

Product datasheet for **SC126148**

Semenogelin I (SEMG1) (NM_198139) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semenogelin I (SEMG1) (NM_198139) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semenogelin I
Synonyms:	CT103; MGC14719; RATSVP1IA; semenogelin I; SEMG; seminal vesicle protein, secretion 2; seminal vesicle secretory protein 2; SGI; SVPIIA; Svs2; Svs2p2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_198139 edited
 AGACAAGGTTTTCCAAGCAAGATGAAGCCCAACATCATCTTTGTACTTTCCCTGCTCCTC
 ATCTTGGAGAAGCAAGCAGCTGTGATGGGACAAAAAGGTGGATCAAAAGGCCGATTACCA
 AGTGAATTTTCCAATTTCCACACGGACAAAAGGGCCAGCACTATTCTGGACAAAAGGC
 AAGCAACAACTGAATCCAAAGGCAGTTTTTCTATTCAATACACATATCATGTAGATGCC
 AATGATCATGACCAGTCCCGAAAAAGTCAGCAATATGATTTGAATGCCCTACATAAGACG
 ACAAATCACAACGACATCTAGGTGGAAGTCAACAACCTGCTCCATAATAAACAAGAAGGC
 AGAGACCATGATAAATCAAAAGGTCATTTTCACAGGGTAGTTATACACCATAAAGGAGGC
 AAAGCTCATCGTGGGACAAAAATCCTTCTCAAGATCAGGGGAATAGCCCATCTGGAAAG
 GGAATATCCAGTCAATATTCAAACACAGAAGAAAGGCTGTGGTTCATGGACTAAGTAA
 GAACAACTTCCGTCTCTGGTGCACAAAAGGTAGAAAACAAGGCGGATCCCAAAGCAGT
 TATGTTCTCCAACTGAAGAGCTAGTAGCTAACAAACAACACGTGAGACTAAAAATTCT
 CATCAAAATAAAGGGCATTACCAAATGTGGTTGAAGTGAGAGAGGAACATTCAAGTAA
 GTACAAACCTCACTCTGTCTGCGCACCAAGACAACTCCAACATGGATCCAAAGACATT
 TTTTCTACCCAAGATGAGCTCCTAGTATATAACAAGAATCAACACCAGACAAAAATCTC
 AATCAAGATCAACAGCATGGCCGAAAGGCAAAATAAATATCATACCAATCTTCAAGTACG
 GAAGAAAGACGACTCCACTATGGAGAAAATGGTGTGCAGAAAGATGTATCCCAACGCAGT
 ATTTATAGCCAACTGAAAAGCTAGTAGCAGGCAAGTCTCAAATCCAGGCACCAAATCCT
 AAGCAAGAGCCATGGCATGGTGAACGCAAAAAGGAGAGTCTGGCCAATCTACAAATAGA
 GAACAAGACCTACTCAGTCATGAACAAAAGGCAGACACCAACATGGATCTCATGGGGGA
 TTGGATATTGTAATTATAGAGCAGGAAGATGACAGTGATCGTCATTTGGCACAACATCTT
 AACACGACCAAAACCCATTATTTACATAAACCTACCATTGCGTAACCATGTGAAAGGAT
 GGACCAATCAAGGTGTCAGTTGACCTCAGTGAATTCTGTGATGTTTCTGAGATGCAGA
 CTCCCGTGTAGTTTCAGATTCTTGGTCCATGGATGACACCACCTGCCCATGCTTCTCTGA
 ATTAGGCTTTCCTAACCTGAAGCGCCTTCAAACCTCCAATAAAGAGATCATTTTTCTGCTT
 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_198139 unedited
 NNGGTGGAGTCAGACTTTGTATACGACTCATATAGGCAGGCCCGAATTCGCCATTACGG
 CCGGGGAGACAAAGTTTTCCAAGCAAGATGAAGCCCAACATCATCTTTGTACTTTCCCTG
 CTCTCATCTTGGAGAAGCAAGCAGCTGTGATGGGACAAAAGGTGGATCAAAAGGCCGA
 TTACCAAGTGAATTTTCCAATTTCCACACGGACAAAAGGGCCAGCACTATTCTGGACAA
 AAAGGCAAGCAACAACTGAATCCAAAGGCAGTTTTTCTATTCAATACACATATCATGTA
 GATGCCAATGATCATGACCAGTCCCGAAAAAGTCAGCAATATGATTTGAATGCCCTACAT
 AAGACGACAAAATCACAACGACATCTAGGTGGAAGTCAACAACCTGCTCCATAATAAACA
 GAAGGCAGAGACCATGATAAATCAAAAGGTCATTTTCACAGGGTAGTTATACACCATAAA
 GGAGGCAAAAGCTCATCGTGGGACAAAAATCCTTCTCAAGATCAGGGGAATAGCCCATCT
 GGAAGGGGAATATCCAGTCAATATTCAAACACAGAAGAAAGGCTGTGGTTCATGGACTA
 AGTAAAGAACAACTTCCGTCTCTGGTGCACAAAAGGTAGAAAACAAGGCGGATCCCAA
 AGCAGTTATGTTCTCCAACTGAAGAGCTAGTAGCTAACAAACAACAACGTGAGACTAAA
 AATTCTCATCAAAATAAAGGGCATTACCAAATGTGGTTGAAGTGAGAGAGGAACATTC
 AAGTAAAGTACAAACCTCACTCTGTCTGCGCACCAAGACAACTCCAACATGGGATCCA
 AAGACATTTTTTCTACCCAAGATGAGCTCCTAGTATC

Restriction Sites: NotI-NotI

ACCN: NM_198139

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:	<u>NM_198139.1, NP_937782.1</u>
RefSeq Size:	1469 bp
RefSeq ORF:	1209 bp
Locus ID:	6406
Cytogenetics:	20q13.12
Protein Families:	Secreted Protein
Gene Summary:	<p>The protein encoded by this gene is the predominant protein in semen. The encoded secreted protein is involved in the formation of a gel matrix that encases ejaculated spermatozoa. This preproprotein is proteolytically processed by the prostate-specific antigen (PSA) protease to generate multiple peptide products that exhibit distinct functions. One of these peptides, Sgl-29, is an antimicrobial peptide with antibacterial activity. This proteolysis process also breaks down the gel matrix and allows the spermatozoa to move more freely. This gene and another similar semenogelin gene are present in a gene cluster on chromosome 20. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame segment compared to variant 1. The resulting isoform (b) is shorter but has the same N- and C-termini compared to isoform a.</p>