

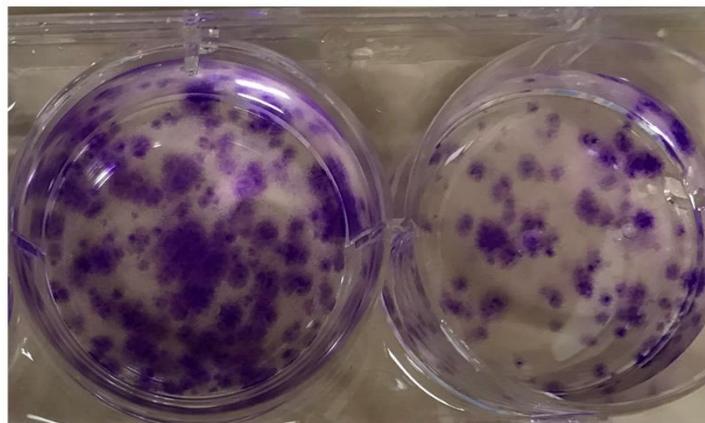
Table S 1: Calculated fold change values of mesenchymal stem cell genes in hASCs compared to expression levels of Bone Marrow mesenchymal stem cells (** p<0.01)

MSCs	THY 1	CD-105	CD-73	SOX2	OCT4	NANOG
hASC	2.65 ± 0.09	2.12 ± 0.07	1.88 ± 0.05	0.76 ± 0.05	0.84 ± 0.07	2.21 ± 0.05**
BM-MSC	2.03 ± 0.06	1.99 ± 0.09	1.84 ± 0.07	0.68 ± 0.05	0.79 ± 0.06	0.85 ± 0.05

Table S 2: Calculated fold change values of SOX2 OCT4 and NANOG after NANOG knockdown (** p<0.01)

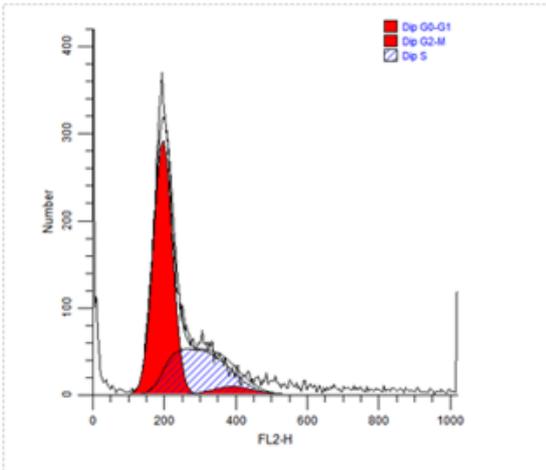
MSCs	MESENCHYMAL STEM CELL MARKERS		
	NANOG	SOX 2	OCT4
hASC negative Sh NANOG	0.89 ± 0.05	0.77 ± 0.05	0.81 ± 0.47
hASC Sh NANOG	0.28 ± 0.09	0.32 ± 0.21	0.4 ± 0.33

Figure S1: colony-forming assays showing NANOG downregulation impaired clonogenic potential of hASCs

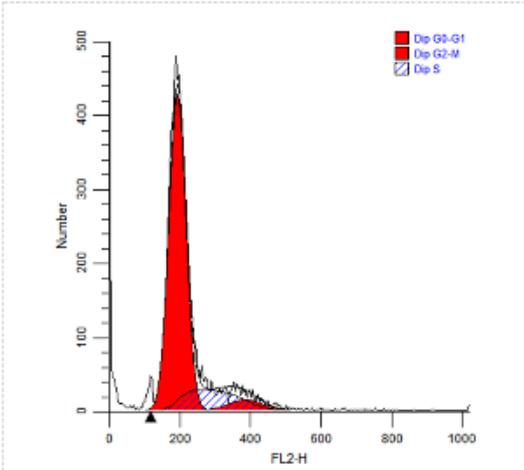


hASC negative Sh NANOG NANOG downregulated

Figure S2: Representative hASC cell cycle distribution as a result of NANOG downregulation



hASC control



hASC NANOG Knockdown