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Product datasheet for MC207394

Sgk1 (NM_011361) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk1 (NM_011361) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgk1
Synonyms:	Sg; Sgk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC207394 representing NM_011361
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGTCAAAGCCGAGGCTGCTCGAAGCACCCTTACCTACTCCAGAATGAGGGGAATGGTAGCGATTC
TCATCGCTTTTATGAAACAGAGAAGGATGGGCCTGAACGATTTTATTCAGAAGATTGCCAGCAACACCTA
TGCATGCAAACACGCTGAAGTTCAGTCCATTTTGAAAATGTCCCATCCTCAGGAGCCGGAGCTTATGAAC
GCTAACCCCTCTCCTCCGCCAAGTCCCTCTCAACAAATCAACCTGGGTCCGTCCTCCAACCCTCACGCCA
AACCCTCCGACTTTCACTTCTTGAAAGTGATCGGAAAGGGCAGTTTTGGAAAGGTTCTTCTGGCTAGGCA
CAAGGCAGAAGAAGTATTCTATGCAGTCAAAGTTTTACAGAAGAAAGCCATCCTGAAGAAGAAAGAGGAG
AAGCATATTATGTCAGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCCTTTCCTGGTGGGCCTTCACT
TCTCATTCCAGACCGCTGACAAGCTCTACTTTGTCCTGGACTACATTAATGGTGGAGAGCTGTTCTACCA
TCTCCAGAGGGAGCGCTGCTTCCTGGAACCACGGGCTCGATTCTACGCAGCTGAAATAGCCAGTGCCCTG
GGCTATCTGCACTCCCTAAACATCGTTTATAGAGACTTAAAACCTGAGAATATTCTCCTAGACTCCCAGG
GGCACATCGTCCTCACTGACTTTGGGCTCTGCAAAGAGAATATTGAGCATAACGGGACAACATCTACCTT
CTGTGGCACGCCTGAGTATCTGGCTCCTGAGGTCCTCCATAAGCAGCCGTATGACCGGACGGTGGACTGG
TGGTGTCTTGGGGCTGTCCTGTATGAGATGCTCTACGGCCTGCCCCCGTTTTATAGCCGGAACACGGCTG
AGATGTACGACAATATTCTGAACAAGCCTCTCCAGTTGAAACCAAATATTACAAACTCGGCAAGGCACCT
CCTGGAAGGCCTCCTGCAGAAGGACCGGACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAG
AGTCATATTTTCTTCTCTTTAATTAACTGGGATGATCTCATCAATAAGAAGATTACACCCCCATTTAACC
CAAATGTGAGTGGGCCCAGTGACCTTCGGCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCCAGCTC
CATCGGCAGGTCCCCTGACAGCATCCTTGTCACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCCTCGGC
TTCTCCTATGCACCTCCTGTGGATTCCTTCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011361

Insert Size: 1296 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).

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_011361.3, NP_035491.1

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RefSeq Size:	2471 bp
RefSeq ORF:	1296 bp
Locus ID:	20393
UniProt ID:	Q9WVC6
Cytogenetics:	10 A3
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. This enzyme is activated by protein phosphorylation and degraded via the ubiquitination and proteasome pathway. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 12. [provided by RefSeq, Sep 2009] Transcript Variant: This variant (6) differs in the 5' UTR and 5' coding sequence compared to variant 1. The resulting isoform (e) has a shorter and distinct N-terminus compared to isoform a.

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