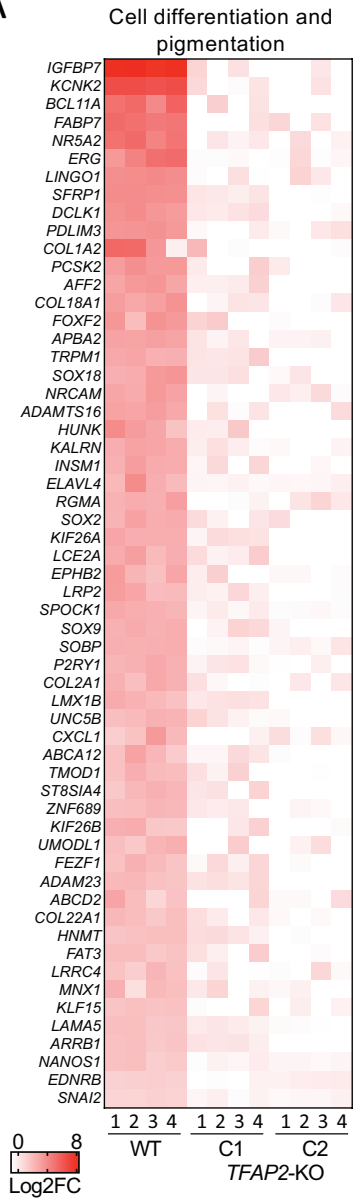
Fig. S17

A



C1: Clone 4.3
C2: Clone 2.12

B

Directly TFAP2 activated genes

GO biological process	Enrichment	FDR
Pigmentation	4.5	8.8×10^{-04}
Epithelial/ mesenchymal transition	4.42	6.0×10^{-03}
Cardiac septum development	3.22	4.6×10^{-02}
Kidney epithelium development	3.07	3.0×10^{-02}
Mesenchymal cell differentiation	3.07	7.1×10^{-03}
Cell morphogenesis	2.36	1.3×10^{-06}
Phosphorylation	2.17	3.6×10^{-06}
Neuron differentiation	2.14	2.6×10^{-07}
Cell differentiation	1.62	1.0×10^{-09}
Cell proliferation	1.49	2.4×10^{-02}

C

Directly TFAP2 inhibited genes

GO biological process	Enrichment	FDR
Angiogenesis	6.93	4.9×10^{-02}
Cell junction	2.96	3.0×10^{-08}
Leukocyte migration	2.77	5.5×10^{-03}
Morphogenesis of an epithelium	2.77	4.0×10^{-06}
Response to growth factor	2.54	8.6×10^{-06}
Cell-cell adhesion	2.45	2.2×10^{-04}
Cell migration	2.41	1.5×10^{-08}
Tube morphogenesis	2.36	9.2×10^{-06}
Cell motility	2.32	4.6×10^{-08}
Locomotion	2.3	2.4×10^{-08}
Programmed cell death	1.9	7.6×10^{-07}
Cell communication	1.78	6.5×10^{-14}