

Product datasheet for **MG205649**

Sgk2 (NM_013731) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgk2 (NM_013731) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sgk2
Synonyms: AI098171; AW146006; Sgk1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205649 representing NM_013731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCCAGCCAGTTGGAGTTCCTAGCCACAGCCCTCTAGGGCCAATGGGAACATCAACCTGGGGC
 CATCAGCCAAACCAAATGCCCGGCCACAGACTTTGATTTCTCAAAGTCATTGGCAAAGGGAACACGG
 GAAGGTCTACTGGCCAAGCGCAAGTCGGACGGAGCCTTCTACGCCGTAAGGTGCTGCAGAAGAAATCC
 ATTTTAAAGAACAAGAGAACCACATCATGGCAGAGCGCAACGTGCTGTTGAAGAAGCTGCGGCATCCTT
 TCCTCGTGGGCCCTGCGCTACTCCTTCCAGACCCCAGAGAACTCTACTTTGTGCTTGACTATGTCAACGG
 GGGAGAGCTCTTCTTCCATCTACAGCGGAACGCAGGTTCTGGAGCCCCGGGCCGTTTACACTGCA
 GAGGTGGCGAGCGCCATTGGTTACCTTCACTCTCTCAACATCATCTACAGAGACCTGAAGCCAGAAAACA
 TTCTCTTGGACTGCCAGGGTCACGTGGTACTGACCGATTTTCGGCCTTTCGAAGGAATGTGTAGAGCCTGA
 GGAGACCACGTCCACCTTCTGCGGCACCCCTGAGTACTTGGCTCCAGAAGTGCTTCGTAAGAGCCTTAC
 GATCGAGCAGTGGACTGGTGGTCTTAGGGCAGTCTCTACGAGATGCTACATGGCCTGCCCCCTTCT
 TCAACTGACGTGGCCAGATGTATGAGAATATTTTACATCAGCCGCTACAGATCCCTGGAGGCCGGAC
 AGTGGCTGCCTGTGACCTCCTGCAAGGCCTTCTCCACAAGGACCAGAGGCAGCGGCTGGGCTCCAAGGAA
 GACTTTCTGGACATAAAGAACCACATGTTCTTTCAGTCCCATAAACTGGGATGATGTACCACAAGAGGC
 TGACTCCACCCTTCAACCCAAACGTGGAAGGACCTGCTGACTTGAACACTTTGACCCAGAGTTCAACCA
 GGAAGCTGTGTTCAAGTCCATTGGCTGCACCCCTGACACCGTGGCCAGCAGTTCTGGGGCTTCAAGTGCA
 TTCCTTGGATTTCTATGCACAGGATGATGATGACATTTTGGACTCT

ACCGTACCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205649 representing NM_013731
 Red=Cloning site Green=Tags(s)

MASSPVGVSPQPSRANGNINLGPSANPNARPTDFDLKVIKGNYGKVLAKRKSDFYAVKVLQKKS
 ILKNKENHIMAERNVLLKNVRHPFLVGLRYSFQTPEKL YFVLDYVNGGELFFHLQRERRFLEPRARFYTA
 EVASAIGYLHSLNIIYRDLKPENILLDCQGHVVL TDFGLCKECPVEPEETTSTFCGTPEYLAPEVLRKEY
 DRAVDWVCLGAVLYEMLHGLPPFFNTDVAQMYENILHQPLQIPGGRTVAACDLLQGLLHKDQRQLGSKE
 DFLDIKNHMFSPINWDDL YHKRLTPPFNPNVEGPADLKHFDPEFTQEAVSKSIGCTPDTVASSSGASSA
 FLGFSYAQDDDDILDS

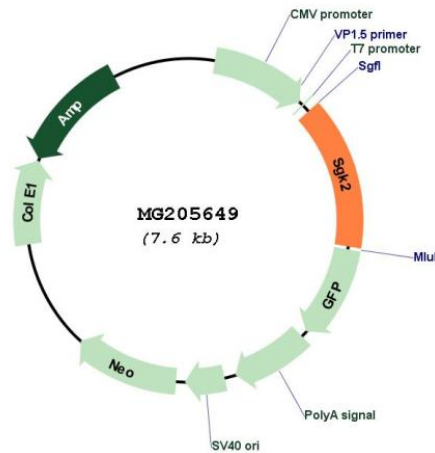
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_013731.1 , NP_038759.1
RefSeq Size:	2476 bp
RefSeq ORF:	1104 bp
Locus ID:	27219
UniProt ID:	Q9QZS5
Cytogenetics:	2 H2
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]