

Product datasheet for **SC303261**

Semenogelin I (SEMG1) (NM_003007) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semenogelin I (SEMG1) (NM_003007) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semenogelin I
Synonyms:	CT103; dj172H20.2; SEMG; SGI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003007 edited
ATGAAGCCCAACATCATCTTTGTACTTTCCCTGCTCCTCATCTTGGAGAAGCAAGCAGCT
GTGATGGGACAAAAAGGTGGATCAAAAGGCCGATTACCAAGTGAATTTTCCCAATTTCCA
CACGGACAAAAGGGCCAGCACTATTCTGGACAAAAGGCAAGCAACAACTGAATCCAAA
GGCAGTTTTTCTATTCAATACACATATCATGTAGATGCCAATGATCATGACCAGTCCCGA
AAAAGTCAGCAATATGATTTGAATGCCCTACATAAGACGACAAAAACACAACGACATCTA
GGTGGAAAGTCAACAACCTGCTCCATAATAACAAGAAGGCAGAGACCATGATAAATCAAAA
GGTCATTTTACAGGGTAGTTATACACCATAAAGGAGGCAAAAGCTCATCGTGGGACACAA
AATCCTTCTCAAGATCAGGGGAATAGCCCATCTGGAAAGGGAATATCCAGTCAATATTCA
AACACAGAAGAAAGGCTGTGGTTCATGGACTAAGTAAAGAACAACTTCCGTCTCTGGT
GCACAAAAGGTAGAAAACAAGGCGGATCCCAAAGCAGTTATGTTCTCCAACTGAAGAG
CTAGTAGCTAACAAACAACCTGAGACTAAAAATTCTCATCAAATAAAGGGCATTAC
CAAATGTGGTTGAAGTGAGAGAGGAACATTCAAGTAAAGTACAAACCTCACTCTGTCCT
GCGCACCAAGACAACTCCAACATGGATCCAAAGACATTTTTTCTACCCAAGATGAGCTC
CTAGTATAACAAGAATCAACACCAGACAAAAATCTCAATCAAGATCAACAGCATGGC
CGAAAGGCAAATAAATATCATACCAATCTTCAAGTACAGAAGAAAGACGACTCCACTAT
GGAGAAAATGGTGTGCAGAAAGATGTATCCCAAAGCAGTATTTATAGCCAACTGAAGAG
AAAGCACAGGGCAAGTCTCAAAAACAGATAACAATTCAGTCAAGAGCAAGAGCATAGC
CAAAAGGCAAATAAATATCATACCAATCTTCAAGTACGGAAGAAAGACGACTCCACTAT
GGAGAAAATGGTGTGCAGAAAGATGTATCCCAAAGCAGTATTTATAGCCAACTGAAAAG
CTAGTAGCAGGCAAGTCTCAAAATCCAGGCACCAATCCTAAGCAAGAGCCATGGCATGGT
GAAAATGCAAAAGGAGAGTCTGGCCAATCTACAAATAGAGAACAAGACCTACTCAGTCAT
GAACAAAAGGCAGACACCAACATGGATCTCATGGGGATTGGATATTGTAATTATAGAG
CAGGAAGATGACAGTGATCGTCATTTGGCACAACATCTTAAACACGACCGAAACCCATTA
TTTACATAA

Restriction Sites: Please inquire



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ACCN:	NM_003007
Insert Size:	1400 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_003007.2</u> , <u>NP_002998.1</u>
RefSeq Size:	1649 bp
RefSeq ORF:	1389 bp
Locus ID:	6406
UniProt ID:	<u>P04279</u>
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 (1) represents the longer transcript and encodes the longer isoform (a).</p>