

Product datasheet for **SC118445**

Serglycin (SRGN) (NM_002727) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serglycin (SRGN) (NM_002727) Human Untagged Clone
Tag:	Tag Free
Symbol:	Serglycin
Synonyms:	PPG; PRG; PRG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118445 sequence for NM_002727 edited (data generated by NextGen Sequencing)

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ATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGCCTGGCTCTTGCCCTCATCCTGGTT
CTGGAATCCTCAGTTCAAGGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCCTGC
AATCCAGACAGTAATTCTGCAAACCTGCCTTGAAGAAAAAGGACCAATGTTTCGAACTACTT
CCAGGTGAATCCAACAAGATCCCCCGTCTGAGGACTGACCTTTTTCCAAAGACGAGAATC
CAGGACTTGAATCGTATCTTCCCACTTTCTGAGGACTACTCTGGATCAGGCTTCGGCTCC
GGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCCTAACGAAATGGAACAGGATTAC
CAACTAGTAGACGAAAGTGATGCTTTCCATGACAACCTTAGGTCTTTGACAGGAATCTG
CCCTCAGACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTATAA
```

Clone variation with respect to NM_002727.2
92 g=>a



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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_002727 unedited
AATTGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGAGTTGGC
GTGCAGCTGGGAGAGCTAGACTAAGTTGGTCATGATGCAGAAGCTACTCAAATGCAGTCG
GCTTGTCTGGCTCTTGCCTCATCCTGGTTCTGGAACTCCTCAGTTCAAGGTTATCCTAC
GCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCAGACAGTAATTCTGCAAATGCCT
TGAAGAAAAAGGACCAATGTTCGAACTACTTCCAGGTGAATCCAACAAGATCCCCCGTCT
GAGGACTGACCTTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTTCCCCTTTC
TGAGGACTACTCTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAG
TGCTTCCCTAACGAAATGGAACAGGATTACCAACTAGTAGACGAAAGTATGCTTTTCCA
TGACAACCTTAGGTCTCTTGACAGGAATCTGCCCTCAGACAGCCAGGACTTGGGTCAACA
TGGATTAGAAGAGGATTTTATGTTATAAAAGAGGATTTTCCCACCTTGACACCAGGCAAT
GTAGTTAGCATATTTTATGTACCATGGTATATGATTAATCTTGGGACAAAGAATTTTAT
AGAAATTTTTAACATCTGAAAAAGAAGCTTAAGTTTTATCATCTTTTTTTTCTCATGA
ATTCTTAAAGGATTATGCTTTAATGCTGNTATCTATCTTATTGTTCTTGAATACTGCA
TTTTTTGGTATCATGTTCAACCAACATCATTATGAAATTAATTAGATTCCCATGGCCATA
AAATGGCTTTAAGAAATATATATATTTTTAAAGTAGCTTGAAAGCCAAATGGCAGGTATA
TTT
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_002727 unedited
TTGCTGCTNTATATATAGTAACATTTGGAAATACACANATATCCAGNAAAAAAGGTAA
AGCAGTATGAGGTATTGACAGCACAACTGTGTTTTAATTTGGGAGTTAATTTGGGTGTT
ATGTAACAGCAATCATACTTGTAGACAAACACATCCACTAGCTCTGCAAACACATTCAAA
GGTAATAGTATATAGTACTCCACCCTGTAATAATGTCAAATACCCCCACTCTACAAA
TTCCTGTGTTTTATTATTTTTTTTTTTGTTTTATAAGAAAAGGGGCATATCATTATAAT
TCACAATCCAAGTCAGAGTCTTAATTTAGGTATGAAATATTACCTGCCAATTTGCTTCTC
AAGCTACTTTAAAAATATATATATATTCTTTAAAGCCATTTTATGGCCATGGGAATCTAA
TTAATTTTATAATGATGTTGGTTGAACATGATACCAAAAAATGCAGGTATTTTCAAGAAC
AATAAGATAGATAACAGCATTAAAGCATAATCCTTTAAGAATTCATGAGAAAAAAAAGGA
TGATAAAACTTAAGCTTCTTTTTCAGATGTTTTAAAAATTTCTATAAAAATCTTTGTCCCA
AGATTAATCATATAACCATGGTACATAAAAATATGCTAACTACATTGCCTGGTGTCAAGGT
GGGAAAACTCCTTTTTATAACATAAAAATCCTCTTCTAATCCATGTTGACCCAAGTCCTGG
CTGTCTGNAGGCAGATTCTGTCAAGAGACCTAAGGTTGTCATGGAAAGCATCACTTTCCG
GCTACTAGNTGGTAATCCTGTTCCATTTTCGTTAGGAGCCACTCCAGTCTGACCANAG
CCGAGCCGGAGCCGAAGCTGATCANNAGTAGTCTCAGAAGTGGGAAGATCGATTCAAGTC
TGGATTTCCGGCTTGAAAAGGCAGTCTCAACGGGGAAGTGTGGATCACTGNAAGAGTC
GACATGGCCTTTTCTTAAGGGA
```

Restriction Sites:

NotI-NotI

ACCN:

NM_002727

Insert Size:

1270 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_002727.2](#), [NP_002718.2](#)

RefSeq Size: 1270 bp

RefSeq ORF: 477 bp

Locus ID: 5552

UniProt ID: [P10124](#)

Cytogenetics: 10q22.1

Domains: Serglycin

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]

Transcript Variant: This variant (1) lacks an exon in the 5' UTR compared to variant 2. Both variants 1 and 3 encode isoform 1.