

Product datasheet for **MC227301**

Sgk2 (NM_001291152) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk2 (NM_001291152) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgk2
Synonyms:	AI098171; AW146006; Sgkl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227301 representing NM_001291152 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCTCCAGCCAGTTGGAGTTCCTAGCCACAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC
CATCAGCCAAACCAATGCCCGGCCACAGACTTTGATTCCTCAAAGTCATTGGCAAAGGGAACACGG
GAAGGTCTACTGGCCAAGCGCAAGTCGGACGGAGCCTTCTACGCCGTGAAGGTGCTGCAGAAGAAATCC
ATTTTAAAGAACAAGAGAACCACATCATGGCAGAGCGCAACGTGCTGTTGAAGAAGCTGCGGCATCCTT
TCCTCGTGGGCTGCGCTACTCCTCCAGACCCAGAGAACTCTACTTTGTGCTTGACTATGTCAACGG
GGGAGAGCTCTTCTTCCATCTACAGCGGGAACGCAGGTTCTGGAGCCCCGGGCCGGTTCTACACTGCA
GAGGTGGCGAGCGCCATTGGTTACCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAAAACA
TTCTCTTGGACTGCCAGGGTCACGTGGTACTGACCGATTCGGCCTTTGCAAGGAATGTGTAGAGCCTGA
GGAGACCACGTCCACCTCTGCGGCACCCTGAGTACTTGGCTCCAGAAGTGCTTCGTAAGAGCCTTAC
GATCGAGCAGTGGACTGGTGGTGTAGGGCAGTCTCTACGAGATGCTACATGGCCTGCCCTTCTCT
TCAACACTGACGTGGCCAGATGTATGAGAATATTTTACATCAGCCGCTACAGATCCCTGGAGCCGGAC
AGTGGCTGCCTGTGACCTCTGCAAGGCCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAGGAA
GACTTTCTGGACATAAAGAACCACATGTTCTTCAAGTCCCATAAACTGGGATGATCTGTACCACAAGAGGC
TGACTCCACCCTTCAACCCAAACGTGGAAGGACCTGCTGACTTGAACACTTTGACCCAGAGTTCACCCA
GGAAGCTGTGTCAGTCCATTGGCTGCACCCCTGACACCGTGGCCAGCAGTTCTGGGGCTTCAAGTGCA
TTCCTTGGATTTCTATGCACAGGATGATGATGACATTTGGACTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001291152



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Insert Size:	1101 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_001291152.1, NP_001278081.1</u>
RefSeq Size:	2436 bp
RefSeq ORF:	1101 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 (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (b) that is 1 aa shorter than isoform a. The 5' UTR of this variant is incomplete due to lack of a complete transcript and splice pattern ambiguity in the upstream region.</p>