TABLE S1: human primers for quantitative and qualitative PCR

Gene		*Sequences (5′ to 3′)*
OCT4 endogenous	FW	AGTTTGTGCCAGGGTTTTTG
	REV	ACTTCACCTTCCCTCCAACC
STEMCCA exogenous	cMYC FW	GGAACTCTTGTGCGTAAGTCGATAG
	WPRE REV	GGAGGCGGCCCAAAGGGAGATCCG
NANOG	FW	CCCAAAGGCAAACAACCCACTTCT
	REV	AGCTGGGTGGAAGAGAACACAGTT
SOX2 endogenous	FW	AGCTACAGCATGATGCAGGA
	REV	GGTCATGGAGTTGTACTGCA
LIN28	FW	AGTAAGCTGCACATGGAAGG
	REV	ATTGTGGCTCAATTCTGTGC
TERT	FW	GGAGCAAGTTGCAAAGCATTG
	REV	TCCCACGACGTAGTCCATGTT
Mesogenin	FW	GTCCAGCGGAGGCGCAAAGC
	REV	GGTGTGCAGGGCATCTGCCAA
PAX3	FW	AATTCGGGAAAGGTGAAGAGG
	REV	TTCAGAGTCAATATCAGAGCCTTC
PAX7	FW	AAGAAGGCCAAACACAGCATCGAC
	REV	AGGTCAGGTTCCGACTCCACAT
MYOD	FW	TGCTCCGACGGCATGATGGACTA
	REV	TTGTAGTAGGCGCCTTCGTAGCAGTT
MYOG	FW	AATGCAGCTCTCACAGCGCCTC
	REV	TCAGCCGTGAGCAGATGATCC
MYH8	FW	CTCCATCTCTGACAATGCCTATC
	REV	AGTATTGGATGACACGCTTGG
MCK	FW	TGGAGAAGCTCTCTGTGGAAGCTC
	REV	TCCGTCATGCTCTTCAGAGGGTAGTA
MYHC	FW	TTCATTGGGGTCTTGGACAT
	REV	AACGTCCACTCAATGCCTTC
GAPDH	FW	GTGAAGGTCGGAGTCAACG
	REV	GGTGGAATCATATTGGAACATG

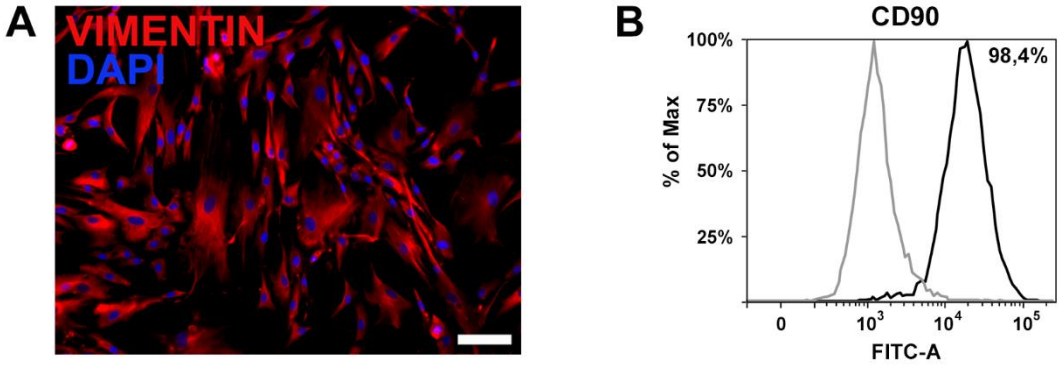

Figure S1. Fibroblast characterization. (**A**) Immunofluorescence labeling for vimentin (red) on skin fibroblast cells. Nuclei were stained with DAPI. Scale bar represents 100μm. (**B**) Representative histograms indicating the percentage of $CD90^+$ (black peak) determined by flow cytometry to identify fibroblast cell population (n = 4). Matched isotypes were used as negative controls (grey peak).

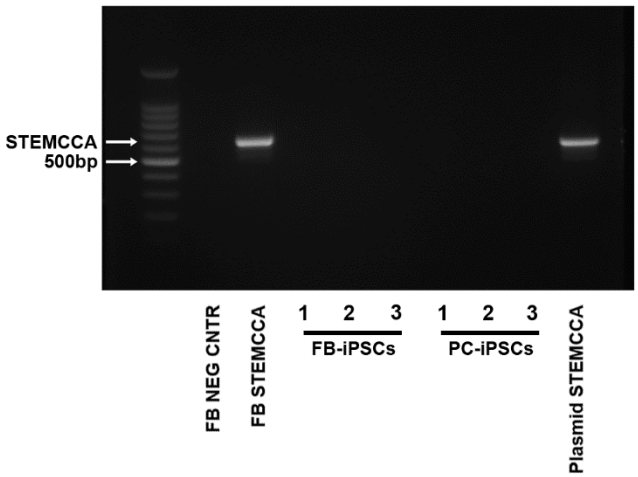

Figure S2. Silencing of the exogenous factors. Qualitative PCR reactions for the expression of the lentiviral vector; fibroblasts were used as negative control, while STEMCCA transduced fibroblasts and STEMCCA plasmid were used as positive controls.