

Product datasheet for **SC119963**

Protein S (PROS1) (NM_000313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein S (PROS1) (NM_000313) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein S
Synonyms:	PROS; PS21; PS22; PS23; PS24; PS25; PSA; THPH5; THPH6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119963 sequence for NM_000313 edited (data generated by NextGen Sequencing)

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ATGAGGGTCTGGGTGGGCGCTGCGGGGCGCTGCTGGCGTGTCTCCTCCTAGTGCTTCCC
GTCTCAGAGGCAAACCTTTTTGTCAAAGCAACAGGCTTACAAGTCTGGTTAGGAAGCGT
CGTGCAAATTCCTTACTTGAAGAAACCAACAGGGTAATCTTGAAAGAGAATGCATCGAA
GAACTGTGCAATAAAGAAGAAGCCAGGGAGGCTTTGAAAATGACCCGGAACCGGATTAT
TTTTATCCAAAATACTTAGTTTGTCTTCGCTCTTTTCAAACCTGGGTTATTCACGTGCTGCA
CGTCAGTCAACTAATGCTTATCCTGACCTAAGAAGCTGTGTCAATGCCATTCCAGACCAG
TGTAGTCTCTGCCATGCAATGAAGATGGATATATGAGCTGCAAAGATGGAAAAGCTTCT
TTTACTTGCACTTGTAACCAGGTTGGCAAGGAGAAAAGTGAATTTGACATAAATGAA
TGCAAAGATCCCTCAAATATAAATGGAGGTTGCAGTCAAATTTGTGATAATACACCTGGA
AGTTACCACTGTTCTGTAAAAATGGTTTTGTTATGCTTTCAAATAAGAAAAGATTGTAAA
GATGTGGATGAATGCTCTTGAAGCCAAGCATTGTGGCACAGCTGTGTGCAAGAACATC
CCAGGAGATTTTGAATGTGAATGCCCCGAAGGCTACAGATATAATCTCAAATCAAAGTCT
TGTGAAGATATAGATGAATGCTCTGAGAACATGTGTGCTCAGCTTGTGTCAATTACCCT
GGAGGTTACACTTGCTATTGTGATGGGAAGAAAAGGATTCAAACCTTGCCCAAGATCAGAAG
AGTTGTGAGGTTGTTTCAGTGTGCCTTCCCTTGAACCTTGACACAAAGTATGAATTACTT
TACTTGGCGGAGCAGTTTGCAGGGGTTGTTTTATATTTAAAAATTCGTTTGCCAGAAATC
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GCAGAATCTATCGATCACTCAGCGTGGCTCCTGATTGCACTTCGTGGTGGAAAAGATTGAA
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GACTCCACCTCTGAAAAATCACAGGATATTCTGTTATCTGTTGAAAATACTGTAATATAT
CGGATACAGGCCCTAAGTCTATGTTCCGATCAACAATCTCATCTGGAATTTAGAGTCAAC
AGAAACAATCTGGAGTTGTCGACACCACTTAAAAATAGAAACCATCTCCATGAAGACCTT
CAAAGACAACCTGCCGTCTTGGCAAAGCAATGAAAGCAAAAAGTGGCCACATACCTGGGT
GGCCTTCCAGATGTTCCATTGAGTCCACACCAAGTGAATGCCTTTTATAATGGCTGCATG
GAAGTGAATTAATGGTGTACAGTTGGATCTGGATGAAGCCATTTCTAAACATAATGAT
ATTAGAGTCACTCATGTCCGTGAGTTTGGAAAAGACAAAGAATTCTTAA

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Clone variation with respect to NM_000313.3
 2001 a=>g

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000313 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGGGTCGCTGGCGCCG CCGCGCAGCACGGCTCAGACCGAGGCGCACAGGCTCGCAGCTCCGCGGCGCCTAGCGCTC CGGTCCCCGCGCGACGCGCCACCGTCCCTGCCGGCGCCTCCGCGCGCTTCGAAATGAGG GTCCTGGTGGGCGCTGCGGGGCGCTGCTGGCGTGTCTCTCCTAGTGCTCCCGTCTCA GAGGCAAACTTTTTGTCAAAGCAACAGGCTTACAAGTCCTGGTTAGGAAGCGTCGTGCA AATTCTTTACTTGAAGAAACCAACAGGTAATCTTGAAAGAGAATGCATCGAAGAACTG TGCATAAAGAAGAAGCCAGGGAGGTCTTGAAAATGACCCGAAACGGATTATTTTTAT CCAAAATACTTAGTTTGTCTTCGCTCTTTTCAAAGTGGTTATTCACTGCTGCACGTCAG TCAACTAATGCTTATCCTGACCTAAGAAGCTGTGTCAATGCCATTCCAGACCAGTGTAGT CCTCTGCCATGCAATGAAGATGGATATATGAGCTGCAAAGATGGAAAAGCTTCTTTTACT TGCACCTGTAACCAGGTTGGCAAGGAGAAAAGTGAATTTGACATAAATGAATGCAAA GATCCCTCAAATATAAATGGAGTTGCAGTCAAATTTGTGATAATACACCTGGAAGTTAC CACTGTTCCCTGTAATAATGGTTTTGTTATGCTTTCCAATAAGAAAGATTGTAAGATGTG GATGAATGCTCTTGAAGCCAAGCATTTGTGGCACAGCTGTGTGCAAGACATCCCCAGAG ATTTTGATGTGAATGCCCGAAGCTACAGAATNATCTCAAACANAGTCTTGTGAAGAATA GATGATGCTCTGAGACATGTGTGCTCAGCTTTGGTCACTC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000313 unedited GGGGAANNNGGGGCTACTGTGNACCGCGNCCGCTATTTNANGATCGAGTTTTTTTTTTT TTTTTTTAAATTCATATTTAATAGACCACCATCTCTTCTGCCTTCATCAGGAAAAAAC AAAACATAAACAAAATAGTATCTGCCTATGATTAATAGTATTTAATTACACGCACTTTT GTTTGAGTTTACTTCTTCTGCTTTCTGAAAAAACATAGGTATTTAGACACTAGTTCATGA TGATAAAATTAATAATTTAGTTTTACAAACAAAATTTGAAACTGTCATTTGTAGGAAAAAA ATTCAAATTTAAATTTGTTATTTTTCACTATTCTTAGATAGCAAGAGAAGTAAGAATTTT TTTACTGTGATTTATATCACAACAGAAATTTTTTTTCTTGACAAAAGGACCTTTTTAAAAA TCCCAGAAAAGGACCACAAAATAATCAAAGACTGCACATTGTAATAAAACCCCTTCAGCT GGTATTGAAACATAAGTATTTTACACACAGAGAAAAGGTATTATAAGCAGAGAAAAGAT GCCTTAAAAATCTTTGTCTTTTTTCCAACGACGACATGAGTGTGAGCTCTATTATCATATGT TTAAAATGGGTTTATCAGATCCAACGTACACCATAAAATTCACCTCCATGCCACCCTTAT AAAGGATTCAGTGGGGTGGACTTGATGGACATCTGGAAGGCCCCCAAGTTTGGGGCCCT TTTGTTTTATTGGTTGGCCAAAACGGAATGGGTTTTAAGGTCTTATGGGAAAGGGTT CTTTTTTAAGGGGGGCCAAACCCCAAATGTTCTGGTGGCCTTAAATCCAAAAAAAATG GTGGTCGAAAAAATACCTAGGGCCGTTTCCAATTTTTAAAGTTTTTTCAACAAAAAAA AATCCTGGATTTTTAAAGGGGGGTCCCCAAGGACCAACAAGGGCCCTGGTTTTCCCAA ACCAGGGGGTTAAACACGGGCGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000313
Insert Size:	2920 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:	NM_000313.1 , NP_000304.1
RefSeq Size:	3309 bp
RefSeq ORF:	2031 bp
Locus ID:	5627
UniProt ID:	P07225
Cytogenetics:	3q11.1
Domains:	GLA, LamG, EGF_CA, EGF, EGF
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>