

Supplementary Table 3: Protein-coding and disease-causing genes present on the sSMCs.					
protein-coding disease-causing*	Case 2 - sSMC(X)		Case 3 - sSMC(3)		Case 4 - sSMC(17)
	96		55		40
	34		9		4
	PABPC1L2A	MSN	CADM2	PCNP	TOP3A
	P2RY4	CXorf49	VGLL3	ZBTB11	SMCR8
	ATRX	ATP7A	CHMP2B	RPL24	SHMT1
	ITGB1BP2	ACRC	POU1F1	CEP97	EVPLL
	ARR3	GJB1	HTR1F	NXPE3	LGALS9C
	CXorf65	HEPH	CGGBP1	NFKBIZ	FAM106A
	PGAM4	DMRTC1	ZNF654	ZPLD1	TBC1D28
	XIST	PABPC1L2B	C3orf38		ZNF286B
	PHKA1	PJA1	EPHA3		TVP23B
	SLC16A2	FAM155B	PROS1		PRPSAP2
	NAP1L2	DLG3	ARL13B		SLC5A10
	CXorf49B	RLIM	STX19		FAM83G
	UPRT	CHIC1	DHFR2		GRAP
	GDPD2	MIR223	NSUN3		LOC388436
	PIN4	BRAFP1	EPHA6		LOC79999
	STARD8	SNX12	ARL6		GRAPL
	NONO	RPS4X	CRYBG3		EPN2
	RAB41	MTMR8	RIOX2		B9D1
	HDAC8	FTX	GABRR3		MAPK7
	P2RY10	ZC3H12B	OR5AC2		MFAP4
	LAS1L	EDA2R	OR5H1		RNF112
	TAF9B	ASB12	OR5H14		SLC47A1
	ZMYM3	OTUD6A	OR5H15		ALDH3A2
	FLJ44635	ERCC6L	OR5H6		SLC47A2
	OGT	CXCR3	OR5H2		ALDH3A1
	LPAR4	EFNB1	OR5K4		ULK2
	INGX	KIAA2022	OR5K3		AKAP10
	TAF1	MAGEE1	OR5K1		SPECC1
	OPHN1	VSIG4	OR5K2		FAM106B
	PBDC1	NHSL2	CLDND1		LGALS9B
	YIPF6	COX7B	GPR15		CDRT15L2
	ZCCHC5	NLGN3	CPOX		CCDC144NL
	CDX4	FOXO4	ST3GAL6		USP22
	AWAT1	ZC4H2	DCBLD2		DHRS7B
	SPIN4	ZDHHC15	COL8A1		NATD1
	DGAT2L6	ABCB7	CMSS1		MAP2K3
	RGAG4	FGF16	FILIP1L		KCNJ12
	MAGEE2	TEX11	TBC1D23		KCNJ18
	MED12	CITED1	NIT2		C17orf51
	AWAT2	MAGT1	TOMM70		MTRNR2L1
	TSIX	EDA	LNP1		
	CYSLTR1	PGK1	TMEM45A		
	PDZD11	JPX	ADGRG7		
	IL2RG	ZCCHC13	TFG		
	AMER1	IGBP1	ABI3BP		
	DMRTC1B	ARHGEF9	IMPG2		
	KIF4A	SLC7A3	SENP7		
	AR	NLGN3	TRMT10C		

Disease-causing genes (in bold) are associated with recessive disorders or dominant disorders with different etiology than amplification / over-expression.