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Product datasheet for MR229337

Sgk2 (NM_001291154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk2 (NM_001291154) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sgk2
Synonyms:	AI098171; AW146006; Sgkl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229337 representing NM_001291154 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCTCCAGCCCAGTTGGAGTTCCTAGCCCACAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC CATCAGCCAACCCAAATGCCCGGCCCACAGACTTTGATTTCCTCAAAGTCATTGGCAAAGGGAACTACGG GAAGGTCCTACTGGCCAAGCGCAAGTCGGACGGAGCCTTCTACGCCGTGAAGGTGCTGCAGAAGAAATCC ATTTTAAAGAACAAAGAGCAGAACCACATCATGGCAGAGCGCAACGTGCTGTTGAAGAACGTGCGGCATC CTTTCCTCGTGGGCCTGCGCTACTCCTTCCAGACCCCAGAGAAACTCTACTTTGTGCTTGACTATGTCAA CGGGGGAGAGCTCTTCTTCCATCTACAGCGGGAACGCAGGTTCCTGGAGCCCCGGGCCCGGTTCTACACT GCAGAGGTGGCGAGCGCCATTGGTTACCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAA ACATTCTCTTGGACTGCCAGTACTTGGCTCCAGAAGTGCTTCGTAAAGAGCCTTACGATCGAGCAGTGGA CTGGTGGTGCTTAGGGGCAGTCCTCTACGAGATGCTACATGGCCTGCCCCCCTTCTTCAACACTGACGTG GCCCAGATGTATGAGAATATTTTACATCAGCCGCTACAGATCCCTGGAGGCCGGACAGTGGCTGCCTGTG ACCTCCTGCAAGGCCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAGGAAGACTTTCTGGACAT AAAGAACCACATGTTCTTCAGTCCCATAAACTGGGATGATCTGTACCACAAGAGGCTGACTCCACCCTTC AACCCAAACGTGGAAGGACCTGCTGACTTGAAACACTTTGACCCAGAGTTCACCCAGGAAGCTGTGTCCA AGTCCATTGGCTGCACCCCTGACACCGTGGCCAGCAGTTCTGGGGCTTCAAGTGCATTCCTTGGATTTTC CTATGCACAGGATGATGATGACATTTTGGACTCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

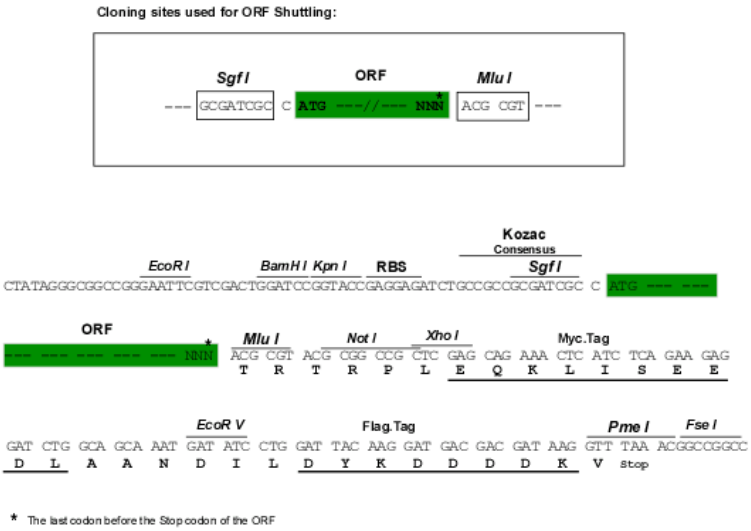
>MR229337 representing NM_001291154
Red=Cloning site Green=Tags(s)

MASSPVGVPSPQPSRANGNINLGPSANPNARPTDFDFLKVIGKGNYGKVLLAKRKSDGAFYAVKVLQKKS
ILKNKEQNHIMAERNVLLKNVRHPFLVGLRYSFQTPEKLYFVLDYVNGGELFFHLQRERRFLEPRARFYT
AEVASAIGYLHSLNIIYRDLKPENILLDCQYLAPEVLRKEPYDRAVDWWCLGAVLYEMLHGLPPFFNTDV
AQMYENILHQPLQIPGGRTVAACDLLQGLLHKDQRQRLGSKEDFLDIKNHMFFSPINWDDLYHKRLTPPF
NPNVEGPADLKHFDPEFTQEAVSKSIGCTPDTVASSSGASSAFLGFSYAQDDDDILDS

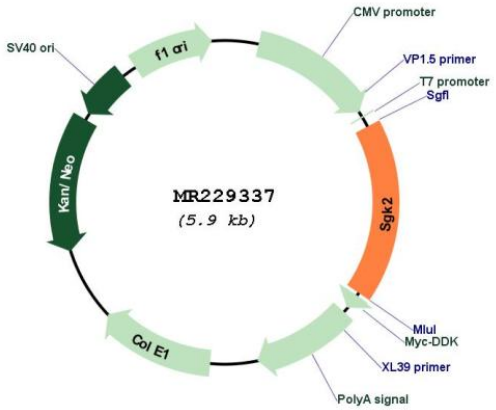
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291154

ORF Size: 1014 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:	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_001291154.1, NP_001278083.1
RefSeq Size:	3068 bp
RefSeq ORF:	1017 bp
Locus ID:	27219
UniProt ID:	Q9QZS5
Cytogenetics:	2 H2
MW:	38.7 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]