

Product datasheet for **RC215543**

SGCZ (NM_139167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGCZ (NM_139167) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGCZ
Synonyms:	ZSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215543 representing NM_139167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGATCAACGAACCTGGACATTGAGGAGCTCAAGATGACACGAGAACAATACATACTAGCAACCC
 AACAGAATAACCTGCCAAGGACTGAGAATGCACAACCTTACCCAGTGGGAATTTATGGATGGCGAAAGAG
 GTGCTTAACTTCTTTGCTCTTCTGCTGTTGGTTACCATGATAGTTAACTTAGCCATGACAATATGGATA
 TTGAAAGTTATGAATTTCACTGTGGATGGTATGGGAAATCTGAGAGTCACCAAGAAGGGAATCCGACTTG
 AAGGTATATCTGAGTTTCTACTTCCATTGTATGTGAAAGAAATTCATTCTCGAAAGGATAGTCCGCTGGT
 CTTACAGTCTGACAGGAATGTCACAGTGAATGCAAGAAATCACATGGGGCAGTTAACCGGACAGCTGACC
 ATAGGAGCTGATGCTGTGGAAGCTCAGTGTAAAAGATTTGAAGTGAGAGCCAGTGAAGATGGCAGGGTGC
 TGTTTTCTGCAGATGAAGATGAGATTACCATTTGGGGCTGAAAAGCTGAAAGTTACAGGCACTGAAGGAGC
 CGTATTTGGGCACTCTGTGGAGACGCCGCACATCAGAGCAGAGCCATCCAAGATCTCAGGCTTGAATCA
 CCCACCAGATCCTTGATCATGGAAGCTCCCCGTGGGGTCCAGGTGAGTGTCTGCAGGAGACTTCAAGG
 CCACCTGCAGGAAGGAGCTCCATCTGCAATCTACAGAAGGGGAGATATTTTAAATGCAGAGACAATCAA
 GCTGGGAAATCTACCAACTGGCTCCTTCTCATCTTCTTACCCAGCTCCTCAAGTTCTCGACAGACAGTG
 TATGAAGTCTGCGTCTGCCCCAATGGCAAACCTTACCTTTCTCCAGCAGGAGTAGGTTCCACTTGTGAGT
 CCAGTAGCAACATCTGCCTGTGGAGC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC215543 representing NM_139167
 Red=Cloning site Green=Tags(s)

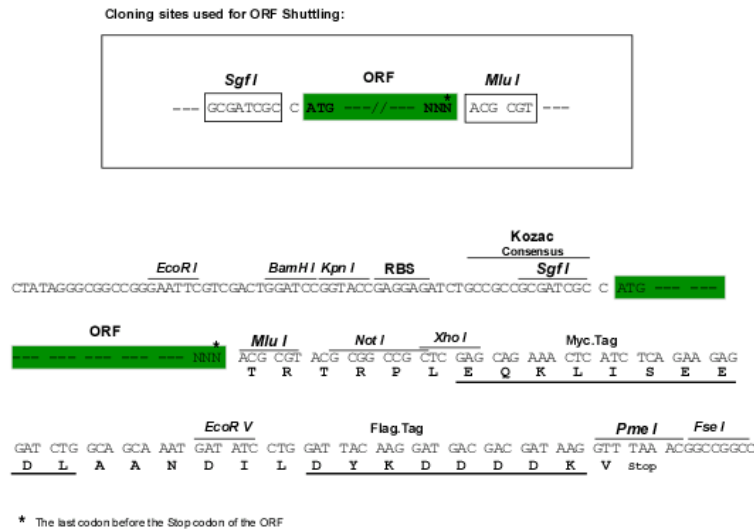
MDRSTNLDIEELKMTREQYILATQNNLPRTENAQLYPVGIYGWRKRCLYFFVLLLLVTMIVNLAMTIWI
 LKVMNFTVDGMGNLRVTKKIGIRLEGISEFLPLVYKEIHSRKDSPLVLQSDRNVTVNARNHMGQLTGQLT
 IGADAVEAQCKRFEVRASEDGRVLFSADEDEITIGAELKVTGTGAVFGHVSVEPHIRAEPSQDLRLS
 PTRSLIMEAPRGVQVSAAGDFKATCRKELHLQSTEGEIFLNAETIKLGNLPTGSFSSSSPSSSSSRQTV
 YELCVCPNGKLYLSPAGVGSTCQSSSNICLWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8012_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139167

ORF Size: 936 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_139167.4](#)

RefSeq Size: 2178 bp

RefSeq ORF: 939 bp

Locus ID: 137868

UniProt ID: [Q96LD1](#)

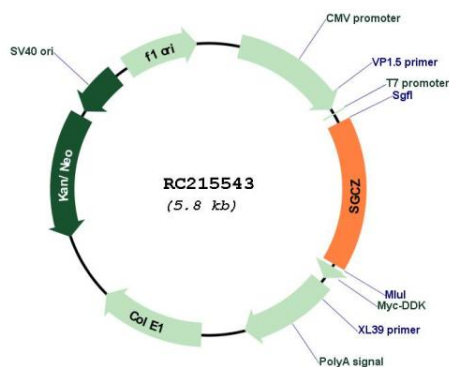
Cytogenetics: 8p22

Protein Families: Transmembrane

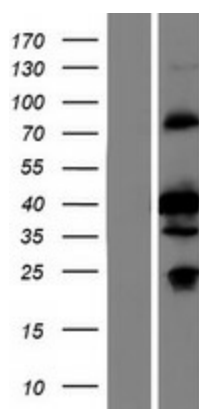
MW: 34.3 kDa

Gene Summary: The zeta-sarcoglycan gene measures over 465 kb and localizes to 8p22. This protein is part of the sarcoglycan complex, a group of 6 proteins. The sarcoglycans are all N-glycosylated transmembrane proteins with a short intra-cellular domain, a single transmembrane region and a large extra-cellular domain containing a carboxyl-terminal cluster with several conserved cysteine residues. The sarcoglycan complex is part of the dystrophin-associated glycoprotein complex (DGC), which bridges the inner cytoskeleton and the extra-cellular matrix. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215543



Western blot validation of overexpression lysate (Cat# [LY408370]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215543 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).