

Product datasheet for **SC323383**

SGK3 (NM_013257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK3 (NM_013257) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGK3
Synonyms:	CISK; SGK2; SGKL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013257, the custom clone sequence may differ by one or more nucleotides

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ATGCAAAGAGATCACACCATGGACTACAAGGAAAGCTGCCCAAGTGAAGCATTCCAGCTCCGATGAAC
ACAGAGAGAAAAAGAAGAGGTTTACTGTTTATAAAGTTCTGGTTTCAGTGGGAAGAAGTGAATGGTTTGT
CTTCAGGAGATATGCAGAGTTTGATAAACTTTATAACACTTTAAAAAACAGTTTCCTGCTATGGCCCTG
AAGATTCTGCCAAGAGAATATTTGGTGATAATTTTGATCCAGATTTTATAAACAAAGACGAGCAGGAC
TAAACGAATTCATTCAGAACCTAGTTAGGTATCCAGAAGTTTATAACCATCCAGATGTCAGAGCATTCT
TCAAATGGACAGTCCAAAACACCAGTCAGATCCATCTGAAGATGAGGATGAAAGAAGTTCTCAGAAGCTA
CACTCTACCTCACAGAACATCAACCTGGGACCGTCTGAAATCCTCATGCCAAACCAACTGACTTTGATT
TCTTAAAAGTTATTGGAAAAGGCAGCTTTGGCAAGGTTCTTCTTGCAAAACGGAAACTGGATGGAAAATT
TTATGCTGTCAAAGTGTTACAGAAAAAATAGTTCTCAACAGAAAAGAGCAAAAACATATTATGGCTGAA
CGTAATGTGCTCTTGAAAAATGTGAAACATCCGTTTTTGGTTGGATTGCATTATTCCTTCCAAAACACTG
AAAAGCTTTATTTTGTCTGGATTTTGTAAATGGAGGGGAGCTTTTTTCCACTTACAAAGAGAACGGTC
CTTTCCTGAGCACAGAGCTAGGTTTTACGCTGCTGAAATTGCTAGTGCATTGGGTTACTTACATTCCATC
AAAATAGTATACAGAGACTTGAAACCAGAAAATATTCTTTGGATTTCAGTAGGACATGTTGTCTTAACAG
ATTTTGGGCTTTGTAAGAAGGAATTGCTATTTCTGACACCACTACCACATTTTGTGGGACACCAGAGTA
TCTTGCACCTGAAGTAATTAGAAAACAGCCCTATGACAATACTGTAGATTGGTGGTGCCTTGGGGCTGTT
CTGTATGAAATGCTGTATGGATTGCCTCCTTTTTATTGCCGAGATGTTGCTGAAAATGTATGACAATATCC
TTCACAAAACCCCTAAGTTTGAGGCCAGGAGTGAGTCTTACAGCCTGGTCCATTCTGGAAGAACTCCTAGA
AAAAGACAGGCAAAATCGACTTGGTGCCAAAGAACTTTCTTGAATTCAGAATCATCCTTTTTTTGAA
TCACTCAGCTGGGCTGACCTTGTACAAAAGAAGATTCCACCACCATTTAATCCTAATGTGGCTGGACCAG
ATGATATCAGAACTTTGACACAGCATTACAGAAAGAAACAGTTCCATATTCTGTGTGTATCTTCTGA
CTATTCTATAGTGAATGCCAGTGTATTGGAGGCAGATGATGCATTCGTTGGTTTCTCTTATGCACCTCCT
TCAGAAGACTTATTTTTGTGA

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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_013257 unedited ACCGCCCCTCCAGCAAAGGGCGGTAGGCGCGTACGGCGGGAGGTTCTATATAAGCAGAGCTCGTTTAGT GAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCAGAGGCCCGGCCGAGT GTGGCGCAGCAGTGGCGGCGCTCCCATTCGCCATGCGCCGGGGTGGGTGCCCGAAGGTTGCATGATGG AATTTGAACATTACTTCAAGAGTTTTGTATTTGGATTAGTTAATTGGGTTTGCCTCTGCTGACTGTT TCTTCGGATGCATTTTTTGGTGTGCTCTTGAGGATTAATGCAAAGAGATCACACCAGGACAGATGAAGC GCCAAGTGTAGCTTCCAACCCCATGAAACGAGAAAAAAGAAAGGACTGGGAAAGTTTGTGGATTGAAA AGTAAAGGTTTGCCTTCGGGAAAATCCCAAATTTTAAAAAATTTTAAACCCTTTTAAAAAAAATTT TTCCGGGCTAGGCCCGGAAAATTCCTGCCAAAAAAAATTTGGGGGAAAATTTTTTCCAAATTTT TTTAAAAAAAACGGGATAAACAAATTTTTTTTAAACCCATTTTGGGTCCCAAAATTTTTTCCC CCCCAAGTTTAAAGATTCTTTCAATGGGGGGCAAAAACACAATATACTCCGTGAAGAAAGAGAAAA AAAAAATTTAGAGGACCCACCACCCAAAACAAAAGCGAGCGCCCGGGGA
Kinase Domain Sequence:	>SC323383 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TWCTAAGTATTGAAAGGAGCAGCTTTGGCAAGGTTCTTCTTGCAAACGGAACTGGATGGAAAATTTTAT GCTGTCATGGTGTACAGAAAAAATAGTTCTCAACAGAAAAGAGCAAAAACATATTATGGCTGAACGTA ATGTGCTCTTGA AAAATGTGAAACATCCGTTTTTGGTTGGATTGCATTATTCCTTCCAAACAACTGAAA GCTTTATTTTGTCTGGATTTTGTAAATGGAGGGGAGCTTTTTTT
Restriction Sites:	Please inquire
ACCN:	NM_013257
Insert Size:	2680 bp
OTI Disclaimer:	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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell . 2008 May p536-548.
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_013257.3 , NP_037389.4
RefSeq Size:	4155 bp
RefSeq ORF:	1491 bp

Locus ID:	23678
UniProt ID:	Q96BR1
Cytogenetics:	8q13.1
Domains:	pkinase, S_TK_X, TyrKc, PX, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene is a member of the Ser/Thr protein kinase family and encodes a phosphoprotein with a PX (phox homology) domain. The protein phosphorylates several target proteins and has a role in neutral amino acid transport and activation of potassium and chloride channels. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1 and 3 encode the same isoform.</p>