T</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_170693 unedited</p> <pre>AGGGNATGGNNTNNNTTGCATGGATGGCACTTCCAGGCCAGGAGAGGCACTGGGGAGGG GTCACAGGGATGCCACCCGGGATCTGTTCAAGAAACAGCTATGACCGCGGCCGAATCTA GAGTCGAGTT AAAATTTGTTCCCTTTAACCTTGTTACATCTTTGTCTTTTTACCTTTGAATTCAAAA TCCAAACCCAGGGGGCCCTTTGGTAAAAAATTGCTGGTGCCTACCCAAATTTTCCCT TAATGTTTTATTGTCAAACCCCTTTTTTTTTTAGGGATAGTCCCTTCCCAGAAAATAAC CCAATTTTCAAACCTCCTTTCCAGTTAGGGGTGGGTGGTTAGTAAAATGAAACCAAAT TCTTTGGGTGGACCTTTTGGAAAACCTTTTTAAAACCCCTTTTGTCTTTCTCCCTTTTC CTCCTTTTTCTTTCTTAAACACAAAATAGGCAGTTAGAGCCTCCTTAACTTTTTGTGA CCAAACCTAACTTTGAAACCCCTTTGTCAAGGTTGGCAGGCCAAAAATCCACCCTCTGAT TATTTAATAACCTGTCTGCCATTCTGAACTCCAAAACATTATTTTCTTTTATGTGCT GAAAAAATAAACCTGCTTCTCTTAAACCCCTTTGTTATTTTGTAGTCCCTCTTCTACCA CCTAAGGGTATTTCTTTACTAATCCCAGTTTGGCCTAATATTTAAAAGGTCTTTTTTTTT AGAATCC</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_170693
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_170693.1](#), [NP\\_733794.1](#)

**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]

Transcript Variant: This variant (1) contains an alternate in-frame exon in the 5' coding region, compared to variant 2. Variants 1 and 3 encode the same isoform.