

Table 1 : Genes present on respective sSMC, protein encoded and their function (<http://www.ncbi.nlm.nih.gov/pubmed/>).

Chromosome regions	Genes	Encoded proteins	Functions
6p11.2q12 (9Mb)	PRIM2	Primase	DNA replication
	GUSBL2	Glucuronidase	Unknown
	KHDRBS2	KH domain-containing, RNA-binding, signal transduction-associated protein 2	Signal transduction
	LGSN	Lengsin	Cataract disease
	PTP4A1	Tyrosine phosphatase type IVA	Regulatory roles in a variety of cellular processes
	PHF3	PHD finger protein 3	Unknown
	EYS	Protein eyes shut homolog isoform 1	Mutated in autosomal recessive retinitis pigmentosa
20p11.21 (3.3 Mb)	SSTR4	Somatostatin receptor 4	Inhibit the release of hormones and other secretory proteins
	THBD	Thrombomodulin	Activation of protein C and mutations are a cause of thromboembolic disease
	CD93	Complement component C1q receptor precursor	Intercellular adhesion and clearance of apoptotic cells
	NXT1	NTF2-related export protein 1	Encodes for a protein that is located in the nuclear envelope
	GZF1	GDNF-inducible zinc finger protein 1	Encodes for a protein that is located on kidneys
	CSTL1	Cystatin-like 1	Proteinase inhibitors found in human fluids and secretions
	CST9L	Cystatin 9-like	Tissue reorganization during early testis development
	CST11	Cystatin 11	Encodes for an epididymal-specific protein whose specific function has not been determined
	CST8	Cystatin 8	High tissue-specific expression in the reproductive tract suggesting roles in reproduction
	CST9	Cystatin 9	Hematopoietic differentiation or inflammation
	CST3	Cystatin C	Role in vascular disease. Mutation in this gene has been associated with amyloid angiopathy
	CST4, CST1, CST2, CST5	Cystatin S, cystatin SN, cystatin SA, cystatin D	Antibacterial and antiviral activity is present in saliva, tears and seminal plasma
	CST7	Cystatin F	Immune regulation
	LOC164380	-	Unknown
	GGTLC1	Gamma-glutamyltransferase light chain 1	Metabolism of glutathione
	C20orf39 (SYNDIG1)	Synapse differentiation inducing gene protein 1	Regulation of excitatory synapse development
	C20orf3	Adipocyte plasma membrane-associated protein	Highest levels in human liver, placenta and kidney
	ACSS1	Acetyl-coenzyme A synthetase 2-like, mitochondrial	Encodes for a mitochondrial acetyl-CoA synthetase enzyme
	VSX1	Visual system homeobox 1 isoform a	Regulation of the expression of the cone opsin genes in early development
	ENTPD6	Ectonucleoside triphosphate diphosphohydrolase 6	Mediate catabolism of extracellular nucleotides
	PYGB	glycogen oshosphorylase, brain form	Catalyzes the rate-determining step in glycogen degradation
	ABHD12	Monoacylglycerol lipase ABHD12 isoform a	Involved in neurotransmission, mood, appetite, pain appreciation, addiction behavior, and inflammation
	GIN51=PSF1	DNA replication complex GINS protein PSF1	Initiation of DNA replication in yeast and Xenopus egg extracts
NINL	Ninein-like protein	Unknown	
LOC284798, LOC100134868, C20orf191, NANP, ZNF337, FAM182B, FAM182A, NAPB	-	Unknown	