Table S2: Developmental processes regulated genes

Up Mela1 MS/MA fold	Developmental processes
15.28	TGFBI
6.83	DNER
5.40	PLXNC1
5.05	JAG1
4.94	EPHA3
4.75	DLL3
4.58	NCAM1
4.37	RORB
4.25	SCML1
3.73	PCSK6
3.42	BMP7
3.30	TNFRSF19
3.24	TIMP1
3.21	ERBB4
2.97	LSAMP
2.82	CNIH3
2.75	MET
2.66	EYA4
2.57	THBS2
2.52	SMAD9
2.38	PYGO1
2.30	RUNX2
2.27	DTX4
2.25	PTPRZ1
2.25	HMCN1
2.23	SDC4
2.19	ROBO2
2.16	GDF11
2.13	SCUBE2
2.12	ADAMTS1
2.09	KIT
2.07	SEMA5A
2.02	CRB1
1.94	THBS1
1.78	ACP5
1.72	PELO
1.62	EPHA4
1.57	PRKACB
1.55	IL16
1.48	GAB1
1.48	ADAM23
1.43	MERTK
1.39	POR
No. genes >1.5	39
1.5> no. >1.2	4
Total	43

Down Mela1 MS/MA fold	Developmental processes
4.34	ID3
3.83	MCAM
2.59	GDF15
2.50	SEMA3A
2.45	LMO4
2.34	TES
2.15	TTF2
2.03	SKIL
2.03	KIF2C
1.88	EPAS1
1.87	KIF20A
1.85	EYA3
1.77	CAMK4
1.65	HS2ST1
1.62	NOTCH2
1.57	ZFR
1.57	MFN2
1.55	TRAK2
1.51	PARD6B
1.51	MSH2
1.51	RARB
1.48	ABLIM3
1.34	LRIG2
1.30	WDR35
1.29	IFRD1
No. genes >1.5	21
1.5> no. >1.2	4
Total	25

Up SLM8 MS/MA fold	Developmental processes
7.14	MGP
4.82	TGFBI
3.85	ADAMTS1
3.82	CNIH3
3.64	L1CAM
3.35	CUBN
3.35	LSAMP
3.29	DUSP1
3.15	PDK1
3.07	DTX4
2.99	PLK2
2.53	SEMA3D
2.52	TNS1
2.45	SCUBE2
2.44	KLF4
2.25	RUNX2
2.21	EDIL3
2.19	PCSK6
2.08	RORA
2.05	KDR
1.99	EPHA2
1.95	GDF11
1.89	PBX4
1.86	TNC
1.77	PAN2
1.77	FABP3
1.76	NRCAM
1.76	LDLR
1.75	DLG4
1.70	VLDLR
1.65	NCAM1
1.64	LRP1
1.64	HOXB9
1.63	FGFR1
1.60	ACP5
1.59	DLL3
1.56	MORF4L2
1.54	TNFRSF19
1.53	LDLRAD3
1.48	LRP6
1.44	PAX9
1.44	LAMA1
1.42	RSF1
1.42	CDON
1.41	DZIP1
1.39	DIP2C
1.39	NEO1
1.37	PLXNC1
1.36	NFKB2
1.36	IL16
1.35	SMAD3
1.35	TIMP1
1.35	JAG1
1.34	GRN
1.33	MLL
1.28	DCT
1.27	CRIP2
1.20	SDC4
No. genes >1.5	39
1.5> no. >1.2	19
Total	58

Dowm SLM8 MS/MA fold	Developmental processes
2.45	KIF20A
2.34	LRP2
2.17	PLK1
2.06	BUB1B
1.89	PHF19
1.88	DLC1
1.76	MAMDC2
1.67	HEY2
1.54	PPP1CA
1.51	ABL1
1.40	SBNO2
1.36	GDF15
1.34	RB1
1.31	ABLIM1
1.29	RORB
1.28	CHM
No. genes >1.5	10
1.5> no. >1.2	6
Total	16