

Product datasheet for **MC218544**

Sgk3 (BC018363) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Sgk3 (BC018363) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Sgk3
 Synonyms: 2510015P22Rik; A330005P07Rik; Cisk; fy; fz
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC018363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTGAAGATTCCTGCCAAGAGAATATTTGGTGATAATTTTGATCCAGATTTTATTAACAAAGAA
 GAGCAGGATTGAATGAGTTCATTCAGAACTTGGTCAGATATCCAGAGCTTACAACCATCCAGATGTCCG
 AGCATTCTTCAAATGGACAGCCCAAGACATCAGTCAGATCCATCTGAAGATGAGGATGAAAGAAGTACT
 TCGAAGCCACATTCTACCTCACGGAACATCAACCTGGGACCAACTGGAAATCCTCATGCTAAACCAACTG
 ACTTCGATTTTTTAAAAGTTATTGGAAAGGGCAGCTTTGGCAAGTTCTTCTTGCAAAACGGAAACTGGA
 TGGAAATTTTATGCTGTCAAAGTGTACAGAAAAAATAGTTCTCAACAGAAAAGAGCAAAAACATATT
 ATGGCTGAACGCAATGTGCTCTTGAAAAATGTGAAGCACCCATTTTTGGTTGGATTGCACTATTCTTTCC
 AAACAAGTAAAAGCTTTATTTTGTCTGGATTTGTTAATGGAGGGGAGCTCTTCTTCCACCTCCAAAG
 GGAAAGGTCTTTTCTGAACCCAGAGCGAGGTTTTATGCCGCGGAGATCGCCAGTGCCTTGGGCTACCTG
 CACTCCATCAAAATAGTGTACAGAGACTTGAAGCCAGAAAAATCTTTTTGGATTCAATGGGACATGTTG
 TCTTAACGGATTTTGGACTTTGCAAAGAAGGAATCGCTATTTCTGATACCACCACAACCTTTTTGTGGTAC
 ACCAGAGTACCTTGACCTGAAGTAATCAGAAAAACAGCCCTATGACAACACTGTGGACTGGTGGTGCCTG
 GGCGCTGTTCTGTATGAGATGCTGTACGGGCTGCCTCCTTTTTACTGCCGAGATGTTGCTGAAATGTATG
 ACAATATTCTTACAAGCCCTTAAACTTGAGACCAGGAGTGAGTCTCACCGCCTGGTCCATTCTGGAAGA
 ACTTCTAGAAAAAACAGACAAAATCGACTTGGTGCCAAAGAAGACTTTCTTGAATCCAGAATCATCCT
 TTTTTGAGTCACTCAGCTGGACTGACCTCGTACAAAAAAGATTCCACCTCCATTTAACCTAATGTGG
 CTGGACCAGATGATATCAGAACTTTGATGCCGTCTTCACTGAAGAAACGGTTCCTATTAGTGTGTGT
 GTCTTCTGACTATTCCATCGTGAATGCCAGTGTCTGGAGGCAGATGATGCATTTGTTGGTTTTTCTTAC
 GCCCTCCTTCGAAGACTTATTTTTGTGA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	BC018363
Insert Size:	1290 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>BC018363</u> , <u>AAH18363</u>
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]