

Product datasheet for **RG214835**

SGK3 (NM_001033578) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK3 (NM_001033578) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGK3
Synonyms:	CISK; SGK2; SGKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214835 representing NM_001033578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAAGAGATCACACCATGGACTACAAGGAAAGCTGCCAAGTGAAGCATTCCAGCTCCGATGAAC
 ACAGAGAGAAAAAGAAGAGGTTTACTGTTTATAAAGTTCTGGTTTCAGTGGGAAGAAGTGAATGGTTGT
 CTTCAGGAGATATGCAGAGTTTGATAAACTTTATAACACTTTAAAAAACAGTTTCTGCTATGGCCCTG
 AAGATTCTGCCAAGAGAATATTTGGTGATAATTTTATCCAGATTTTATAAACAAAGACGAGCAGGAC
 TAAACGAATTCATTACAGAACCTAGTTAGGTATCCAGAATTTATAACCATCCAGATGTCAGAGCATTCT
 TCAATGGACAGTCCAAAACACCAGTCAGATCCATCTGAAGATGAGGATGAAAGAAGTTCTCAGAAGCTA
 CACTCTACCTCACAGAACATCAACCTGGGACCGTCTGAAATCCTCATGCCAAACCACTGACTTTGATT
 TCTTAAAAGTTATTGGAAAAGGCAGCTTTGGCAAGTTCTTCTTGCAAAACGAAACTGGATGGAAAATT
 TTATGCTGTCAAAGTGTACAGAAAAAATAGTTCTCAACAGAAAAGAGCAAAAACATATTATGGCTGAA
 CGTAATGTGCTCTTGAAAATGTGAAACATCCGTTTTTGGTTGGATTGCATTATTCCTTCCAAACAACCTG
 AAAAGCTTTATTTGTTCTGGATTTTGTAAATGGAGGGGAGCTTTTTTCCACTTACAAAGAGAACGGTC
 CTTTCTGAGCACAGAGCTAGGTTTTACGCTGCTGAAATTGCTAGTGCATTGGGTTACTTACATTCCATC
 AAAATAGTATACAGAGACTTGAAACCAGAAAATATTCTTTGGATTACAGTAGGACATGTTGTCTTAACAG
 ATTTTGGGCTTTGTAAAGAAGGAATTGCTATTTCTGACACCCTACCACATTTTGGGGACACCAGAGTA
 TCTTGCACCTGAAGTAATTAGAAAACAGCCCTATGACAATACTGTAGATTGGTGGTGCCTTGGGGCTGT
 CTGTATGAAATGCTGTATGGATTGCCTCCTTTTTATTGCCGAGATGTTGCTGAAATGTATGACAATCC
 TTCACAAACCCCTAAGTTTGAGGCCAGGAGTGAGTCTTACAGCCTGGTCCATTCTGGAAGAACTCTAGA
 AAAAGACAGGCAAAATCGACTTGGTGCCAAAGGAAGACTTTCTTGAAATCAGAATCATCCTTTTTTTGAA
 TCACTCAGCTGGGCTGACCTGTACAAAAGAAATTCCACCACCTTTAATCCTAATGTGGCTGGACCAG
 ATGATATCAGAACTTTGACACAGCATTACAGAAGAAACAGTCCATATTCTGTGTGTATCTTCTGA
 CTATTCTATAGTGAATGCCAGTGTATTGGAGGCAGATGATGCATTCGTTGGTTTCTCTTATGCACCTCT
 TCAGAAGACTTATTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214835 representing NM_001033578
 Red=Cloning site Green=Tags(s)

MQRDHTMDYKESCPVSIPSSDEHREKKRFTVYKVLVSVGRSEWVFRRYAEFDKLYNTLKKQFPAMAL
 KIPAKRIFGDNFDPDFIKQRRAGLNEFIQNLVRYPELVNHPDVRAFLQMDSPKHQSDPSEDEDESSQKL
 HSTSQNINLGPSTGNPHAKPTDFDLKVIKGSFGKVLAKRKLQKGYAVKVLQKKIVLNRKEQKHIMAE
 RNVLLKNVKHPFLVGLHYSFQTTEKLYFVLDVNGGELFFHLQRERSFPEHRARFYAAEIASALGYLHSI
 KIVYRDLKPENILLDSVGHVVL TDFGLCKEGIAISDTTTF CGTPEYLAPEVIRKQPYDNTVDWCLGAV
 LYEMLYGLPPFYCRDVAEMYDNILHKPLSLRPGVSLTAWSI EELLEKDRQNRLGAKEDFLEIQNHPPFE
 SLSWADLVQKKIPPPFNPVAGPDDIRNFDTAFTEETVPYSVCVSSDYSIVNASVLEADDAFVGFYSYAPP
 SEDLFL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033578

ORF Size: 1488 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_001033578.3](#)

RefSeq Size: 4241 bp

RefSeq ORF: 1491 bp

Locus ID: 23678

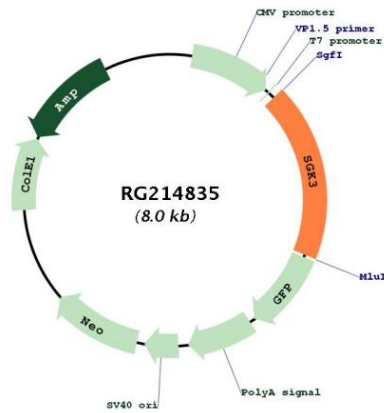
UniProt ID: [Q96BR1](#)

Cytogenetics: 8q13.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]

Product images:



Circular map for RG214835