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Product datasheet for MG225802

Sgk1 (NM_001161850) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk1 (NM_001161850) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sgk1
Synonyms:	Sg; Sgk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG225802 representing NM_001161850
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGAGATGCAGGGCGCGCTGGCTCGGGCTCGGCTCGAGTCCCTGCTCCGGCCCCGCCACAAAAAGC
GGGCGGAGGCTCAGAAAAGGAGCGAGTCCGTCCTGCTGAGCGGACTGGCTTTTATGAAACAGAGAAGGAT
GGGCCTGAACGATTTTATTCAGAAGATTGCCAGCAACACCTATGCATGCAAACACGCTGAAGTTCAGTCC
ATTTTGAAAATGTCCCATCCTCAGGAGCCGGAGCTTATGAACGCTAACCCCTCTCCTCCGCCAAGTCCCT
CTCAACAAATCAACCTGGGTCCGTCCTCCAACCCTCACGCCAAACCCTCCGACTTTCACTTCTTGAAAGT
GATCGGAAAGGGCAGTTTTGGAAAGGTTCTTCTGGCTAGGCACAAGGCAGAAGAAGTATTCTATGCAGTC
AAAGTTTTACAGAAGAAAGCCATCCTGAAGAAGAAAGAGGAGAAGCATATTATGTCAGAGCGGAATGTTC
TGTTGAAGAATGTGAAGCACCCTTTCCTGGTGGGCCTTCACTTCTCATTCCAGACCGCTGACAAGCTCTA
CTTTGTCCTGGACTACATTAATGGTGGAGAGCTGTTCTACCATCTCCAGAGGGAGCGCTGCTTCCTGGAA
CCACGGGCTCGATTCTACGCAGCTGAAATAGCCAGTGCCCTGGGCTATCTGCACTCCCTAAACATCGTTT
ATAGAGACTTAAAACCTGAGAATATTCTCCTAGACTCCCAGGGGCACATCGTCCTCACTGACTTTGGGCT
CTGCAAAGAGAATATTGAGCATAACGGGACAACATCTACCTTCTGTGGCACGCCTGAGTATCTGGCTCCT
GAGGTCCTCCATAAGCAGCCGTATGACCGGACGGTGGACTGGTGGTGTCTTGGGGCTGTCCTGTATGAGA
TGCTCTACGGCCTGCCCCCGTTTTATAGCCGGAACACGGCTGAGATGTACGACAATATTCTGAACAAGCC
TCTCCAGTTGAAACCAAATATTACAAACTCGGCAAGGCACCTCCTGGAAGGCCTCCTGCAGAAGGACCGG
ACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAGAGTCATATTTTCTTCTCTTTAATTAACT
GGGATGATCTCATCAATAAGAAGATTACACCCCCATTTAACCCAAATGTGAGTGGGCCCAGTGACCTTCG
GCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCCAGCTCCATCGGCAGGTCCCCTGACAGCATCCTT
GTCACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCCTCGGCTTCTCCTATGCACCTCCTGTGGATTCCT
TCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

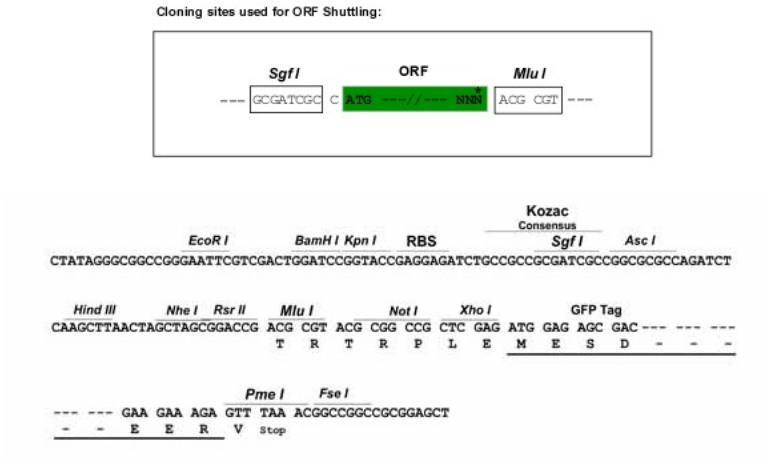
>MG225802 representing NM_001161850
Red=Cloning site Green=Tags(s)

MGEMQGALARARLESLLRPRHKKRAEAQKRSESVLLSGLAFMKQRRMGLNDFIQKIASNTYACKHAEVQS
ILKMSHPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAV
KVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLE
PRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNGTTSTFCGTPEYLAP
EVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDR
TKRLGAKDDFMEIKSHIFFSLINWDDLINKKITPPFNPNVSGPSDLRHFDPEFTEEPVPSSIGRSPDSIL
VTASVKEAAEAFLGFSYAPPVDSFL

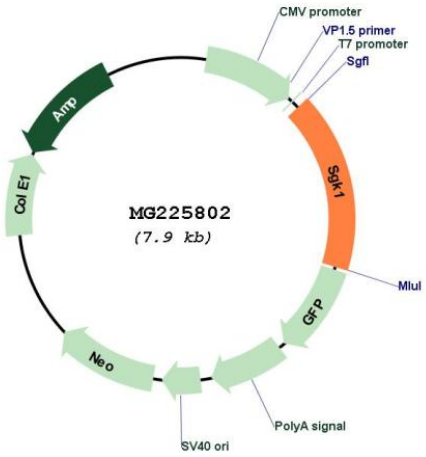
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161850

ORF Size: 1335 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_001161850.2, NP_001155322.1
RefSeq Size:	2603 bp
RefSeq ORF:	1338 bp
Locus ID:	20393
UniProt ID:	Q9WVC6
Cytogenetics:	10 A3
Gene Summary:	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. This enzyme is activated by protein phosphorylation and degraded via the ubiquitination and proteasome pathway. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 12. [provided by RefSeq, Sep 2009]