

Product datasheet for **MG206839**

Sgk3 (BC018363) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgk3 (BC018363) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sgk3
Synonyms:	2510015P22Rik; A330005P07Rik; Cisk; fy; fz
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206839 representing BC018363 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGAAGATTCCTGCCAAGAGAATATTTGGTGATAATTTTGATCCAGATTTTATTAACAAAGAA
GAGCAGGATTGAATGAGTTCATTCAGAAGTTGGTCAGATATCCAGAGCTTTACAACCATCCAGATGTCCG
AGCATTCTTCAAATGGACAGCCCAAGACATCAGTCAGATCCATCTGAAGATGAGGATGAAAGAAGTACT
TCGAAGCCACATTCTACCTCACGGAACATCAACCTGGGACCAACTGGAAATCCTCATGCTAAACCAACTG
ACTTCGATTTTTTAAAAGTTATTGGAAAGGGCAGCTTTGGCAAGTTCTTCTTGCAAACGGAACTGGA
TGGAAAATTTTATGCTGTCAAAGTGTACAGAAAAAATAGTTCTCAACAGAAAAGAGCAAAAACATATT
ATGGCTGAACGCAATGTGCTCTTGAAAAATGTGAAGCACCCATTTTTGGTTGGATTGCACTATTTCTTCC
AAACAACTGAAAAGCTTTATTTTGTCTGGATTTTGTAAATGGAGGGGAGCTCTTCTTCCACTCCAAAAG
GGAAAGGTCTTTTCTGAACCCAGAGCGAGGTTTTATGCCGCGGAGATCGCCAGTGCCTTGGGCTACCTG
CACTCCATCAAAATAGTGTACAGAGACTTGAAGCCAGAAAATATCTTTTGGATTCAATGGGACATGTTG
TCTTAACGGATTTTGGACTTTGCAAAGAAGGAATCGCTATTTCTGATACCACCACAACTTTTTGTGGTAC
ACCAGAGTACCTTGCACCTGAAGTAATCAGAAAACAGCCCTATGACAACACTGTGGACTGGTGGTGCCTG
GGCGCTTCTGTATGAGATGCTGTACGGGCTGCCTCTTTTTACTGCCGAGATGTTGAAATGTATG
ACAATATTCTTCAAGCCCTTAAACTTGAGACCAGGAGTGAAGTCTCACCCTGGTCCATTCTGGAAGA
ACTTCTAGAAAAAACAGACAAAATCGACTTGGTGCCAAAAGAAGACTTTCTTGAATCCAGAATCATCCT
TTTTTTGAGTCACTCAGCTGGACTGACCTCGTACAAAAAAGATTCCACCTCCATTTAACCTAATGTGG
CTGGACCAGATGATATCAGAACTTTGATGCCGTCTTCACTGAAGAAACGGTTCCCTATTCAGTGTGTG
GTCTTCTGACTATTCCATCGTGAATGCCAGTGTCTGGAGGCAGATGATGCATTTGTTGGTTTTTCTTAC
GCCCTCTTCCGAAGACTTATTTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206839 representing BC018363
 Red=Cloning site Green=Tags(s)

MALKIPAKRIFGDNFDPDFIKQRRAGLNEFIQNLVRYPELYNHPDVRAFLLQMSPRHQSDPSEDEDERST
 SKPHSTSRNINLGP TGNPHAKPTDFDFLKVIGKGSFGKVLAKRKL D GKFYAVKVLQKKI VLN RKEQKHI
 MAERNVLLKNVKHPFLVGLHYSFQTTEKLYFVLD FVNGGELFFHLQRERSFPEPRARFYAAEIASALGYL
 HSIKIVYRDLKPENILLDSMGHVVLDFGLCKEGIAISDTTTTFCGTPEYLAPEVIRKQPYDNTVDWWCL
 GAVLYEMLYGLPPFYCRDVAEMYDNILHKPLNLRPGVSLTAW SILEELLEKNRQNRLGAKEDFLEIQNHP
 FFE SLSWTDLVQKKIPPPFPNPVAGPDDIRNFDAVFTEETVPYSVCVSSDYSIVNASVLEADDAFVGF SY
 APPSEDLFL

TRTRPLE – GFP Tag – V

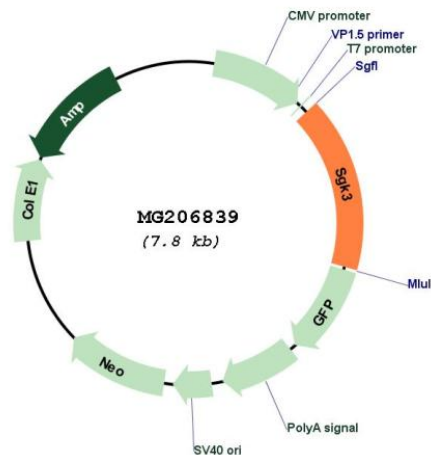
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC018363

ORF Size:	1289 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:	BC018363 , AAH18363
RefSeq Size:	2494 bp
RefSeq ORF:	1289 bp
Locus ID:	170755
Cytogenetics:	1 2.08 cM
Gene Summary:	Serine/threonine-protein kinase which is involved in the regulation of a wide variety of ion channels, membrane transporters, cell growth, proliferation, survival and migration. Up-regulates Na(+) channels: SCNN1A/ENAC and SCN5A, K(+) channels: KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca(2+) channels: TRPV5 and TRPV6, chloride channel: BSND, creatine transporter: SLC6A8, Na(+)/dicarboxylate cotransporter: SLC13A2/NADC1, Na(+)-dependent phosphate cotransporter: SLC34A2/NAPI-2B, amino acid transporters: SLC1A5/ASCT2 and SLC6A19, glutamate transporters: SLC1A3/EAAT1, SLC1A6/EAAT4 and SLC1A7/EAAT5, glutamate receptors: GRIA1/GLUR1 and GRIK2/GLUR6, Na(+)/H(+) exchanger: SLC9A3/NHE3, and the Na(+)/K(+) ATPase. Plays a role in the regulation of renal tubular phosphate transport and bone density. Phosphorylates NEDD4L and GSK3B. Positively regulates ER transcription activity through phosphorylation of FLII. Negatively regulates the function of ITCH/AIP4 via its phosphorylation and thereby prevents CXCR4 from being efficiently sorted to lysosomes.[UniProtKB/Swiss-Prot Function]