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Product datasheet for MR205649

Sgk2 (NM_013731) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk2 (NM_013731) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sgk2
Synonyms:	AI098171; AW146006; Sgkl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205649 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCCAGCCCAGTTGGAGTTCCTAGCCCACAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC
CATCAGCCAACCCAAATGCCCGGCCCACAGACTTTGATTTCCTCAAAGTCATTGGCAAAGGGAACTACGG
GAAGGTCCTACTGGCCAAGCGCAAGTCGGACGGAGCCTTCTACGCCGTGAAGGTGCTGCAGAAGAAATCC
ATTTTAAAGAACAAAGAGAACCACATCATGGCAGAGCGCAACGTGCTGTTGAAGAACGTGCGGCATCCTT
TCCTCGTGGGCCTGCGCTACTCCTTCCAGACCCCAGAGAAACTCTACTTTGTGCTTGACTATGTCAACGG
GGGAGAGCTCTTCTTCCATCTACAGCGGGAACGCAGGTTCCTGGAGCCCCGGGCCCGGTTCTACACTGCA
GAGGTGGCGAGCGCCATTGGTTACCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAAACA
TTCTCTTGGACTGCCAGGGTCACGTGGTACTGACCGATTTCGGCCTTTGCAAGGAATGTGTAGAGCCTGA
GGAGACCACGTCCACCTTCTGCGGCACCCCTGAGTACTTGGCTCCAGAAGTGCTTCGTAAAGAGCCTTAC
GATCGAGCAGTGGACTGGTGGTGCTTAGGGGCAGTCCTCTACGAGATGCTACATGGCCTGCCCCCCTTCT
TCAACACTGACGTGGCCCAGATGTATGAGAATATTTTACATCAGCCGCTACAGATCCCTGGAGGCCGGAC
AGTGGCTGCCTGTGACCTCCTGCAAGGCCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAGGAA
GACTTTCTGGACATAAAGAACCACATGTTCTTCAGTCCCATAAACTGGGATGATCTGTACCACAAGAGGC
TGACTCCACCCTTCAACCCAAACGTGGAAGGACCTGCTGACTTGAAACACTTTGACCCAGAGTTCACCCA
GGAAGCTGTGTCCAAGTCCATTGGCTGCACCCCTGACACCGTGGCCAGCAGTTCTGGGGCTTCAAGTGCA
TTCCTTGGATTTTCCTATGCACAGGATGATGATGACATTTTGGACTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

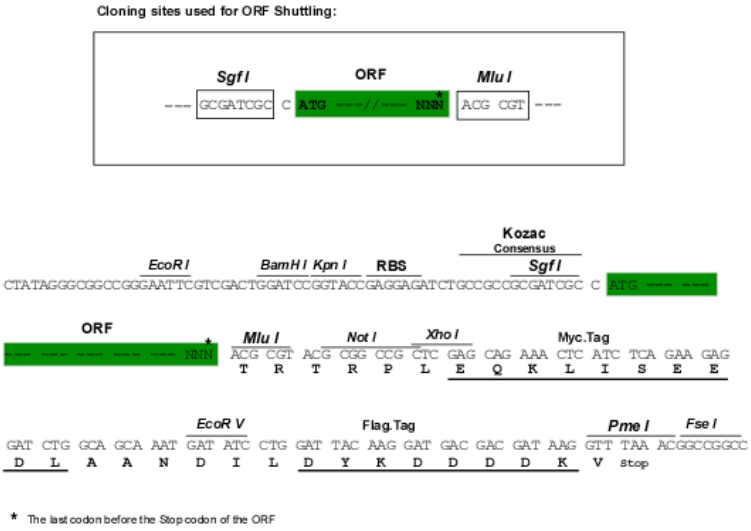
>MR205649 protein sequence
Red=Cloning site Green=Tags(s)

MASSPVGVPSPQPSRANGNINLGPSANPNARPTDFDFLKVIGKGNYGKVLLAKRKSDGAFYAVKVLQKKS
ILKNKENHIMAERNVLLKNVRHPFLVGLRYSFQTPEKLYFVLDYVNGGELFFHLQRERRFLEPRARFYTA
EVASAIGYLHSLNIIYRDLKPENILLDCQGHVVLTDFGLCKECVEPEETTSTFCGTPEYLAPEVLRKEPY
DRAVDWWCLGAVLYEMLHGLPPFFNTDVAQMYENILHQPLQIPGGRTVAACDLLQGLLHKDQRQRLGSKE
DFLDIKNHMFFSPINWDDLYHKRLTPPFNPNVEGPADLKHFDPEFTQEAVSKSIGCTPDTVASSSGASSA
FLGFSYAQDDDDILDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013731

ORF Size: 1101 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_013731.1, NM_013731.2, NM_013731.3, NP_038759.1

RefSeq Size: 2554 bp

RefSeq ORF: 1104 bp

Locus ID: 27219

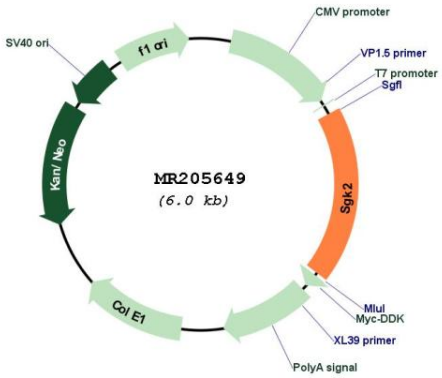
UniProt ID: Q9QZS5

Cytogenetics: 2 H2

MW: 41.2 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]

Product images:



Circular map for MR205649