

Product datasheet for **SC304401**

SGK2 (NM_016276) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK2 (NM_016276) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGK2
Synonyms:	dj138B7.2; H-SGK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304401 representing NM_016276. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGCAGGGGTGCTTACCTCGGGTAGGAAACCTCAGGCGGTGGCAGGTGCACAGGTAGGGGAGGATGG
AGAGGGCAGTGGTGCCTGAAGCCCTGGATGGGCGGAGCTGACCCCCAACACCAACTCTCTCATGCCTG
CTCCTCCCTGTCCCCCAGAGCTGCCTGATCATTGCTACAGAATGAAGTCTAGCCAGCTGGGACCCCA
AGTCCACAGCCCTCCAGGGCCAATGGGAACATCAACCTGGGGCCTTCAGCCAACCCAAATGCCAGCCC
ACGGACTTCGACTTCTCAAAGTCATCGGCAAAGGGAACACGGGAAGTCTACTGGCCAAGCGCAAG
TCTGATGGGGCGTTCTATGCAGTGAAGTACTACAGAAAAGTCCATCTTAAAGAAGAAAGAGCAGAGC
CACATCATGGCAGAGCGCAGTGTCTTCTGAAGAACGTGCGGCACCCCTTCTCTGTTGGGCTGCGCTAC
TCCTTCCAGACACCTGAGAAGCTCTACTTCGTGCTCGACTATGTCAACGGGGGAGAGCTCTTCTCCAC
CTGCAGCGGGAGCGCCGGTTCTTGGAGCCCCGGGCCAGGTTCTACGCTGCTGAGGTGGCCAGCGCCATT
GGCTACCTGCACTCCCTCAACATCATTTACAGGGATCTGAAACCAGAGAACATTCTTTGGACTGCCAG
GGACACGTGGTGTGACGGATTTTGGCCTCTGCAAGGAAGGTGTAGAGCCTGAAGACACCACATCCACA
TTCTGTGGTACCCCTGAGTACTTGGCACCTGAAGTGCTTCGAAAGAGCCTTATGATCGAGCAGTGGAC
TGGTGGTGCTTGGGGCAGTCTCTACGAGATGCTCCATGGCCTGCCGCCCTTCTACAGCCAAGATGTA
TCCCAGATGTATGAGAATTCTGCACCGCCGCTACAGATCCCCGGAGGCCGACAGTGGCCGCTGT
GACCTCCTGCAAAGCCTTCTCCACAAGGACAGAGGCAGCGGCTGGGCTCCAAAGCAGACTTTCTTGAG
ATTAAGAACCATTGATTCTTTCAGCCCCATAAACTGGGATGACCTGTACCAAGAGGCTAACTCCACCC
TTCAACCCAAATGTGACAGGACCTGCTGACTTGAAGCATTTTGACCCAGAGTTACCCAGGAAGCTGTG
TCCAAGTCCATTGGCTGTACCCCTGACACTGTGGCCAGCAGCTCTGGGCCTCAAGTGCATTCTGGGA
TTTTCTTATGCGCCAGAGGATGATGACATCTTGGATTGC**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_016276
Insert Size:	1284 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_016276.3
RefSeq Size:	2146 bp
RefSeq ORF:	1284 bp
Locus ID:	10110
UniProt ID:	Q9HBY8
Cytogenetics:	20q13.12
Protein Families:	Druggable Genome, Protein Kinase
MW:	47.6 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]

Transcript Variant: This variant (2) encodes the longer isoform (beta).