

FIGURE 1A

Nanog OE or *Tcf3* RNAi

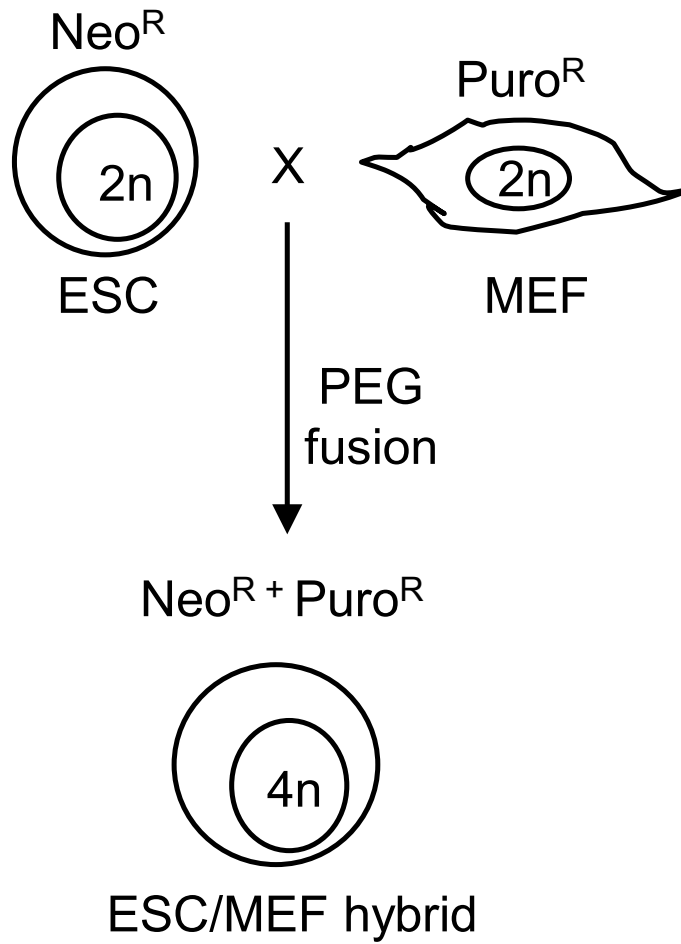


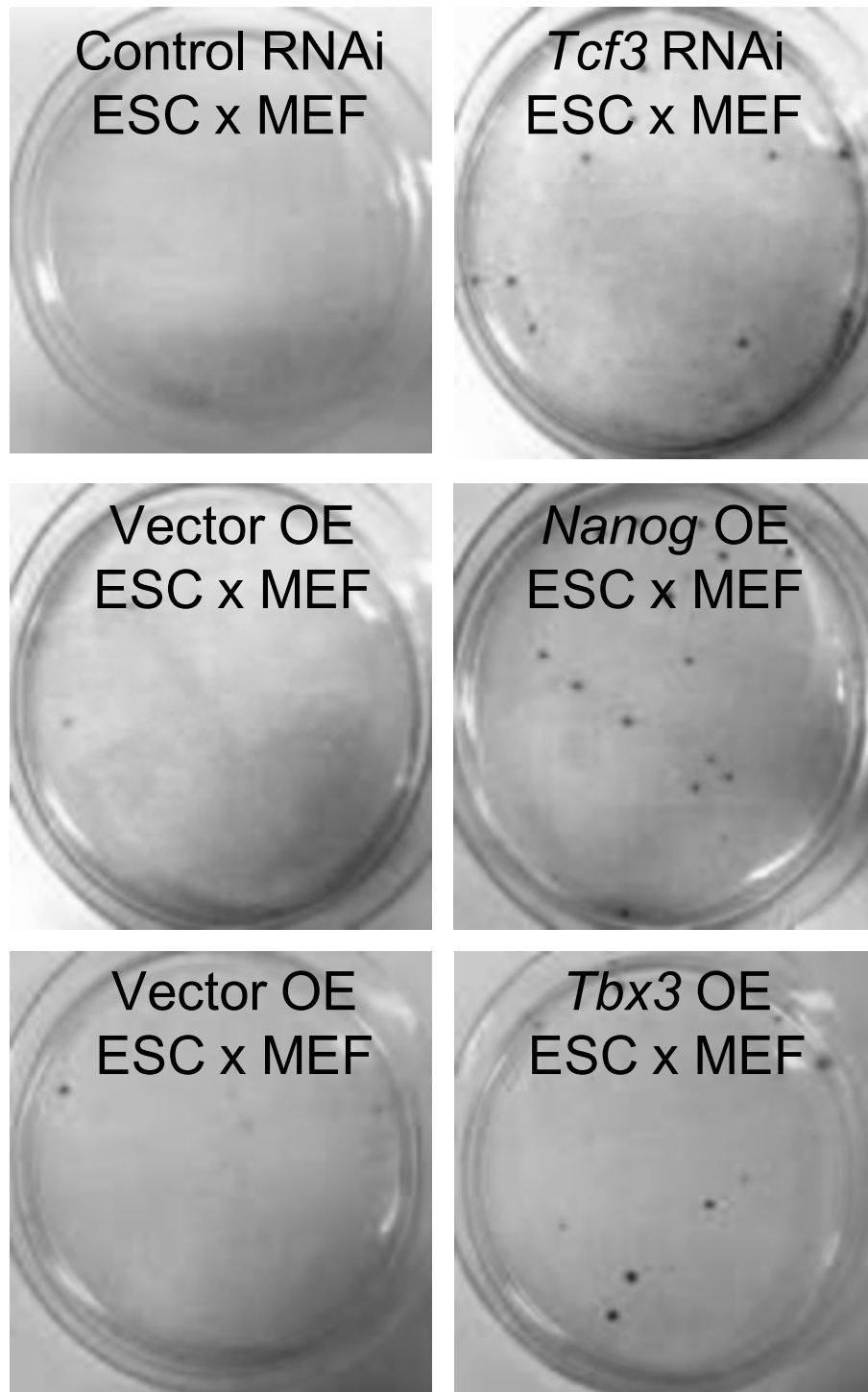
FIGURE 1B

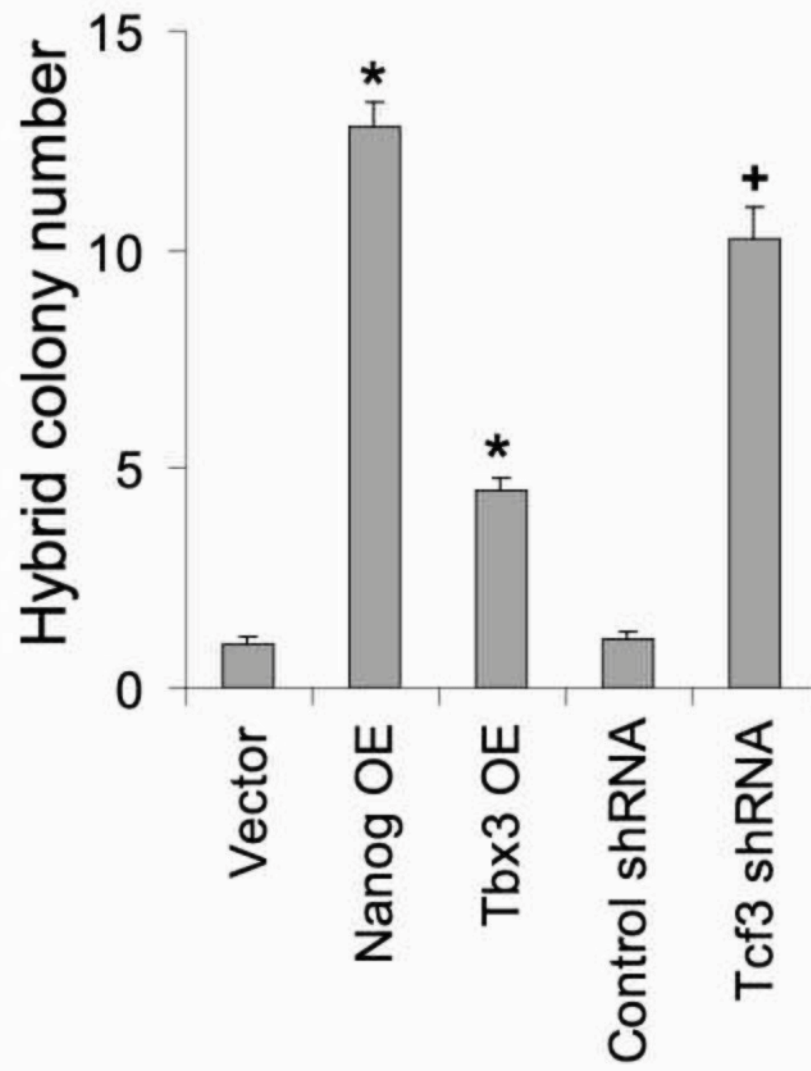
FIGURE 1C

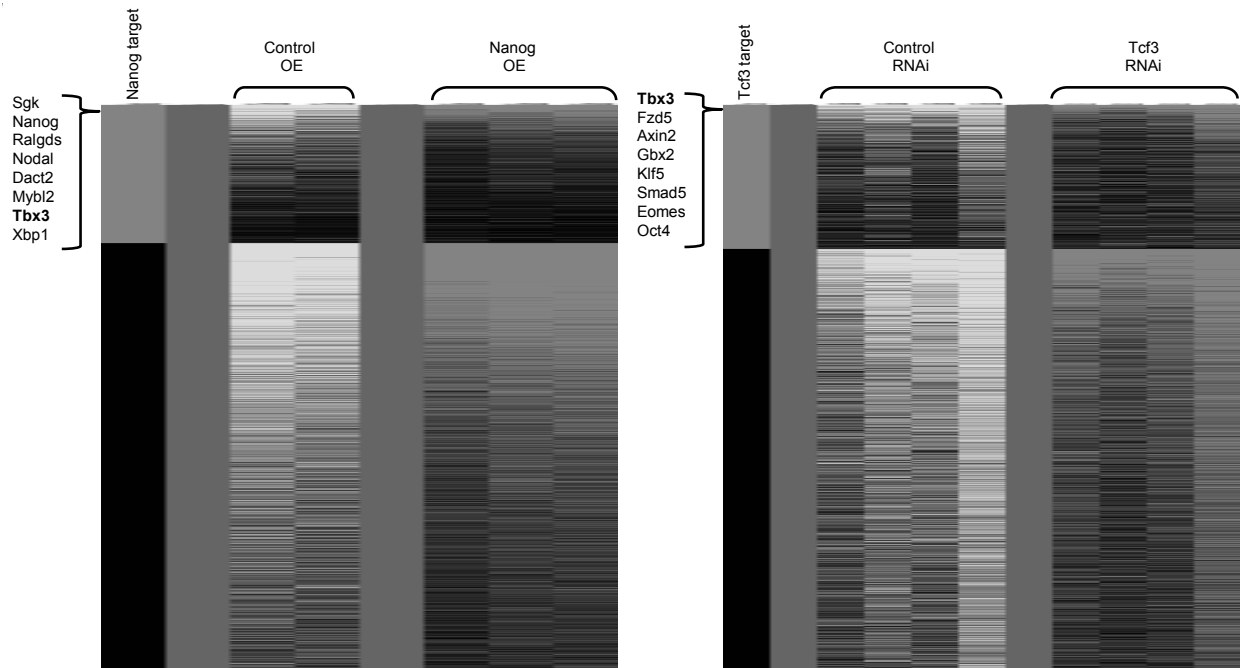
FIGURE 1D

FIGURE 1E

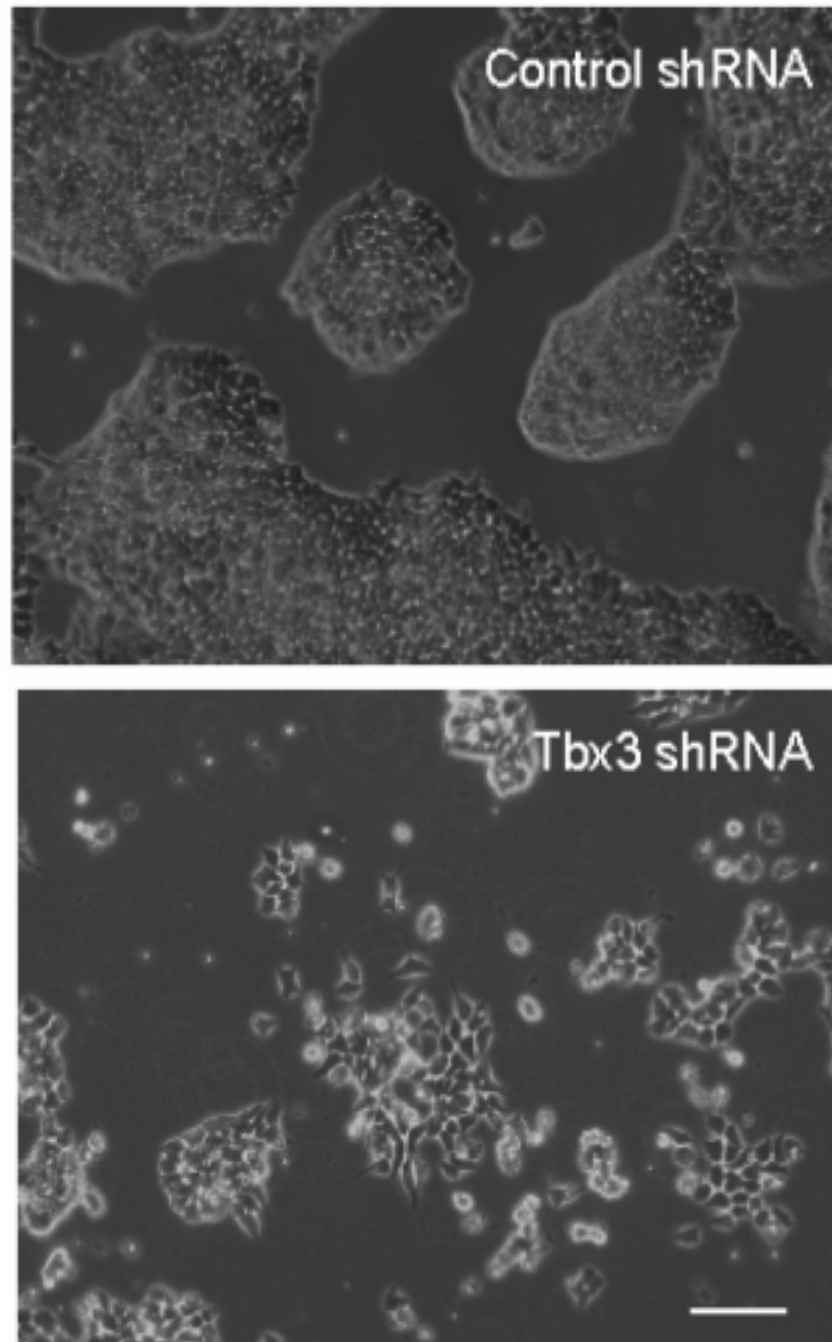


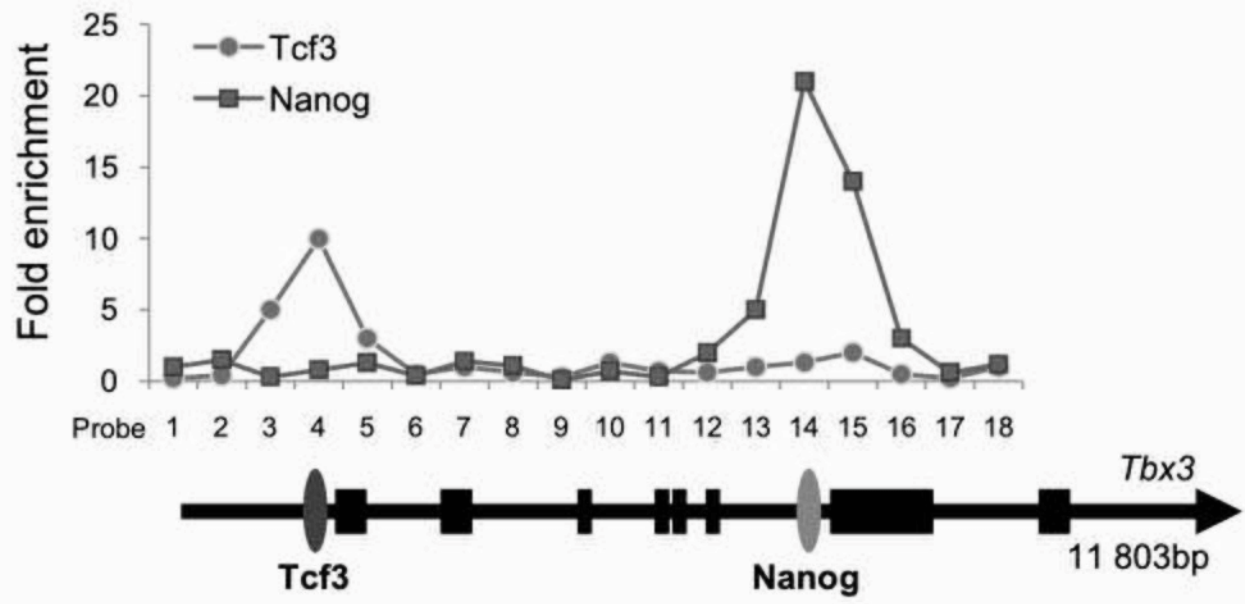
FIGURE 1F

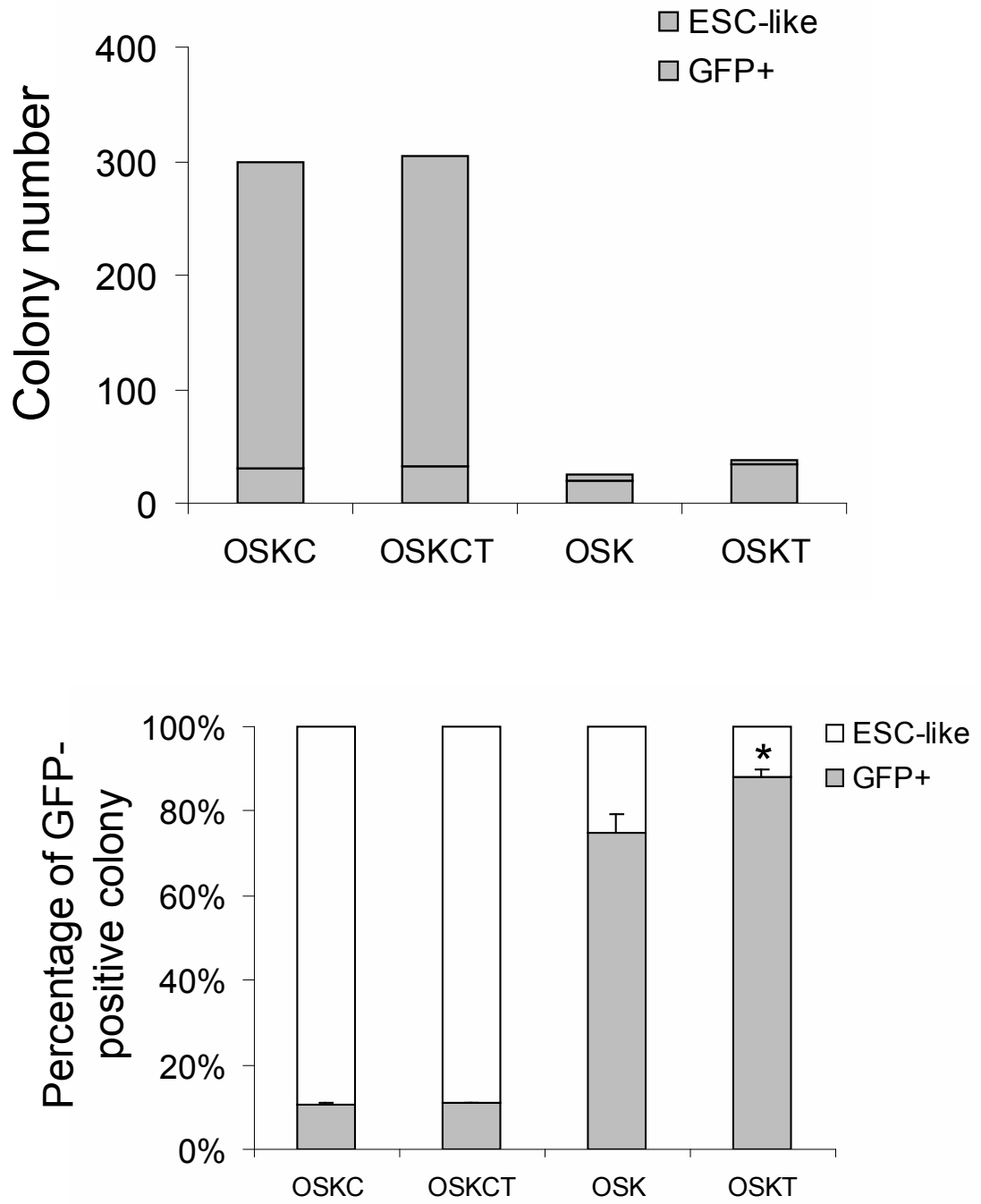
FIGURE 2A

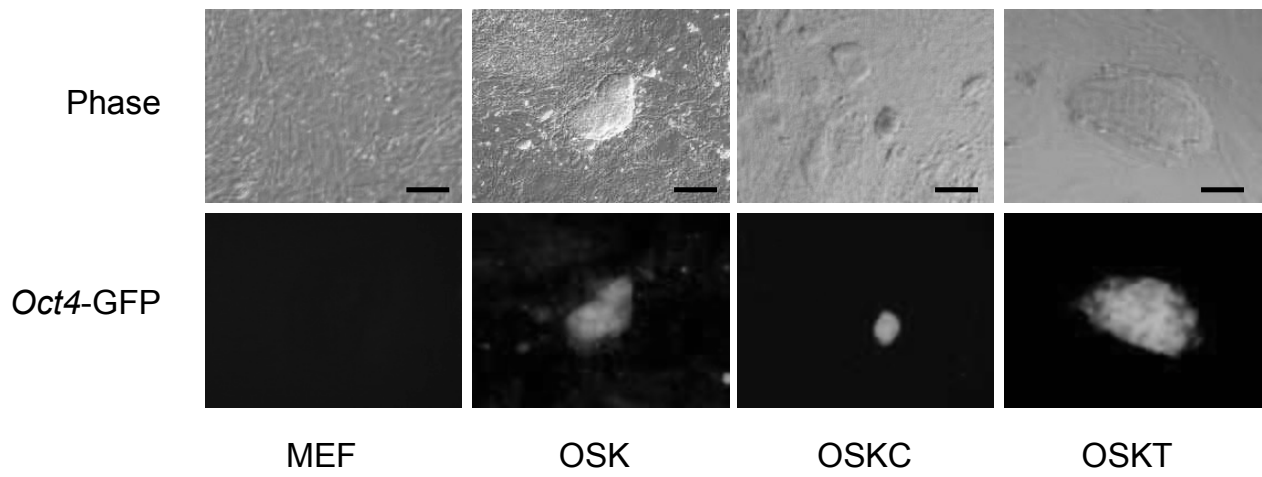
FIGURE 2B

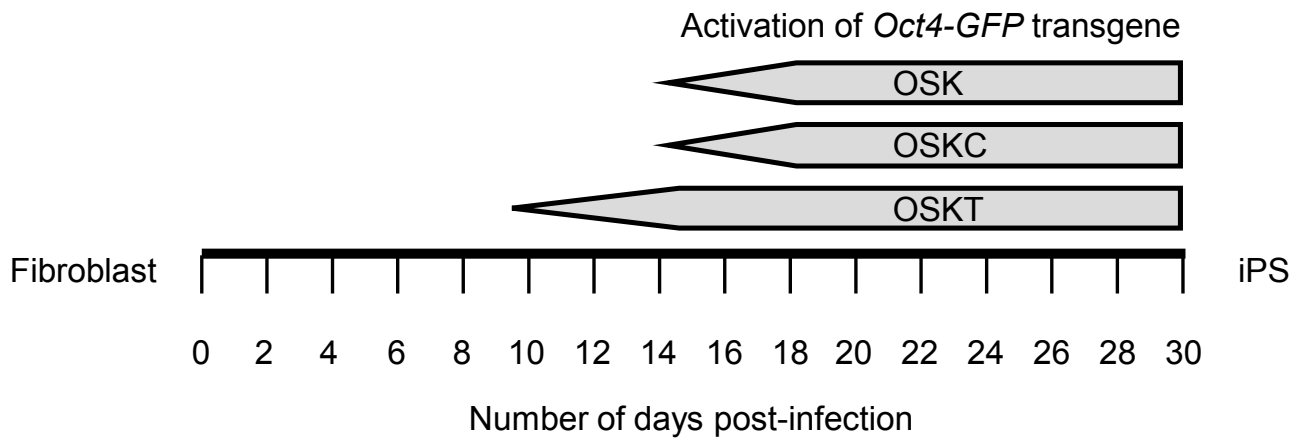
FIGURE 2C

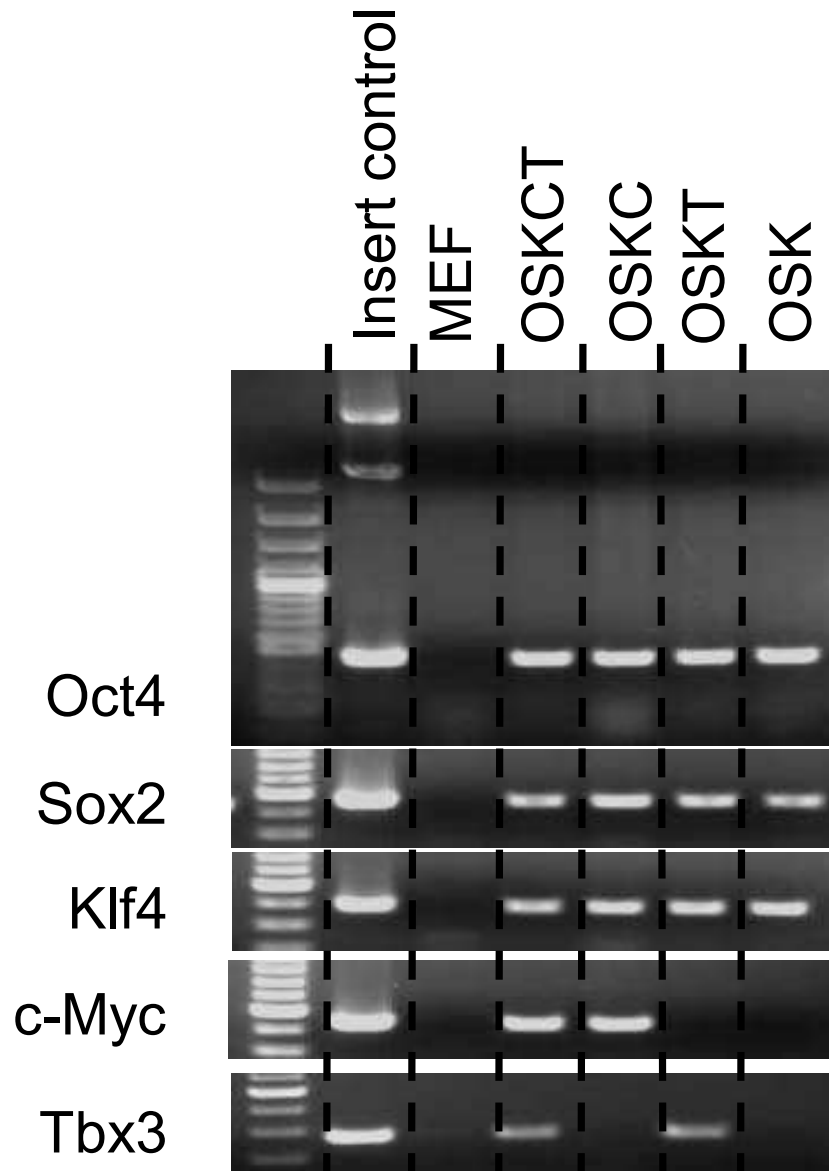
FIGURE 2D

FIGURE 2E

OSKT

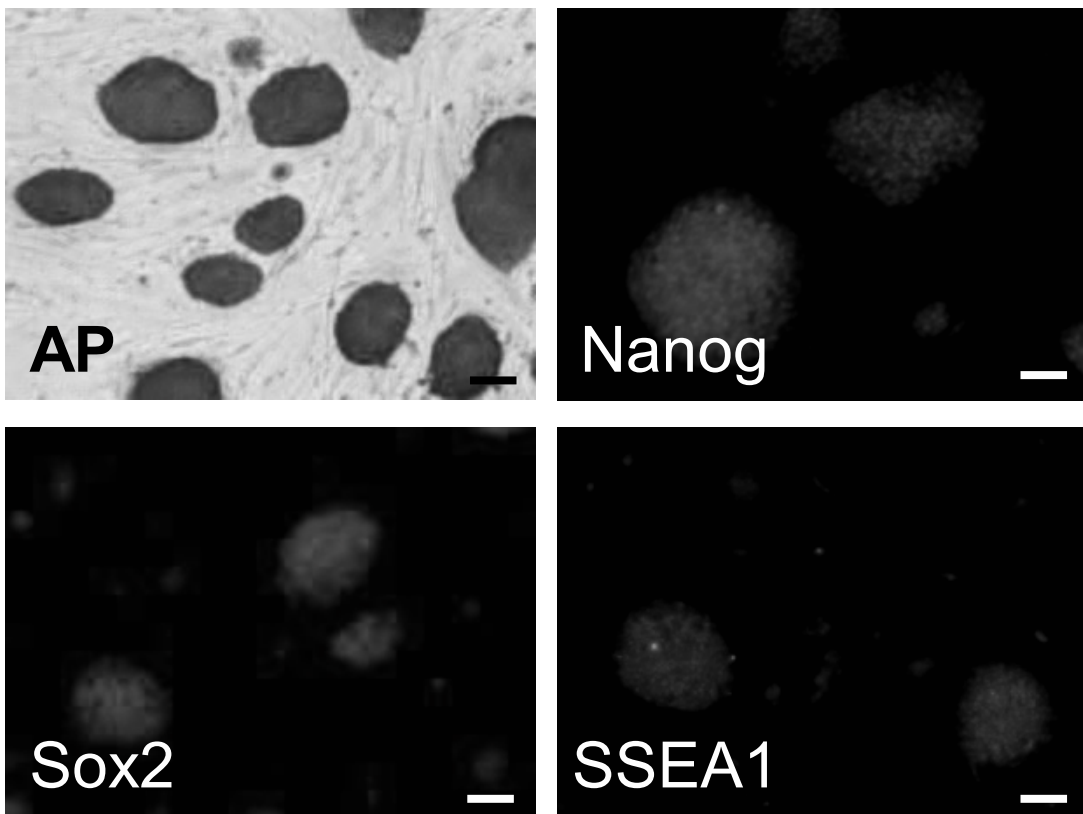


FIGURE 3A

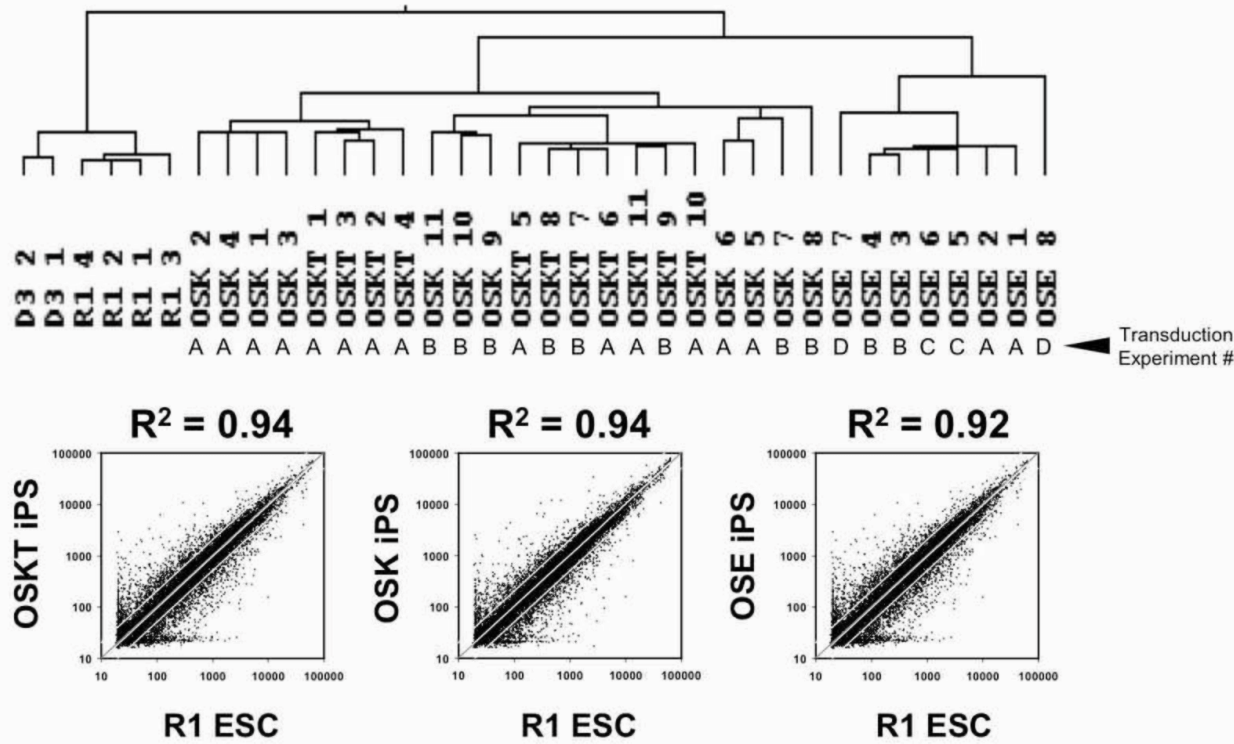


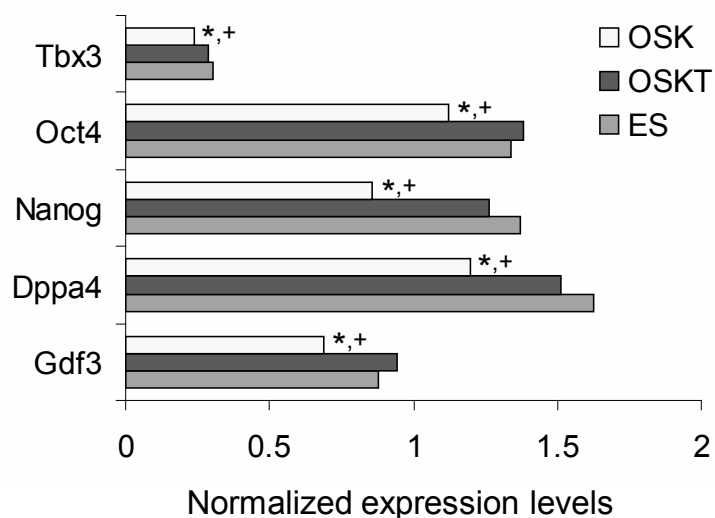
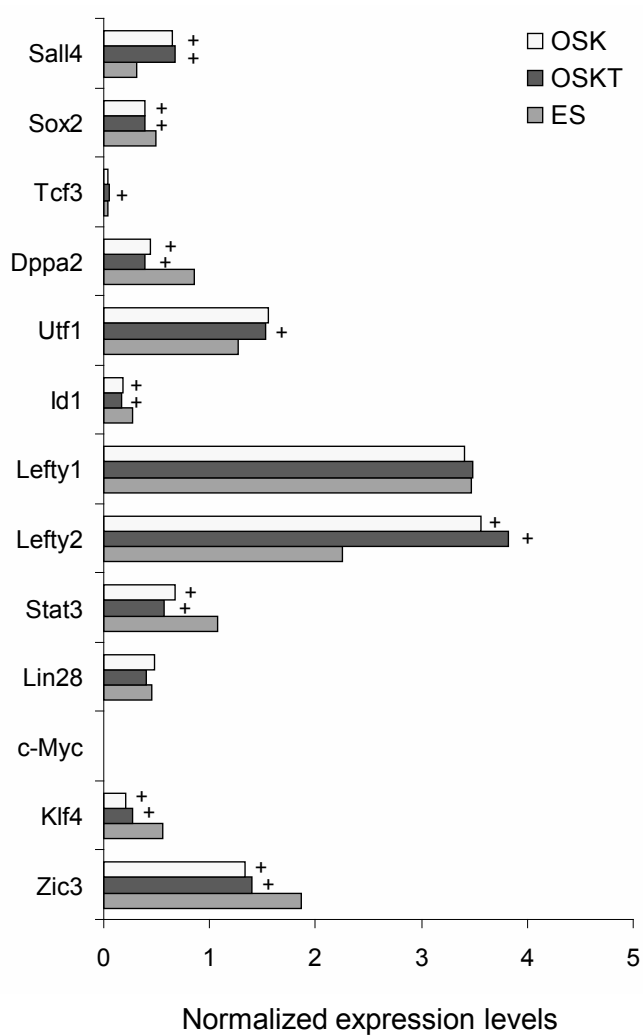
FIGURE 3B**OSKT:OSK Distinguishing ESC Genes****OSKT:OSK Non-distinguishing ESC Genes**

FIGURE 4A

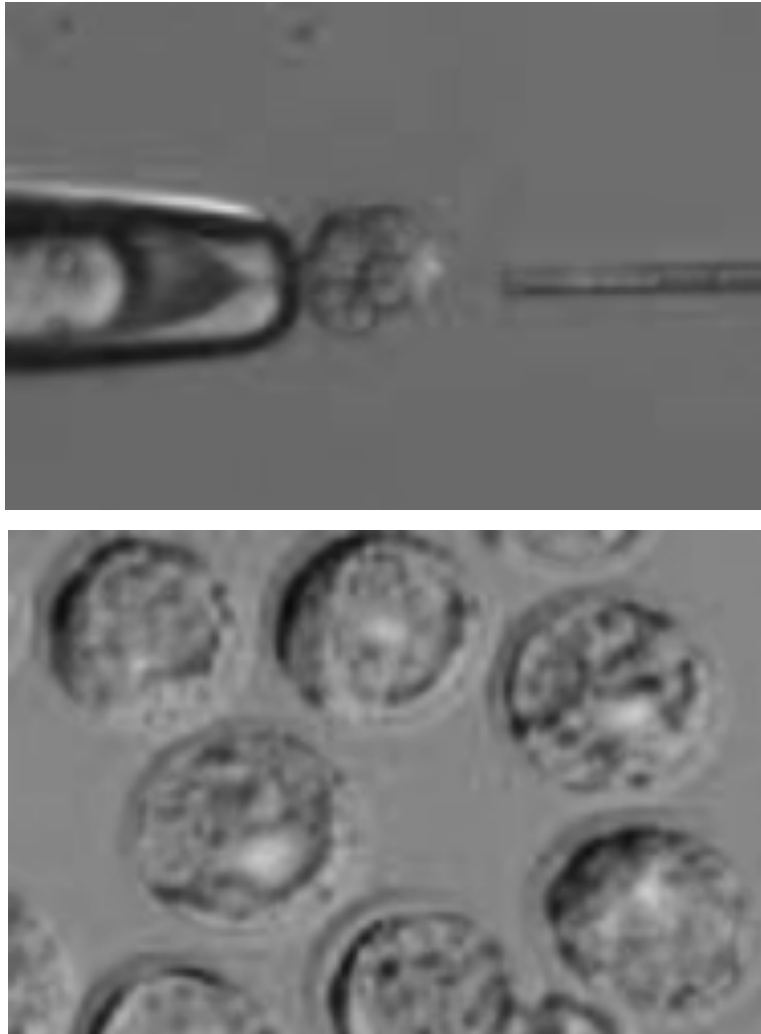


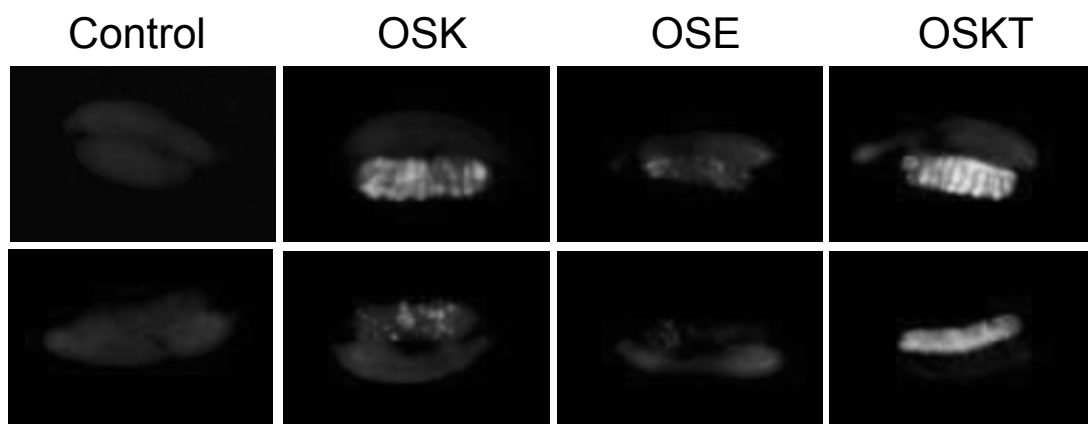
FIGURE 4B

FIGURE 4C

Combination	iPS clones	Total number of fetus examined	GFP+ gonads (Percentage)	Contribution of GFP+ cells to gonads		
				>90%	50-90%	<50%
OSK	11	178	42 (23.6%)	11 (26.2%)	9 (21.4%)	22 (52.4%)
OSE	3	24	2 (12.5%)	0	0	2 (100%)
OSKT	13	209	73 (34.9%*)	42 (57.5%*)	21 (28.8%)	10 (13.7%*)

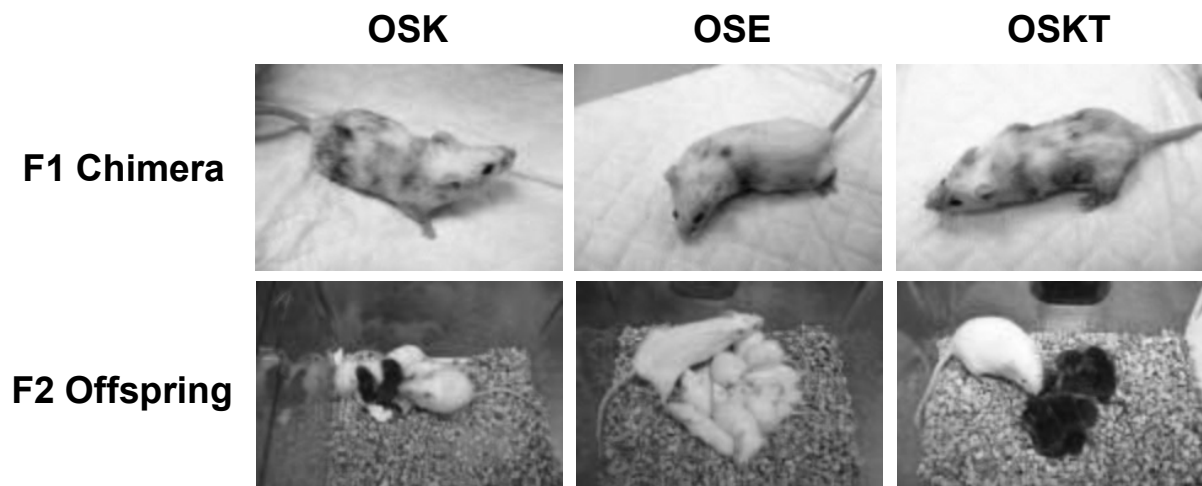
FIGURE 4D

FIGURE 4E

	iPS Line	Chimera	Total offspring per litter (Frequency of Black)	Percentage
OSK	#1	1	11(11); 4(4)	100%
		2	10(0)	0
	#2	3	6(2); 10(4)	37.5%
		4	12(0)	0
		5	8(0)	0
	#12	8	8(0); 10(0)	0
	#13	6	11(3); 3(1)	28.5%
		7	5(0)	0
	#14	9	9(0)	0
OSE	#1	1	10(2);	20%
		2	13(0); 9(0)	0
	#2	3	9(0)	0
		4	10(0)	0
		5	8(0); 10(0)	0
OSKT*	#6	1	13(13); 10(10)	100%
		2	7(7)	100%
		3	8(4); 12(5)	45%
	#11	4	6(6); 9(9); 10(10)	100%
		5	10(0)	0%
	#12	6	6(6)	100%
	#13	7	7(2)	28.6%
	#14	8	7(0)	0%
	#15	9	4(4); 7(7)	100%

FIGURE 4F

OSKT Line #16 Week 1



OSKT Line #16 Week 2



OSKT Line #14 E19



OSKT Line #14 E19

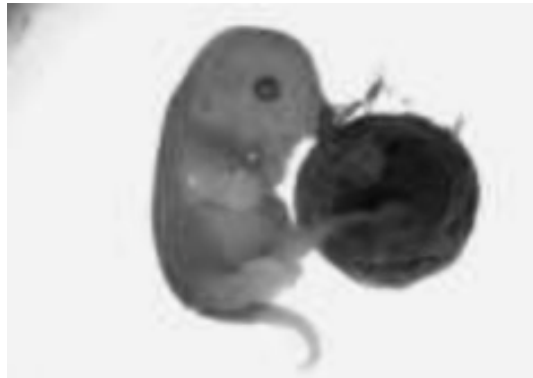


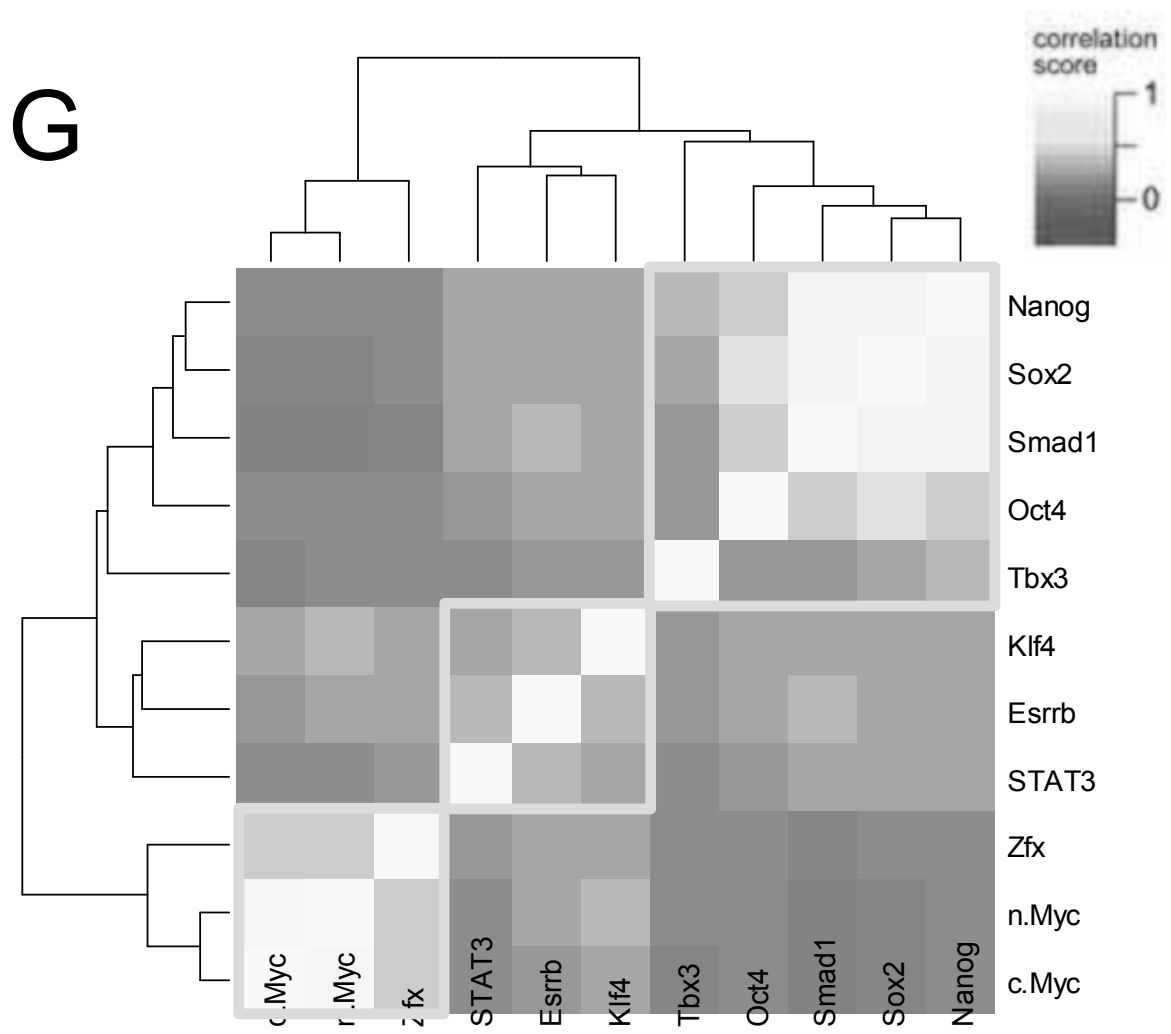
FIGURE 4G

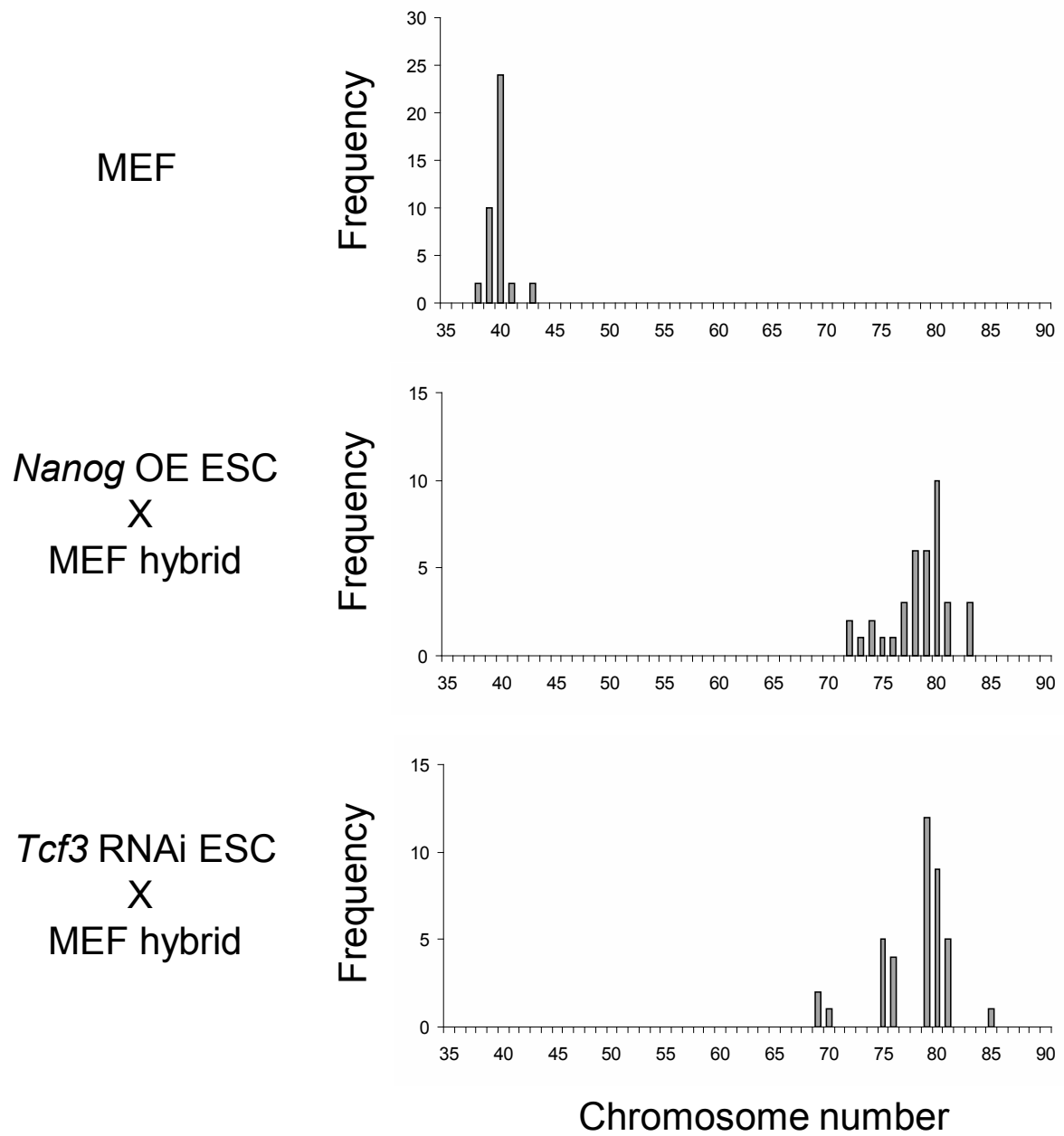
FIGURE 5

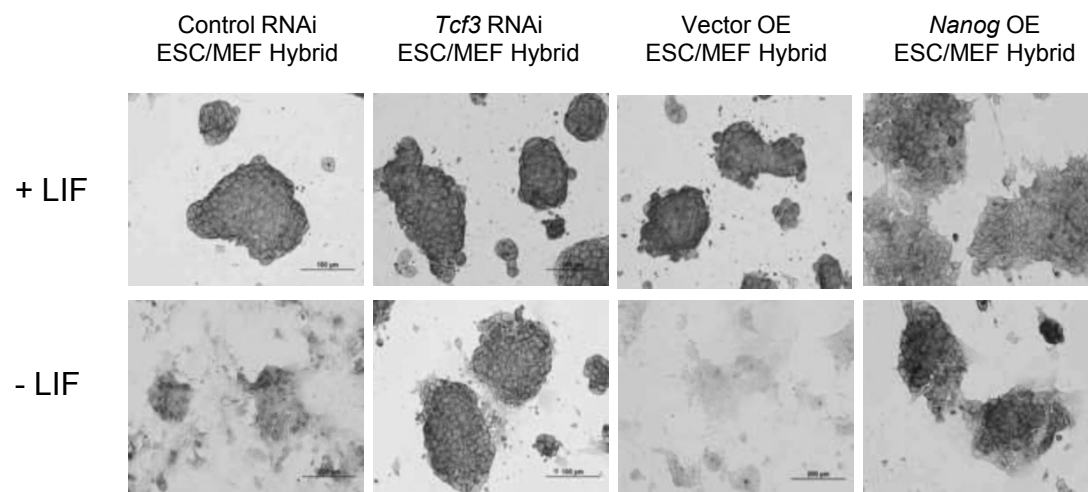
FIGURE 6

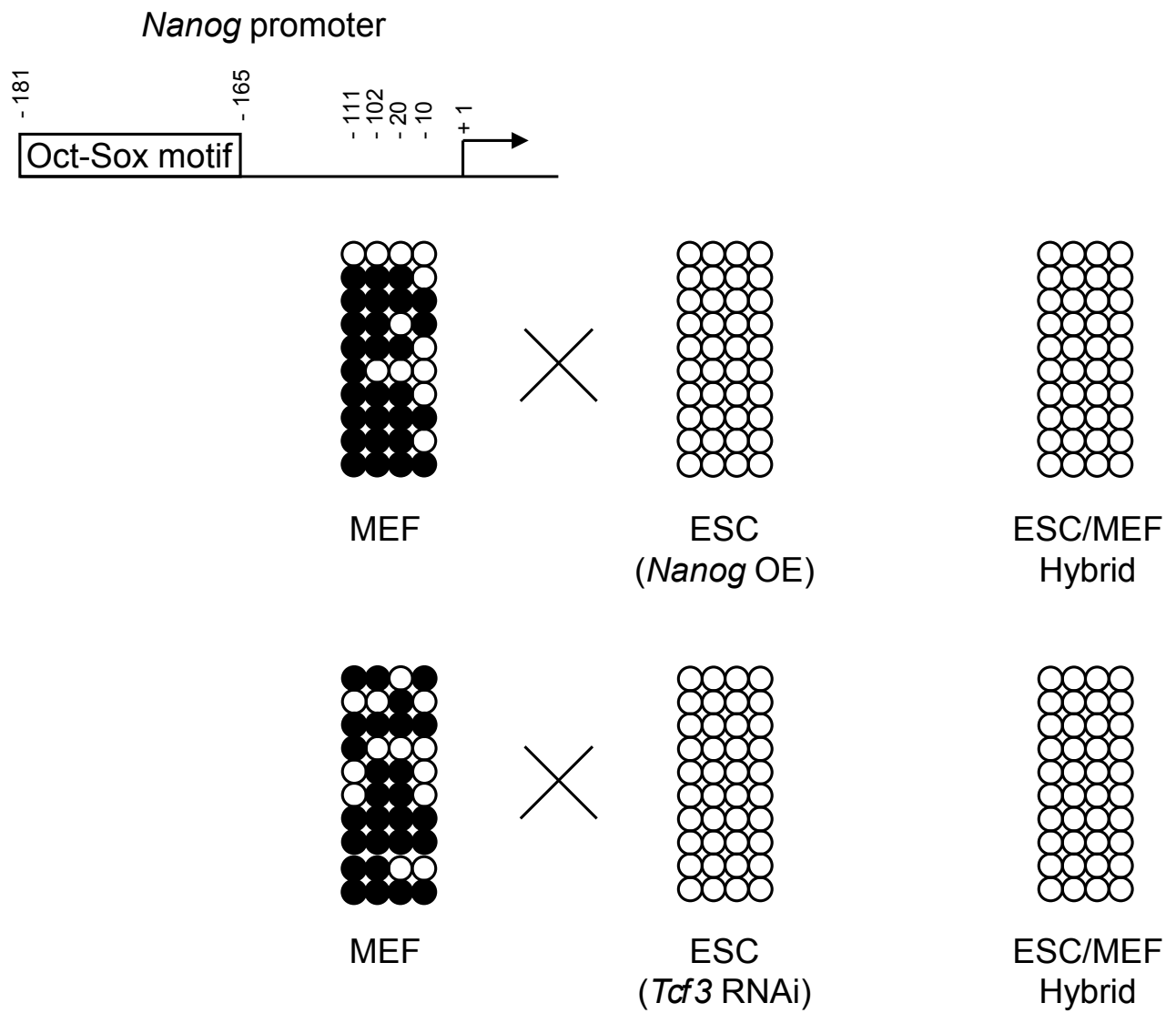
FIGURE 7

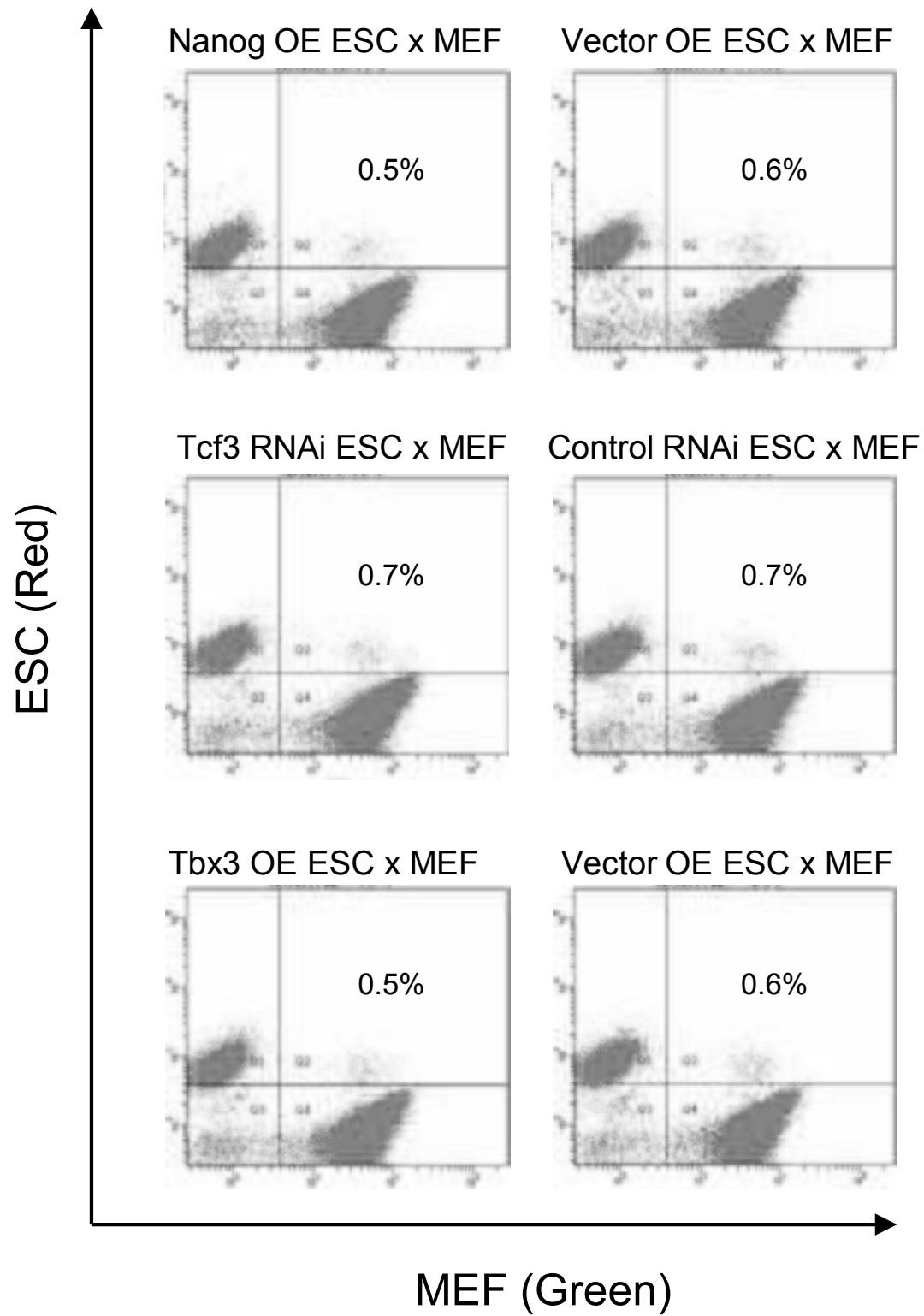
FIGURE 8

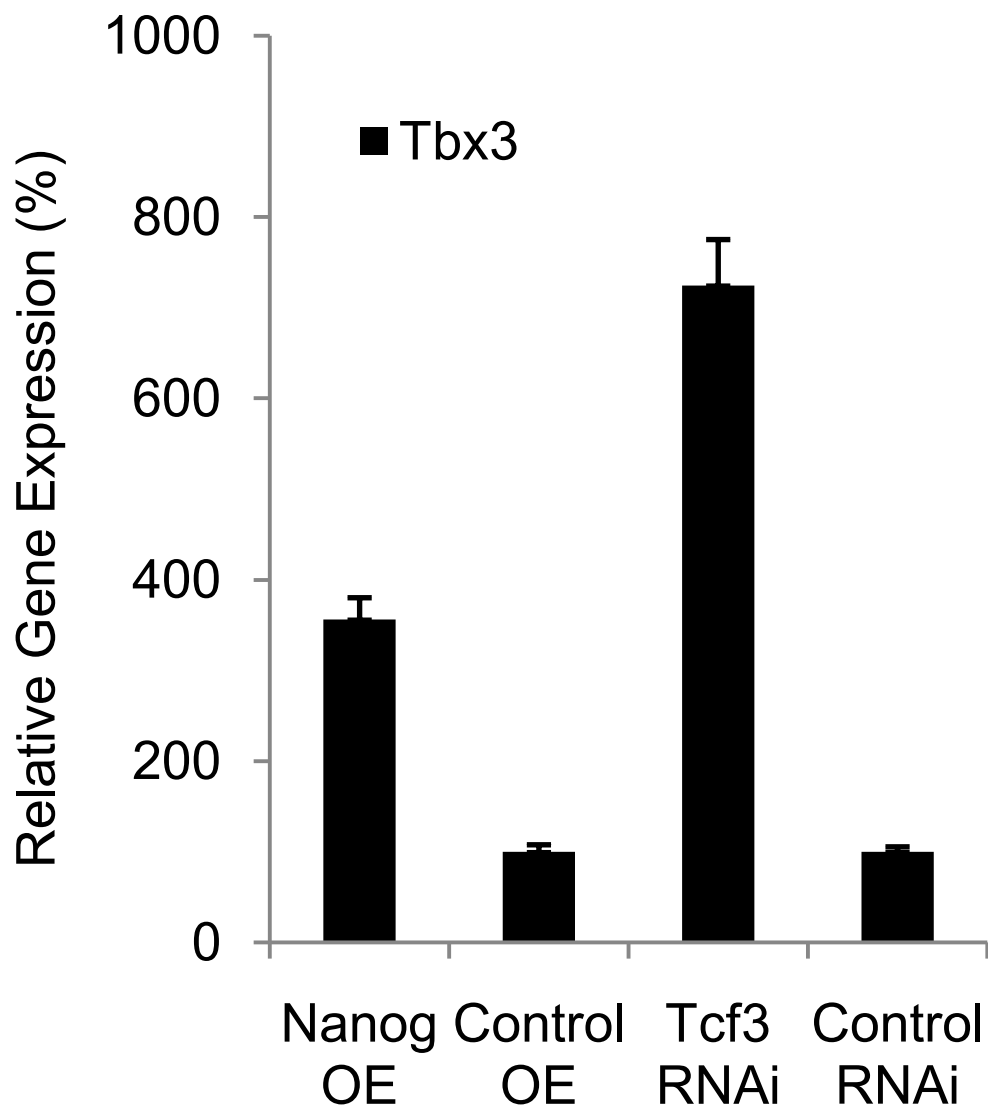
FIGURE 9A

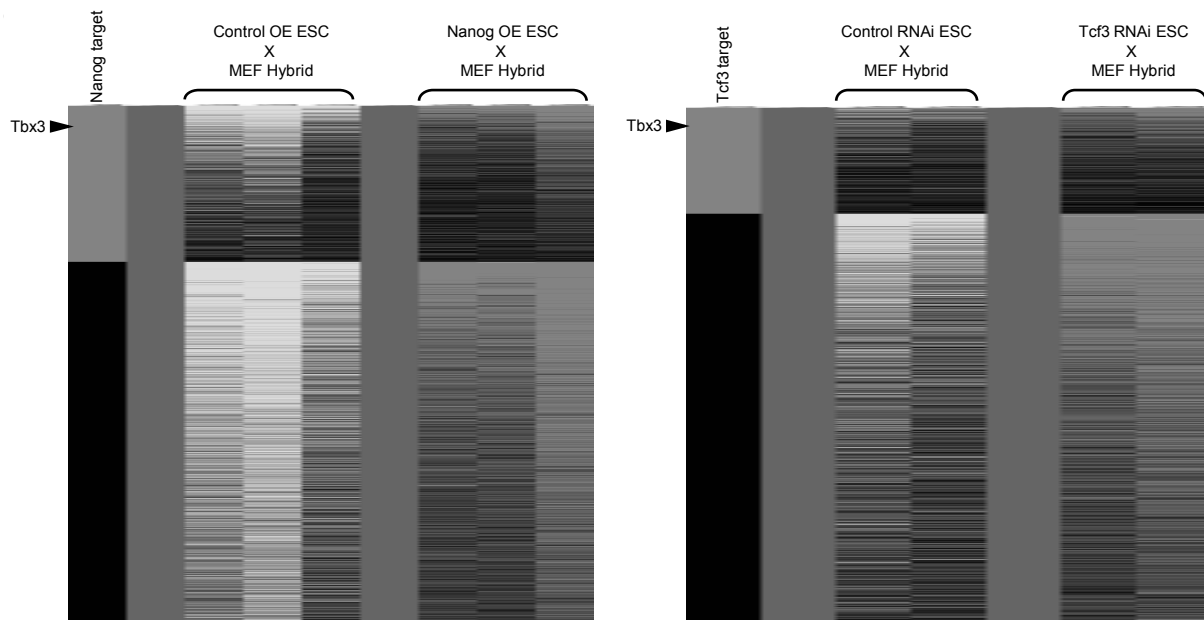
FIGURE 9B

FIGURE 10

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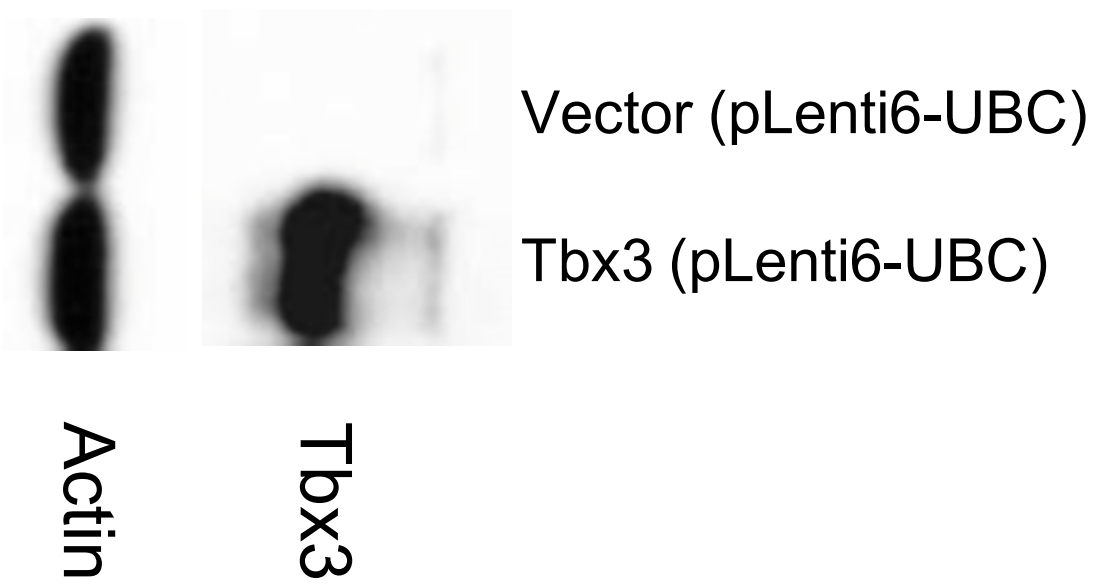


FIGURE 11

	Isolated GFP ⁺ colony number	Stable GFP ⁺ line	Percentage
OSK + c-Myc+ Tbx3	36	12	33.3%
OSK + cMyc	36	18	50%
OSK	36	33	91.6%
OSK + Tbx3	36	32	88.8%

FIGURE 12

Teratoma (H&E stain)

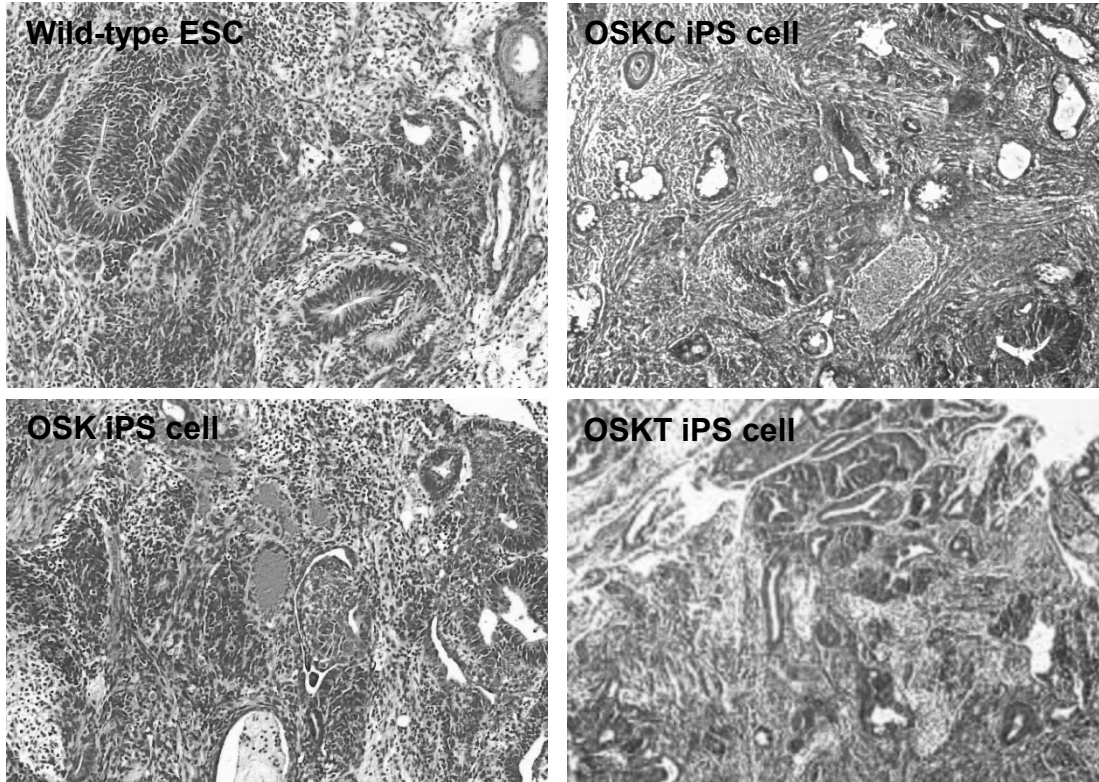


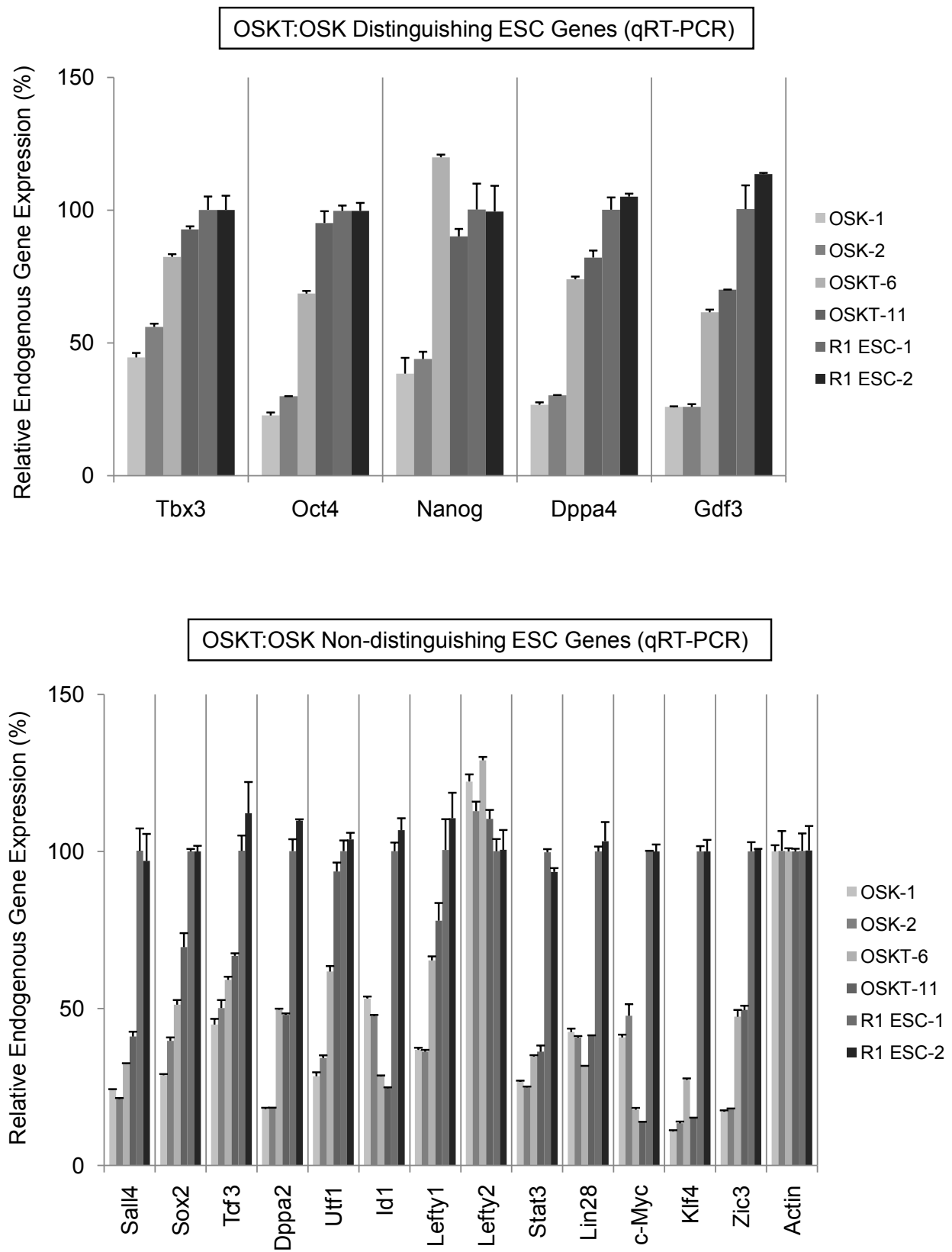
FIGURE 13

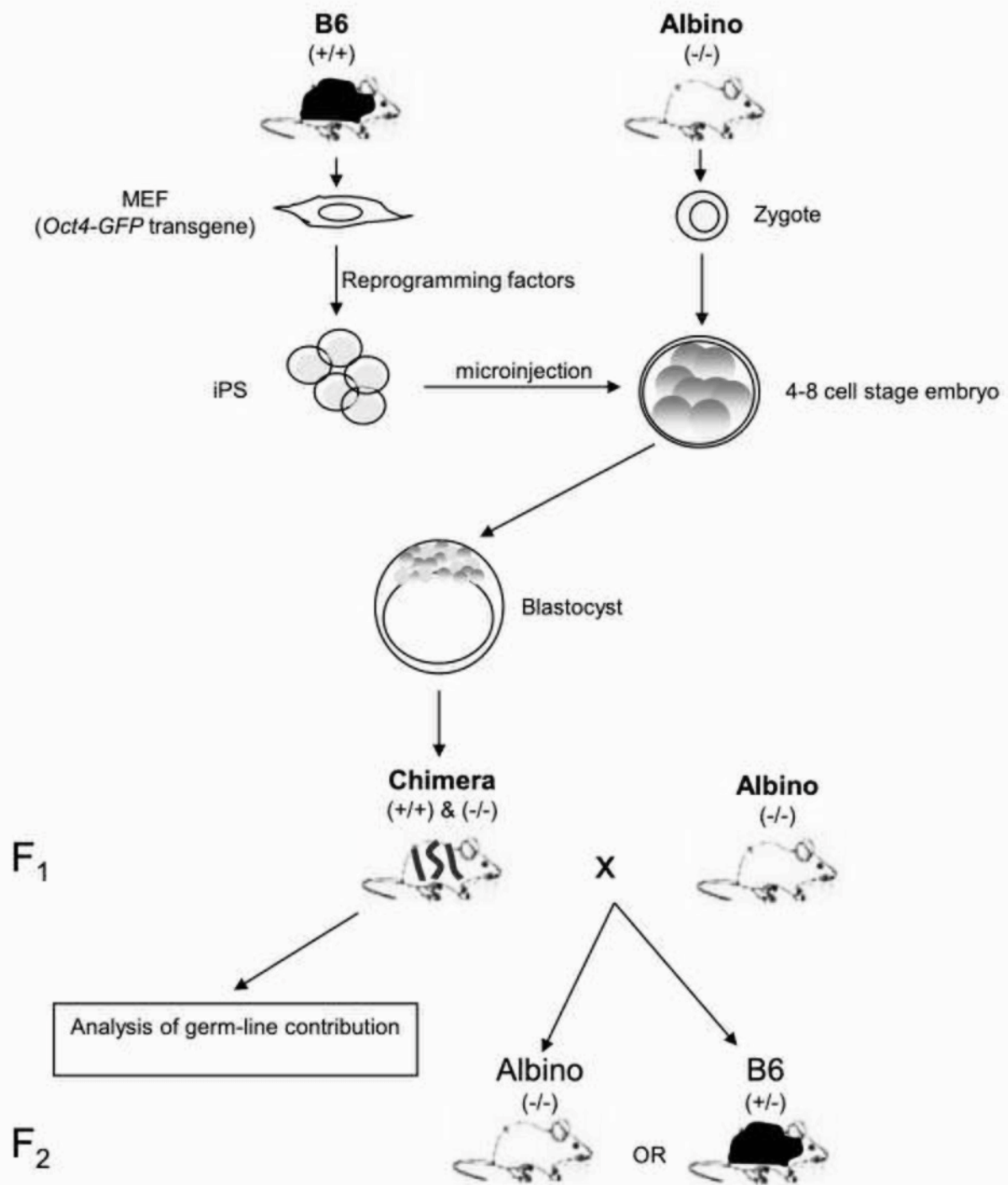
FIGURE 14

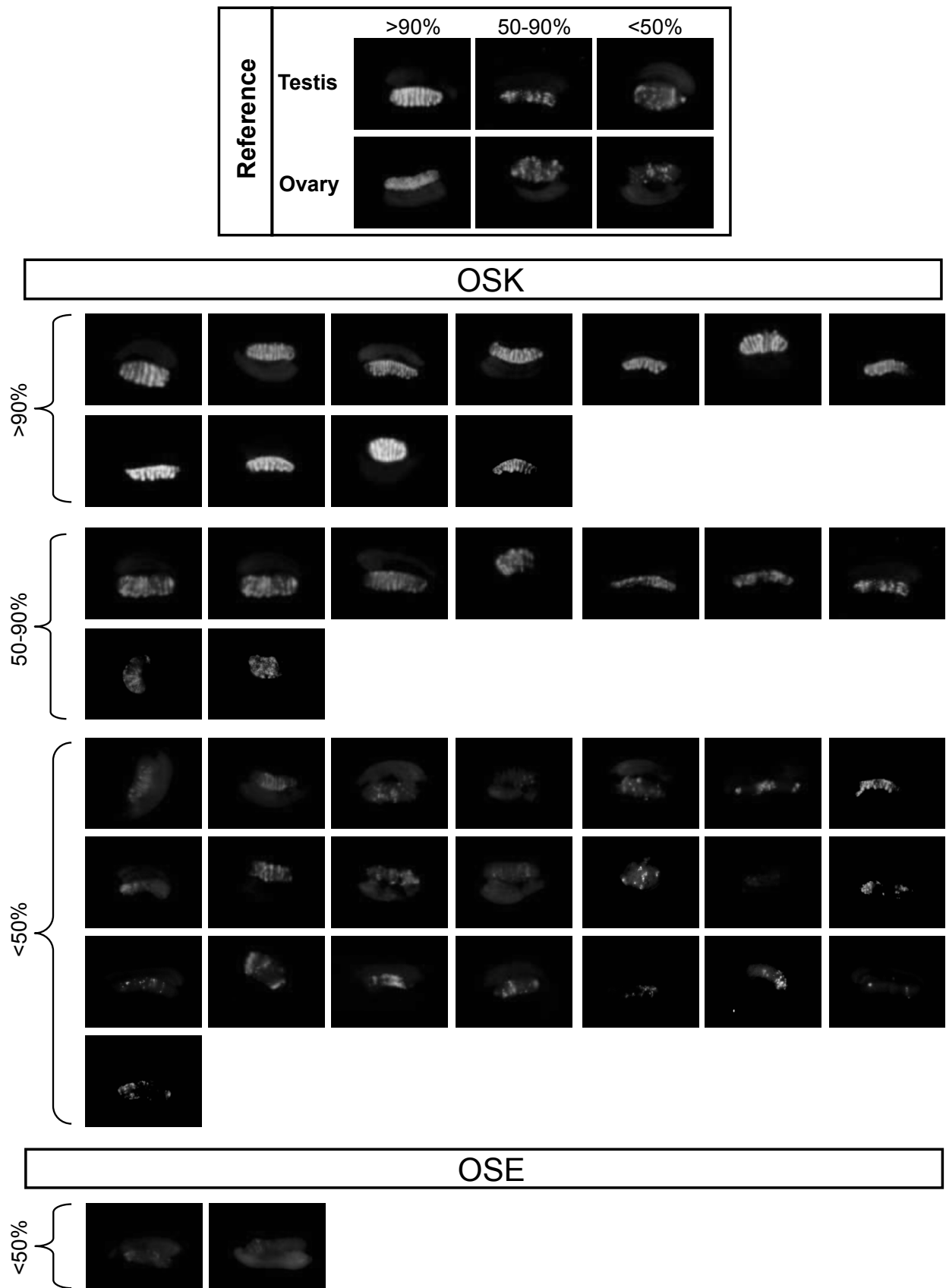
FIGURE 15A

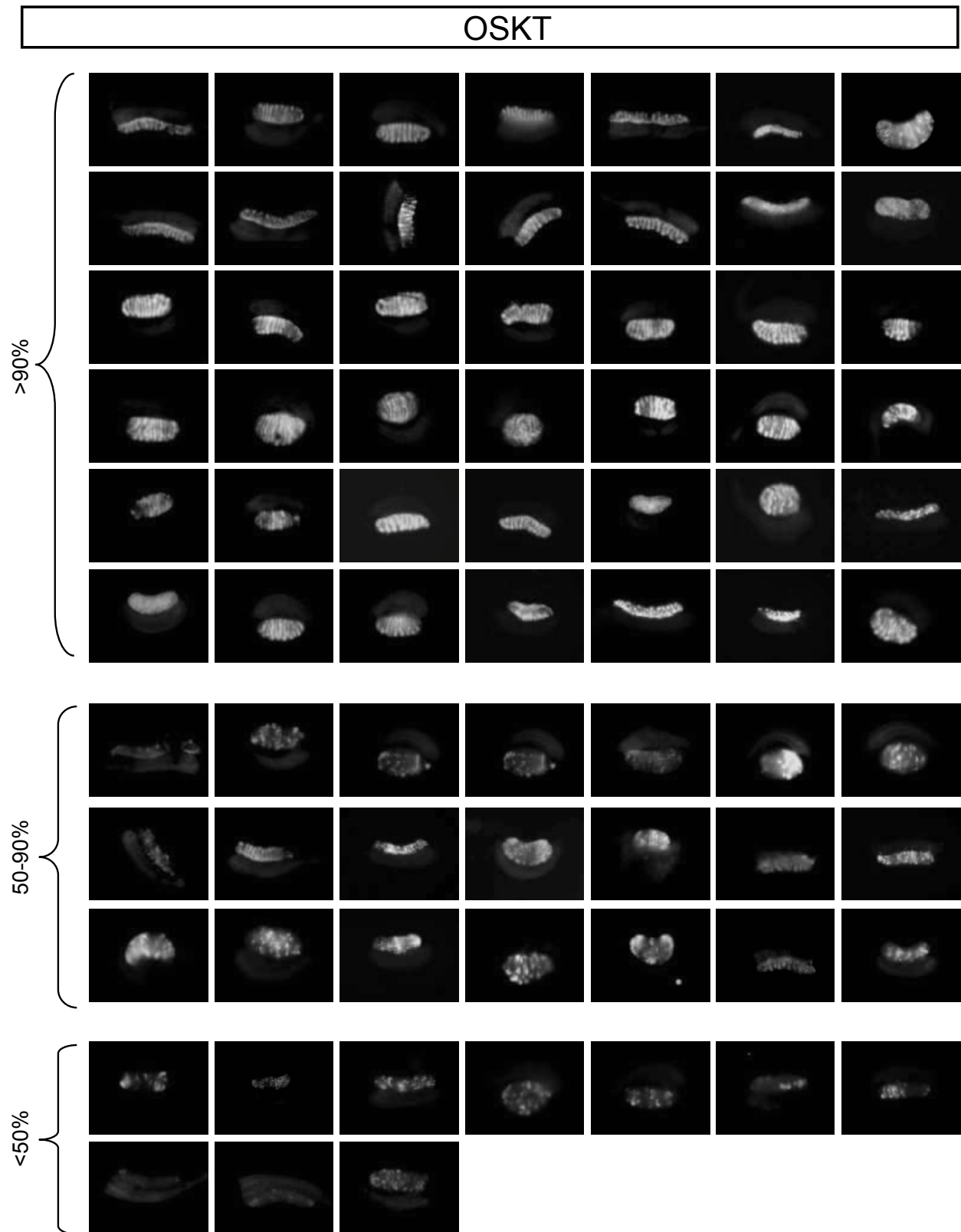
FIGURE 15B

FIGURE 16

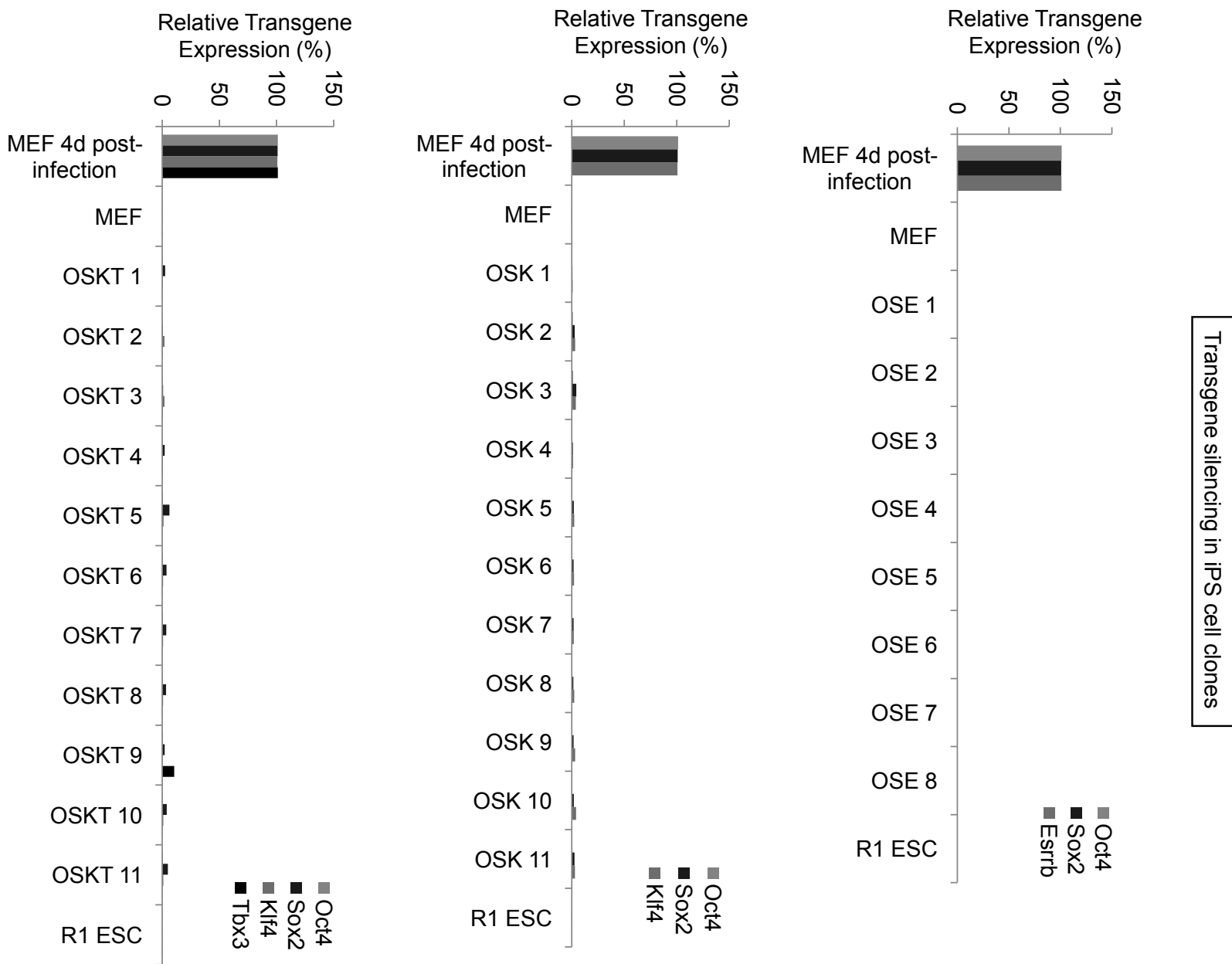


FIGURE 17

Retroviral Integration Frequency in iPS cell clones

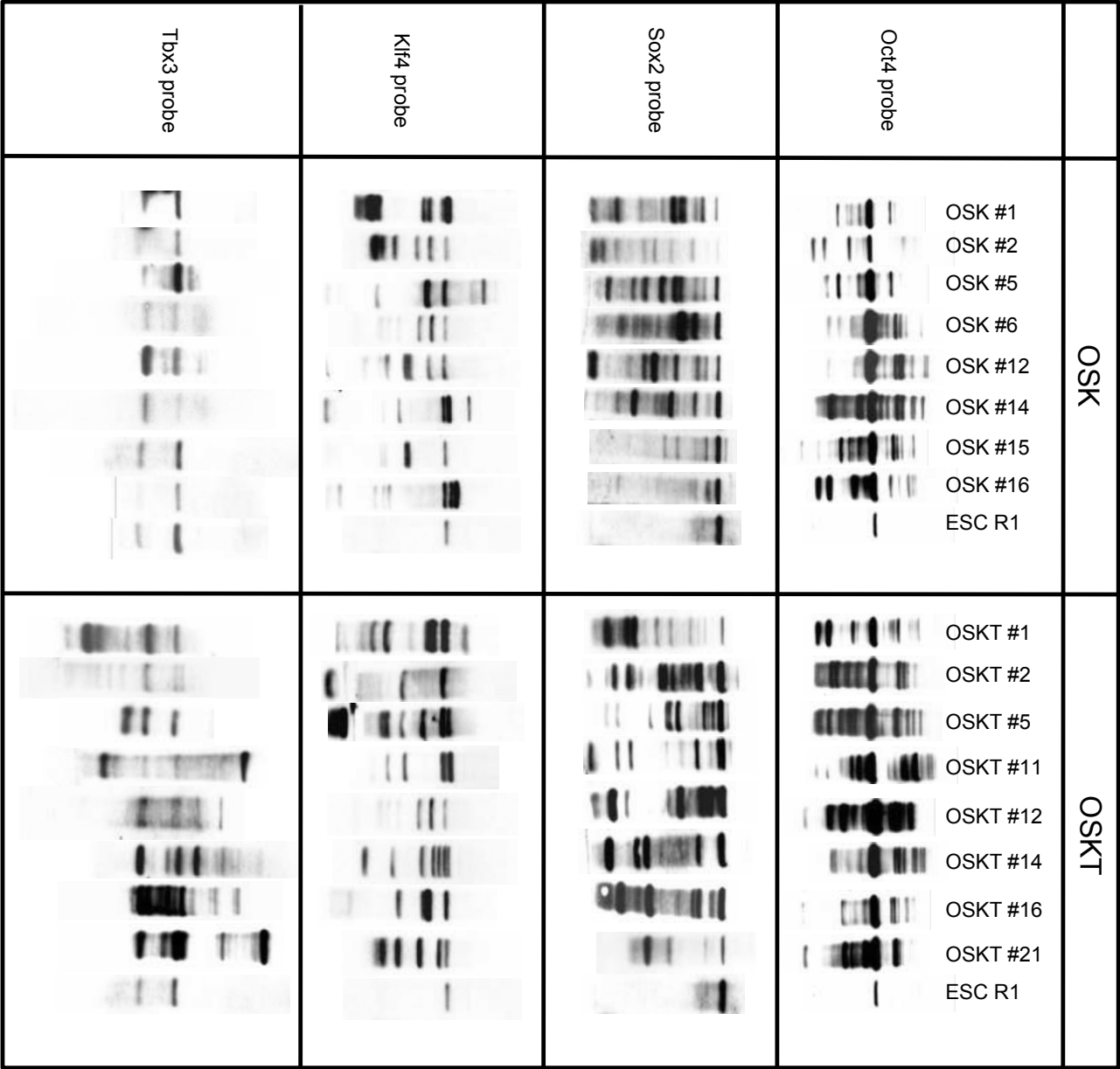


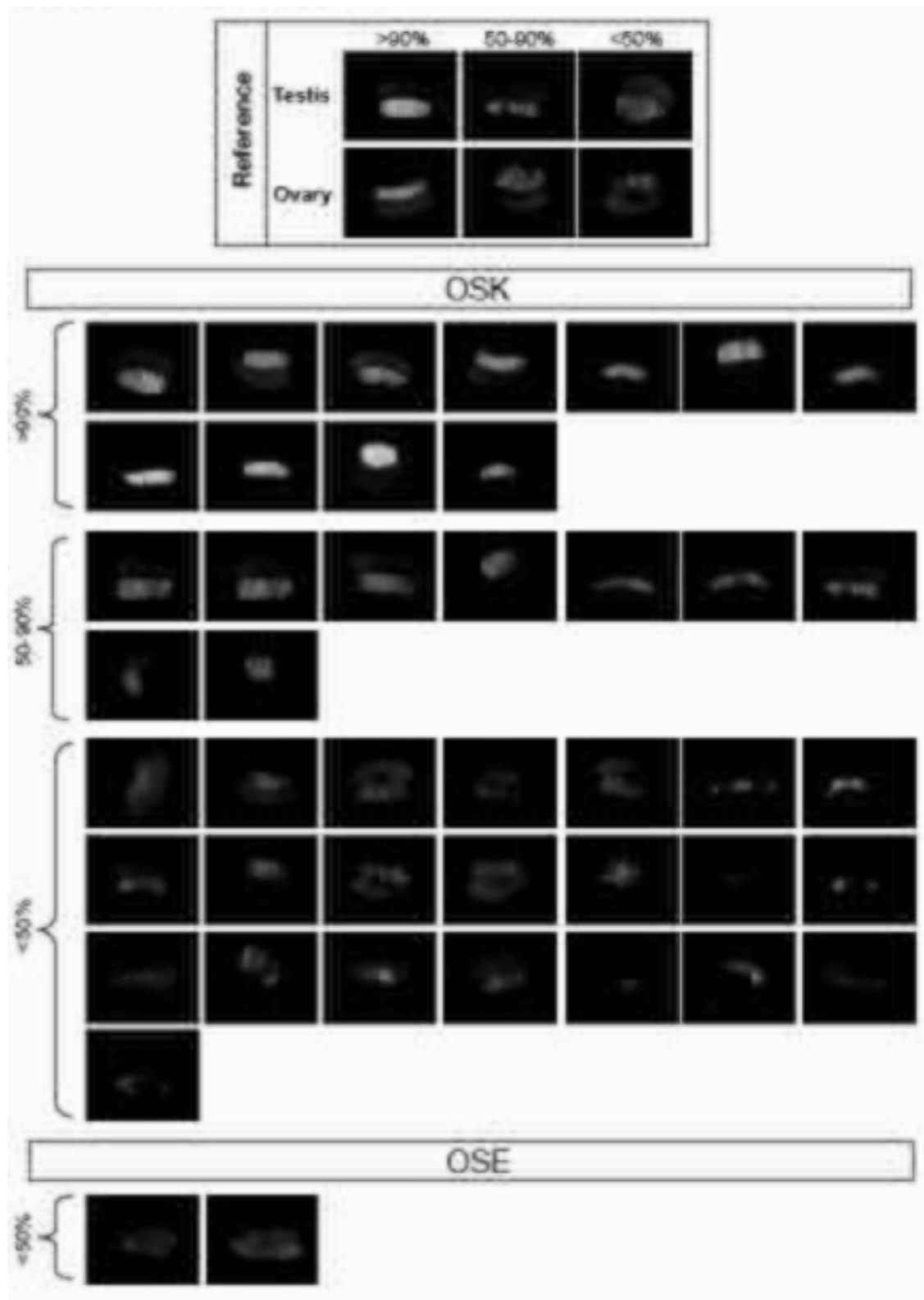
FIGURE 18A

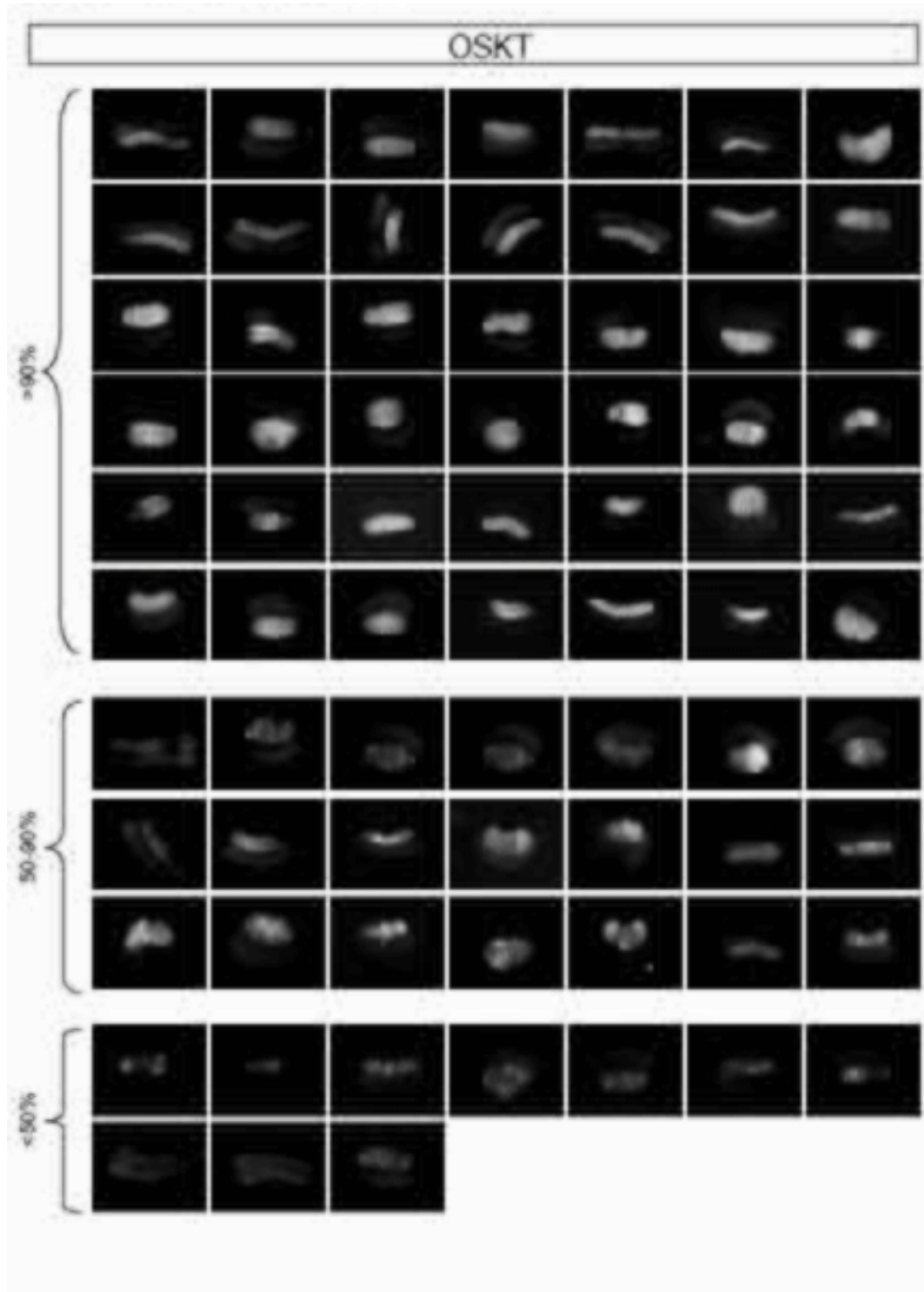
FIGURE 18B

FIGURE 19