

Supplementary figures and table

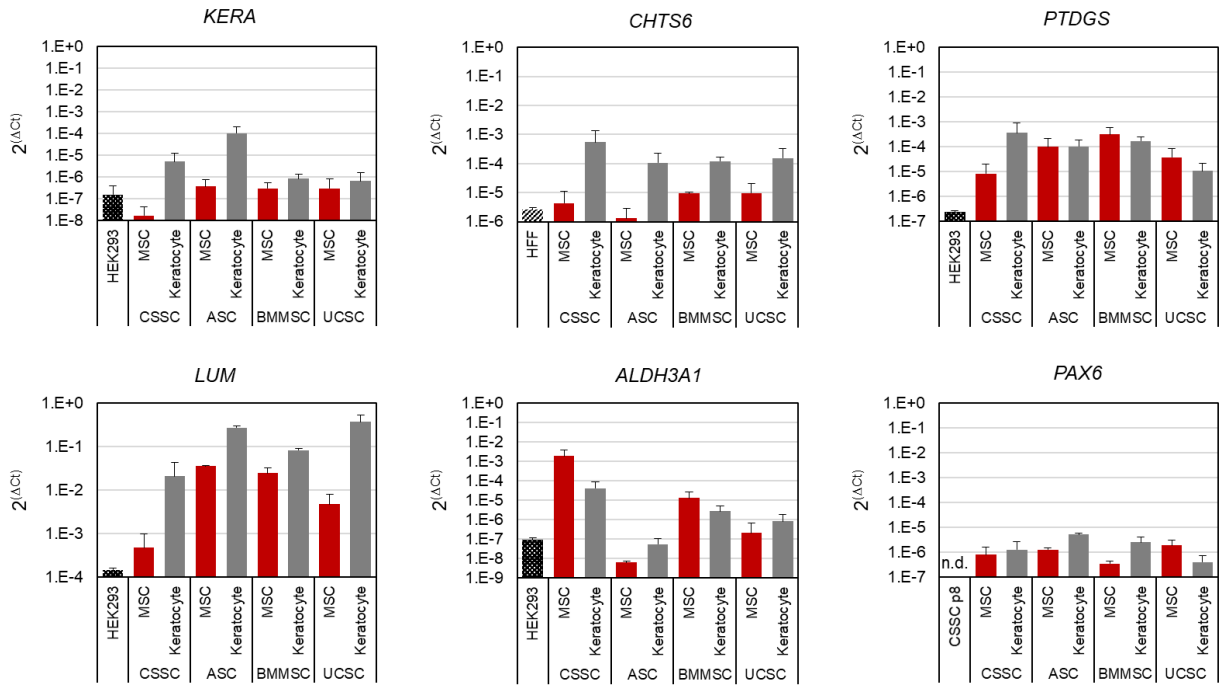


Figure S1: Transcript levels of keratocyte lineage markers as calculated by $2^{-(Ct_{target}/Ct_{housekeeping\ genes})}$. Transcript levels for HEK293T cells, human foreskin fibroblasts (HFF) and CSSC at a later passage (p8) were plotted against the MSC and the keratocyte lineage-induced MSC. MSC: undifferentiated MSC; Keratocyte: day 7 of keratocyte lineage induction; n.d.: not detected.

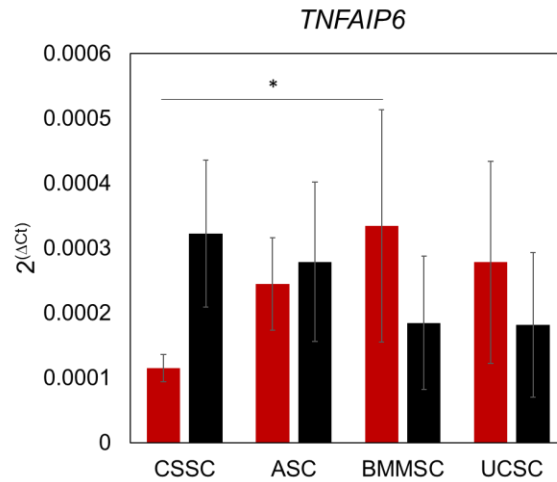


Figure S2: Transcript levels of *TNFAIP6* as calculated by $2^{-(Ct_{TNFAIP6}/Ct_{housekeeping\ genes})}$. *GAPDH* and *18S* were used as housekeeping genes. p=0.0143; ANOVA, followed by all pairs Tukey's test.

Table S1: List of primer pairs used for RT-PCR.

Gene ID (name)	Forward 5'-3'	Reverse 5'-3'
Stem cell/progenitor cell markers		
SOX2 (Sex determining region Y-box 2)	AACCCCAAGATGCACAACCTC	GCTTAGCCTCGTCGATGAAC
NANOG	GATTTGTGGGCCTGAAGAAA	ATGGAGGAGGGAAGAGGAGA
ABCG2 (ATP Binding Cassette Subfamily G Member 2)	GCAGGGACGAACAATCATCT	CCTGAGGCCAATAAGGTGAG
Adipogenic markers		
FABP4 (Fatty acid binding protein 4)	ATGGGATGGAAAATCAACCA	GTGGAAGTGACGCCTTTCAT
PLIN (Perilipin)	AAACAGCATCAGCGTTCCCCA	AGTGTGGCAGCAAATTCCG
Osteogenic markers		
ALP (Alkaline phosphatase)	TACAAGGTGGTGGGCGGTGAACGA	TGGCGCAGGGGCACAGCAGAC
SPARC (Secreted Protein, Acidic, Cysteine-Rich)	GGCATCAAGCAGAAGGAT	GCACCGTTAATGTATTCACT
BGLAP (Bone gamma-carboxyglutamic acid-containing protein)	AGCAAAGGTGCAGCCTTTGT	GCGCCTGGGTCTCTTCACT
RUNX2 (Runt-related transcription factor 2)	TGGTTACTGTCATGGCGGGTA	TCTCAGATCGTTGAACCTTGCTA
Chondrogenic markers		
ACAN (Aggrecan)	AGCCTGCGCTCCAATGACT	TAATGGAACACGATGCCTTTCA
COMP (Cartilage Oligomeric Matrix Protein)	AGCAGATGGAGCAAACGTATTG	ACAGCCTTGAGTTGGATGCC
Keratocyte-lineage markers		
ALDH3A1 (Aldehyde Dehydrogenase 3 Family Member A1)	TGGAACGCCTACTATGAGGAG	GGGCTTGAGGACCACTGAG
LUM (Lumican)	CCTGGTTGAGCTGGATCTGT	TGGTTTCTGAGATGCGATTG
KERA (Keratocan)	ATCTGCAGCACCTTCACTT	CATTGGAATTGGTGGTTTGA
PTGDS (Prostaglandin D Synthase)	CGGGGTCCCTCGGCTCTAC	CTGGGGTCTGGGTTCCGGCT
CHST6 (Carbohydrate Sulfotransferase 6)	GAAATCCGTGCGCTCTACG	GTCCAGATCCGTGGGTGAT
PAX6 (Paired box protein 6)	TGGGCAGGTATTACGAGACTG	ACTCCCGCTTATACTGGGCTA
TSG-6 transcript		
TNFAIP6 (TNF Alpha Induced Protein 6)	AAGCACGGTCTGGCAAATACAAGC	ATCCATCCAGCAGCACAGACATGA
Housekeeping genes		
18S	CCCTGTAATTGGAATGAGTCCAC	GCTGGAATTACCGCGGCT
GAPDH (Glyceraldehyde-3-Phosphate Dehydrogenase)	ACAACCTTTGGTATCGTGAAGG	GCCATCACGCCACAGTTTC
UBC (Ubiquitin)	CTGGAAGATGGTCGTACCCTG	GGTCTTGCCAGTGAGTGTCT