

Table S1. Chimaera generation from *Klf4* Epi-iPS clones

Clone	Blastocysts injected	Number born	Number of chimaeras	Coat chimaerism			Germline transmission
				High	Medium	Low	
K4C1	18	1	1 (died)		1		N/A
K4C12	40	15	11	3	6	2	Two females, both 100%
K4C3Cre A3	30	6	4	4			One female, 50%; second female lost litter
K4C3Cre D4	30	5	2 (1 died)		1	1	Not tested
K4C5Cre A5	46	7 (4 died)	1		1		One female, 100%

EpiSCs are derived from hybrid 129×MF1 (Swiss albino) embryos. Chimaeras were generated in C57BL/6 blastocysts and bred with C57BL/6 males. Resultant non-black pups indicate germline transmission. The cell lines are female and therefore only female chimaeras were mated. K4C1 and K4C12 are Epi-iPS clones with the *Klf4* transgene; K4C3Cre and K4C5Cre clones are revertants of K4C3 and K4C5, respectively, after *Klf4* transgene deletion by Cre-mediated recombination. The percentages in the germline transmission column are of agouti pups (Epi-iPS cell-derived) in the first litters.