

Product datasheet for **MC227126**

Sgk2 (NM_001291154) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgk2 (NM_001291154) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sgk2
Synonyms: AI098171; AW146006; Sgk1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227126 representing NM_001291154
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCTCCAGCCAGTTGGAGTTCCTAGCCACAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC
CATCAGCCAAACCAATGCCCGCCACAGACTTTGATTTCTCAAAGTCATTGGCAAAGGGAACACGG
GAAGGTCTACTGGCCAAGCGCAAGTCGGACGGAGCCTTCTACGCCGTGAAGGTGCTGCAGAAGAAATCC
ATTTTAAAGAACAAGAGCAGAACCACATCATGGCAGAGCGCAACGTGCTGTTGAAGAACGTGCGGCATC
CTTTCTCGTGGGCTGCGTACTCCTCCAGACCCAGAGAACTCTACTTTGTGCTTGACTATGTCAA
CGGGGGAGAGCTTCTTCCATCTACAGCGGGAACGCAGGTTCTGGAGCCCCGGGCCGGTTTCTACACT
GCAGAGGTGGCGAGCGCCATTGGTTACCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAA
ACATTCTTTGGACTGCCAGTACTTGGCTCCAGAAGTGCCTCGTAAAGAGCCTTACGATCGAGCAGTGGA
CTGGTGGTGTAGGGGCAGTCTCTACGAGATGCTACATGGCCTGCCCCCTTCTTCAACACTGACGTG
GCCAGATGTATGAGAATATTTACATCAGCCGCTACAGATCCCTGGAGGCCGGACAGTGGCTGCCTGTG
ACCTCCTGCAAGGCCCTTCCACAAGGACCAGAGCGGCTGGGCTCCAAGGAAGACTTTCTGGACAT
AAAGAACCACATGTTCTTCAGTCCATAAACTGGGATGATCTGTACCACAAGAGGCTGACTCCACCCTT
AACCCAAACGTGGAAGGACCTGTGACTTGAAACACTTTGACCCAGAGTTACCCAGGAAGCTGTGTCCA
AGTCCATTGGCTGCACCCTGACACCGTGGCCAGCAGTTCTGGGGCTTCAAGTGCATTCTTGGATTTTC
CTATGCACAGGATGATGATGACATTTGGACTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291154



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Insert Size:	1017 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001291154.1</u> , <u>NP_001278083.1</u>
RefSeq Size:	3068 bp
RefSeq ORF:	1017 bp
Locus ID:	27219
UniProt ID:	<u>Q9QZS5</u>
Cytogenetics:	2 H2
Gene Summary:	<p>Serine/threonine-protein kinase which is involved in the regulation of a wide variety of ion channels, membrane transporters, cell growth, survival and proliferation. Up-regulates Na(+) channels: SCNN1A/ENAC, K(+) channels: KCNA3/Kv1.3, KCNE1 and KCNQ1, amino acid transporter: SLC6A19, glutamate transporter: SLC1A6/EAAT4, glutamate receptors: GRIA1/GLUR1 and GRIK2/GLUR6, Na(+)/H(+) exchanger: SLC9A3/NHE3, and the Na(+)/K(+) ATPase.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and lacks an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (c) is shorter than isoform a.</p>