

## Supplementary materials

**Supplementary Table 1. Antibodies used in a study**

Antigen	Fluorochrome	Host	Clone	Manufacturer
CD105	PerCP-Cy5.5	mouse	266	BD Pharmingen™
CD117	APC	mouse	YB5.B8	BD Pharmingen™
CD140a	PerCP-Cy5.5	mouse	αR1	BD Pharmingen™
CD140b	PE	mouse	28D4	BD Pharmingen™
CD146	PE-CF594	mouse	P1H12	BD Horizon™
CD166	BV421	mouse	3A6	BD Horizon™
CD34	APC	mouse	581	BD Pharmingen™
CD349	Unconjugated	rabbit	Polyclonal	Bioss
CD45	FITC	mouse	HI30	BD Pharmingen™
CD56	PE	mouse	B159	BD Pharmingen™
CD73	APC	mouse	AD2	BD Pharmingen™
CD90	FITC	mouse	5E10	BD Pharmingen™
HLA-DR	PE-Cy5	mouse	G46-6	BD Pharmingen™
Nestin	Unconjugated	rabbit	Polyclonal	Sigma-Aldrich
Nestin	PE	mouse	25/NESTIN	BD Pharmingen™
NeuN	Unconjugated	mouse	377	Chemicon, Millipore
NF (NF-H)	Unconjugated	mouse	RT97	DSHB
NSE	Unconjugated	rabbit	Polyclonal	Bioss
p75 (CD271)	Unconjugated	rabbit	Polyclonal	BioLegend
p75 (CD271)	PE	mouse	C40-1457	BD Pharmingen™
S100β	Unconjugated	rabbit	Polyclonal	Abcam
Sox10	Unconjugated	mouse	20B7	R&D Systems
Sox10	Unconjugated	mouse	SOX10/991 +	Novus Biologicals

			SOX10/1074	
Sox2	Unconjugated	rabbit	Polyclonal	BioLegend
$\beta$ III-tubulin	Unconjugated	mouse	SDL.3D10	Sigma-Aldrich

Table S1 – List of antibodies used in this study for identification of human cultured hair follicle- and skin dermis-derived adult NCSCs and their differentiated derivative cell types.

**Supplementary Table 2. The primers sequence used in a study**

<i>Gene</i>	<b>Forward primer 5'→3'</b>	<b>Reverse primer 5'→3'</b>
<i>TBP</i>	ccactcacagactctcacaac	ctgcggtacaatcccagaact
<i>POU5F1(OCT3/4)</i>	tgactcctcgggcccttc	tccaggtttctttccctagc
<i>TERT</i>	ctccatcctgaaagccaagaa	agtcagcttgagcaggaatg
<i>LIN28</i>	agcctcatgtccgctgaagg	gcagggtagggctgtggatt
<i>KLF4</i>	tcccgccgctccattacaa	gggggtgaagaaggtgggggtga
<i>NANOG</i>	tcccctctcccacccctca	ggctccaaccatactccaccct
<i>MYC</i>	agaacggagggaggatcgc	ctcgtccctctgcctctcg
<i>SOX2</i>	cagctcgcagacctacatga	tggagtgggaggaagaggta
<i>SOX9</i>	gaaagagaggaccaaccagaat	ttgggtacgagttgccttag
<i>SOX10</i>	ttgactactctgacatcagccc	agtgtcgtatatactggctgctcc
<i>TFAP2A</i>	cgaaacccaatttctgccaagc	agatgaggttgaagtgggtcaagc
<i>NGFR (CD271/p75)</i>	acctccagaacaagacctatagc	ttgttctgcttcagctgttcc
<i>NESTIN</i>	agaggaagagaacctgggaaag	ttggctcttccaccgtatc
<i>SNAIL1</i>	ccacgaggtgtgactaactatg	accaaacaggaggctgaata
<i>SNAIL2</i>	cctgtgctgaccaaccaata	atgctcttcagctctctct
<i>TWIST1</i>	cgggagtcgcagctctta	gcttgagggtctgaatcttg
<i>FGF2</i>	caccagtggatagtgtgagaga	gccaatcttggttcaggtactta
<i>VEGFA</i>	ccatcgacagaacagtcttaatc	tggcgaatccaattccaagag
<i>NGF</i>	taccaagggagcagcttcta	cattgctctctgagtggttc
<i>BDNF</i>	gtcaagttgggagcctgaaatag	aggtgtgaaatgggctgaatg
<i>GDNF</i>	acttgggtctgggctatgaaac	ctttgtcactcaccagccttct
<i>NTF3</i>	ggcgcaactactttctctctct	agctcggtcattcaaagtctcc
<i>NTF4/5</i>	tcctatgtgcgggcattga	tctcagcatccagctctgttatt

<i>LIF</i>	gaagggtcggatctgagagaat	ctggaccctgacaccctaaa
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Table S2 – PCR primer sequences used in this study for identification of human cultured hair follicle- and skin dermis-derived adult NCSCs and their differentiated derivative cell types.