

Product datasheet for MR229512

Sgk2 (NM_001291152) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgk2 (NM_001291152) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sgk2
Synonyms: AI098171; AW146006; Sgk1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229512 representing NM_001291152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTCCAGCCAGTTGGAGTTCCTAGCCACAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC
 CATCAGCCAAACCAATGCCCGGCCACAGACTTTGATTTCTCAAAGTCATTGGCAAAGGGAACACGG
 GAAGGTCTACTGGCCAAGCGCAAGTCGGACGGAGCCTTCTACGCCGTGAAGGTGCTGCAGAAGAAATCC
 ATTTTAAAGAACAAGAGAACCACATCATGGCAGAGCGCAACGTGCTGTTGAAGAACGTGCGGCATCCTT
 TCCTCGTGGGCTGCGCTACTCCTCCAGACCCAGAGAACTCTACTTTGTGCTTGACTATGTCAACGG
 GGGAGAGCTCTTCTTCCATCTACAGCGGAACGCAGGTTCTGGAGCCCCGGGCCGGTTCTACACTGCA
 GAGGTGGCGAGCGCCATTGGTTACCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAAACA
 TTCTCTTGGACTGCCAGGGTCACGTGGTACTGACCGATTCGGCCTTTCGAAGGAATGTGTAGAGCCTGA
 GGAGACCACGTCCACCTTCTGCGGCACCCTGAGTACTGGCTCCAGAAGTGCTTCGTAAGAGCCTTAC
 GATCGAGCAGTGGACTGGTGGTGTAGGGCAGTCTCTACGAGATGCTACATGGCCTGCCCTTCTCT
 TCAACACTGACGTGGCCAGATGTATGAGAATATTTTACATCAGCCGCTACAGATCCCTGGAGCCGGAC
 AGTGGCTGCCTGTGACCTCCTGCAAGGCCTTCTCCACAAGGACCAGAGGCAGCGCTGGGCTCCAAGGAA
 GACTTTCTGGACATAAAGAACCACATGTTCTTCAAGTCCCATAAACTGGGATGATCTGTACCAACAAGAGGC
 TGAATCCACCTTCAACCCAAACGTGGAAGGACCTGCTGACTTGAACACTTTGACCCAGAGTTCACCCA
 GGAAGCTGTGTCAGTCCATTGGCTGCACCCCTGACACCGTGGCCAGCAGTTCTGGGGCTCAAGTGCA
 TTCCTGGATTTCTATGCACAGGATGATGATGACATTTGGACTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229512 representing NM_001291152
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MASSPVGVSPQPSRANGNINLGPSANPNARPTDFDLKVIKGNYGKVLAKRKSDFYAVKVLQKKS
 ILKNKENHIMAERNVLLKNVRHPFLVGLRYSFQTPEKL YFVLDYVNGGELFFHLQRERRFLEPRARFYTA
 EVASAIGYLHSLNIIYRDLKPENILLDCQGHVVL TDFGLCKECPVEEETTSTFCGTPEYLAPVLRKEY
 DRAVDWWCLGAVLYEMLHGLPPFFNTDVAQMYENILHQPLQIPGGRTVAACDLLQGLLHKDQRQLGSKE
 DFLDIKNHMFFSPINWDDL YHKRLTPPFNPVVEGPADLKHFDPEFTQEAVSKSIGCTPDTVASSSGASSA
 FLGFSYAQDDDDILDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

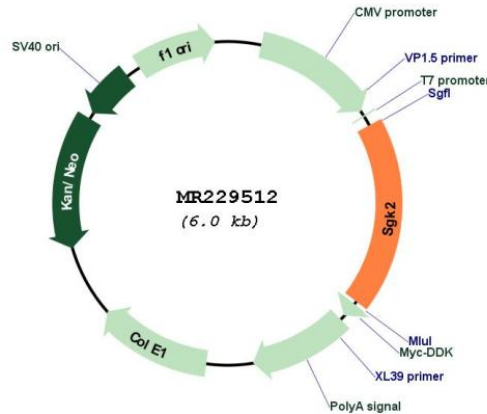
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291152

ORF Size:	1098 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:	<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:	NM_001291152.1 , NP_001278081.1
RefSeq Size:	2436 bp
RefSeq ORF:	1101 bp
Locus ID:	27219
UniProt ID:	Q9QZS5
Cytogenetics:	2 H2
MW:	41.7 kDa
Gene Summary:	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]