

## Product datasheet for RC202118

### Serglycin (SRGN) (NM\_002727) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serglycin (SRGN) (NM_002727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serglycin
Synonyms:	PPG; PRG; PRG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202118 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGTCTGGCTCTTGCCCTCATCCTGGTTCTGGAATCCT  
 CAGTTCAAGGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCAGACAGTAATTCTGC  
 AAAGTGCCTTGAAGAAAAAGGACCAATGTTGAACTACTTCCAGGTGAATCCAACAAGATCCCCGCTCG  
 AGGACTGACCTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTCCCACTTTCTGAGGACTACT  
 CTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCTAACGGAAATGGA  
 ACAGGATTACCAACTAGTAGACGAAAGTATGCTTCCATGACAACCTTAGGTCTCTTGACAGGAATCTG  
 CCCTCAGACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC202118 protein sequence Red=Cloning site Green=Tags(s)
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MMQKLLKCSRLVLALALILVLESSVQGYPTQRARYQWVRNPDNSANCLEEKGPMFELLPGESNKIPRL  
 RTDLFPKTRIQDLNRIPLSEDYSGSGFGSGSGSGSGSGLTEMEQDYQLVDESDFHDLNLSLDRLN  
 PSDSQDLGQHGLEDFML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6012_c06.zip">https://cdn.origene.com/chromatograms/mk6012_c06.zip</a>
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_002727

ORF Size: 474 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\\_002727.1](#)

RefSeq Size: 1270 bp

RefSeq ORF: 477 bp

Locus ID: 5552

UniProt ID: [P10124](#)

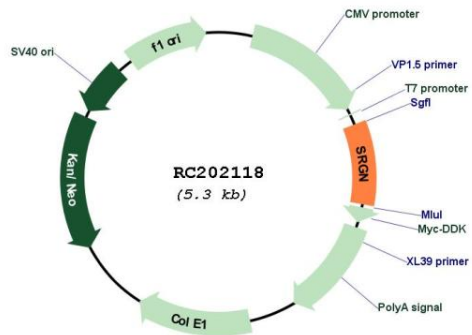
Cytogenetics: 10q22.1

Domains: Serglycin

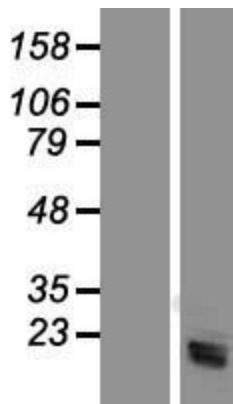
MW: 17.6 kDa

**Gene Summary:** This gene encodes a protein best known as a hematopoietic cell granule proteoglycan. Proteoglycans stored in the secretory granules of many hematopoietic cells also contain a protease-resistant peptide core, which may be important for neutralizing hydrolytic enzymes. This encoded protein was found to be associated with the macromolecular complex of granzymes and perforin, which may serve as a mediator of granule-mediated apoptosis. Two transcript variants, only one of them protein-coding, have been found for this gene. [provided by RefSeq, Jul 2010]

## Product images:



Circular map for RC202118



Western blot validation of overexpression lysate (Cat# [LY419143]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202118 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).