

Table S7: Molecular functions regulated genes

Down Mela1 MS/MA fold	ECM
2.91	MME
1.99	FN1
1.34	LRIG2
No. genes >1.5	2
1.5>no. >1.2	1
Total	3

Down SLM8 MS/MA fold	ECM
2.57	MBP
No. genes >1.5	1
1.5> no. >1.2	0
Total	1

Down Mela1 MS/MA fold	Cell adhesion molecule
3.83	MCAM
1.99	FN1
1.84	ITGA3
1.35	PIK3CD
1.25	CTNNB1
No. genes >1.5	3
1.5> no. >1.2	2
Total	5

Down SLM8 MS/MA fold	Cell adhesion molecule
2.40	LSAMP
1.28	CHM
No. genes >1.5	1
Total	1
1.5> no. >1.2	2

Down Mela1 MS/MA fold	Cytoskeletal protein	Actin binding	Non-motor actin binding
2.45	LMO4	LMO4	
2.35	CAP2	CAP2	
2.34	TES	TES	
2.03	KIF2C		
1.87	KIF20A		
1.72	WDR63		
1.66	MYO1B	MYO1B	
1.59	LMNB1		
1.48	ABLIM3	ABLIM3	
1.37	KIFC1		
1.32	MYO10	MYO10	
1.32	PLS1	PLS1	PLS1
1.28	FLNB	FLNB	FLNB
1.25	CTNNB1		
1.20	ARPC1B	ARPC1B	
No. genes >1.5	8	4	0
1.5> no. >1.2	7	5	2
Total	15	9	2

Down SLM8 MS/MA fold	Cytoskeletal protein	Actin binding	Non-motor actin binding
2.45	KIF20A		
2.16	PRC1		
1.88	DLC1		
1.66	SVIL	SVIL	SVIL
1.42	DIAPH3	DIAPH3	DIAPH3
1.31	ABLIM1	ABLIM1	
1.31	CKAP5		
1.29	PHLDB1		
1.28	FLNA	FLNA	FLNA
1.26	MYO1C	MYO1C	
1.23	ACTN4	ACTN4	ACTN4
1.23	LRRC58	LRRC58	
1.23	ACTR6	ACTR6	
No. genes >1.5	4	1	1
1.5> no. >1.2	9	7	3
Total	13	8	4