

A. Mouse embryonic fibroblasts

1W	FACS							
	αMHC-GFP (%)				cTnT (%)			
Experiment	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1
1	20.5		32.9		1.9		11.5	
2	20.3		33.5		2.8		11.1	
3	18.8		32.9		1.8		11.9	
4	13.1		20.2		2.0		7.3	
5	14.9		19.7		2.2		7.7	
6	15.0		17.0		1.8		5.1	
7	11.7		25.6		1.4		11.5	
8	10.1		24.5		1.1		11.2	
9	13.6		25.6		2.2		12.9	
10	10.4	19.4	20.4		1.7	5.3	9.5	
11	8.2	26.6	18.1		1.7	8.7	6.9	
12	10.2	17.3	19.9		1.9	4.9	8.3	
13	13.3		27.6		2.5		11.8	
14	13.3		27.6		2.6		11.2	
15	13.4		28.5		2.3		11.8	
16	19.8		27.6		3.1		7.4	
17	20.1		28.6		3.2		8.4	
18	18.8		27.9		2.7		7.0	
19	21.6		32.7	18.1	1.3		10.3	6.4
20	19.6		31.8	16.0	1.1		9.6	5.2
21	20.1		32.2	17.8	1.2		11.5	7.8

4W	Immunocytochemistry							
	αMHC-GFP (%)				α-Actinin (%)			
Experiment	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1
1	4.5		12.0	5.3	2.7		6.8	1.2
2	3.4		14.8	3.6	1.4		8.8	0.6
3	3.6		9.9	4.3	2.1		7.5	0.4
4	5.4		11.5	5.6	1.9		6.0	1.0
5	3.0		9.0	3.3	1.7		5.8	1.0
6	4.3	6.0			1.7	3.4		
7	4.1	6.9			1.4	2.8		
8	3.7	7.3			1.9	3.4		
9	6.0	8.9			2.2	4.0		
10	3.7	9.2			2.4	4.3		

4W	Immunocytochemistry							
	cTnT(%)				ANP(%)			
Experiment	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1
1	1.7		4.0	0.7	0.7		2.9	0.5
2	1.2		6.4	1.4	0.8		2.9	0.6
3	1.2		5.0	0.7	0.7		2.8	1.3
4	2.2		6.7	0.8	1.9		2.8	0.6
5	1.7		3.9	0.9	1.2		6.0	1.1

6	1.1	2.8			1.1	3.7		
7	2.0	2.3			0.7	3.4		
8	1.8	3.0			1.8	2.7		
9	1.6	3.5			0.9	2.9		
10	1.5	3.4			1.1	5.3		

4W	Functional study			
	Number of Ca ²⁺ transient+ cells (/10 fields)			
Experiment	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1
1	13		76	
2	9		52	
3	8		51	
4	8	12	62	6
5	9	25	54	5
6	21	20	46	4
7	9	27	110	2
8	12	17	47	4
9	11	16	84	6
10	7	24	43	3
11	7	23	56	5

4W	Functional study			
	Number of beating cells (/well)			
Experiment	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1
1	2	6	23	
2	3	7	15	
3	2	9	18	
4	3		27	2
5	3		23	1
6	2		18	2

B. Adult mouse cardiac fibroblasts

1W	FACS					
	αMHC-GFP (%)			cTnT (%)		
Experiment	GMT	GMT/miR	GMT/miR/Snai1	GMT	GMT/miR	GMT/miR/Snai1
1	6.4	10.6	3.3	0.5	1.3	0.5
2	9.6	9.5	3.7	1.0	1.4	0.8
3	9.9	10.6	7.5	1.1	1.5	1.3
4	5.9	13.0	5.4	0.4	4.3	1.3
5	6.3	12.8	7.2	0.4	3.8	1.8
6	6.1	12.6	7.2	0.4	3.4	1.8
7	8.0	12.8		0.3	1.2	
8	6.8	10.0		0.2	1.0	
9	7.6	13.9		0.2	1.3	

4W	Immunocytochemistry							
	αMHC-GFP (%)				α-Actinin (%)			
Experiment	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1	GMT	GMT/si-Snai1	GMT/miR	GMT/miR/Snai1
1	3.6		8.9	6.0	1.8		4.4	1.2
2	2.8		7.7	3.8	0.0		2.6	0.0

3	2.5		7.1	3.4	1.3		4.8	0.0
4	4.5		10.6	3.3	0.0		2.1	0.0
5	3.9		8.3	1.3	0.0		1.7	0.3
6	2.1	2.7			0.5	1.2		
7	2.2	5.4			0.7	2.2		
8	2.8	4.5			0.9	3.0		
9	1.9	2.7			0.8	0.9		
10	3.0	5.3			0.5	2.6		

4W	Functional study		
	Number of Ca ²⁺ transient+ cells (/10 fields)		
Experiment	GMT	GMT/miR	GMT/miR/Snai1
1	4	8	0
2	2	5	0
3	2	6	0

C. Human cardiac fibroblasts

1W	FACS			
	α-Actinin (%)			
Experiment	GMTMM	GMTMM/si-Snai1	GMTMM/miR	GMTMM/miR/Snai1
1	8.4	20.6	26.9	
2	8.6		23.5	13.6

1W	FACS		
	cTnT (%)		
Experiment	GMTMM	GMTMM/miR	GMTMM/miR/Snai1
1	0.7	24.3	12.4
2	2.4	27.8	15.2
3	1.7	17.9	10.0
4	1.8	18.0	8.8

4W	Immunocytochemistry			
	α-Actinin (%)			
Experiment	GMTMM	GMTMM/si-Snai1	GMTMM/miR	GMTMM/miR/Snai1
1	1.0		5.8	1.1
2	3.3		9.2	1.6
3	2.8		11.1	2.9
4	0.7		7.5	0.4
5	3.5		4.1	2.0
6	1.3		5.2	3.4
7	3.6		7.0	1.4
8	2.5		7.4	2.4
9	1.7		11.8	1.0
10	3.3		12.7	5.7
11	2.5	3.6		
12	2.7	7.7		
13	1.6	2.5		
14	1.8	4.8		
15	2.2	6.4		
16	4.8	3.7		

17	1.4	6.3		
18	1.9	7.9		
19	1.9	6.7		
20	4.9	2.8		

Table U2. List of FACS Analyses, Immunocytochemistry, and Functional Assays Obtained in This Study

FACS data for α MHC-GFP⁺, cTnT⁺, and α -actinin⁺ cells; immunocytochemistry data for α MHC-GFP⁺, α -actinin⁺, cTnT⁺, and ANP⁺ cells; and number of Ca²⁺ transient⁺ cells and spontaneously beating cells, in MEFs, adult CFs, and HCFs after 1 or 4 weeks of GMT, GMT/si-Snai1, GMT/miR-133, GMT/miR-133/Snai1, GMTMM, GMTMM/si-Snai1, GMTMM/miR-133, GMTMM/miR-133/Snai1 transduction are shown.