OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC203322L2V

Semenogelin I (SEMG1) (NM_198139) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Semenogelin I (SEMG1) (NM_198139) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Semenogelin I
Synonyms:	CT103; MGC14719; RATSVPIIA; semenogelin I; SEMG; seminal vesicle protein, secretion 2; seminal vesicle secretory protein 2; SGI; SVPIIA; Svs2; Svs2p2
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_198139
ORF Size:	1206 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203322).
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_198139.1, NP_937782.1
RefSeq Size:	1469 bp
RefSeq ORF:	1208 bp
Locus ID:	6406
Cytogenetics:	20q13.12
Protein Families:	Secreted Protein
MW:	45.3 kDa

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Gene Summary: 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, SgI-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]