

Product datasheet for MR218325

Sgcz (NM_145841) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgcz (NM_145841) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sgcz
Synonyms:	C230085N17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218325 representing NM_145841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGATCCACGGACCTGGACATCCAGGAGCTCAAGATGACTCGAGAACAATACATACTAGCCACAC
AGCAGAACAACCTGCCGAGACCTGAAAACGCACAACCTCTACCCTGTGGGATTTATGGATGGCGAAAGAG
GTGCTTAACTTCTTTGCCTTCTGCTGTTGGTTACCATGATAGTTAACTTAGCCATGACAATATGGATA
TTGAAGGTTATGAATTTCACTGTGGATGGTATGGGAATCTGAGAGTCACCAAGAAGGGAATCCGACTTG
AAGGTATATCTGAGTTTCTACTACCATTGTATGTGAAAGAAATTCATTCCCGAAAGGACAGTCCATTGGT
CTTACAGTCTGACAGAAATGTAACAGTGAATGCAAGGAACCATATGGGGCAGCTCACTGGACAGCTGACA
GTCGGAGCTGAAGCTGTTGAGGCACAGTGCAAAAGATTGCAAGTGAAGCAAGTGAAGATGGCAGGGTGC
TGTTTTCTGCAGATGAAGATGAGATCACTATTGGGGCTGAGAAGCTAAAGGTTACAGGAAGTGAAGGAGC
AGTATTTGGACACTCTGTGGAACACCTCACATCAGAGCAGAGCCATCTCAAGACCTCAGGCTTGAATCA
CCAACCAGATCCTTAAAATGGAGGCTCCACGTGGGGTCCAGGTGAGCGCAGCTGCAGGTGACTTCAAGG
CTACCTGCAGGAAGGAGCTGCACTTACAGTCCACAGAAGGGGAGATATTTTTAAATGCAGATTCAATCCG
GCTGGGAAATCTACCAATCGGTTCTTCTTCTTCAACCAGCTCCTCAAATCTCGACAGACAGTGTAT
GAACTGTGCGTCTGCCCAATGGCAAACCTACCTTTCTCCAGCTGGGGTAGGCTCCACCTGTGAGTCCA
GTAGTAGCATTGCTTGTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218325 representing NM_145841
Red=Cloning site Green=Tags(s)

MDRSTDLDIQELKMTREQYILATQQNNLPRPENAQLYPVGIYGWRKRCLYFFVLLLLVTMIVNLAMTIWI
 LKVMNFTVDGMGNLRVTKKIRLEGISEFLLPLVYKEIHSRKDSPLVLQSDRNVTVNARNHMGQLTGQLT
 VGAEAVEAQCKRFEVRASEDGRVLFSADEDEITIGAELKVTGTGEGAVFGHSVETPHIRAEPSQDLRLES
 PTRSLKMEAPRGVQVSAAGDFKATCRKELHLQSTEGEIFLNADSIRLGNLPIGSFSSSTSSNSRQTVY
 ELCVCPNGKLYLSPAGVGSTCQSSSSICLWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9022_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145841

ORF Size: 933 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_145841.2](#), [NP_665840.2](#)

RefSeq Size: 2389 bp

RefSeq ORF: 936 bp

Locus ID: 244431

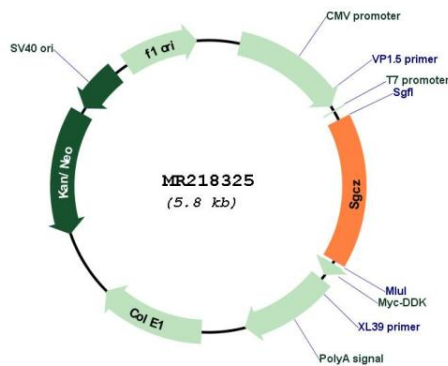
UniProt ID: [Q8BX51](#)

Cytogenetics: 8 A4

MW: 34.9 kDa

Gene Summary: Component of the sarcoglycan complex, a subcomplex of the dystrophin-glycoprotein complex which forms a link between the F-actin cytoskeleton and the extracellular matrix. May play a role in the maintenance of striated muscle membrane stability.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218325