



**B**

	CELL POPULATION					CLONES				
	Control (no reversion)	hAMSCs changed to EGM-2		FP-MSCs change to DMEM		Control (no reversion)	M27-D changed to EGM-2		M27-E change to DMEM	
		1 week	2 weeks	1 week	2 weeks		1 week	2 weeks	1 week	2 weeks
<i>alox15b</i>	110.62	273.32	480.37	-17.10	-19.32	837.43	2251.3	757.8	239.2	63.8
<i>areg</i>	11.24	15.35	9.77	-16.21	-5.91	10.03	83.3	7.4	4.8	6.3
<i>cc120</i>	1.79	51.10	40.18	2.00	1.25	54.05	69.4	158.2	13.1	21.0
<i>cnr1</i>	17.76	6.88	3.36	-5.59	-5.41	0.88	1.3	0.3	1.0	0.7
<i>cpm</i>	7.90	7.80	10.26	-1.60	-1.64	138.88	204.9	45.8	6.3	4.3
<i>efnb2</i>	4.02	4.36	2.32	-2.06	-2.01	167.09	103.6	12.1	20.7	7.1
<i>fkbp5</i>	5.35	4.20	4.46	-14.72	-12.15	26.01	48.6	17.0	10.8	12.6
<i>hgf</i>	3.10	1.28	2.23	-2.71	-3.11	0.93	1.7	0.0	6.2	1.0
<i>hsd11b1</i>	16.11	26.43	81.51	1.05	1.27	40.92	61.1	11.1	10.6	5.3
<i>maoa</i>	12.11	1.97	4.72	-2.23	-2.82	28.80	17.5	24.1	4.6	0.5
<i>ptger2</i>	14.20	5.93	15.70	-5.08	-3.09	8.39	10.4	5.4	7.9	7.2
<i>zbtb16</i>	66.37	2593.13	881.02	-5.65	-5.91	4057.64	7984.4	4593.8	452.4	61.9

**SUPPLEMENTARY FIG. S2.** FP-ASC phenotype reversibility. **(A)** The diagram illustrates the procedure used to analyze phenotype reversibility. **(B)** Fold change values obtained from comparing gene expression in FP-ASC and hASC types subjected to changes in induction medium, as described in **(A)**.