

Product datasheet for **RG237901**

SGK1 (NM_001291995) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK1 (NM_001291995) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGK1
Synonyms:	SGK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237901 representing NM_001291995. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGACGGTGAAAACCTGAGGCTGCTAAGGGCACCCCTCACTTACTCCAGGATGAGGGGCATGGTGGCAATT
CTCATCGCTTTCATGAAGCAGAGGAGGATGGGTCTGAACGACTTTATT CAGAAGATTGCCAATAACTCC
TATGCATGCAAACACCCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGGAGCCTGAGCTTATG
AATGCCAACCCCTTCTCCTCCACCAAGTCTTCTCAGCAAATCAACCTTGGCCCGTCGTC CAATCCTCAT
GCTAAACCATCTGACTTTCACTTCTT GAAAGTGATCGGAAAGGGCAGTTTGGAAAGTTCTTCTAGCA
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GAAGCTGCCGAGGCTTTCCTAGGCTTTTCTATGCGCCTCCCACGGACTCTTTCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237901
 Blue=ORF Red=Cloning site Green=Tag(s)

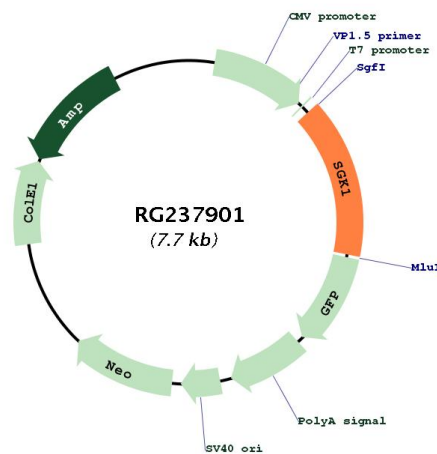
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 ELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILDSQGHIVLDFGLCKENIEHN
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 TNSARHILLEGLLQKDRTKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPVSGPNDLRHFDPEF
 TEEPVPNSIGKSPDVLVTASVKEAAEAFLGFSYAPPTDSFL
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 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001291995
ORF Size:	1161 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).
RefSeq:	NM_001291995.2
RefSeq Size:	2282 bp
RefSeq ORF:	1164 bp
Locus ID:	6446
UniProt ID:	O00141
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	44.3 kDa
Gene Summary:	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase 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 this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009]