

## Product datasheet for **SC303262**

### Semenogelin II (SEMG2) (NM\_003008) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Semenogelin II (SEMG2) (NM_003008) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semenogelin II
Synonyms:	SGII
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003008 edited  
AAGATTTTTCAAGCAAGATGAAGTCCATCATCCTCTTTGTCTTTCCCTGCTCCTTATCT  
TGGAGAAGCAAGCAGCTGTGATGGGACAAAAAGGTGGATCAAAAGGCCAATTGCCAAGCG  
GATCTTCCCAATTTCCACATGGAAAAAGGGCCAGCACTATTTTGGACAAAAAGACCAAC  
AACATACTAAATCCAAAGGCAGTTTTTCTATTCAACACACATATCATGTAGACATCAATG  
ATCATGACTGGACCCGAAAAAGTCAGCAGTATGATTTGAATGCCCTACATAAGGGCAGAA  
AATCAAAACAACACCTAGGTGGAAGTCAACAACCTGCTCAATTATAAACAAGAAGGCAGAG  
ACCATGATAAATCAAAAGGTCATTTTCCATGATAGTTATACATATAAAGGAGGCCAAG  
CTCATCATGGGACACAAAATCCTTCTCAAGATCAGGGGAATAGCCCATCTGGAAAGGGAT  
TATCCAGTCAATGTTCAAACACAGAAAAAGGCTATGGGTTTATGGACTAAGTAAAGAAC  
AAGCTTCAGCCTCTGGTGCACAAAAAGGTAGAACAAGGTGGATCCCAAAGCAGTTATG  
TTCTCAAACCTGAAGAACTAGTAGTTAACAAACAACAACGTGAGACTAAAAATTCTCATC  
AAAATAAAGGGCATTACCAAAATGTGGTTGACGTGAGAGAGGAACATTCAAGTAAACTAC  
AAACTTCACTCCATCCTGCACATCAAGACAGACTCCAACATGGACCCAAAGACATTTTTTA  
CTACCCAAGATGAGCTCCTAGTATATAACAAGAATCAACACCAGACAAAAATCTCAATC  
AAGATCAAGAGCATGGCCGGAAGGCACATAAAATATCATACCCGCTTTCACGTACAGAAG  
AAAGACAACCTTACCATGGAGAAAAAGTGTACAGAAAGATGTATCCAAAGGCAGCATT  
CTATCCAACTGAAGAGAAAAATACATGGCAAGTCTAAAACCAGGTAACAATTCATAGTC  
AAGATCAAGAGCATGGCCATAAGGAAAAATAAATATCATACCAATCTTCAAGTACAGAAG  
AAAGACATCTCAACTGTGGAGAAAAGGGCATCCAGAAAGGTGTATCCAAAGGCAGTATTT  
CGATCCAACTGAAGAGCAAATACATGGCAAGTCTAAAACCAGGTAAGAATTCCTAGTC  
AAGCTCAAGAGTATGGCCATAAGGAAAAATAAATATCATACCAATCTTCAAGTACAGAAG  
AAAGACGTCTCAACAGTGGAGAAAAGGATGTACAGAAAGGTGTATCCAAAGGCAGTATTT  
CTATCCAACTGAAGAGAAAAATACATGGCAAGTCTAAAACCAGGTAACAATTCCTAGTC  
AAGATCAAGAGCATGGCCATAAGGAAAAATAAATGTCATACCAATCTTCAAGTACAGAAG  
AAAGACGACTCAACTATGGAGGAAAAGAGCACGCAGAAAGATGTATCCCAAAGCAGTATTT  
CTTTCCAAATTGAAAAGCTAGTAGAAGGCAAGTCTCAATCCAGACACCAATCCTAATC  
AAGATCAATGGTCTGGCCAAAATGCAAAAGGAAAGTCTGGTCAATCTGCAGATAGCAAAC  
AAGACCTACTCAGTCATGAACAAAAAGGCAGATACAAACAGGAATCCAGTGTGACATA  
ATATTGTAATTACTGAGCATGAGGTTGCCAAGATGATCATTTGACACAACAATAAATG  
AAGACAGAAATCCAATATCTACATAGCCCTGTTGCTTAGCAACCACTTGAAAAGTGGAC  
CAATAGCAAGGTGTACCCGACCTCAGTGAAGTCTTTGATGTTTTCTGAGAGGCAGACTCC  
CATGTGGTCCCAGATCCTTGGTCCATGGATGACACCACCTTCCCATGCTTCTTGCATTA  
GGCTTTCTAAACCCGGAGCCCTTCAAACCTTCCAATAAAGGGATCATTTTCTGCTTTAA  
ACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_003008

**Insert Size:** 2000 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:**

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\\_003008.2](#), [NP\\_002999.1](#)

**RefSeq Size:** 1982 bp

**RefSeq ORF:** 1749 bp

**Locus ID:** 6407

**UniProt ID:** [Q02383](#)

**Cytogenetics:** 20q13.12

**Protein Families:** Secreted Protein

**Gene Summary:** The secreted protein encoded by this gene is involved in the formation of a gel matrix that encases ejaculated spermatozoa. Proteolysis by the prostate-specific antigen (PSA) breaks down the gel matrix and allows the spermatozoa to move more freely. The encoded protein is found in lesser abundance than a similar semenogelin protein. An antibacterial activity has been found for a antimicrobial peptide isolated from this protein. The genes encoding these two semenogelin proteins are found in a cluster on chromosome 20. [provided by RefSeq, Jan 2015]